

THE ARCHITECTS' JOURNAL



standard contents

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

NEWS and COMMENT

Astragal's Notes and Topics

Letters

News

Diary

Societies and Institutions

TECHNICAL SECTION

Information Sheets

Information Centre

Current Technique

Working Details

Questions and Answers

Prices

The Industry

CURRENT BUILDING

Major Buildings Described:

Details of Planning, Construction,

Finishes and Costs

Buildings in the News

Building Costs Analysed

Architectural Appointments

Wanted and Vacant

No. 3284]

[Vol. 127

THE ARCHITECTURAL PRESS

11 and 13, Queen Anne's Gate, Westminster,
S.W.1. 'Phone: Whitehall 0611

Price 1s. 0d.

Registered as a Newspaper.

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

IHVE	Institution of Heating and Ventilating Engineers. 49, Cadogan Square. Sloane 1601/3158
IIBDID	Incorporated Institute of British Decorators and Interior Designers. 100, Park Street, Grosvenor Square, W.1. Mayfair 7086
ILA	Institute of Landscape Architects, 2, Guilford Place, W.C.1. Holborn 0281
I of Arb	Institute of Arbitrators. Hastings House, 10, Norfolk Street, Strand, W.C.2. Temple Bar 4071
IOB	Institute of Builders. 48, Bedford Square, W.C.1. Museum 7179
IQS	Institute of Quantity Surveyors. 98, Gloucester Place, W.1. Welbeck 1859
IR	Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3. Avenue 6851
IRA	Institute of Registered Architects. 47, Victoria Street, S.W.1. Abbey 6172
ISE	Institute of Structural Engineers. 11, Upper Belgrave Street, S.W.1. Sloane 7128
LDA	Lead Development Association. 18, Adam Street, W.C.2. Whitehall 4175
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1. Museum 3891
LSPC	Lead Sheet and Pipe Council. Eagle House, Jermyn Street, S.W.1. Whitehall 7264/4175
MAFF	Ministry of Agriculture, Fisheries and Food. Whitehall Place, S.W.1. Trafalgar 7711
MOE	Ministry of Education. Curzon Street House, Curzon Street, W.1. Mayfair 9400
MOH	Ministry of Health. 23, Savile Row, W.1. Regent 8411
MOHLG	Ministry of Housing and Local Government. Whitehall, S.W.1. Whitehall 4300
MOLNS	Ministry of Labour and National Service. 8, St. James' Square, S.W.1. Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, W.C.2. Gerrard 6933
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1. Mayfair 9494
MOW	Ministry of Works. Lambeth Bridge House, S.E.1. Reliance 7611
NAMMC	Natural Asphalt Mine Owners and Manufacturers Council. 94/98, Petty France, S.W.1. Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1. Abbey 4813
NBR	National Buildings Record. 31, Chester Terrace, Regent's Park, N.W.1. Welbeck 0619
NCBMP	National Council of Building Material Producers, 10, Storey's Gate, S.W.1. Abbey 5111
NEFMAI	National Employers Federation of the Mastic Asphalt Industry. 21, John Adam Street, Adelphi, W.C.2. Trafalgar 3927
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1. Langham 4041/4054
NFBTO	National Federation of Building Trades Operatives. Federal House, Cedars Road, Clapham, S.W.4. Macaulay 4451
NFHS	National Federation of Housing Societies. 12, Suffolk St., S.W.1. Whitehall 1693
NHBRC	National House Builders Registration Council. 58, Portland Place, W.1. Langham 0064/5
NPL	National Physical Laboratory. Head Office, Teddington. Molesey 1380
NRDB	Natural Rubber Development Board. Market Buildings, Mark Lane, E.C.3. Mansion House 9383
NSAS	National Smoke Abatement Society. Palace Chambers. Bridge Street, S.W.1. Trafalgar 6838
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1. Whitehall 0211
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1. Whitehall 7245
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1. Abbey 4504
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh. Fountainbridge 7631
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1. Langham 5721
RICS	Royal Institution of Chartered Surveyors. 12, Great George Street, S.W.1. Whitehall 5322/9242
RFAC	Royal Fine Art Commission. 5, Old Palace Yard, S.W.1. Whitehall 3935
RS	Royal Society. Burlington House, Piccadilly, W.1. Regent 3335
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2. Trafalgar 2366
RSH	Royal Society of Health. 90, Buckingham Palace Road, S.W.1. Sloane 5134
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19. Wimbledon 5101
SBPM	Society of British Paint Manufacturers. Grosvenor Gardens House, Grosvenor Gardens, S.W.1. Victoria 2186
SE	Society of Engineers. 17, Victoria Street, Westminster, S.W.1. Abbey 7244
SFMA	School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3. Mansion House 3921
SIA	Society of Industrial Artists. 7, Woburn Square, London, W.C.1. Langham 1984/5
SIA	Structural Insulation Association. 32, Queen Anne Street, W.1. Langham 7616
SNHTPC	Scottish National Housing. Town Planning Council. Hon. Sec., Robert Pollock, Town Clerk, Rutherglen
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1. Holborn 2646
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2. Temple Bar 5006
TDA	Timber Development Association. 21, College Hill, E.C.4. City 4771
TPI	Town Planning Institute. 18, Ashley Place, S.W.1. Victoria 8815
TTF	Timber Trades Federation. 75, Cannon Street, E.C.4. City 5040
WDC	War Damage Commission. 6, Carlton House Terrace, S.W.1. Whitehall 4341
ZDA	Zinc Development Association. 34, Berkeley Square, W.1. Grosvenor 6636



CONCERTO IN A FLAT

Brahms or Bartok do not make good neighbours. All very well in the Concert Hall, but the double bass practising in the top floor flat, can madden the most ardent enthusiast. A pity the architect had not used Rocksil Brand Mineral Wool, the ideal insulation material which absorbs airborne energies and insulates impact noise at source. Rocksil Brand Mineral Wool is also a good thermal insulation medium is non-hygroscopic, rot-proof, fungus-proof, and completely odourless. Rocksil is manufactured in many forms, including sound insulation quilt. Write for leaflet No. KH.23.

♪♪♪♪♪ **ROCKSIL** ♪♪
REGD. TRADE MARK



WILLIAM KENYON & SONS (METAMICA) LTD
DUKINFIELD · CHESHIRE

Manufacturers of Building insulation materials.

KR44

RIST'S

-the answer

TO ALL YOUR CABLE PROBLEMS

You can be sure of complete satisfaction from Rist's T.R.S and V.I.R. house wiring cables. Manufacturers of cables for internal maintenance wiring, electric fans, soldering irons, etc. All cables are made to the appropriate British Standard Specification.

Write now for further details.



RIST'S WIRES & CABLES LTD

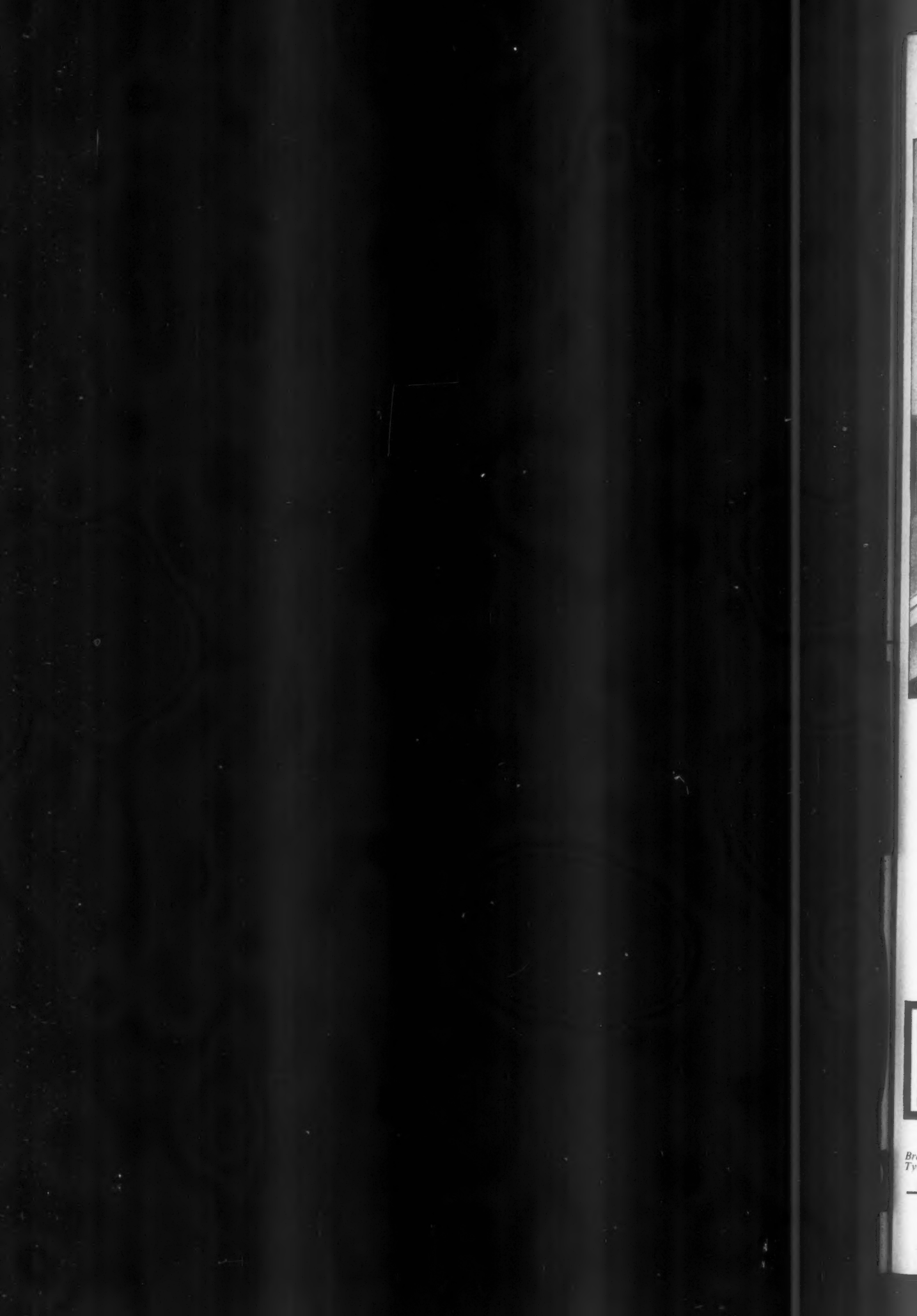
LOWER MILEHOUSE LANE • NEWCASTLE-UNDER-LYME • STAFFS

D

R44

APPLS

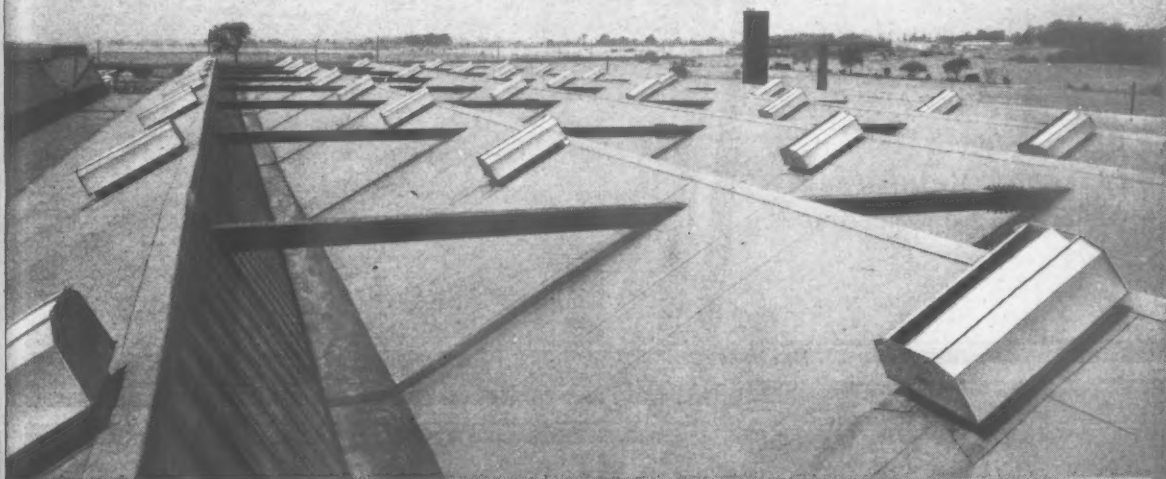
D



Colt Ventilation right from the start at...

THOMAS CROMPTON & SONS LTD., HAYDOCK, LANCs.

Consulting Engineers : C. S. Allott & Son



For the new Factory for Thomas Crompton & Sons Ltd., the Consulting Engineers required a system of ventilation to cater for the Production Section for which 2 changes of air per hour were required for normal ventilation and to restrict the temperature rise due to heat emission from machinery, operatives, etc. The system was to be sufficiently flexible to enable an additional 2 air changes to be available to cope with solar radiation heat gains in summertime.

COLT were called in, and a scheme was formulated involving the installation of 44 S.R.C.2046 fully controllable Ventilators providing for the extraction of heat and vitiated air through the roof, balanced with 4 COLT Inflow Units for inlet, which enabled fresh air from outside the building to be delivered right into the centre of the working area where it was most needed. Each of these Inflow Units is fitted with two special Colt Variable Air Projectors which enable pencils of the incoming air to be directed accurately in a number of different directions simultaneously, to provide individual man-cooling for any person working in the vicinity of hot machinery.

COLT have ventilated over 10,500 major industrial projects and their wide experience in ventilating all types of buildings is at your disposal. Whether the ventilation problem is large or small—in an existing building or for one still “on the drawing board”—consult them first!

COLT

Send for Free Manual on Colt Ventilation to Dept. L18/2A

VENTILATION



COLT VENTILATION LTD · SURBITON · SURREY
TELEPHONE: ELMBRIDGE 6511 (10 LINES)

U.S.A. Subsidiary: Colt Ventilation of America, Inc., Los Angeles.

Branches at: Birmingham, Bradford, Bridgend (Glam), Bristol, Dublin, Glasgow, Leamington Spa, Liverpool, London, Manchester, Newcastle-upon-Tyne, and Sheffield. Agents in: Australia, Belgian Congo, Belgium, Burma, Canada, Cyprus, India, Indonesia, Madagascar, Malaya, Mauritius, New Zealand, Pakistan, Portugal, Rhodesia and Nyasaland, South Africa, and West Indies.

G.857A

Steel Reinforcement

A complete service of
Design, Fabrication
and Fixing of Steel
Reinforcement for all
types of Reinforced
Concrete Construction.

M.S. Bars to B.S.S. 785, bent,
bundled and labelled, delivered
to site ready for fixing. No loss
of time in checking and sorting
material. No loss of material due
to prolonged storage on site.

T. C. JONES

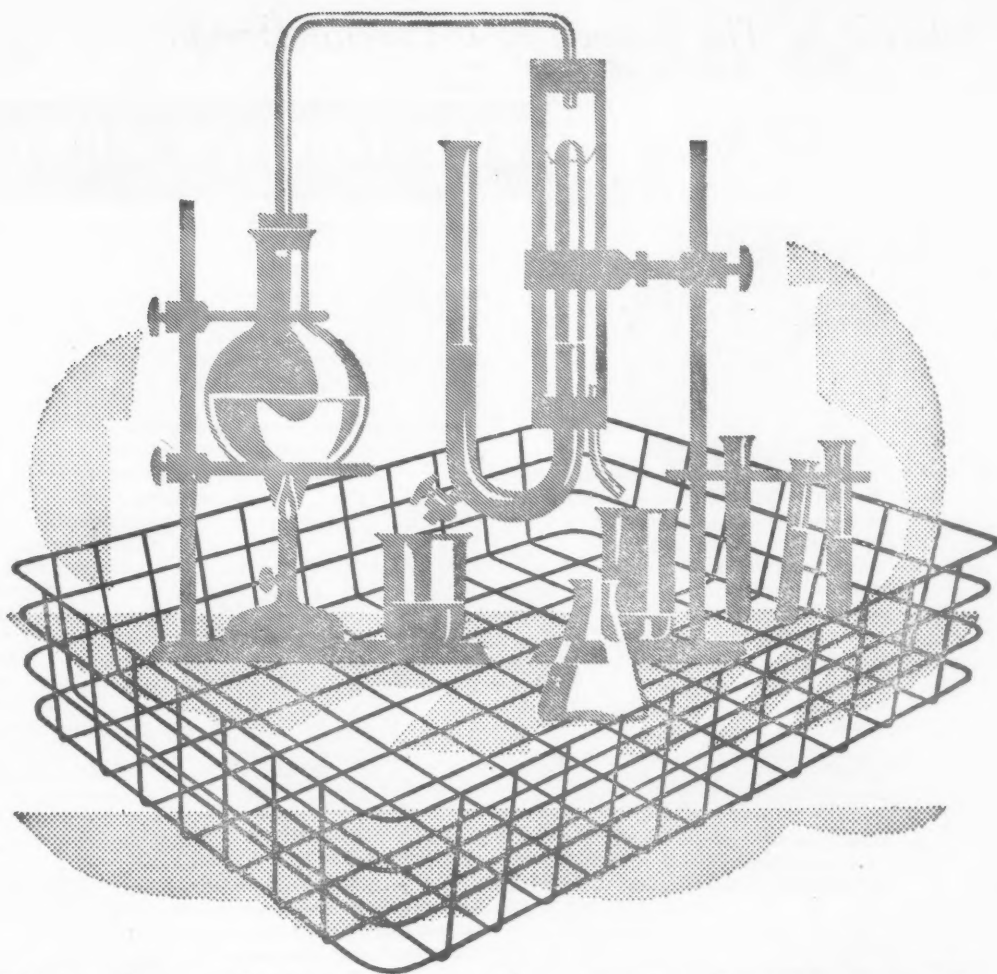
AND COMPANY LIMITED

REINFORCEMENT ENGINEERS

17 BUCKINGHAM PALACE GARDENS, LONDON, S.W.1
Tel: SLOane 5271

Head Office: Wood Lane, London, W.12 Tel: Shepherds Bush 2020
South Wales Office: Bute Street, Cardiff Tel: 28786
Works: Shepherds Bush, London. Neasden, Middx. Treorchy, Glam.





There's a laboratory in your letter-tray!

The development of Evo-Stik 'Impact' adhesive techniques has helped a great deal to speed and cheapen many modern building operations. Today there are Evo-Stik 'Impact' adhesives to give a contact bond between most materials and most surfaces—including plastics, wood, plaster, glass, pottery, rubber, metals, fabrics, stone and leather.

This means, very simply, that joining things for good now need involve nothing more than applying the right Evo-Stik adhesive to both surfaces

and bringing them together. They are bonded immediately, and within minutes a joint of extraordinary strength is produced, entirely without jigs, struts or other mechanical means.

Obviously, we are anxious to inform architects everywhere of the potential of Evo-Stik; so we freely place the resources of our laboratories at their disposal. Name the surfaces you have to join, specify the conditions the joint has to withstand and we will tell you if there is an Evo-Stik Impact adhesive to do your particular job better than the method normally used.

There is a laboratory "in your letter-tray". We hope you will *write to us today.



EVO-STIK 'impact' adhesives • joining in modern building

Regd. Trade Mark

EVODE LTD. (INDUSTRIAL ADHESIVES DIV.) COMMON ROAD, STAFFORD. PHONE 2241

LONDON OFFICE: 1, VICTORIA STREET, S.W.1. PHONE: ABBey 4622/3

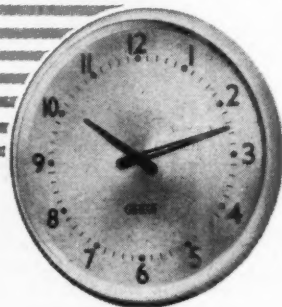
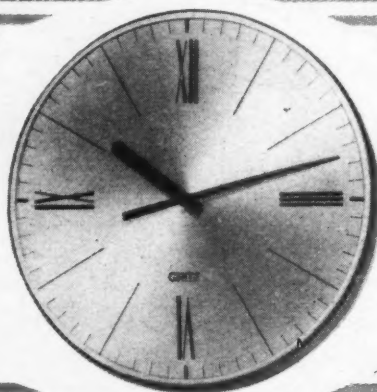
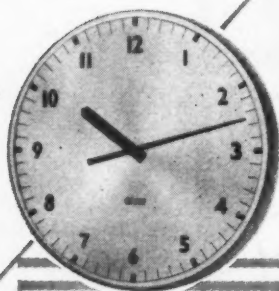
(5 lines)

★ Brochure and general technical information also available on request

Selected by The Council of Industrial Design

for display in

THE DESIGN CENTRE



These three models have been specially designed *exclusively* for this Company by Jack Howe, F.R.I.B.A., F.S.I.A. They are available in both 9" and 12" dial size and will be appreciated for their suitability where clocks of modern design are required. All models are available for Synchronous or Master Clock operation.

GENTS'
OF LEICESTER

ELECTRIC CLOCKS



For further details write for our illustrated leaflet "Time for Business".

GENT & COMPANY LIMITED • FARADAY WORKS • LEICESTER

London Office & Showrooms: 47 Victoria St., London S.W.1.

Also at: BELFAST • BIRMINGHAM • BRISTOL • EDINBURGH • GLASGOW • NEWCASTLE

Other Products include: TIME RECORDERS • WATCHMAN'S CLOCKS • PROGRAMME INSTRUMENTS • LUMINOUS CALL SYSTEMS
TOWER CLOCKS • FIRE ALARM SYSTEMS • STAFF LOCATION SYSTEMS • BELL AND INDICATOR SYSTEMS • ETC.



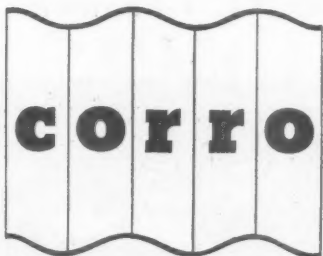
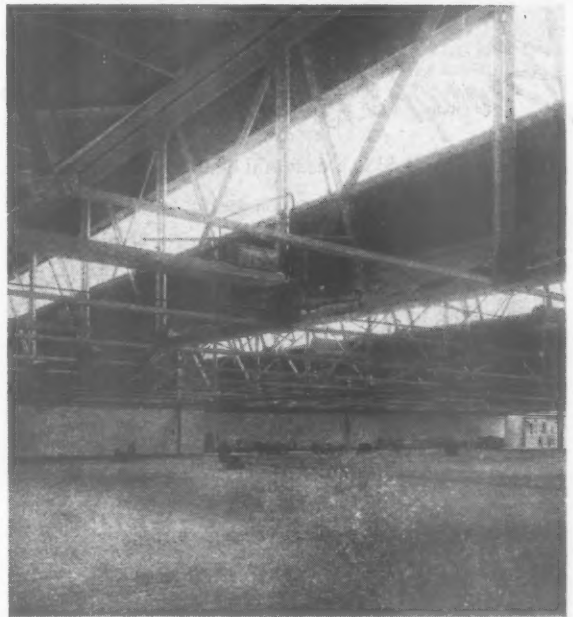
what do you look for in roof lighting?

The need for adequate **natural** light at working level, free from dangerous shadows, is of the greatest importance in industrial buildings.

2 | light without shadows ... naturally

Light transmission and light diffusion are the two major considerations.

Corroglaze is clearly the best of all forms of roof lighting sheet. It is 100% pure glass corrugated and reinforced with 1 in. square wire mesh. Corroglaze not only lets more light through but, thanks to the scientifically designed prismatic-type ribbing on its underside, diffuses light evenly over the whole floor, thus eliminating harsh lights or dull areas. It is non-porous and maintains its light transmission characteristics under the most adverse atmospheric conditions and is unaffected by fumes. Designed for use with corrugated asbestos cement, aluminium or galvanised iron sheets, panel-spaced Corroglaze is economical too. Compared with patent glazing laid in runs it gives greater light distribution and saves over 30% costs. It is of course 100% non-combustible and is approved for all industrial applications without reservation.



For further information write to:—

CORROGLAZE LTD., PALACE OF ENGINEERING, WEMBLEY, MIDDLESEX. TEL: WEMBLEY 9411

100% pure glass
(wire reinforced)
the non-combustible sheet

a new Hydraulic Overhead Door Check

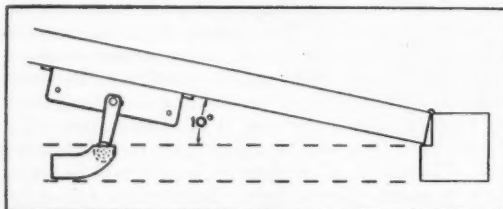


Brought from the Netherlands

by William Newman & Sons, Ltd.

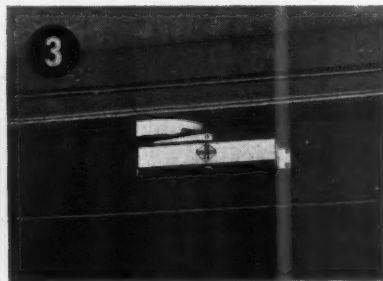
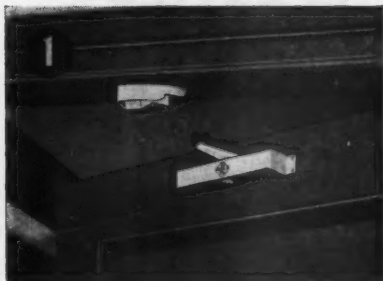
The D.33 is a neat and efficient unit for the purpose of taking control during the last 10° of the door's movement, and has a spring and check combination that closes the door quietly and gently, but very firmly into the door frame. The fixing of the D.33 is extremely simple, requiring no skilled experience.

It is fitted on the side of the door opposite to the hinges, approximately in the centre of the top rail. As the D.33 goes out of engagement after the first 10° of opening, an additional spring closer should be used to close the door from the fully open position.



William Newman & Sons Ltd.

HOSPITAL STREET, BIRMINGHAM, 19



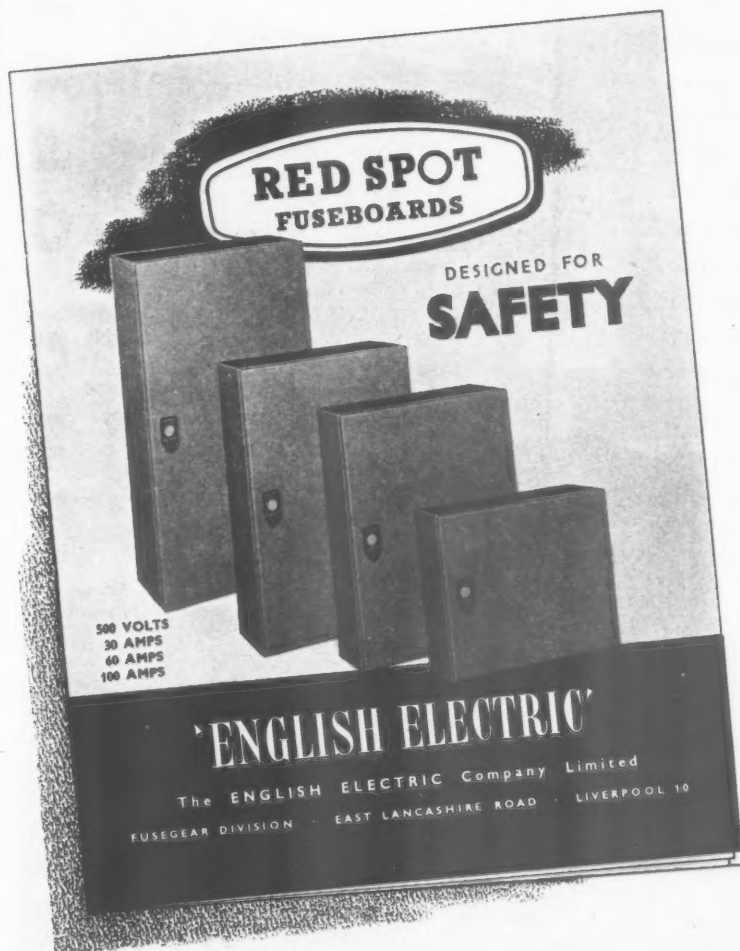
A NEW DESIGN

providing greater safety to operating personnel is described in this publication

Have you received your copy?

If not, write for Publication FG/133 to:
The ENGLISH ELECTRIC Company Limited,
Fusegear Division,
East Lancashire Road, Liverpool 10.

Stocks of 30, 60 and 100 amp.
sizes are now available.



'ENGLISH ELECTRIC'

fusegear

THE ENGLISH ELECTRIC COMPANY LIMITED, MARCONI HOUSE, STRAND, LONDON, W.C.2
WORKS: STAFFORD · PRESTON · RUGBY · BRADFORD · LIVERPOOL · ACCRINGTON

FG. 28A F7

How will you see tomorrow?

COME TO THE I.C.I. LIGHTING EXHIBITION AT
THE MAYFAIRIA ROOMS, BRYANSTON STREET, W.1
AND SEE FOR YOURSELF

FROM MARCH 25th - 29th I.C.I. are holding a Lighting Exhibition at the Mayfairia Rooms, Bryanston Street, W.1. They will show the use of 'Perspex', 'Darvic' and other I.C.I. plastic materials in the design of every form of modern lighting — for streets, public buildings, homes and industry. Be sure to come and see it — you will be very welcome.

The Mayfairia

HOW TO GET THERE

...by Bus:- Nos. 6, 7, 8, 12, 13, 15, 17, 23, 60, 63, 73, 88, 113, 137.

night services:- 289, 291, 294, to Marble Arch.

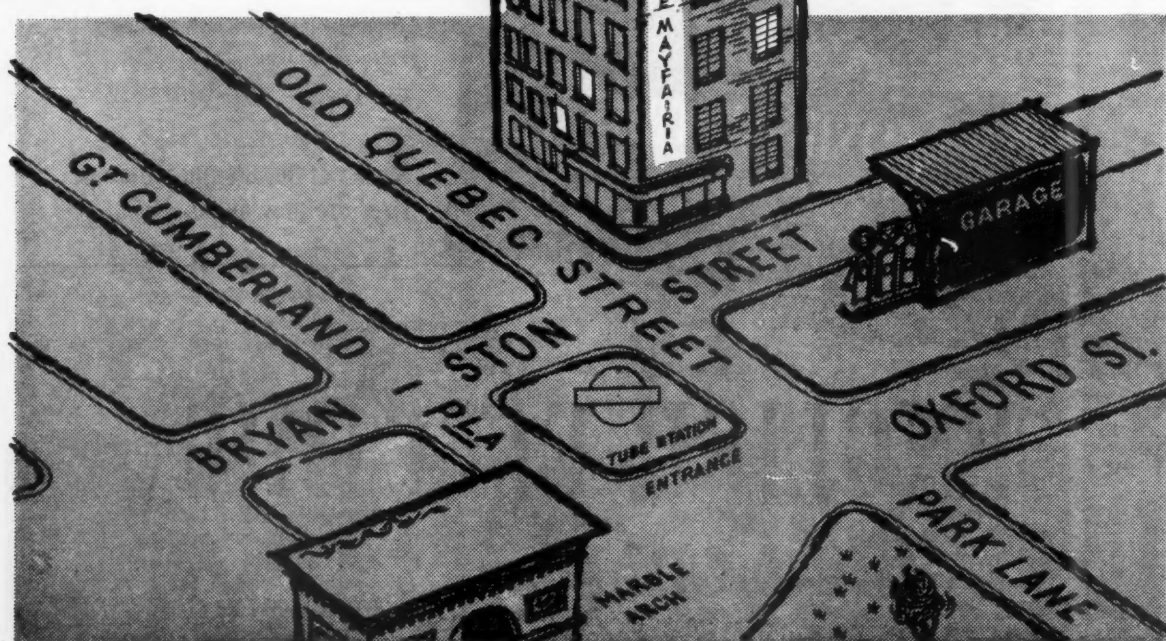
...by Green Line:- 703, 706, 707, 708, 712, 713, 714, 716, 717, 718, to Marble Arch.

...by Tube:- Central Line direct to Marble Arch Station.

...by Car, Ample Parking space all round the Mayfairia and large garage opposite.



'Perspex' and 'Darvic' are registered trade marks the property of I.C.I.



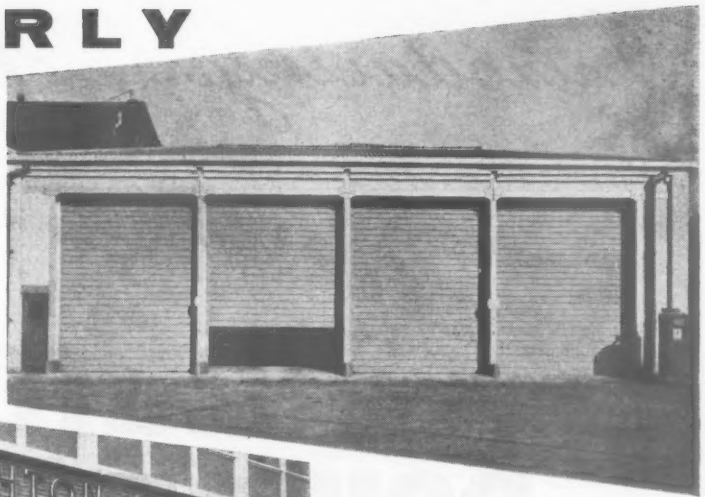
FP.58

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

FOR PROTECTING OPENINGS

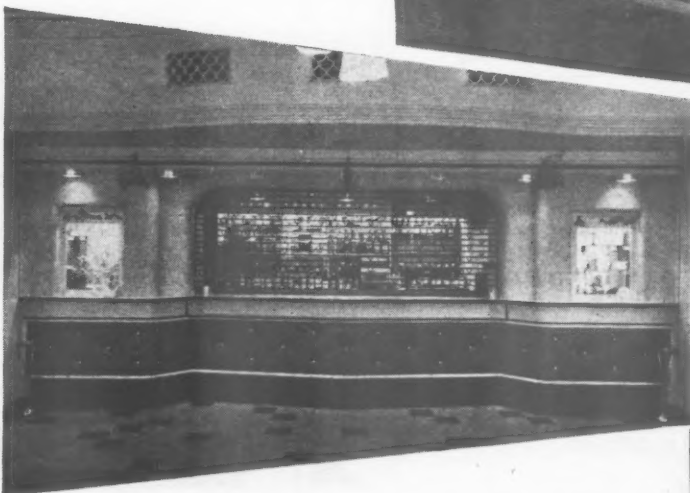
PROPERLY

Rolador
Steel Rolling Shutters
(Messrs. Tate & Lyle Ltd.)



Shutter doors
(Messrs. Henry Righton & Co. Ltd.)

Firola
Fire Resisting Shutters
(Messrs. L&C Garages)



Portcullis
Rolling Grilles
(Grand Hotel, Bournemouth)

Haskins

INFORMATIVE LITERATURE FORWARDED UPON REQUEST

Gnome House, Blackhorse Lane, London, E.17. Tel: LARKWOOD 2622 & Brook Street, Basingstoke, Hants. Tel: Basingstoke 1070

Introducing...



'Rufflette' BRAND DOUBLE TRACK

Double Track is completely unobtrusive and meets the demand for a curtain track of better than usual appearance with concealed cording mechanism. Equally suitable for installation in new or existing buildings, it is the ideal system for any straight window curtain problems. The track is of pressed steel in a fine ivory enamel finish within which nylon gliders provide noiseless and smooth operation. Fitting to window recess or ceiling is simplicity itself; and the smooth, effortless cord control action puts "Rufflette" Brand Double Track in a class by itself.

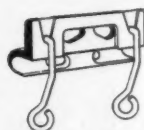


For hotels, hospitals, schools and in large commercial buildings "Rufflette" Double Track is the ideal curtain suspension system.



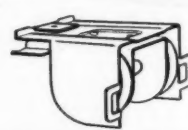
TRACK LENGTH

This diagram shows the beautifully designed lines of the track providing dust-free housing for the internal components.



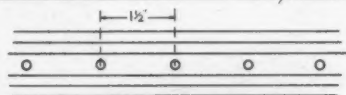
SINGLE & MASTER GLIDERS

These gliders are made in nylon to give a high degree of efficiency with a minimum of noise. Curtains hang from the eyes attached to the glider.



DOUBLE PULLEY UNIT

Vertical double pulleys made in nylon are fitted in this neat housing which is affixed to the end of the track.



FIXING HOLES

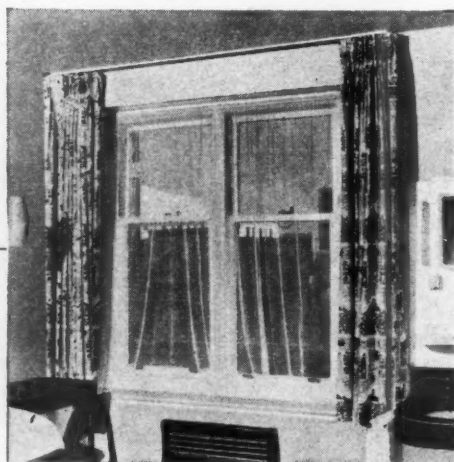
Holes of $\frac{3}{16}$ " diameter are drilled at intervals of $1\frac{1}{2}$ " along the full length of the Double Track section to facilitate fixing. Face fixing brackets are available if required.



SINGLE PULLEY UNIT

The single horizontal pulley made in nylon is fitted in this neat housing at the opposite end of the track.

*One of the many windows equipped with 'Rufflette' Double Track at the Strand Palace Hotel, London
(by courtesy of J. Lyons & Co. Ltd.)*



Full information about Double Track suspension on request to:

THOMAS FRENCH & SONS LTD., CHESTER ROAD, MANCHESTER, 15.

London Office: Dundas House, 59, St. James's Street, S.W.1. Also at Wythenshawe. Associate and Subsidiary Companies in U.S.A. and Canada.

SAFE cheap thermal insulation

Now that

THE THERMAL INSULATION

(*Industrial Buildings*) ACT is passed, you will wish more than ever to investigate the merits of various insulating materials for lining your buildings.

If you wish to reduce fire hazard specify *safe* thermal insulation — Insulating Gypsum Plasterboard will provide it. Aluminium foil applied to one face of the board, plus an air space, ensures structural U values comparable with any other lining material.

The choice is equally wise from the viewpoint of expense since, as Insulating Gypsum Plasterboard conforms on both faces to B.S.476, Class I, *it does not require any additional treatment involving extra cost.* Thus, apart from its own low cost, Insulating Gypsum Plasterboard ensures real economies in materials.

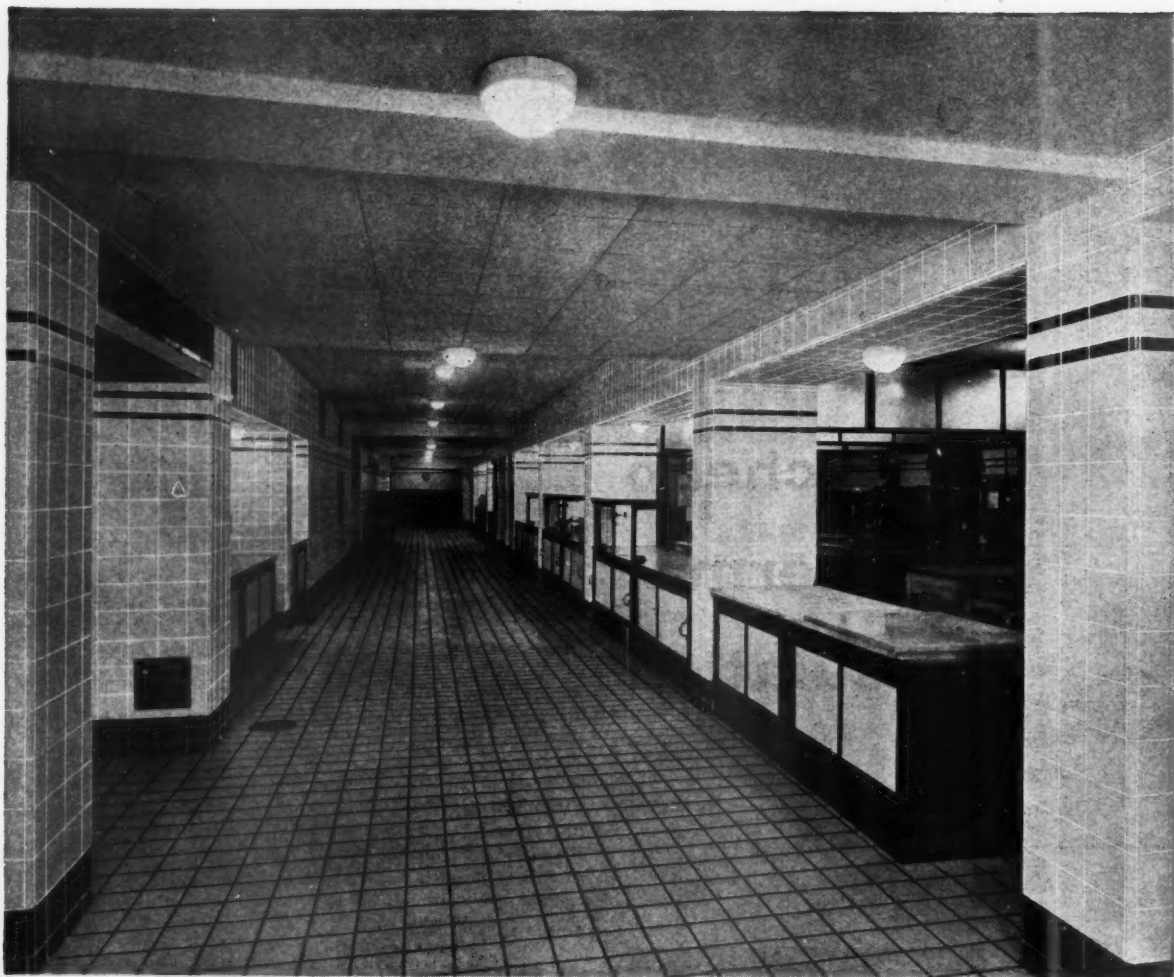
It's the core that counts . . .

THE INCOMBUSTIBLE GYPSUM CORE OF PLASTERBOARD

FOR THE FACTS write today for illustrated brochure to:
THE GYPSUM PLASTERBOARD DEVELOPMENT ASSOCIATION, G.P.O. BOX 321, LONDON W.1



GPA.4



CERAMIC TILES — THE OBVIOUS CHOICE

There is no other surface that measures up to the exacting standards of hygiene and cleanliness so essential in the kitchens of the Catering Industry.

That is why ceramic tiles were chosen as the perfect wall and floor surface in the Queen's Hotel, Leeds.

*Joint Architects: Mr. W. H. Hamlyn, F.R.I.B.A. and
Mr. W. Curtis Green, F.R.I.B.A., R.A.*

Contractors: William Airey & Sons, Leeds.

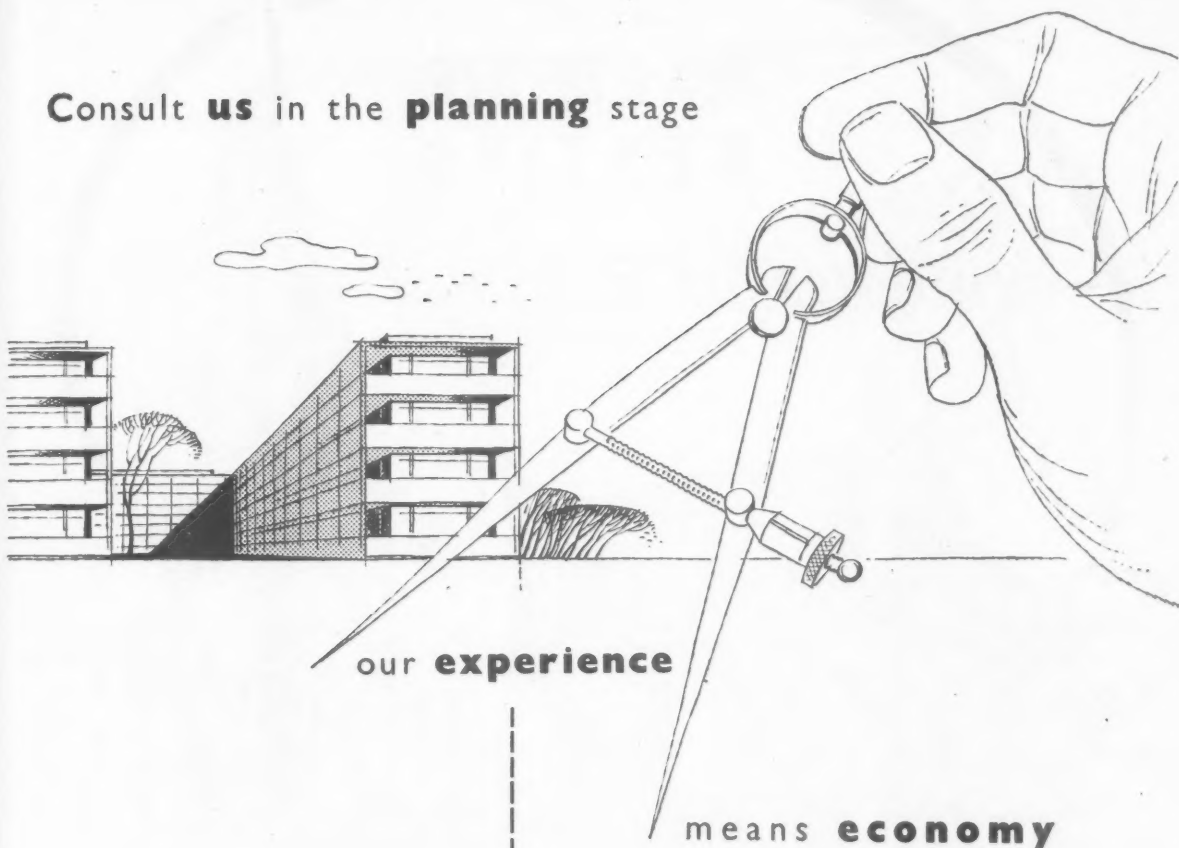
Tile Fixers: Carter & Co. London Limited.

Ceramic



Glazed & Floor Tile Manufacturers' Association • Federation House • Stoke-on-Trent

Consult **us** in the **planning** stage



**Ferro-concrete
design**

and/or construction

**Reinforcement
Specialists**

means **economy**

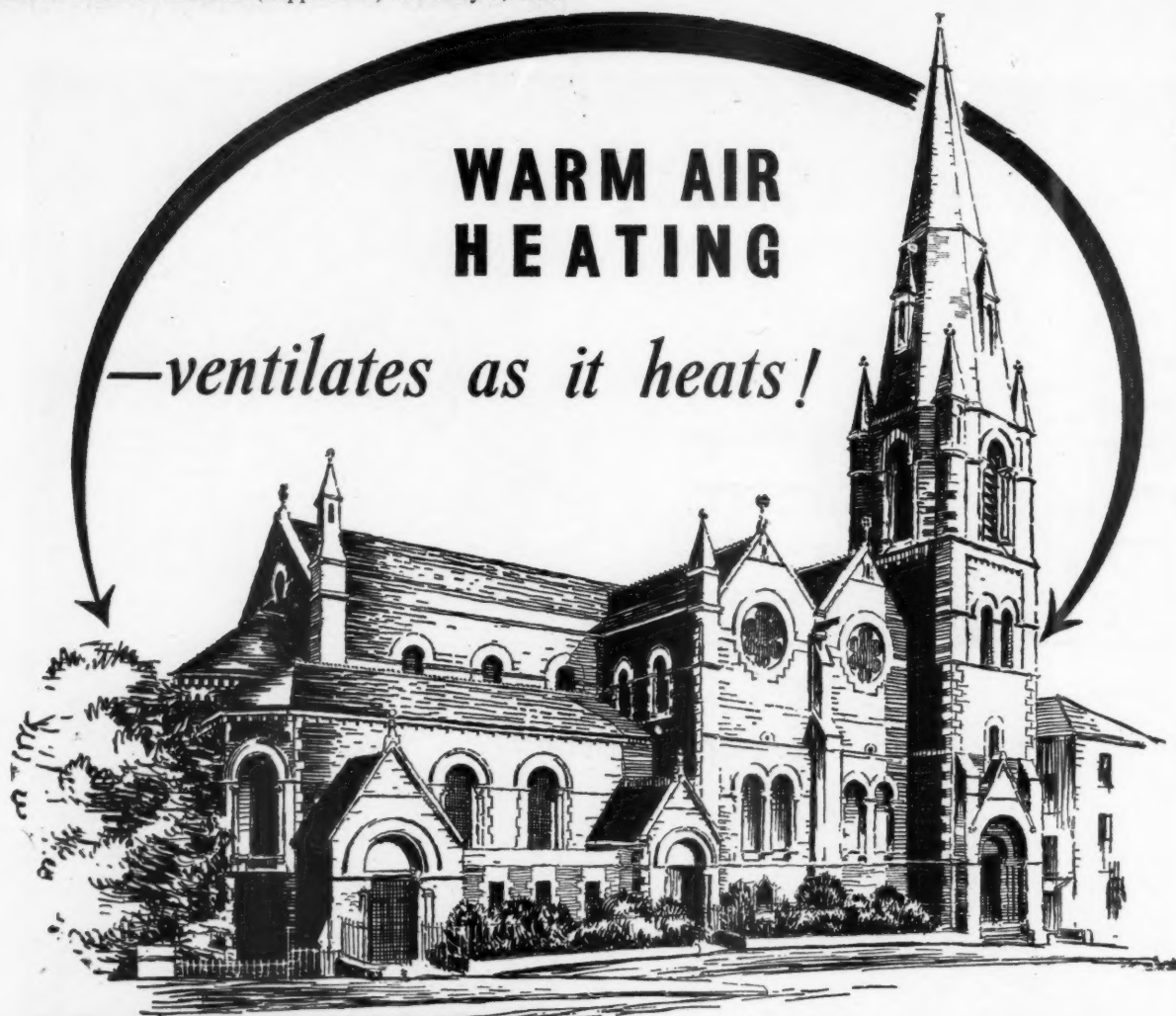
Our very considerable experience often enables us to suggest ways and means of saving time and money. We invite you to take advantage of it by consulting us *in the planning stage*, before irrevocable decisions are taken. You will be placing yourself under no obligation.

Helicon

THE HELICAL BAR & ENGINEERING CO. LTD

82 VICTORIA STREET, WESTMINSTER, LONDON, S.W.1. TELEPHONE: VICTORIA 6838

ALSO AT BIRMINGHAM : MANCHESTER : NEWCASTLE-ON-TYNE : NOTTINGHAM & TAUNTON



WARM AIR HEATING

—ventilates as it heats!



St. Luke's Church, Cork, Eire.



★ Send now or your copy of our new fully-illustrated booklet giving full details of the operation of the Grundy Warm Air Heating System.

NO UNSIGHTLY PIPES OR RADIATORS

The Grundy Warm Air Heating system gives effective and good distribution of heat without unsightly pipes or radiators. Inconspicuous but efficient, it is especially suitable for churches and similar buildings where harmony with surroundings is necessary. Adaptable to any fuel, it is inexpensive to maintain and easy to operate. For a warm, pleasant atmosphere at an economic price there is no better heating system. The advice of our Technical Department is at your disposal.

No water pipes—No damage in frost.

GRUNDY

WARM AIR HEATING SYSTEM

JOHN GRUNDY LTD. { London Office: 393a City Road, London, E.C.1.
Works Address: Parr Street, Tyldesley, Lancs.

Telephone: TERminus 1088.
Telephone: ATHERTON 1256/7.



The virtue of pre-cast floors

lies primarily in their economy and in the speed with which they can be put into position. They are particularly suitable for industrial buildings where the traffic is unusually heavy.

The above sketch was made of a recent installation by Bradfords at Hays Wharf, London.

Other Bradford specialities

HOLLOW-BLOCK FLOORS

PRE-CAST UNITS

GRANOLITHIC PAVING

STAIRCASES · CAST STONE

WATERPROOF CEMENT RENDERING

BRADFORDS

FOR CONCRETE DESIGN & CONSTRUCTION

F. BRADFORD & CO. LTD. · ANGEL ROAD · LONDON · N.18 · Telephone : Edmonton 4267

quality and service

OLIVETTE HIGH GRADE ENAMEL PAINTS

NULON SUPER EMULSION PAINTS

ARPAX EXTERIOR WATERPROOF CLADDING

were specified and used at

GOLDEN LANE HOUSING SCHEME

Architects: Chamberlin, Powell & Bon

LEIGH'S PAINTS

Sole Manufacturers

W. & J. LEIGH LIMITED

LONDON • BOLTON • GLASGOW

MANUFACTURERS OF FINE PAINTS

FOR DECORATIVE AND INDUSTRIAL USE



I

• RAPID precast floors

TARMAC LTD. 'VINCULUM' DIV'N.
Ettingshall, Wolverhampton.
Bilston 41101
London Office: 50 Park St., W. 1.
GROsvenor 1422/5

JOHN ELLIS & SONS LTD.
21, New Walk, Leicester.
Leicester 56682
London Office: 29 Dorset Sq., N. W. 1.
AMBassador 1141

CAMBRIAN CONCRETE CO. LTD.
Lanelay Works, Pontyclun, Glam
Pontyclun 356

THE RAPID FLOOR COMPANY LTD.
Africa House, Kingsway,
London, W.C. 2
HOLborn 3274

RAPID FLOORS (WESSEX) LTD.
17 George St., Bath
Bath 3534

TARMAC LTD. 'VINCULUM' DIV'N.
Ettingshall, Wolverhampton.
Bilston 41101
London Office: 50 Park St., W. 1.
GROsvenor 1422/5

West Midlands & North of England

Yorkshire Lincolnshire East Midlands & Norfolk

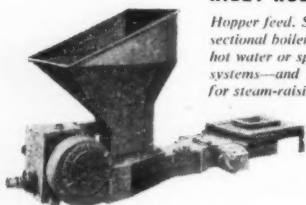
South Wales

London & the Home Counties

West of England

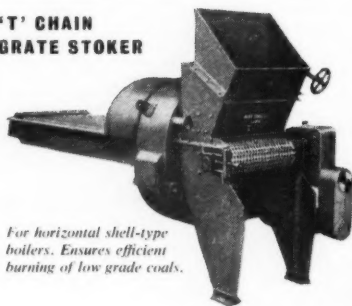
Hants. Sussex & South Surrey

RILEY ROBOT



Hopper feed. Suitable for sectional boilers in domestic hot water or space heating systems—and vertical boilers for steam-raising.

'T' CHAIN GRATE STOKER

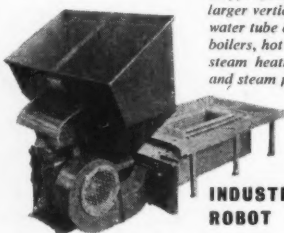


For horizontal shell-type boilers. Ensures efficient burning of low grade coals.



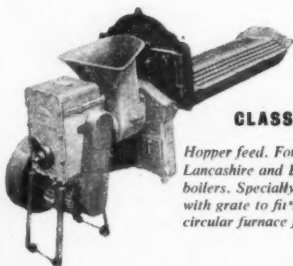
DIREKTO

Bunker feed. For sectional boilers in domestic hot water and space heating systems. Also for vertical boilers used in steam-raising. Feeds direct from bunker to boiler below floor level.



Hopper feed. For the larger vertical boilers, water tube and locomotive boilers, hot water and steam heating systems and steam processes.

INDUSTRIAL ROBOT



CLASS 'B'

Hopper feed. For Cornish, Lancashire and Economic boilers. Specially designed with grate to fit into circular furnace flues.

IT IS AN OFFENCE TO EMIT DARK SMOKE

Under the Clean Air Act it is now an offence to emit dark smoke. The problem of ensuring smokeless combustion within the meaning of the Act without costly conversions can be solved by the installation of Riley Chain Grate or Under-feed Mechanical Stokers. Write for full technical information.

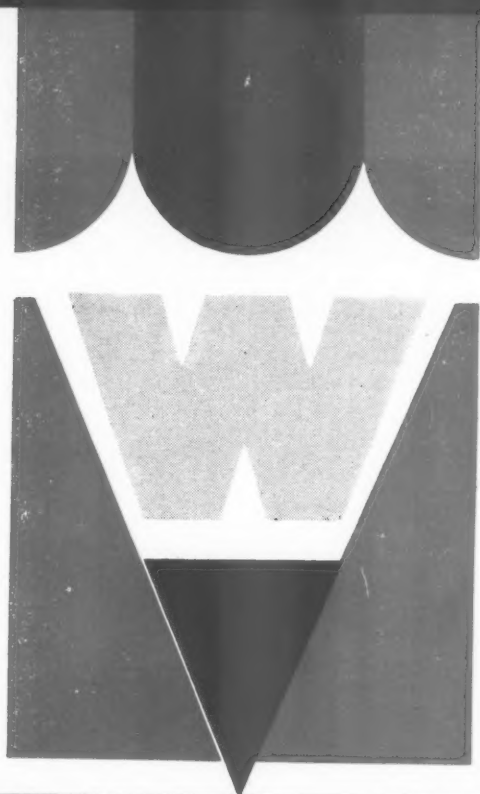
all these
RILEY STOKERS
provide smokeless
combustion
from small
bituminous coal

RILEY (IC) PRODUCTS LIMITED

Mechanical Stokers · Syntron Electric Vibratory Equipment

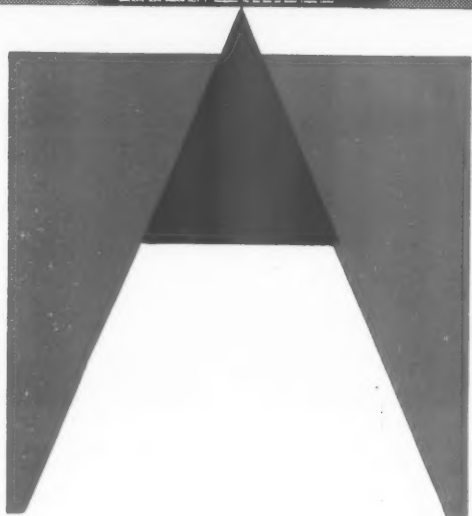
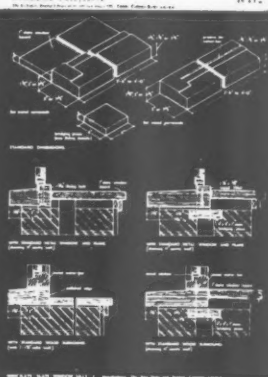
A member of the International Combustion Organisation

NINETEEN WOBURN PLACE · LONDON WC1 · TERMINUS 2622



**Where a strong line
is needed . . .**

WINDOW SILL SLATE



W I N C I L A T E

**thick sills
allow for a bolder
line than that provided
by the normal 1 inch sills
also manufactured by**

W I N C I L A T E

**THE BOW SLATE & ENAMEL CO., LTD
B.R. Depot, Old Ford Road, London, E.3
Telephone: ADVance 2203
(Proprietors of the Aberllefenni
Slate Quarries)**

CATERPILLAR moves fast

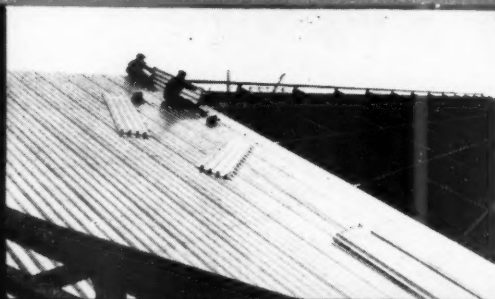
60,000 sq. yards roofed in 6 months with BITUMETAL

Caterpillar Tractor Co. Ltd. made sure of speedy roofing. For their new factory at Tannochside, Lanarkshire, this progressive American Company specified "BITUMETAL" — the Roof Deck that leads in Roofing as Caterpillar lead in the earthmoving equipment field. "BITUMETAL" combines high thermal insulation, durable weatherproofing, an attractive ceiling with virtually no maintenance.

Briggs nearest Area Manager will give further details of this outstanding roofing development.

*Caterpillar is a Registered Trade Mark of
Caterpillar Tractor Co.*

*Architects:
Horace Hamilton & Assoc.
Consultants, Glasgow.*



ALUMINIUM DECKING



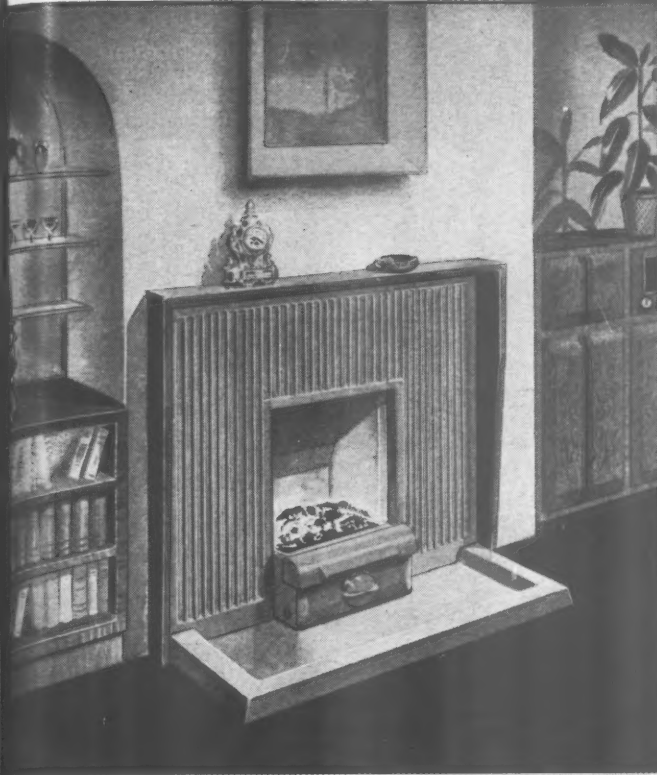
INSULATION



WEATHERPROOFING

WILLIAM BRIGGS & SONS LIMITED
LONDON VAUXHALL GROVE S.W.8. REGD. OFFICE DUNDEE

OFFICES & DEPOTS ALSO AT ABERDEEN • BELFAST • BRADFORD • BRISTOL • CARDIFF
DUBLIN • EDINBURGH • GLASGOW • LEICESTER • LIVERPOOL • NORWICH

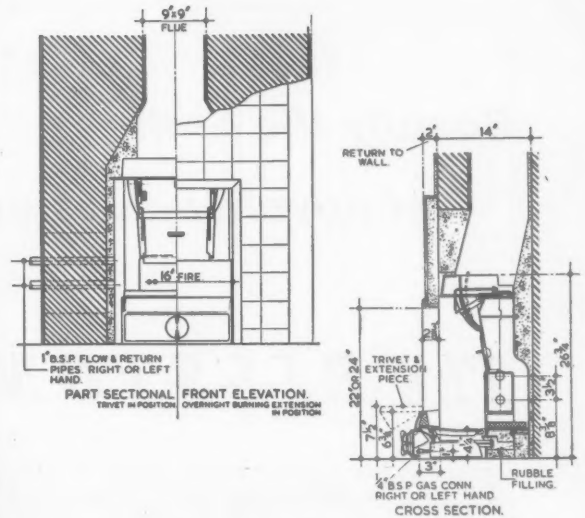


A good looking fire that keeps
costs down-**LOWBURN**

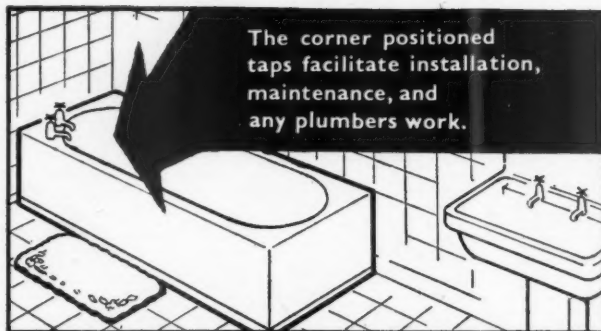


The Lowburn with boiler is fitted with an extension piece for overnight burning, which is also a useful safety device when the room is unoccupied, and can be used as a trivet.

Non-boiler models have a curved extension piece 2½" high.



***Specify the bath
of advanced design***



The BILSTON ATLANTA



**BILSTON
FOUNDRIES LTD
BILSTON
STAFFORDSHIRE**

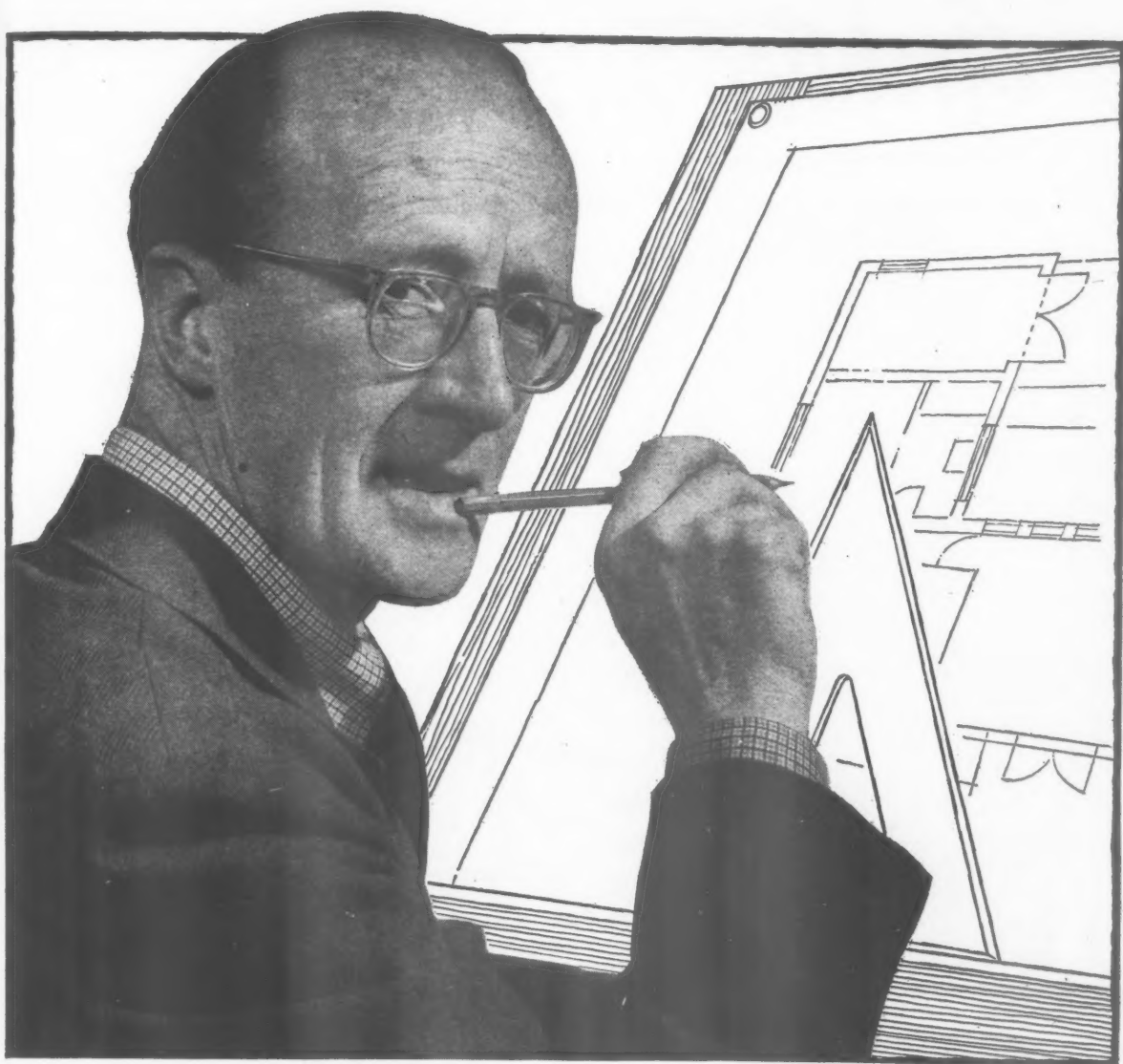
When the Bilston 'Atlanta' is specified, home owners enjoy all the advantages of advanced design. The Bilston 'Atlanta' is available in two lengths (5'1" and 5'6") and a comprehensive range of colours. The price is most attractive.

The advantages of the 'Atlanta' flat bottom

The 'Atlanta' is designed with flat bottom to prevent slipping. Combined with exceptionally shallow step (the 'Atlanta' can be fitted to give an overall height of only 16"), it ensures the comfort and safety of young and old.

The advantages of versatile 'Atlanta' tap positioning

With the 'Atlanta', taps can be fitted in three different positions, to meet all possible requirements. The accessibility of the pipes and the taps themselves facilitates maintenance.



"Copper Tube is all to B.S.S. isn't it?"

Yes: copper of the highest quality is made into tubing of BS 659, 1386 and 61.

Of course, Wednesbury tube conforms to specification. But there's more to Wednesbury tube than that . . . a precise, scientific control of quality, standard high finish, intelligent service. Specify Wednesbury. Prove the best is cheapest . . .

choose WEDNESBURY TUBE



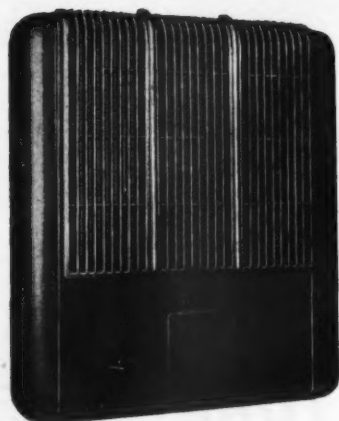
Obtainable from your local stockist or builders' merchant

THE WEDNESBURY TUBE CO. LTD, BILSTON, STAFFS
Associated Company, Glynn Bros. Ltd, London and Manchester

Architects... Presenting the modern,
fully patented heating method . . . comfort conditions with low cost
gas consumption . . . Here is the "Sapphire" Balanced Flue Space Heater . . .
freely adaptable to constructional planning . . .



Introducing Models "15" and "25"
of the Cowper Penfold



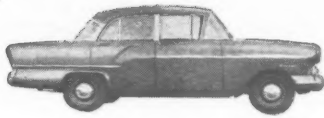
" *Sapphire* "

Regd.
BALANCED FLUE SPACE HEATER

- Application of patented balanced flue principle eliminates vitiation of interior atmospheres.
- Combines maximum safety with maximum efficiency.
- Simple to install and maintain.
- Available for town and liquid gas.

Full technical information of the complete "Sapphire" range from sole distributors :—

WILLIAM SUGG & COMPANY LIMITED
Sole licensees, COWPER PENFOLD & COMPANY LIMITED
67-73 REGENCY STREET, LONDON, S.W.1. Telephone : VICTORIA 3211



Success
chooses
triton



TRITON Quarries were used solely in the construction of some of the Acid Tanks at the Dunstable Works of Vauxhall Motors Ltd.

Architects: Messrs. Howard, Souster & Fairbairn,

81 Piccadilly, London W.1

Quarries laid by: Messrs. Acalor (1948) Ltd.,

Kelvin Way, Crawley, Sussex

Full details, samples and prices sent on request. Specimens of Wheatly burnt clay products may be seen at the Building Centre, London. They include Single-lap Roofing Tiles, Ridge Tiles (blue and red), Floor Quarries, Air Bricks and Briquette Fireplaces.

WHEATLY



triton

W H E A T L Y & C O M P A N Y L I M I T E D

Springfield Tileries, Trent Vale, Stoke-on-Trent. Telephone: Newcastle (Staffs) 66251. Telegrams: Wheatly, Trent Vale

WH85

THERMAL INSULATION

Aluminium foil insulation gives the greatest advantages

High efficiency

Whilst aluminium foil is a poor radiator, it is a very good reflector of heat. When an airspace (itself a good thermal insulator) of not less than 0.75 inches across is faced with aluminium foil it becomes three times as effective. In hot weather radiation of solar heat is greatly reduced, and in cold weather, heat losses are brought to a minimum.

Permanence

Tests over periods of up to 10 years have shown no appreciable deterioration in the thermal insulation properties of aluminium. If protected from prolonged exposure to moisture, foil insulation can be expected to last indefinitely.

Low costs

Foil used for thermal insulation is usually between .00035 and .00078 in gauge, and because of its light weight makes for most economical thermal insulation productions.

FISHER'S FOILS
specialise in the production
of aluminium foil for
thermal insulation

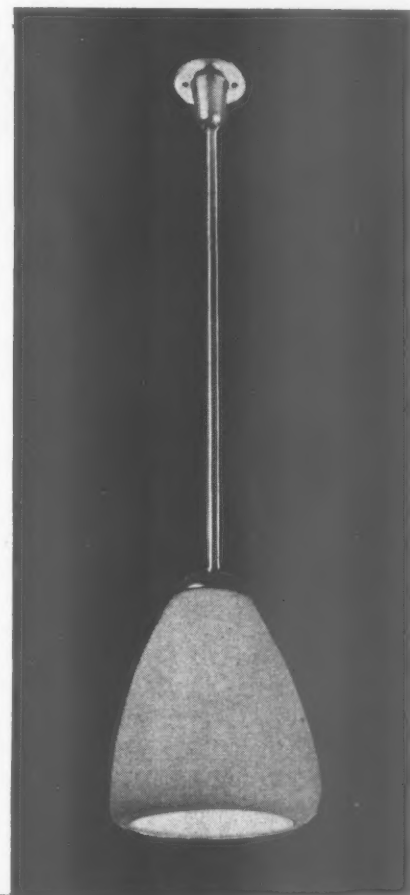


By courtesy of ARDOR INSULATION CO. LTD.

FISHER'S
ALUMINIUM
FOILS

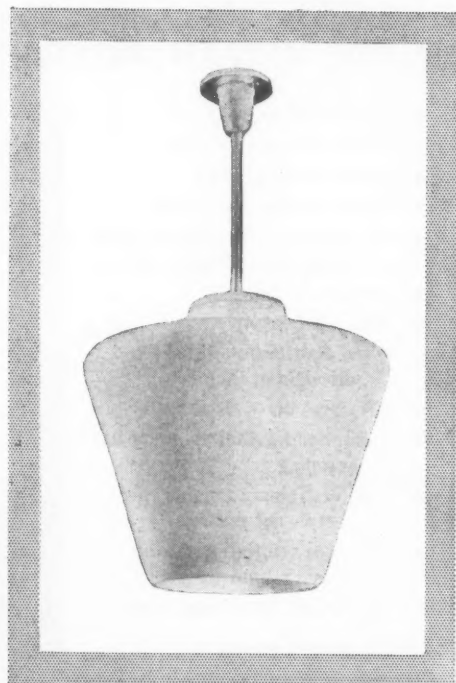
FISHER'S FOILS LIMITED, Sales Research Dept., EXHIBITION GROUNDS, WEMBLEY, MIDDLESEX
TELEPHONE: WEMBLEY 6011 CABLES AND GRAMS: LIOFNIT, WEMBLEY (ABC CODE 6TH EDITION)

from the range of Contemporary Lighting Fittings by FALKS

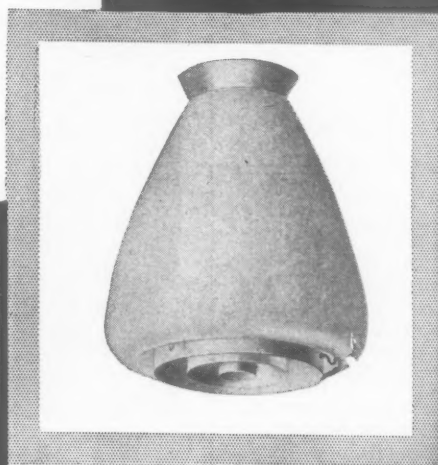


"CETUS" A satin finished opal glass Pendant Fitting with anodised gold or satin silver metal work, available in two sizes for 100/150w lamp, or 200w lamp.

"ATHENA" A new 150/200w glass fitting designed for general lighting purposes, and meeting the requirements of statutory instrument 473/1954 issued by the Ministry of Education, and therefore entirely suitable for use in schools.



"ATHENA" Satin opal glass with satin silver and white stove enamel metal work in the Pendant version, or stove enamel white cover plate as a Ceiling Fitting.



"CETUS" the ceiling version of this fitting, shown with metal white enamelled louvre and white enamelled ceiling Plate available as above for 100/150w or 200w lamp.

Designed by J. M. Barnicot M.S.I.A.

FALKS
FALK, STADELMANN & CO. LTD

Lighting Engineers and Manufacturers of Lighting Fittings.

91, Farringdon, Road, London, E.C.1. Telephone HOL. 7654.

London Showrooms:

20/22 Mount Street, Park Lane, London, W.C.1. Telephone MAYfair. 5671/2

AP 19

**AMONG THOSE
WHO HAVE PROVED
THE EFFICIENCY OF
THE COLT OIL-FIRED
AIR HEATER ARE**

*Alexander Controls Ltd.,
Alfred Imhof Ltd.,
Anna Valley Motors (Andover) Ltd.,
Associated Portland Cement
Manufacturers Ltd.,
Austin Hoy & Co. Ltd.,
Belling & Lee Ltd.,
Birmingham Aluminium Casting
(1903) Co. Ltd.,
British Railways,
Conallcrete Ltd.,
F. Coupe & Son Ltd.,
Consett Iron Company Limited,
Cow & Gate Ltd.,
Cowley Concrete Co. Ltd.,
Cu-Ni-Craft Ltd.,
Decca Radar Ltd.,
Dexion Ltd.,
Essex Tile & Concrete Co. Ltd.,
Esso Petroleum Co. Ltd.,
Everett, Edgcombe & Co. Ltd.,
Firestone Tyre & Rubber Co. Ltd.,
Froggatt & Prior Ltd.,
Grundy (Teddington) Ltd.,
T. J. Harrington & Son Ltd.,
Harrow Motor Factors,
Harry Chapples Ltd.,
G. A. Harvey & Co. (London) Ltd.,
I.C.I. Ltd.,
Ideal Oil Burners Ltd.,
James Potts & Son Ltd.,
C. Jenner & Sons Ltd.,
John Knight Ltd.,
F. A. Kirk (Cutlers) Ltd.,
Linseed Fibres Ltd.,
Longs Ltd.,
E. H. Macey Ltd.,
Mechanical & Electrical Industries
Ltd.,
P. B. H. Engineering Co.
(Twickenham) Ltd.,
Percival Aircraft Ltd.,
Perrins Motors Ltd.,
G. V. Planer Ltd.,
Premier Colloid Mills Ltd.,
Presswork (Croydon) Ltd.,
Reema Construction Ltd.,
Rodd Engineering Co. Ltd.,
Rolls-Royce Limited,
St. George Light Engineering Co.
(Berk's) Ltd.,
Shelbourne Trading Co. Ltd.,
Stanley Engineering Co. Ltd.,
Sumex Paints Ltd.,
Surmanco Ltd.,
Technitools Ltd.,
R. E. Thompson & Co.
(Instruments) Ltd.,
Trimite Ltd.,
United States Army Air Force,
Vaporheat Ltd.,
Varley—F.M.C. Ltd.,
Viking Marine Co. Ltd.,
Winston Electronics Ltd.,
Zealand Engineering Co. Ltd.*

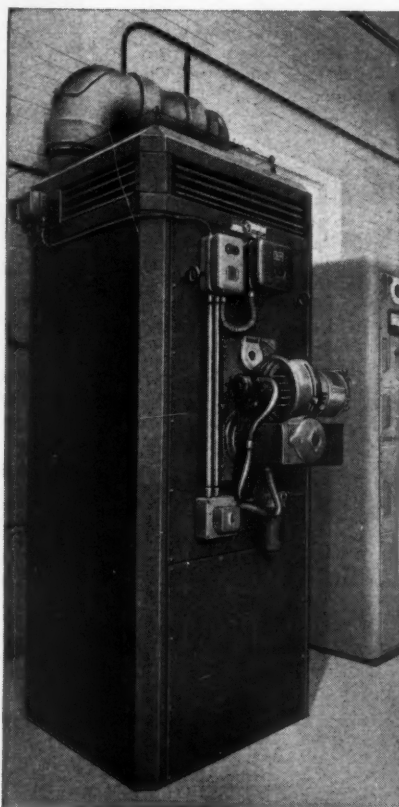
Heating by **COLT**

at MICROCELL LIMITED, CAMBERLEY, SURREY

For the heating of their new factory at Camberley, Microcell Limited required a method of heating which would combine the advantages of efficiency and economy with quick heat-up and flexibility to suit changing factory layout.

Thus they selected Colt equipment, installing 6 P.J.250 models.

COLT OIL-FIRED AIR HEATING HAS THE FOLLOWING OUTSTANDING ADVANTAGES:-



- Immediate delivery
- Lower installation costs
- Lower running costs
- Lower maintenance costs
- Qualifies as fuel economy plant under 1956 Finance Act
- Automatic firing
- Quicker heat-up
- Even distribution of heat throughout factory
- Sterilises air
- Complete flexibility—units free standing
- Heaters remain tenants' property—not fixtures
- Provides ventilation during summer-time
- No danger from burst pipes

Send for Free Manual on Colt Heating & Ventilation to Dept. L150/2



**OIL-FIRED
AIR HEATER**

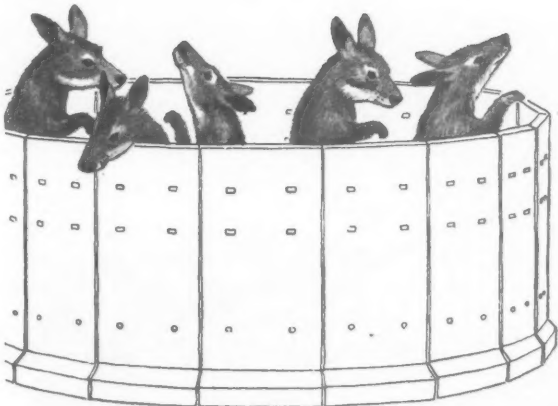


COLT VENTILATION LTD · SURBITON · SURREY · Tel: ELMBRIDGE 6511 (10 lines)

U.S.A. Subsidiary: Colt Ventilation of America, Inc., Los Angeles.

Branches at: Birmingham, Bradford, Bridgend (Glam), Bristol, Dublin, Glasgow, Leamington Spa, Liverpool, London, Manchester, Newcastle-upon-Tyne, and Sheffield. Agents in: Australia, Belgian Congo, Belgium, Burma, Canada, Cyprus, India, Indonesia, Madagascar, Malaya, Mauritius, New Zealand, Pakistan, Portugal, Rhodesia and Nyasaland, South Africa, and West Indies.

Joey's for the high jump!

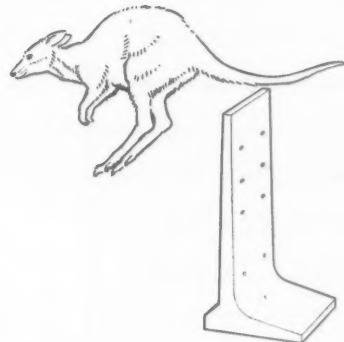


The wallaby's pouch has room for one only, no standing.
This, for a change, is a case of Mother Nature falling down
on her job. Unlike those farseeing manufacturers who,
when suffering from growing pains, solve their
storage problems Stelcon-wise.

Stelcon STORAGE WALLS

Like all good ideas, Stelcon Storage Walls are simple and eminently practical. The reinforced concrete units can easily be set up, and stand side by side, their special heel and toe design making the weight of stored materials anchor them in position. They're safe, permanent — but easily taken up and re-erected elsewhere or re-positioned as required. Using Stelcon Walls means increasing storage capacity by up to 170%!

Please write for illustrated technical booklet.



STELCON (INDUSTRIAL FLOORS) LTD · DEPT. A · CLIFFORDS INN · LONDON · EC4 · TEL: CHAncery 9541



Walpamur Quality Paints . . .

the best that money can buy—are used with conspicuous success throughout the country. Best known are Walpamur Water Paint, in interior and exterior qualities, Duradio, Britain's best Enamel Paint for inside or outside use and Darwen Satin Finish, steamproof and ideal for kitchens and bathrooms. The full range includes paints, enamels and varnishes of superb quality for every conceivable need.



BY APPOINTMENT
TO HER MAJESTY THE QUEEN
MANUFACTURERS OF PAINT

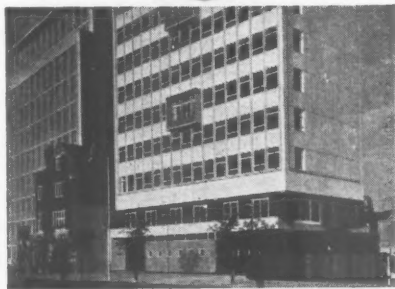


THE WALPAMUR CO LTD • DARWEN & LONDON

DRI-SIL silicone masonry treatments

- * Keep buildings dry
- * Prevent damp and deterioration caused by weathering
- * Keep buildings clean
- * Prevent staining and streaking
- * Do not block the pores of building materials, thus do not inhibit "breathing"
- * Maintain thermal insulation of buildings by preventing the absorption of moisture by the walls
- * Are effective for many years, thus reducing maintenance costs
- * Are easy to apply by brush or spray

For new buildings



OFFICES OF DOCK LABOUR BOARD
by courtesy of Frederick Gibberd

For old buildings



ALL SAINTS' CHURCH, HASTINGS
by courtesy of the Rector and consultant Architect

**Proof of the
effectiveness of
these treatments
is shown in
this table**

		% Water absorption after 24 hours immersion	
		Initial test	Retested after 3 years' natural weathering
Sandstone	untreated	7.0	6.2
	DRI-SIL treated	0.1	0.2
Cement Block	untreated	6.0	5.9
	DRI-SIL treated	0.4	0.7
Common Brick	untreated	20.0	20.1
	DRI-SIL treated	0.1	0.3

All over the country DRI-SIL treatments
have been used on many buildings, large and small, old and new.
Use a DRI-SIL silicone to guarantee the quality

These firms supply
water-repellent masonry treatments
based on DRI-SIL silicones

Allweather Paints Ltd, London, WC2
Atlas Preservative Co Ltd, Erith
Isaac Bentley & Co Ltd, Manchester
Lewis Berger (Gt. Britain) Ltd, London, E9
Bitulac Ltd, Newcastle-upon-Tyne
S. Bowley & Son Ltd, London, SW11
British Paints Ltd, Newcastle-upon-Tyne
Byrom Paint & Varnish Co Ltd,
Stockport
Chemical Building Products Ltd
(Dept. 752) Hemel Hempstead
Clutha Paint & Oil Co Ltd, Glasgow
Samuel Courtney Ltd, Belfast
John S. Craig & Co Ltd, Glasgow
W. David & Son Ltd, London, N1
Detel Products Ltd, South Ruislip
Stuart B. Dickens Ltd, London, SW1
Duresco Products Ltd, London, SE7
W. C. Evans & Co (Eccles) Ltd,
Manchester
Evode Ltd, Stafford
T. & W. Farmiloe Ltd, London, SW1
Farrow & Ball Ltd, Verwood, Dorset
Floorlife & Chemicals Ltd, Manchester
Joseph Freeman Sons & Co Ltd,
London, SW18
Grangersol Ltd, Watford
John Hall & Sons (Bristol & London) Ltd,
Bristol
Hangers Paints Ltd, Hull
E. Hardman & Son Co Ltd, Hull
Harvey Langford Ltd, London, W1
W. W. Hill Son & Wallace Ltd, Salford
Hydrol Ltd, London, W3
Indestructible Paint Co Ltd, London, W1
Irish Cold Bitumen Ltd, Belfast
Leyland Paint & Varnish Co Ltd, Leyland
George Lillington & Co Ltd, Mitcham
John Line & Sons Ltd, London, W1
Donald Macpherson Ltd, Manchester
John Mathews & Co Ltd, Liverpool
Montgomerie Stobo & Co (Chester) Ltd,
Saltney
Nubold Development Ltd, Crawley
Permoglaze Ltd, Birmingham
Reynolds Paint & Varnish Ltd, Liverpool
Ribble Paints & Varnishes Ltd,
Blackburn
Ripolin Ltd, Southall
Sealocrete Products Ltd, London, NW10
Silicaseal Ltd, Newcastle-upon-Tyne
William Sim & Sons (Paints) Ltd,
Edinburgh
Stephenson & Co, Blackpool
Thornley & Knight Ltd, Birmingham
Turner, King & Shephard Ltd, London, E15
Walpamur Co Ltd, Darwen
Wareing Bros. & Co Ltd, Bolton
F. A. Winterburn Ltd, Leeds

Architects and Paint Manufacturers are invited
to write for full information and details of
extensive tests of DRI-SIL carried out in this
country and in the USA. DRI-SIL is a registered
trade mark of Midland Silicones Ltd.

MIDLAND SILICONES

LTD
Associated with Albright & Wilson Ltd
and Dow Corning Corporation

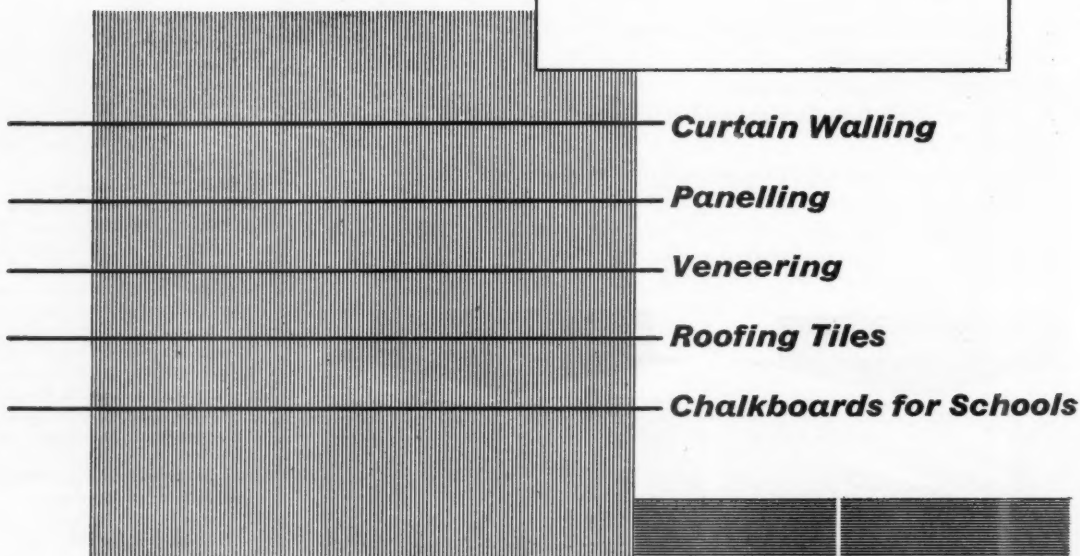
first in British Silicones

19 UPPER BROOK STREET · LONDON · W1
Telephone: Grosvenor 4551

NEW/MS 198

JURABILD

**VITREOUS PORCELAIN ENAMEL SHEETS
THE NEWEST BUILDING MATERIAL**



We can now quote for
Porcelain Enamel work
to the specifications
of V.E.D.C.

JURY

HOLLOWARE LTD

ARCHITECTURAL DIVISION

BRIERLEY HILL . STAFFS . Tel: Lye 2126/7

Members of the Vitreous Enamel Development Council
Members of the Porcelain Enamel Institute (U.S.A.)

13756

"You can't skin an apple!"



One of our technologists said that. He said the outer skin is so firmly keyed to the flesh that some of the flesh always comes off with the peel.

**MONTGOMERIE'S
FINISHES FOR ALL DECORATIVE
AND INDUSTRIAL PURPOSES.**



Purovar Enamel.

Artesco Emulsion Coating.

Rustration Calcium Plumbate Anti-Corrosive Primer.

Emekote Chemical Resisting Enamel—Air Drying Epikote Resin Based Coating.

Petrifoid 'S' Water Repellent—Solution Based on 'Dri-sil' Silicone.



He was trying to explain how a paint should weld itself to the surface it is protecting, becoming an integral part of that surface and not just a layer or shell. Our research starts with fundamentals like that. That's what makes our Technical Advisory people so valuable to you. They are willing and able to give initial advice and send a technologist to any part of the country to deal with problems on the site.

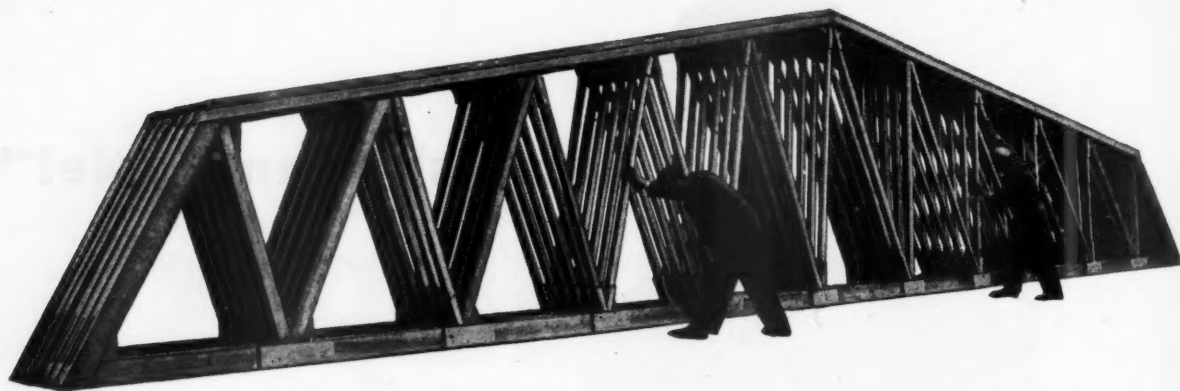
***Consult us on all your painting problems.
Our Standard Shades are manufactured
to the New B.S.S. Colour Range.***

montgomerie stobo & CO LTD

Deeside, Saltney,
Nr. Chester.
Telephone Chester 23128 (3 lines)
Telegrams 'Turpentine' Chester.

52-72 Rogart Street,
Glasgow, S.E.
Telephone Bridgeton 1005/6/7.
Telegrams 'Turpentine' Glasgow.

Also at Slough & Belfast.



Full steam ahead

Resistance to steam and to other hazards of industrial processes may well call for timber structures, and timber structures today mean *glued* structures.

Synthetic resin adhesives have eliminated the weaknesses associated in the past with glued joints and a modern resin-bonded truss is amazingly strong and rigid for its weight—and *durable*, too, under the most severe conditions of exposure.

The lattice trusses shown above form the roof structure of the new Courtaulds finishing plant at Bocking, Essex, designed by Ove Arup and Partners. These trusses are of 45ft span and 9ft height and were constructed by Rainham Timber Engineering Co. Ltd. A high degree of resistance to chemicals and steam was essential and gluing was, therefore, carried out with Aerodux 185 resorcinol-formaldehyde adhesive to ensure bonds of unequalled durability, unaffected even by boiling water and by changes in moisture content of the wood.



Much information on glued timber construction is given in Aero Research Technical Bulletins 142, 143, 159 and 160, which will gladly be sent on application.

Aerodux 185

resorcinol resin glue

Aerodux is a registered trade name

Aero Research Limited

Duxford, Cambridge. Telephone: Sawston 2121

AP 336



*The modern medium
for attractive wall decoration...*

Rydura

THE VERSATILE FABRIC
WITH THE 'PROFILM' FINISH

In furthering their policy of constant improvement of public amenities, British Transport Commission have made excellent use of RYDURA as a wall decoration for the new Ladies' Waiting Room at Hull (Paragon) Station. RYDURA is equally successful as a decoration for cabinet furniture; but it is probably most widely known as the ideal covering for chairs and other forms of seating. It is, in fact, the *versatility* of RYDURA which makes it so much in demand for the home, for hospitals, hotels and public buildings.

OUTSTANDING MODERN DESIGNS AND COLOURS
ATTRACTIVE APPEARANCE
DURABLE AND HYGIENIC
HAS DIRT AND STAIN RESISTING PROPERTIES
EASY TO KEEP CLEAN VIRTUALLY UNSTAINABLE

**CHAIR UPHOLSTERY, CABINET AND TABLE DECORATION
AND, OF COURSE, FOR WALLS**

Full details on request to: RYJACK PRODUCTIONS LTD
(Prop. The Calico Printers' Assoc. Ltd.)
89 Oxford Street Manchester 1 Tel. Manchester Central 0020

APPROVED:

NU-SWIFT

**THE WORLD'S FASTEST
AND MOST RELIABLE
FIRE EXTINGUISHERS**

APPROVED BY THE FIRE OFFICES COMMITTEE

Model 1301 Universal (Royal Navy) Extinguisher . . . FOC Ref. NO. 104/6 for Class A fire risks (fires involving wood, paper, textiles and other carbonaceous substances).

Model 1400 Air Foam Extinguisher FOC Ref. NO. 104/3 for Class B fire risks (fires on petrol, greases, oils, paraffin, white spirit and diesel oil).

Model 1003 Auto (CTC) Extinguisher FOC Ref. NO. 104/5 for Class C fire risks (minor electrical risks and small petrol fires).

Model 2003 Auto (Chloro-Flash) Extinguisher FOC Ref. NO. 104/7 for Class B & C fire risks (extra-hazardous fires involving spirits, alcohols, organic solvents and electrical equipment).

Model 1604 Dry Powder Extinguisher FOC Ref. NO. 104/8 for class B & C fire risks (inflammable liquids of every type—unless they are shielded—and all electrical risks).

All these models comply with British Standard specifications, where these exist. No British standards exist for chlorobromomethane extinguishers or double-action nozzles like that of the Universal extinguisher. But special FOC approval has been given to these Nu-Swift features because of their increased efficiency.

COMPLYING WITH BRITISH STANDARD CODE OF PRACTICE
(British Standard Code of Practice C.P. 402.401 (1951) is published on behalf of the Council for Codes of Practice for Buildings by the British Standards Institution.)

Universal (Royal Navy) Extinguisher Model 1301 for .. Class A fires
Air Foam Extinguisher Model 1400 Class B fires

ACCEPTED BY THE LONDON COUNTY COUNCIL

Consent granted under Sec. 20 of the London Building Acts (Amendment) Act 1930.

All Nu-Swift extinguishers that are approved by the Fire Offices Committee.



Why Nu-Swift are better
Nu-Swift extinguishers are the only ones on the market to combine these essential advantages.

Immediate action—
instant pressure-charge operation eliminates waiting for a chemical action to build up pressure.

Quicker recharging—
all 2-gallon Nu-Swift extinguishers can be recharged and back in use in 30 seconds.

Standard System—
Nu-Swift extinguishers are used in the commonsense upright position. There are distinctive colours for the models for different fire risks.

Greater reliability—
Nu-Swift pressure charges produce a pressure that is always exactly right for fire-fighting. They do not leak, evaporate, or cause corrosion.

**FOR EXTRA SAFETY IN BUILDINGS NEW AND
OLD—SPECIFY NU-SWIFT EXTINGUISHERS**

NU-SWIFT

Nu-Swift Ltd.,
25 Piccadilly, London, W.1
Telephone: REGent 5724
Telegrams:
NUSWIFT PICCY LONDON
Factory and Head Office:
Elland, Yorkshire
Telephone: Elland 2852
Telegrams: NUSWIFT ELLAND

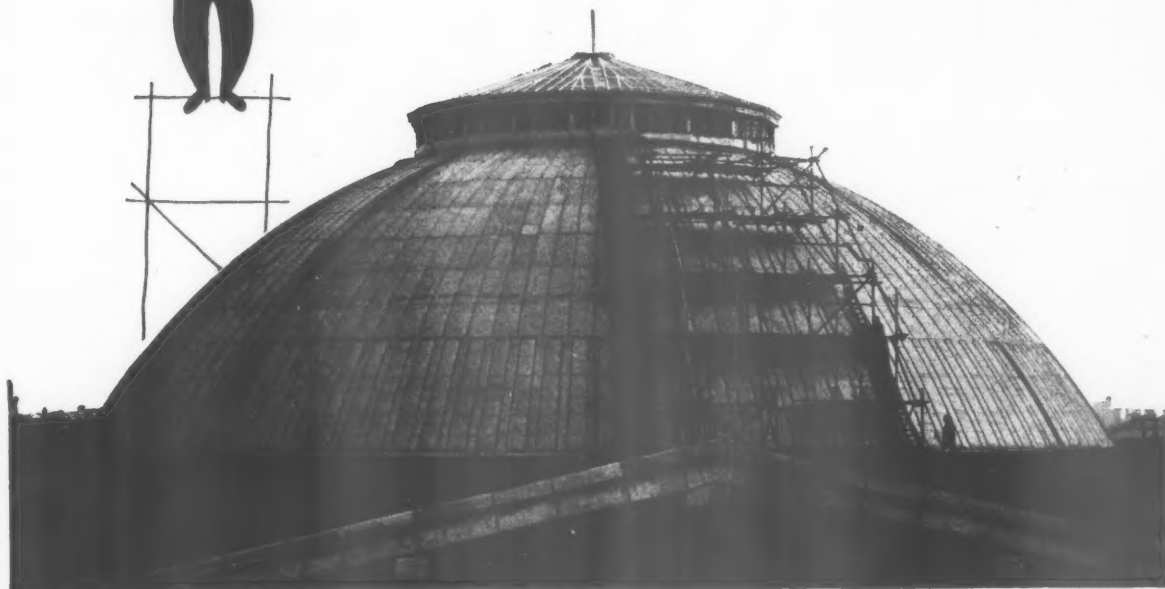
*L*aid 120 years ago Sir!

protecting the world's inheritance
of literature

Copper roofing is a worthwhile investment. This example shows the copper dome of the British Museum Reading Room, which has been re-covered by our skilled coppersmiths. In common with the copper roofing of many Cathedrals, Churches, Town Halls, Schools, Factories, Piers and Docks, it pays tribute to the durability and overall economy of copper, when used as a roofing material.



BRABY ARE CRAFTSMEN IN COPPER ROOFING



Our technical staff is always available for consultation on matters of laying copper on flat roofs, pitched roofs or domes.

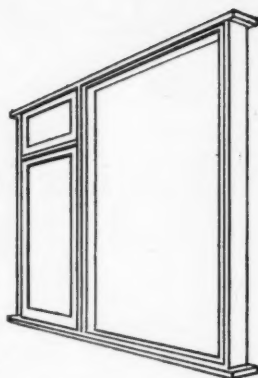
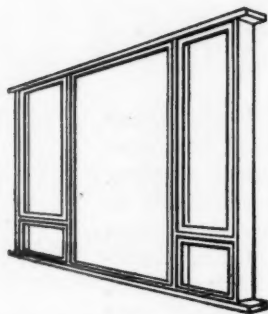


FREDERICK BRABY & COMPANY LIMITED

Head Office: 352-364 EUSTON ROAD, LONDON, N.W.1. TELEPHONE: EUSTon 3456
OTHER FACTORIES AT: London Works, Thames Road, Crayford, Kent. TELEPHONE: Bexleyheath 7777
Havelock Works, Aintree, Liverpool, 10. TELEPHONE: Aintree 1721
Eclipse Works, Petershill Road, Glasgow, N. TELEPHONE: Springburn 5151
Ashton Gate Works, Bristol, 3. TELEPHONE: Bristol 64041. And Falkirk
OTHER OFFICES: 110 Cannon Street, London, E.C.4 (Export). TELEPHONE: MANsion House 6034
Queen's Buildings, 10 Royal Avenue, Belfast. TELEPHONE: 26509
Palace Street, Plymouth. TELEPHONE: 62261

AP266-244

Hundreds of combinations

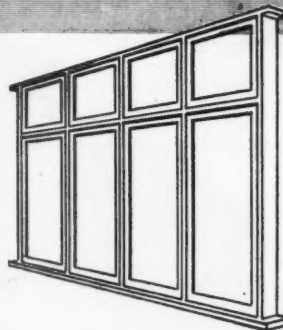
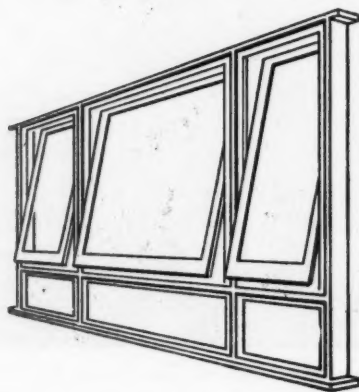


of fixed and opening lights

MODOLITE

**STANDARD RANGE
OF DOOR AND
WINDOW FRAMES**

always available from stock



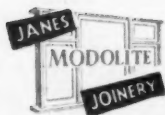
Modolite represents the most outstanding advance made in trade joinery in the construction of windows and door frames in timber.

No longer is your choice of windows limited. Modolite provides all you are likely to require in size, style, method of opening light and the pleasing appearance with exceptional weatherproof qualities will be readily appreciated.

Available on request:

Modolite Standard Window and Door Frame Catalogue.

Modolite Economy Range Window Leaflet.



**H. C. JANES, JOINERY MANUFACTURERS
BARTON, BEDFORDSHIRE Tel.: HEXTON 364**

e
s
a
,
e
e

Phone
Phoenix
for
Softwood

RAINHAM 3311

GYPROC supplied the

roof and wall lining answer to this

insulation problem with . . .

GYPSTELE



The many advantages of the GYPSTELE System incorporating Gyproc Plasterboard Panels can be summarised in six main features.

1. Improved thermal insulation with fuel saving.
2. Fire Protection Class 1 flame spread.
3. Simplicity of erection.
4. Increased light reflection.
5. Lightweight "dry" construction.
6. Completely adaptable to individual requirements. The system is worth studying in all its aspects, particularly for use in factories, offices, schools and hospitals.

Write for Information Sheets A22.E1 and A22.E2 for full information.

Insulating Gyproc Wallboard used in the Gypstele System at Ilford Running Sheds, British Railways, Eastern Region.

*Chief Civil Engineer: Eastern Region, Kings Cross, N.1.
General Contractors: W. & C. French, Essex.*

GYPROC PRODUCTS LIMITED

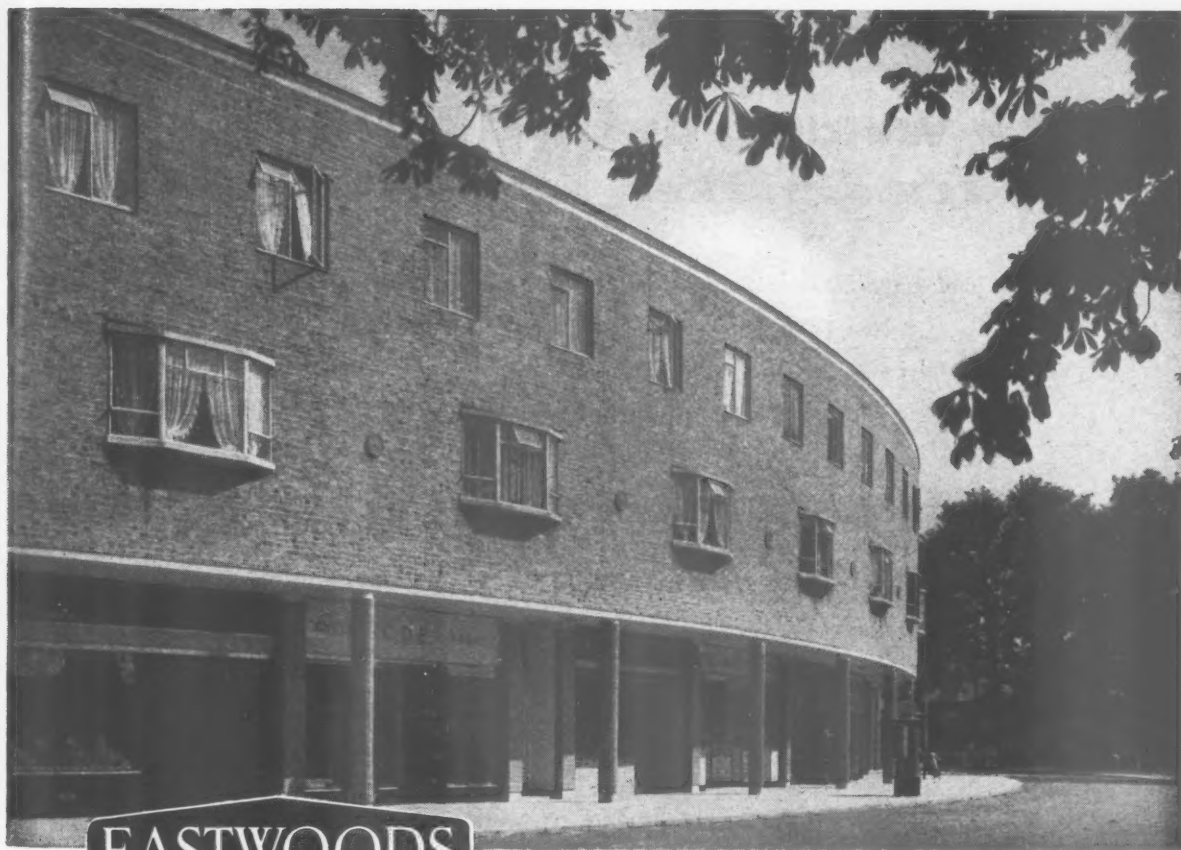
Head Office: Singlewell Road, Gravesend, Kent. Gravesend 4251/4

Glasgow Office: Gyproc Wharf, Shieldhall, Glasgow S.W.1. Govan 2141/3

Midland Sales Office: 11 Musters Road, West Bridgford, Nottingham. Nottingham 82101

London Office: Bath House, 82 Piccadilly, London, W.1. Grosvenor 4617/9

3/GS4



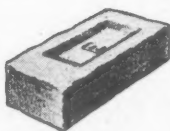
EASTWOODS

Architect: Hubert Bennett, F.R.I.B.A. Architect to London County Council. Contractor: Percy Dillon Limited

Stock Bricks

Prompt Delivery from Works to Your Site

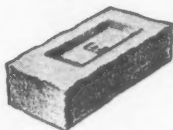
YELLOW FACINGS



A hard high grade stock facing of uniform deep colour and regular shape.

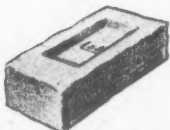
Their mellow warm colour makes these bricks very suitable for special architectural features.

SECOND HARD STOCKS



An economical, reliable and well burned brick of varying colour and slight irregularity in shape, the well-known "London" Stock is in great demand for both facing and foundation work.

MILD STOCK FACINGS



Ideally suited for use as facings for schools, factories and housing schemes. Mild Stocks are fairly hard bricks with faces of good medium yellow colour.

They are of regular shape, fast in colour and strengthen with age.

EASTWOODS SALES LIMITED

Technical and Sales enquiries welcomed at:—Eastwood House, 158-160 City Road, London, E.C.1. Tel: CLERkenwell 2040
or at:—29 St. Sepulchre Gate, Doncaster. Tel: Doncaster 49256

Or any of our Depots:

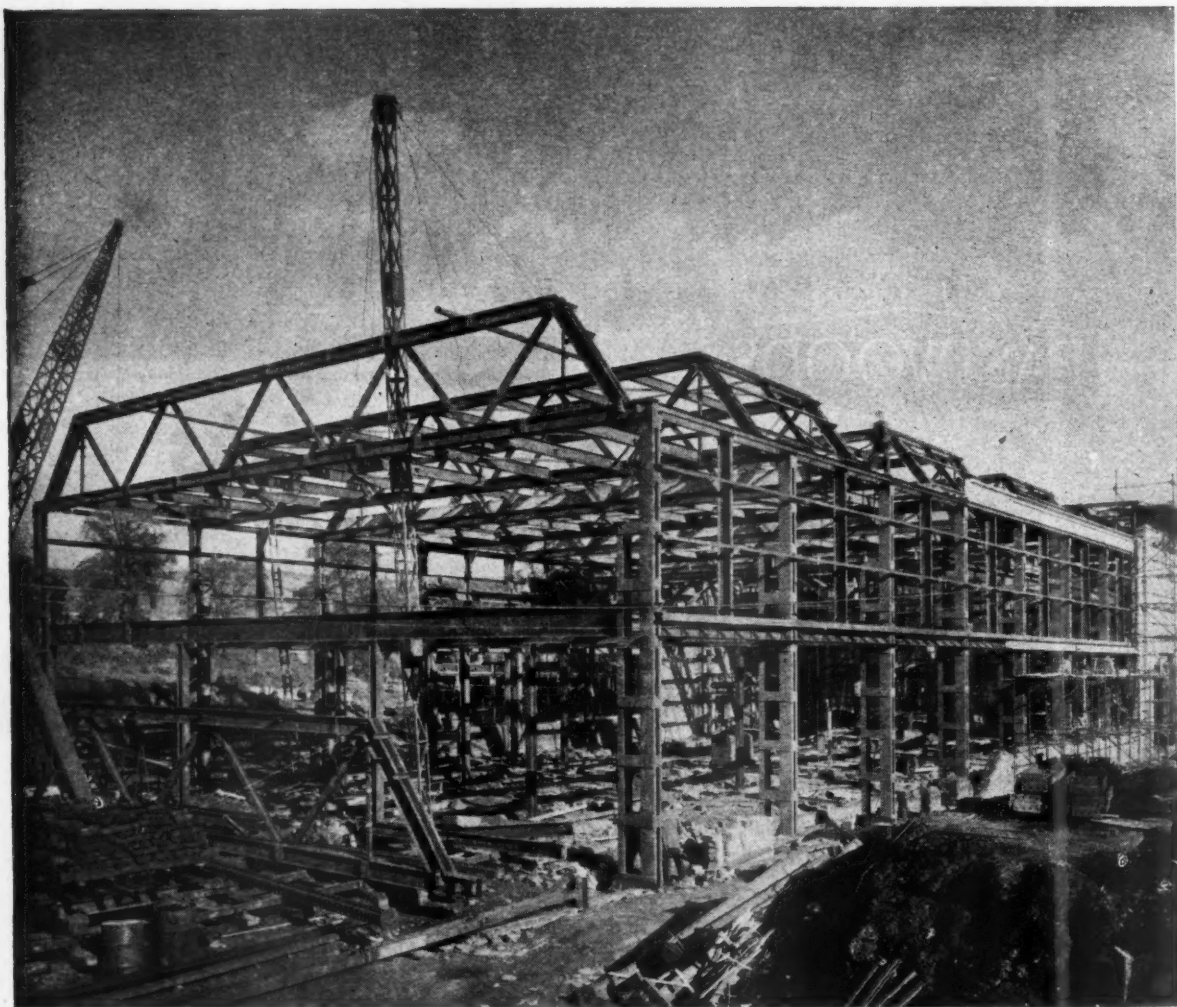
CAMBRIDGE, 117 East Road. Tel. Cambridge 2087; COVENTRY, Sandy Lane. Tel. Coventry 61707; DONCASTER, Crompton Road. Tel. Doncaster 61442; EASTLEIGH, Allbrook, Eastleigh, Hants. Tel. Eastleigh 2621/2; GILLINGHAM, (Kent), Trafalgar Street. Tel. Gillingham 59071; GREENWICH, Norman Road, S.E.10. Tel. GREENWICH 1172; HILLINGDON, Uxbridge Road. Tel. Uxbridge 6421/2; IPSWICH, Cumberland Street. Tel. Ipswich 53794; ISLEWORTH, 11 The Square. Tel. HOUNslow 1181; KINGSLAND, 4 Orsman Road, N.1. Tel. SHoreditch 4133/4; KINGS LYNN, South Everard Street. Tel. Kings Lynn 3718; LEEDS, 7, 320 Meanwood Rd. Tel. Leeds 40484; LETCHWORTH, Birds Hill. Tel. Letchworth 1700; MORTLAKE, High Street, S.W.14. Tel. PROspect 7231; NORWICH, The Nest, Rosary Road. Tel. Norwich 21498; SOUTHEND-ON-SEA, Fairfax Drive, Southend, Essex. Tel. Southend 48171; SUDBURY (Suffolk), North Street. Tel. Sudbury 2416; WEMBLEY, St. John's Road. Tel. WEMbley 0126; WEYBRIDGE, Bridge Wharf. Tel. Weybridge 3963.

Welding by

BOOTH

The photograph shows welded steelwork in course of erection for Messrs. Ferodo Ltd's.

New Technical Division, Chapel-en-le-Frith, Derbyshire. This is the first phase of a three-stage building project for which BOOTH'S are fabricating and erecting all the steelwork. Architects: Messrs. Ashworth & Fletcher, A/L.R.I.B.A.



JOHN BOOTH & SONS (BOLTON) LTD.
HULTON STEELWORKS, BOLTON

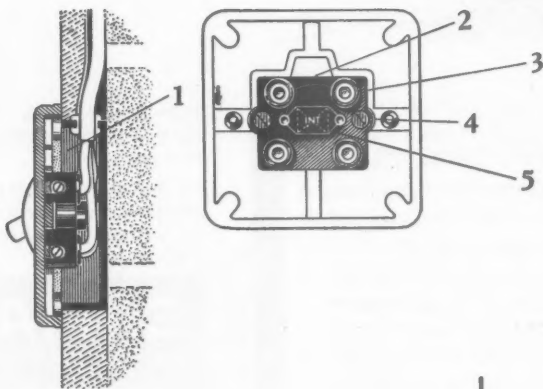
Telephone: BOLTON 1195

London Office: 26 Victoria Street, Westminster S.W.1

Telephone: ABBEY 7162

a new high efficiency intermediate flush switch ...

The "Lincoln" Intermediate switch is unique in that it embodies a highly efficient mechanism within a unit of extra-shallow proportions. Contacts are of beryllium copper with silver buttons and are moved to alternative positions by rollers of nylon material. Exhaustive tests have shown that the switch is conservatively rated at 5 amp. 250 volt AC—heavy load-making and breaking capacity is thus available in a unit which can be erected in a plaster-depth box. In size, appearance and performance, this new Intermediate switch is therefore in every way uniform with the popular "Lincoln" one- and two-way units with which it will be employed. Listed particulars will be found in Publication No. 1190, available on request.



- 1 Plaster Depth—can be erected in an extra-shallow box.
- 2 Sealed mechanism.
- 3 Large terminal screws readily accessible from the sides.
- 4 Contacts of beryllium copper with silver buttons.
- 5 Connection diagram moulded into base.

Crabtree

5 AMP. "LINCOLN" TYPE AC FLUSH SWITCHES

J. A. CRABTREE & CO. LTD.,
Lincoln Works, Walsall, Staffs.

c-766

SADIA spells economy for self-contained flats



A central boiler system may mean higher rents because running costs have to be passed on to the tenant. But by installing individual Sadia Water Heaters, each flat is indeed self-contained and the tenant can regulate his expenditure according to his needs. For this purpose we suggest the Sadia type UDB/BT. It supplies all the hot water taps in each flat and is fully adequate for the needs of the average small household. Very simple and economical to install, this model incorporates its own ball tank and needs no vent pipe to the roof. The cold water down service pipe supplies the Sadia Water Heater and the cold water taps in the flats as well—resulting in a considerable saving in plumbing costs. Like all Sadia Water Heaters, it is made of the finest materials and to the highest standards of construction.

Sadia Water Heaters are the most likely to meet your requirements

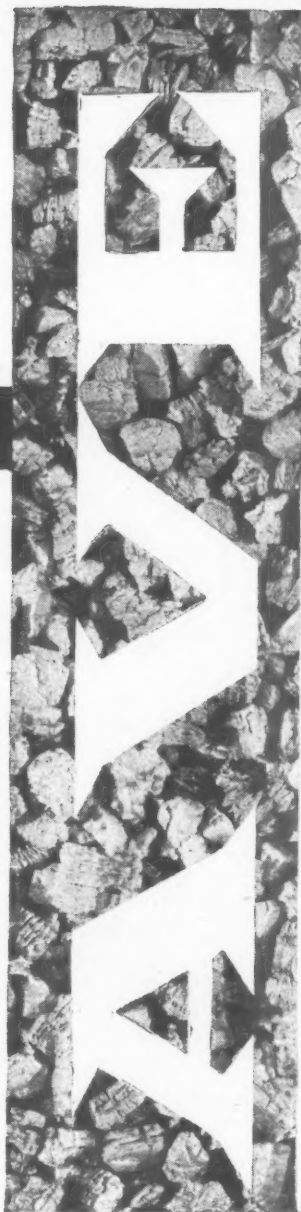
We shall be very happy to answer all enquiries regarding any contracts you may have under consideration.

SADIA

HOT WATER BY ELECTRICITY

AIDAS ELECTRIC LTD • SADIA WORKS
ROWDELL ROAD • NORTHOLT • MIDDLESEX
WAXLOW 2255

SPECIALISTS IN HOT WATER BY ELECTRICITY SINCE 1923



**modern
building requirements
call for**

VERMICULITE

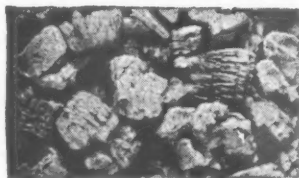
The most efficient cost/ratio insulation material for lightweight concrete, plaster and loosefill.

Each year millions more cubic feet continue to be used for this permanent, fireproof, lightweight insulation aggregate.

By constant research into the development of Vermiculite and its application to modern building methods, the A.V.E. is making an important contribution to the advancement of general building design and construction.

The latest A.V.E. publication—'Do's and Don'ts' on laying Vermiculite concrete—is now freely available from members and is included with each site delivery of A.V.E. Vermiculite.

*Specify one of these
branded A.V.E. Vermiculites.*



Full technical information from

BRISTOL

The Iron & Marble Company Ltd.
33-35 Victoria Street
Bristol 1

SOUTH WALES

L. Slack & Son Ltd.
Courthouse Street Pontypridd
South Wales

NORTHAMPTON

A. R. & W. Cleaver Ltd.
Advance Works Wood Street
Northampton

DUKINFIELD & GLASGOW

William Kenyon & Sons (MetaMica) Ltd
Dukinfield Cheshire and
140 West George Street Glasgow C1

NEWCASTLE

J. M. & J. Bartlett Ltd
Lombard House Warwick Street
Newcastle upon Tyne 2

**LONDON &
WELWYN GARDEN CITY**

Dupre Vermiculite (Exfoliators) Ltd
39-41 New Broad Street London EC2

*Issued in the interest of better insulation by the Association of Vermiculite Exfoliators
51-55 Stand London WC2*

SMITHS

**new service for the
ARCHITECT & DESIGNER**

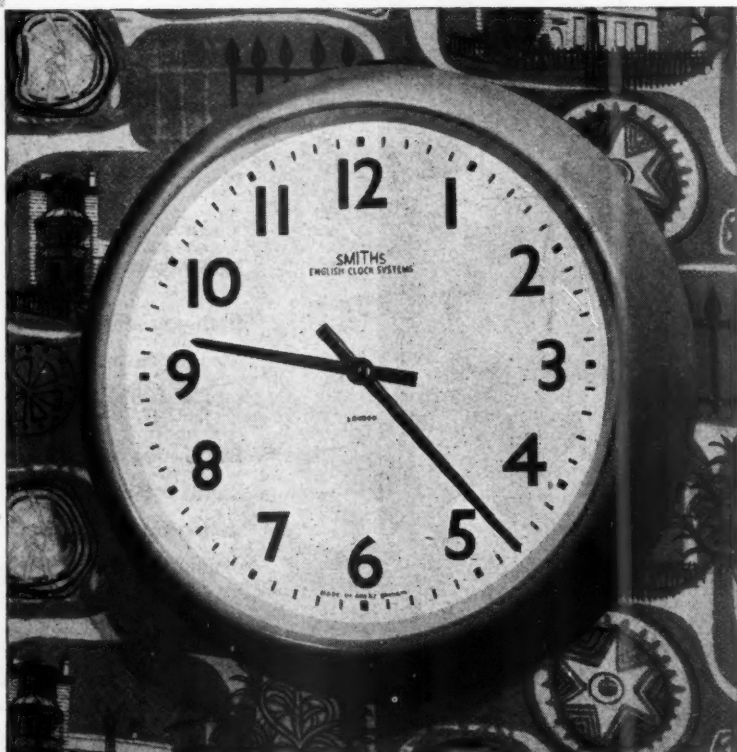
Smiths Clocks and Watches Ltd. and English Clock Systems have combined to give a complete service to both Architect and Designer. All Wall Clocks in the new extensive Smiths and E.C.S. ranges together with 'specials' can now be ordered through the Architects' Service Department of English Clock Systems. Clocks can be either 'Sectric' or fitted with impulse movements for operation from E.C.S. Pendulum Master Clock.

Also available: the larger interior/ exterior clocks, advertising clocks, time recorders, bell signal clocks, watchman's clocks, time switches and process timers etc. In fact, the new Architects' Service Department can supply the complete range of timekeeping equipment required for factory, school or office.

'SPECIALS' SERVICE

In case there is not a suitable clock for the particular requirements from the wide range available we can now produce to Architects' own specification from 6" Wall Clocks to the largest Tower Clock.

BRANCH OFFICE & SHOWROOMS
IN MANCHESTER, BIRMINGHAM
GLASGOW & BELFAST



Melton SURFACE MOUNTED WALL CLOCK from the E.C.S. range. Heavy Gill Sans numerals on a circular white dial. Bar type hands. Case of spun aluminium. Standard finish in bronze (any colour supplied at small extra cost).

Dia. of face 9", 12", 18". Overall dia. 11½", 14½", 21". Projection 2½" (18" face projects 4").

Flush fitting model **FLEET**—Cream or white finish—wall box supplied. Surface mounted model **BUDE**—Bakelite case—6", 9", 12" dials.

INFORMATION AND LEAFLETS FROM THE ARCHITECTS' SERVICE DEPT.

ENGLISH CLOCK SYSTEMS*

Head Office and Showrooms

179-185 GT. PORTLAND STREET, LONDON, W.1

Telephone: LAngham 7226

* A BRANCH OF THE CLOCK AND WATCH DIVISION OF

SMITHS

S. SMITH & SONS (ENGLAND) LTD

Woolworth Store, Oxford

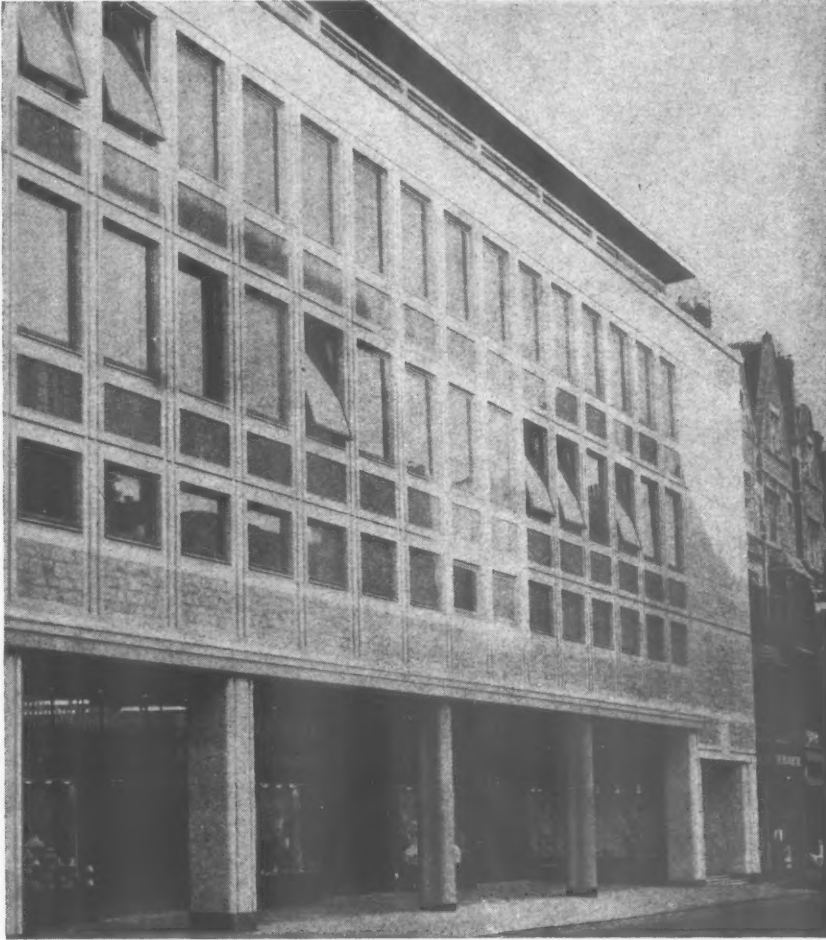
Chief Architect: H. Winbourne, F.R.I.B.A.

District Staff Architect: H. W. Schofield, L.R.I.B.A.

*The elevation and office entrance to Cornmarket Street
designed by Sir William Holford, M.A., M.T.P.I., F.R.I.B.A.*

Howard Mason, A.R.I.B.A., A.M.T.P.I., Assistant

Truscon Theorem II



Required:

Fine Floors for a fine building

Oxford's new Woolworth store is a fine building

∴ Truscon Floors were used

q.e.d. Truscon

The Trussed Concrete Steel Company Limited, Truscon House, Lower Marsh, London SE.1

Telephone: WATerloo 6922

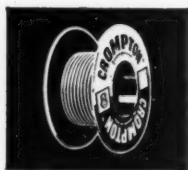


The recipe—the entrée, and Electric Cables

Taste a dish prepared by a great chef; ask him to give you the recipe and to tell you exactly how he makes it . . . then—following his instructions—prepare the dish yourself. You notice the difference? Well, after all, you would expect to.

The odd thing is that, with the best will in the world, the chef cannot tell you what he does that makes the difference. It is even more odd

that something similar can happen with an engineering company that has been in business for a long time. This is because the solutions to many of the problems that arise in the translation of a specification into an actual length of cable are supplied by the experience you cannot find in textbooks. This is why, even in these days of standardisation, a name with a long history still counts for something.



Crompton



A GOOD NAME FOR CABLE

Made to the registered specifications of the Cable Makers Association

CROMPTON PARKINSON LTD., CROMPTON HOUSE ALDWYCH LONDON, W.C.2. CABLE WORKS: ALFRETON ROAD, DERBY. TELEPHONE: DERBY 45431



Wrap that parlour in Fibreglass
Mayors, like musicians, mothers and mechanics, function most impressively under Fibreglass. Fibreglass is the most decisive way of keeping the temperature up and the pandemonium down — even in council chambers.

**people are beginning to expect
warmth and comfort — peace and quiet
with**

FIBREGLASS
TRADE MARK

FIBREGLASS LTD., ST. HELENS, LANCs • ST. HELENS 4224

SULZER for

AIR	CONDITIONING		
	VENTILATION	ALL-WELDED	STEEL
PANEL	WARMING	PIPING	INSTALLATIONS
	SPACE	HEATING	
ELECTRODE	BOILERS		
	WASTE HEAT	INDUSTRIAL	PIPING
		RECOVERY PLANT	



SULZER
66760

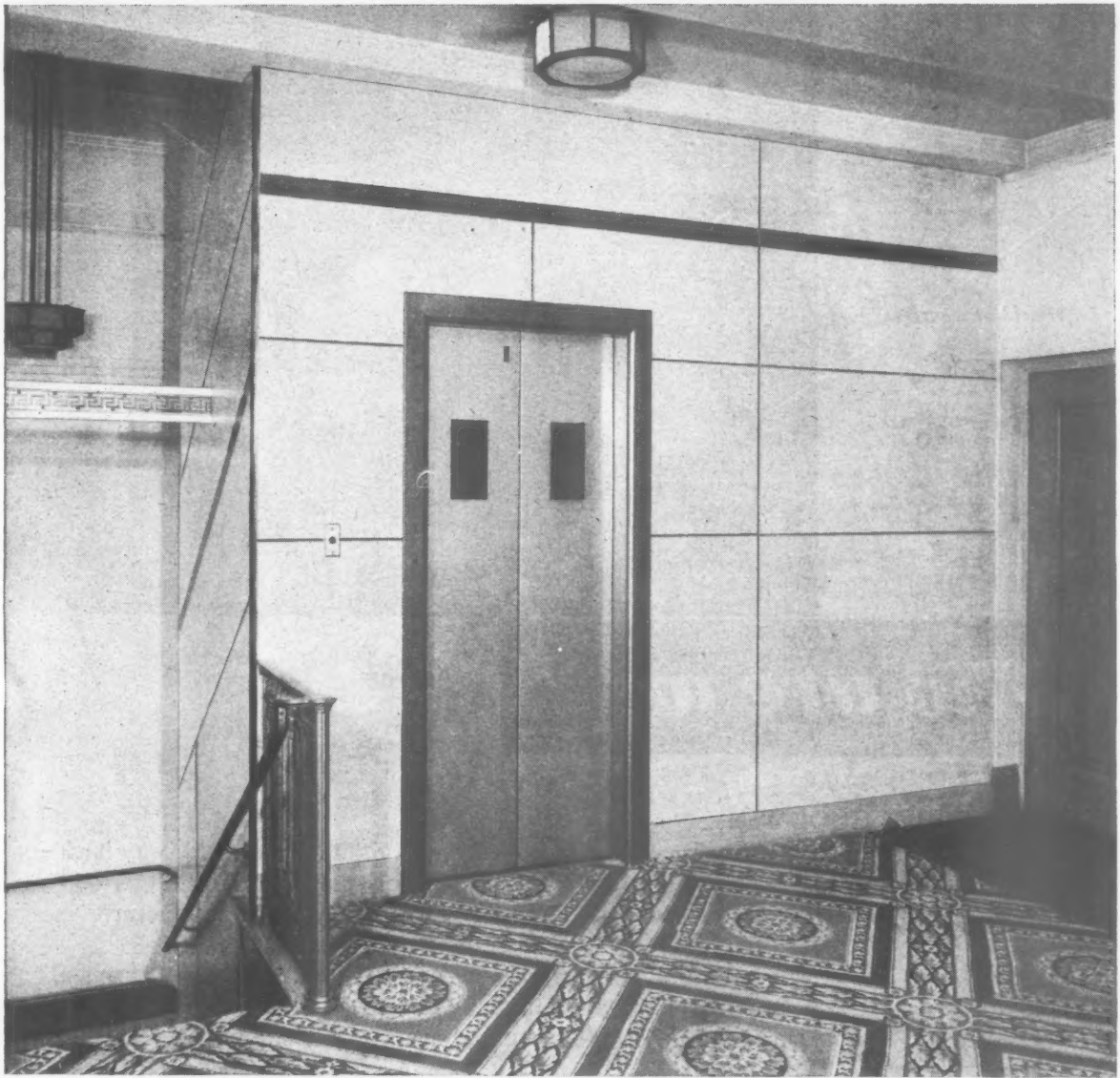
Switchgear and regulating equipment
for air conditioning and radiant heating plant.

SULZER BROS. (LONDON) LTD.

Sulzer Brothers Limited have Offices at:—Wincoburn—Paris—New York—Madrid—Cairo
Rio de Janeiro — Buenos Aires — Kobe — Lisbon — Johannesburg — Mexico City.
Representatives at:—Brussels — Milan — Amsterdam — Copenhagen — Oslo — Stockholm
Helsinki — Athens — Istanbul — Algiers — Haifa — Bombay — Karachi — Colombo — Singapore
Bangkok — Rangoon — Saigon — Manila — Montreal — Bogota — Caracas — Santiago (Chile)
Lima — La Paz — Sydney — Melbourne — Wellington — Vienna.

31

BEDFORD SQUARE LONDON W.C.1



Lift shaft at the Connaught Rooms, London. *

Better Design with WARERITE Plastics —and a Better Fabrication service

You already specify WARERITE Plastics for hard wearing, attractive and maintenance-free surfaces. Now, for trouble-free, **permanent** veneering and **expert** fabrication, you should also specify "Veneering and Fabrication by a WARERITE Specialist".

There are almost 150 WARERITE Specialists covering the whole country. They will supply promptly to your specifications or drawings, complete bar, counter and fitment tops, shelves, panelling, etc., in WARERITE Veneered Plywood. The WARERITE Veneers will be press-bonded with synthetic resin cement.

Write for a list of WARERITE Specialists.



WARERITE Veneered Plywood in a Birds Eye Maple woodprint with a decorative cross band in a contrasting WARERITE Walnut woodprint is used for panelling the lift shafts on all five floors of the Connaught Rooms, Great Queen Street, London, W.C.2.

Architect: Hubert H. Bull, Esq., L.R.I.B.A.

(H. V. Ashley and Winton Newman).

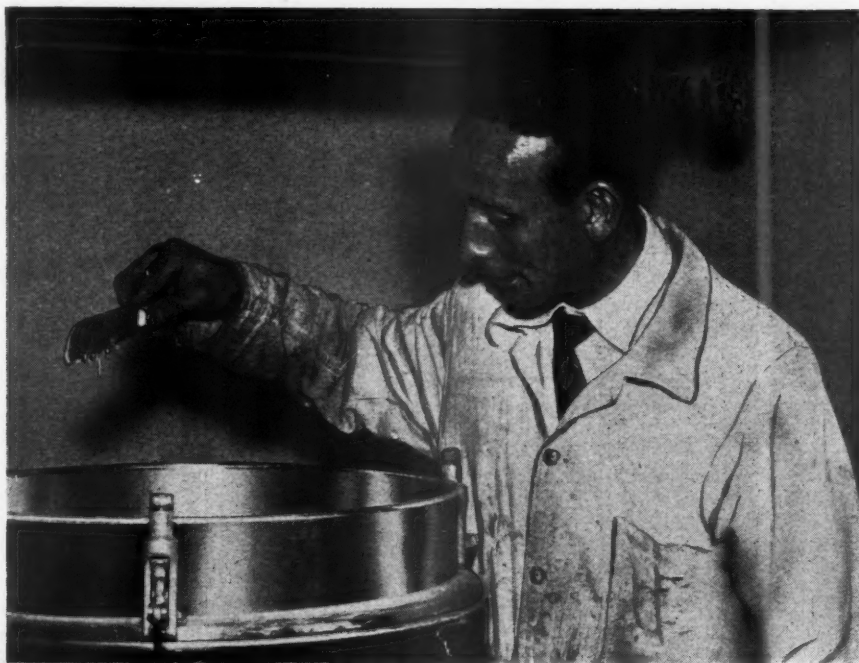
Contractors: H. and C. Davis & Co. Ltd.

Veneering and Fabrication: A WARERITE-Specialist.

WARERITE PLASTICS with the lovelier patterns! 

BAKELITE LIMITED • 12-18 GROSVENOR GARDENS • LONDON SW1 • SLOane 0898
TGA WA49A

No. 12 of a series



Who are we ?

ARTHUR GOODWIN

When Arthur Goodwin joined Thos. Smith & Son Ltd. way back in 1934, as an errand boy, he was more concerned in the delivery of SMITHSON paints, rather than their manufacture. By 1940, when he was called up, he had already been on production for three years. During the war, he served in France, Belgium, Holland and Germany and rose to the rank of Sergeant. Demobbed in 1945, he returned again to Thos. Smith & Son Ltd. Now he is General Foreman where his knowledge and skill together with that of his colleagues, further the traditions which SMITHSON have maintained since 1790 in the manufacture of fine paints.



Makers of fine Paints and Varnishes since 1790

A private, entirely independent Company devoted to good paint-making and really personal service.

THOMAS SMITH & SON LTD., 238-240 Whitechapel Road, London, E.1

Telephone B1Shopgate 3717-8-9

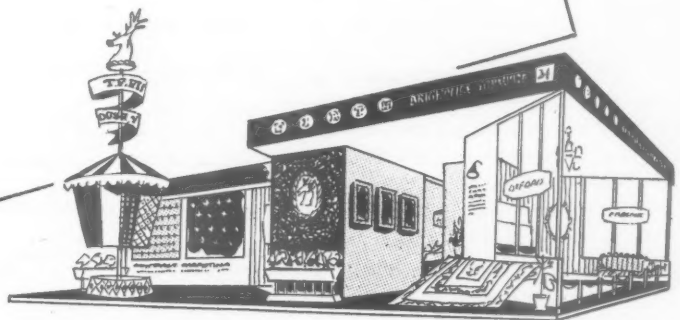
F I R T H S carpets

... extend a Special Invitation to ARCHITECTS

... to visit their stand at the National Carpet and Floorcoverings Trade Fair, Earls Court, 17th to 21st February. This exhibition is exclusively for Trade Visitors.

Realising that Architects are more and more specifying Firths carpets, we have devoted a large section of our stand exclusively to carpet exhibits of interest to Architects. Responsible members of our staff, familiar with Architects' problems, will explain the service we offer.

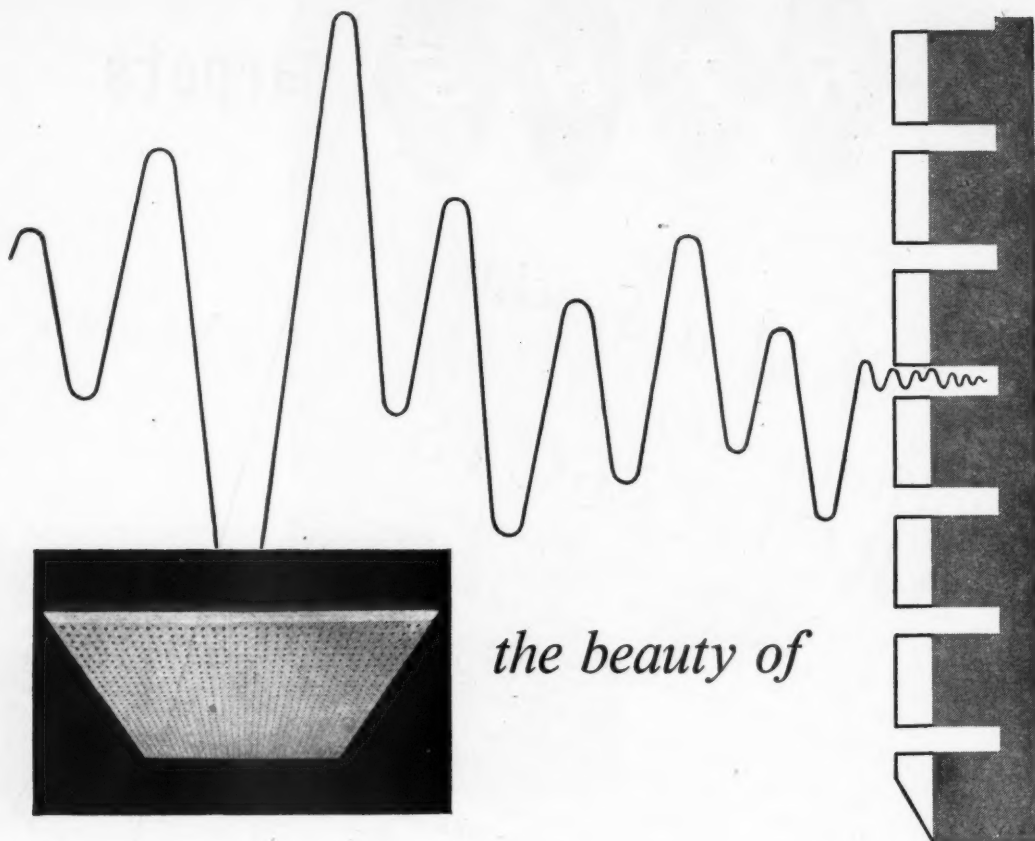
Firth's Designing Studio, Research Department, and a large, versatile production capacity, combine to place their Contract Service at your disposal.



T. F. FIRTH & SONS LIMITED

An exhibition entrance ticket will be gladly sent along to you
Write—Sales Promotion Department,
T. F. Firth & Sons Limited, Brighouse, Yorkshire





the beauty of

PAXTILES *is more than skin deep* *



The sound-absorbing holes in Paxtiles penetrate **THROUGH** the asbestos millboard face **INTO** the asbestos fibre backing.

That is the mark of the genuine Paxtile; it is the reason why Paxtiles provide the most effective sound insulation. Not only do Paxtiles fulfil this basic requirement they additionally offer a marked degree of heat insulation. They are absolutely **FIREPROOF**, rotproof, vermin proof and corrosion resistant. Paxtiles embody a distinctive form of decoration, adding handsomely to the decor of ceilings and walls and they can be painted any colour without detracting from their acoustic qualities. With all these practical attributes it is small wonder that Paxtiles are being specified on an ever increasing scale by modern architects.

Newalls
(Reg'd brand)

PAXTILES

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

*A member of the TURNER & NEWALL ORGANISATION
Offices and Depots at : LONDON, GLASGOW, MANCHESTER, NEWCASTLE UPON
TYNE, BIRMINGHAM, BELFAST, BRISTOL & CARDIFF.
Agents and Vendors in most markets abroad*



Horizontal-pivot-hung TOMO WINDOWS are incorporated in the attractive and economical curtain-wall at the Bishop Simpson Secondary School.

Architect: Charles H. Pike, F.R.I.B.A.

TOMO

DOUBLE GLAZED
WINDOWS

and the
B.R.S. TESTS

FOR UTMOST EFFICIENCY IN
THERMAL INSULATION AND SOUND REDUCTION

—SPECIFY

TOMO WINDOWS

—purpose-made in finest timbers to Architect's
own design and finish



**HAVE YOU HAD
YOUR FREE COPY OF
THE NEW EDITION
OF THIS HELPFUL
BROCHURE?**

Fully illustrated and packed with information, this 24-page brochure shows many examples of TOMO WINDOWS in use throughout the country. Please complete and post this coupon for your copy.

WHEN a standard-production TOMO WINDOW Wall-Unit (8 ft. x 8 ft.) was tested at the Building Research Station, Garston, the mean thermal transmittance of the complete unit was found to be 0.31 B.Th.U./sq. ft./h/°F. This is equal to the thermal transmittance of a traditional, 11-in. cavity brick wall! This impressive result was further improved to 0.29 when the TOMO pleated blinds, fitted between the panes, were lowered.

The U-value of the window-area only was found to be 0.38 which, with TOMO pleated blinds down, became 0.35. At 0.38, TOMO double-glazed WINDOWS are substantially (29%) better than the U-value of 0.47 quoted for conventional double windows in the I.H.V.E. Guide to Current Practice, 1955.

In addition to their excellent thermal-efficiency values, TOMO double-glazed WINDOWS have remarkable sound-reduction properties and are specially recommended for offices, schools, flats, etc., in busy streets or near to airports. The amount of reduction in sound level depends on the thickness of glass and the space between panes—thirty-two ounce glass spaced at 1½ in. gives a reduction of approximately 40 decibels.

These high-quality windows afford all the advantages of finely-controlled ventilation and total indoor window-cleaning. They are suitable for inward or outward opening and can be top-hung, bottom-hung, side-hung or pivot-hung.

**TO: TOMO TRADING CO. LTD., COWLEY PEACHEY,
UXBRIDGE, MIDDLESEX (Tel: West Drayton 3751)**

Please send me a copy of your revised TOMO WINDOWS brochure

Name.....

Address.....

For the attention of.....

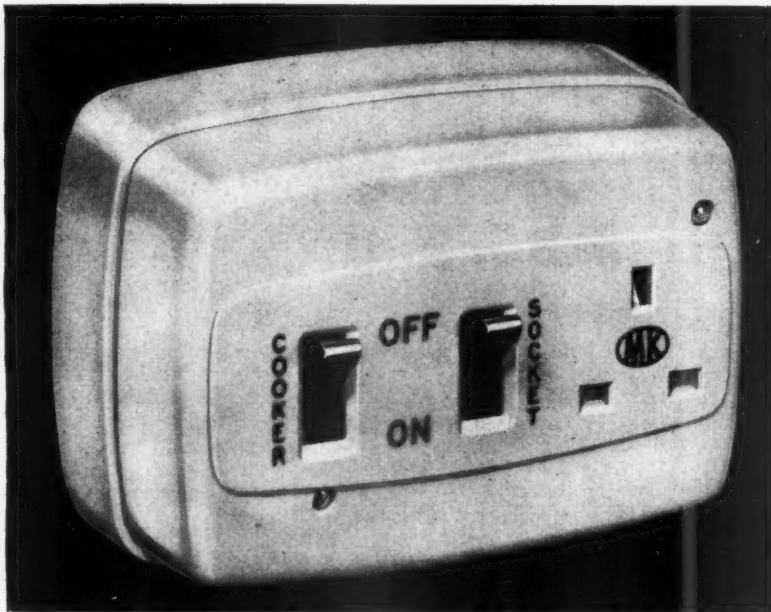
A.J.

A NEW all-insulated COOKER CONTROL UNIT

FOR SURFACE INSTALLATIONS this new all-insulated cooker control unit is extremely neat and compact. It has a tough, easy-to-clean case moulded in ivory of urea formaldehyde, and the switch handles are red in contrast. A self-contained mounting block is provided so that the unit can be fixed direct to the wall, and the cables are housed in an incombustible compartment with good entry facilities. The unit is designed for straight-through wiring and earthing. Maximum dimensions across the base are $5\frac{7}{8}$ " x $4\frac{1}{4}$ ".

List No. 5040/646 30 amp double pole AC surface cooker control unit with 13 amp double pole switchsocket-outlet, all-insulated pattern, ivory finish. Complete with ivory 13 amp fused plug, 27/8 each

Also available with twin neon pilot-lights, List No. 5041/646. Complete with two lamps and ivory 13 amp fused-plug. 36/6 each

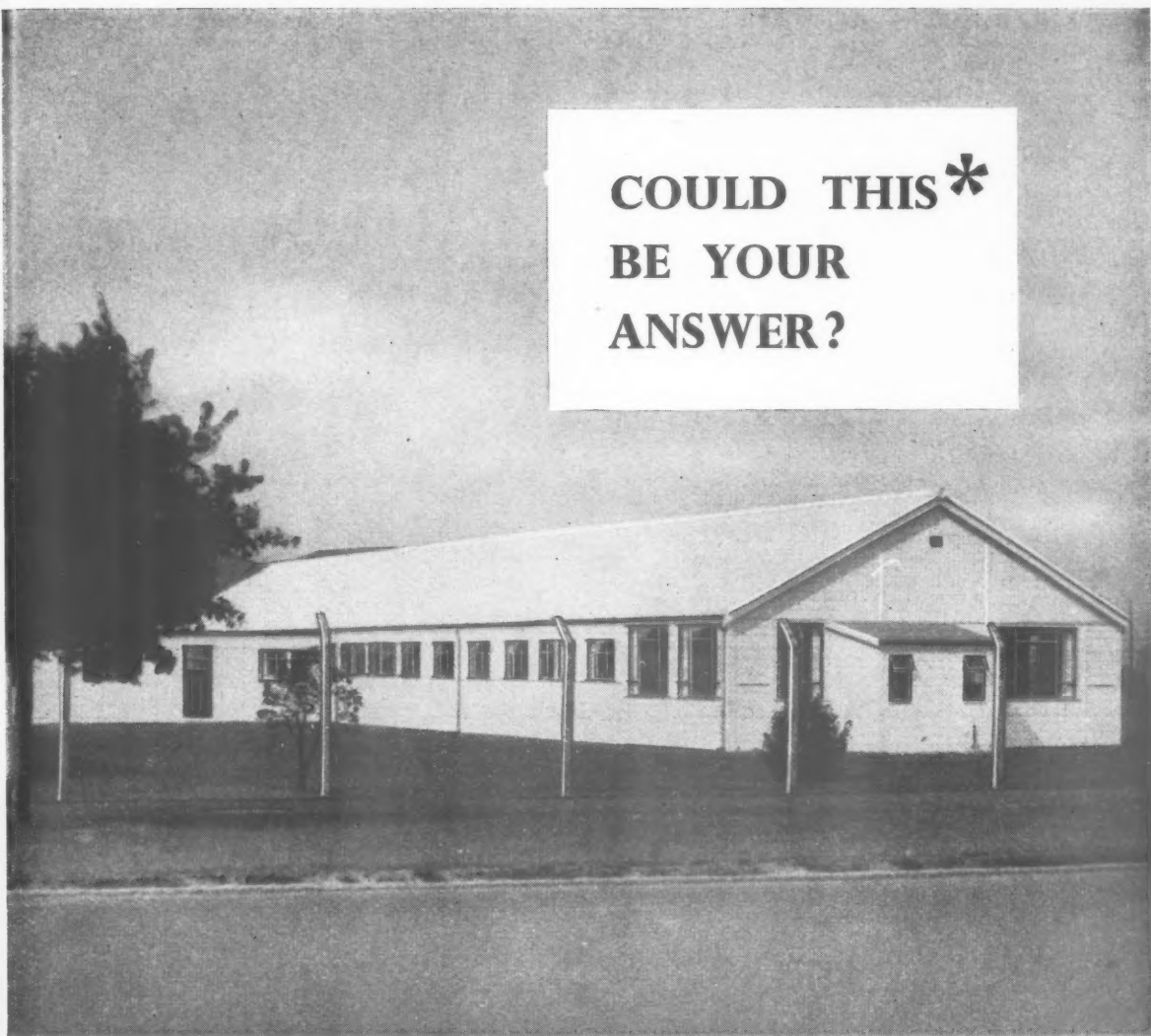


...the mark of leadership

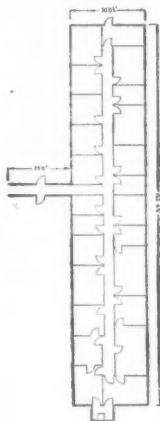
M. K. Electric Limited, Wakefield Street, London N.18

Edmonton 5151

**COULD THIS*
BE YOUR
ANSWER?**



Photograph by courtesy of Hunting-Clan Air Transport Ltd., London Airport.



*** FOR ONE REASON OR ANOTHER**, tomorrow may find you face to face with a complex building problem. Perhaps the situation demands an urgent solution . . . or funds will not permit the expense of a traditional brick structure; whichever it is, **YOU** are expected to find a speedy, efficient, yet simple answer.

THORNS TIMBER-FRAMED BUILDINGS provide just such an answer; prefabricated in **BASIC** units, they combine economy with ease of erection—and are easily adaptable to your own design.

In hundreds of places **THORNS** have proved the *RIGHT* answer for dependable and efficient buildings—Offices, Hospitals, Canteens, Pavilions, Temporary Schools and Shops, Church Halls and Institutes,

Scout Headquarters, Industrial Workshops, etc.

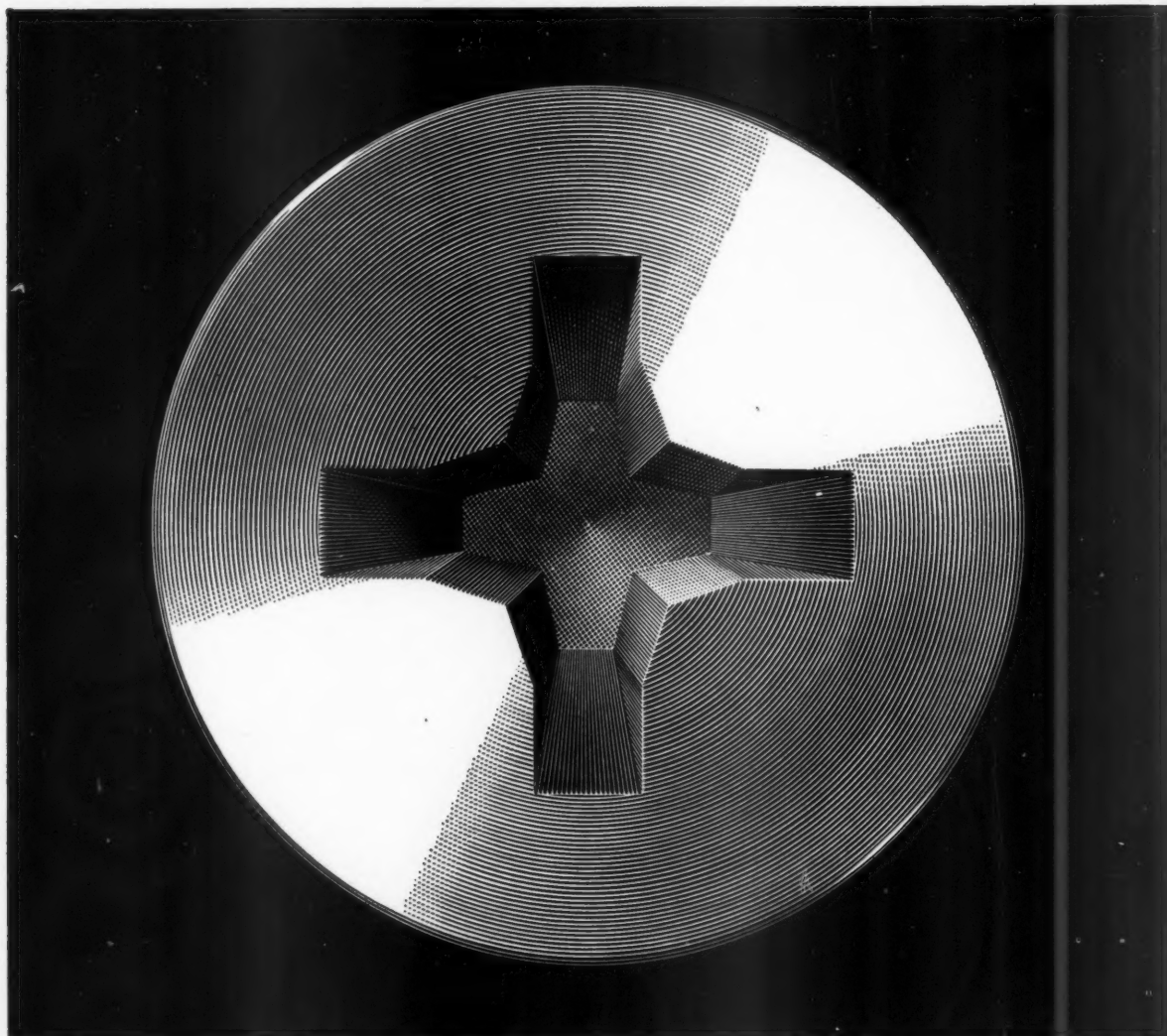
The photograph shows an Office Building 152ft. by 30ft., at London Airport.

Basic widths available—12ft., 15ft., 18ft., 20ft., 24ft., 25ft., 30ft.

get *your* quotation from **THORNS**

J. THORN & SONS LTD. (Dept. 188), BRAMPTON ROAD, BEXLEYHEATH, KENT

BD937



HEADS YOU WIN!

Using Nettlefolds Wood Screws with Phillips Recess Heads has three advantages. Driving, whether by hand or power, is easier, safer and faster.

The shaped end of the special driver mates exactly with the Phillips Recess in the head, providing a firm fit against the four deep bearing surfaces. The driver cannot slip to score woodwork or injure hands; centring is automatic so that screws go in straight every time; and the job is quickly finished, neat and free from burrs.

NETTLEFOLDS WOOD SCREWS In brass or steel and in a variety of finishes. Raised, round or countersunk heads, sizes from $\frac{1}{8}$ " upwards. **WITH PHILLIPS RECESS HEADS** (Patent No. 663163)

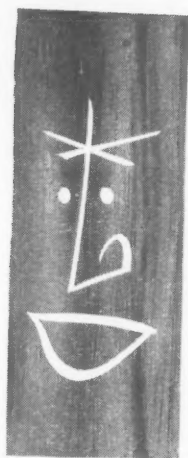
If it's a matter of how to fasten one thing to another get in touch with... **GKN**

GUEST KEEN & NETTLEFOLDS (MIDLANDS) LTD. SCREW DIVISION, BOX 24, HEATH STREET, BIRMINGHAM 18

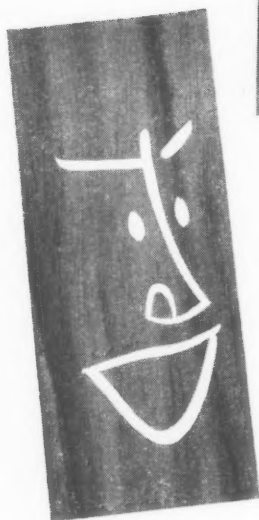
5/9/5110



THE 'TRENT'



THE 'SHERWOOD'



THE 'TYPE B'

Good flush doors speak for themselves . . .

There is no mistaking the outstanding high quality of Leaderflush flush doors wherever they are seen—it is a quality born of many years' experience in specialised manufacture—a quality which speaks for itself.

STOCKISTS:—LEADERFLUSH DOORS can be obtained immediately ex stock from the following officially appointed distributors for the areas stated:—

BIRMINGHAM & W. MIDLANDS
British Door Marketing Co. Ltd.,
Burton-on-Trent.

BRISTOL & SOMERSET
Iron & Marble Co. Ltd., Bristol.

DEVON & CORNWALL
Jewsons Ltd., Plymouth.

ABERDEEN & N. SCOTLAND
Georg. Gordon & Co. Ltd.,
Aberdeen.

DURHAM, NORTHUMBERLAND & N. RIDING of YORKSHIRE
J. M. & J. Bartlett Ltd., Newcastle-on-Tyne.

SOUTH WALES
H. R. Paul & Son Ltd., Barry.

ANGLESEY & CAERNARVONSHIRE
Wm. Roberts & Co. Ltd., Menai
Brige.

**GLOUCS., WORCS.,
HEREFORDSHIRE**
Sharpe & Fisher Ltd., Cheltenham.

CUMBERLAND & WESTMORLAND
Wm. Coulthard & Co. Ltd., Carlisle.

"DELIVERY ON TIME" To all parts of Great Britain and the world is the recognised policy of LEADERFLUSH.

LITERATURE—giving full specification of LEADERFLUSH doors will be gladly sent on request.

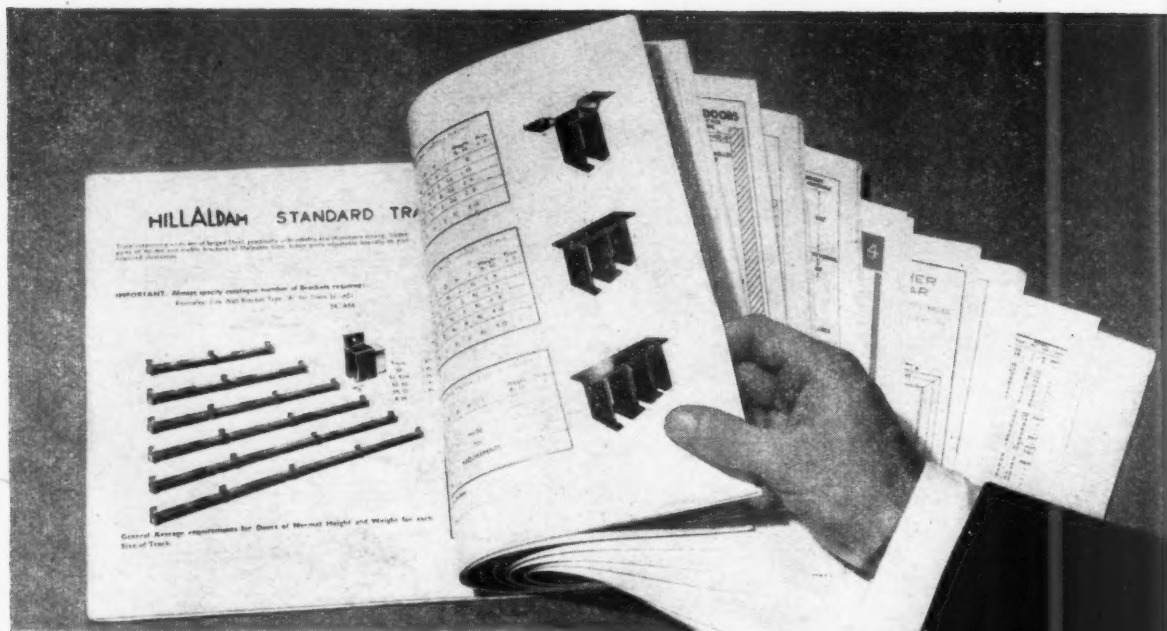
Leaderflush

BRITAIN'S FINEST FLUSH DOORS

LEADERFLUSH (DOORS) LTD., TROWELL, NOTTINGHAM
Tel: ILKESTON 623 (4 lines). Telegrams: LEADAFUSH, ILKESTON, NOTTINGHAM



THERE ARE OVER 2,000,000 LEADERFLUSH DOORS IN USE TODAY.



Who's behind the Sliding Door in Today's Modern Buildings?

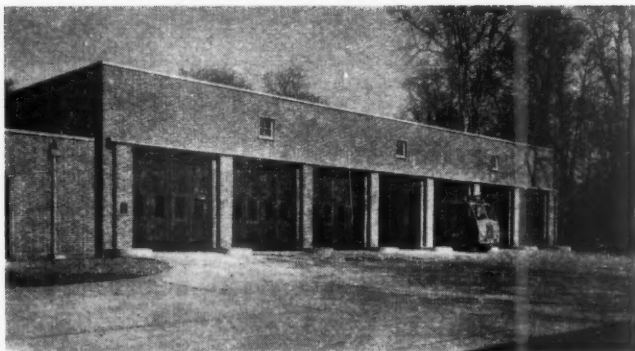
The best way to get inside information about doors that slide is to send for our book. This is no scrawny pamphlet, but a thick and helpful volume. It provides the key to any door problem likely to worry you. It shows joinery and steelwork details, weights to be carried, allowances for adjustments, scale drawings of tracks, trolleys, guides and a host of other useful information.



E. HILL ALDAM & CO. LTD.

The Sliding Door People
BRITANNIC WORKS, HASLEMERE AVENUE
LONDON, S.W.18

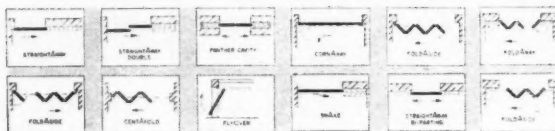
Telephone: Wimbledon 8080 (6 lines)
Telegrams: "Aldamillo" Put. London



Above we illustrate part of Reigate Fire Station. Here, where the doors must open smartly at a touch, some seven sets of our QUIKADOR were installed.

Our technical representatives cover Britain. But don't forget our book! Architectural Edition 27.

FOR EVERY DOOR THAT SLIDES



This advertisement is produced to B.S. 1311, 1956, governing Trade and Technical publications



in the interest of NATIONAL HEALTH ...

BRITISH PLASTER BOARD have successfully combined the traditional building material GYPSUM PLASTER with modern factory techniques to reduce site labour and the water content. The completed building is warm and dry at once.

you should use DRY CONSTRUCTION

'Paramount' DRY PARTITION

The modern dry interior wall and lining to external walls. No wet work. Competitive in cost. Simple to erect. Highly adaptable.

'Paramount' PLASTERBOARD

The original Plasterboard for walls and Ceilings. Fire-resisting. Low in cost (less than 6d. per sq. ft.). Specially prepared for immediate decoration. No drying out. Also available in water-resisting quality for use where condensation is a problem.

'Paramount' INSULATING PLASTERBOARD

The most economical method of providing adequate Thermal Insulations. (Extra cost less than 1d. per sq. ft.).

'Paramount' COVE

A factory-made Dry Cornice providing an attractive finish to junctions of walls and ceilings. Eliminates unsightly cracks. Easy to fix. Low in cost. Ready for immediate decoration.

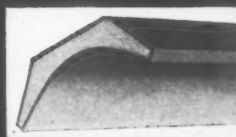
Learn more about DRY CONSTRUCTION!

Discuss your problems with
DRY CONSTRUCTION DIVISION

THE
BRITISH PLASTER BOARD

(Manufacturing) LTD

BATH HOUSE, 82 PICCADILLY, LONDON, W.1. TELEPHONE: GROSVENOR 8311.
AP82





quality service to the building industry by

Stellith wood wool slabs and channel reinforced roofing slabs offer many advantages, including exceptional structural strength, light weight, excellent heat insulation and sound absorption properties, easy handling, cutting and fixing and effective resistance to fire and moisture. Their many uses include:—

STELLITH*

- 1 Structural insulating roof deck with channel reinforced STELLITH
- 2 Structural insulating roof deck laid in steel tees
- 3 Structural insulating roof deck over timber joists
- 4 Structural insulating roof deck over concrete purlins
- 5 Sarking over rafters
- 6 Structural insulation under all types of metal roofing
- 7 Structural insulating lining to concrete or steel frames
- 8 Insulating lining under asbestos or corrugated iron roofing
- 9 Suspended ceilings
- 10 Insulation over concrete roofs
- 11 Permanent insulating shuttering to roofs and floors
- 12 Permanent insulating shuttering to walls
- 13 Self-supporting partitions
- 14 Timber stud partitions
- 15 Insulating lining to brick walls
- 16 External wall cladding
- 17 Insulating tank and cistern cladding

Technical information sheets on the above and other uses of STELLITH available on request to:—

MOVING WITH THE TIMES

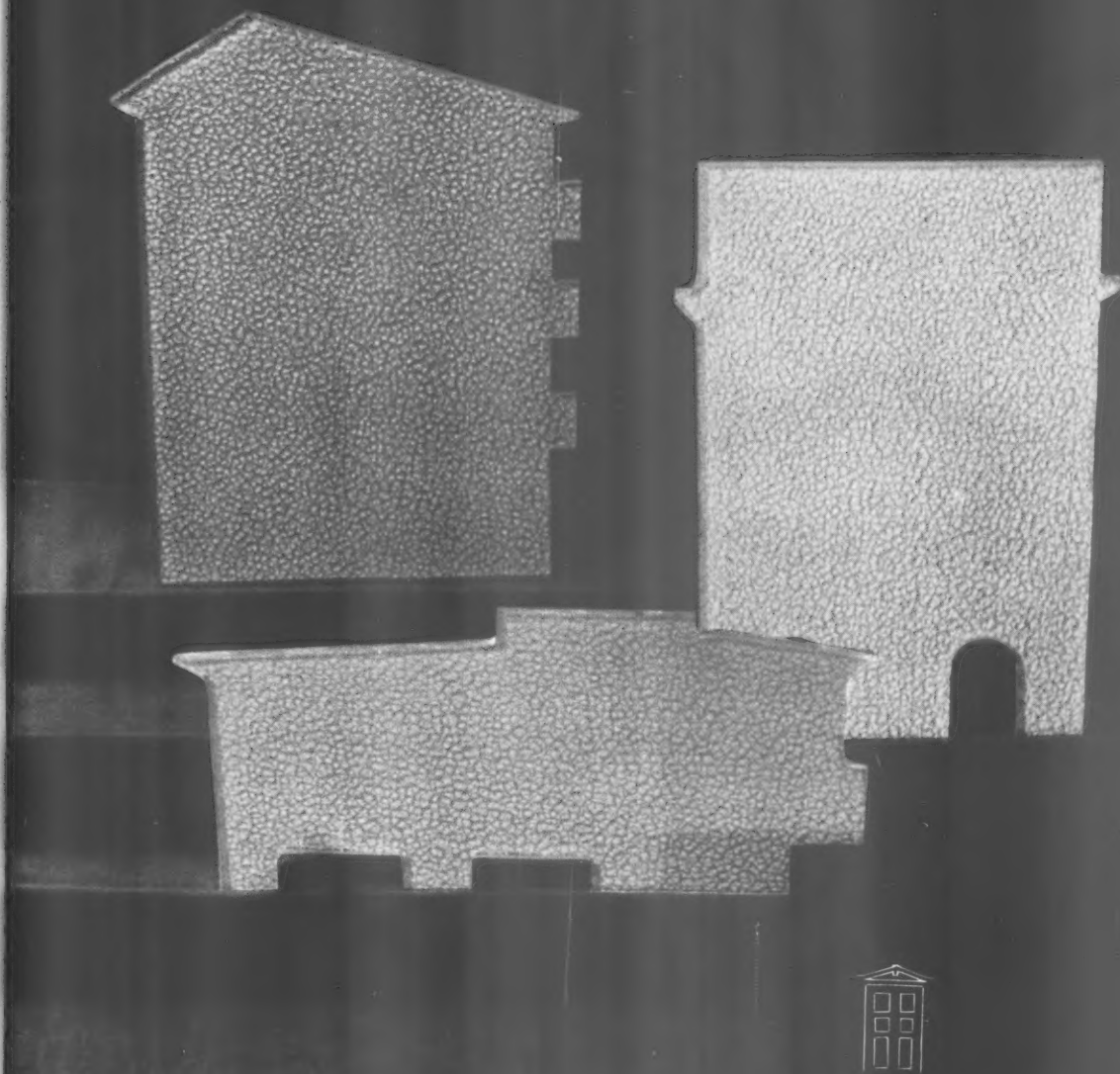
We have just moved to our recently completed new premises in North Shields where we have one of the most modern and up-to-date manufacturing units of its kind in the world. This new Factory will enable us to improve still further the HIGH QUALITY of our products and to satisfy the continual increasing demand for "STELLITH".

***STELLITH**

wood wool slabs and channel reinforced roofing slabs

STELLA BUILDING PRODUCTS LTD.

Wallsend Road, North Shields, Northumberland. Tel: North Shields 1474/5



The colourful protective surface – ‘MUROGLASS’ and ‘ARMOURCLAD’ Glass Cladding

‘ARMOURCLAD’ available in 16 colours, ‘MUROGLASS’ in 9 colours.

For full details write to the manufacturers: Supplies are available through the usual trade channels.

PILKINGTON BROTHERS LIMITED, ST. HELENS, LANCS., OR SELWYN HOUSE, CLEVELAND ROW, ST. JAMES'S, S.W.1

‘ARMOURCLAD’ is a registered trade mark of Pilkington Brothers Limited.



Vitreous China has given 'durable' a new meaning, and because all "Standard" Sanitary Appliances are made of Vitreous China, it takes a lifetime to discover just how durable they are. With Vitreous China comes a higher resistance to harsh treatment than ordinary ware. Much higher. And because "Standard" Sanitary Ware lasts and lasts, its cost for each year of service is much lower.

Durable



**In many countries it is officially required that Sanitary Appliances be made of Vitreous China. Many British architects, doctors, and Public Health Authorities would like to see similar legislation in Britain and it is not unnaturally, would the makers of "Standard" Sanitary Appliances.*



ole

Beautiful...

The clean, fresh beauty of "Standard" Sanitary Appliances made of Vitreous China is a joy to behold. A brilliant, practical beauty. A modern beauty that has been achieved by years of planning, styling, shaping and re-shaping. And below the surface there is the beauty of a superb craftsmanship. Inside and out, this Vitreous China ware is really beautiful.

Hygienic...

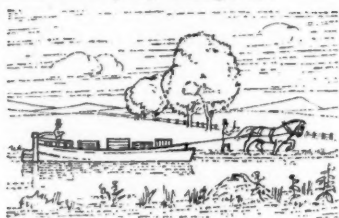
Fired at a much higher temperature than ordinary ware, Vitreous China is a dense and non-absorbent material which remains steadfastly hygienic.* And it does not depend on its glaze to make it watertight. It is non-porous and non-crazing. Germs cannot lodge and breed in it. "Standard" Sanitary Ware made of Vitreous China guarantees hygiene for the lifetime of whatever building it serves.

Durability. Beauty. Hygiene. Economy. These are the characteristics of "STANDARD" SANITARY APPLIANCES made of VITREOUS CHINA which appeal to the house owner and builder no less than to the doctor and the architect.



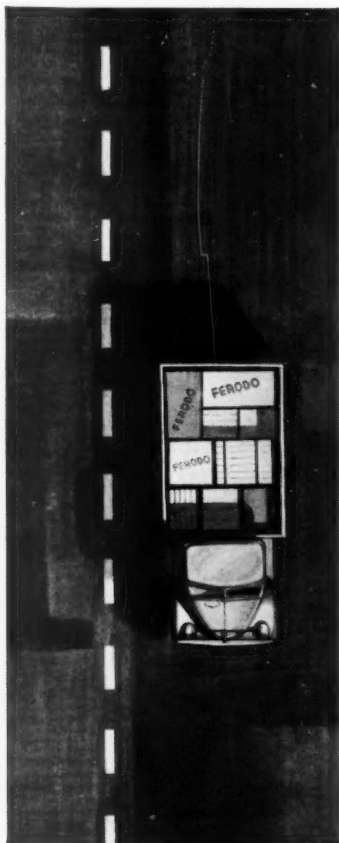
IDEAL BOILERS & RADIATORS LTD., IDEAL WORKS, HULL

Leisurely by Barge...



...that's how John Nash took delivery of his building materials — the quickest way then. And far cheaper, too; for by pack horse or wagon the cost per ton of goods was nearly four times as much.

Now! Speedy deliveries direct to site



These days speedy deliveries are vital: Ferodo Stairtreads can be obtained quickly and efficiently from any Ferodo Wholesaler or the twenty Ferodo Depots, all well-stocked up and in strategic positions throughout Britain.

Ferodo Non-Slip Stairtreads are fitted to a wide variety of factories and public buildings. The quiet gleam of the aluminium nosings and the inset fabric or coloured composition, tones in with surrounding decorations. A firm grip that prevents accidents lasts for many years, even with continual hard wear.

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.

FERODO

non-slip stairtreads

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

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



THE ARCHITECTS' JOURNAL

No. 3284 Vol. 127 February 6, 1958

9 13 Queen Anne's Gate, London, S.W.1. Tel. WHI 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 subscriptions; 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 £1 10s. 0d.; carriage 2s. extra.

PRECINCT IN KENSINGTON

When the original scheme for the expansion of the Imperial College of Science and Technology (architects Norman and Dawbarn) was published about two years ago there was a strong protest against the proposal to demolish the buildings of the Imperial Institute.

*

The new scheme by the same architects, published last week, differs in two fundamental respects. The existing buildings retained, in addition to the Royal School of Mines, the Royal College of Music, and the Roderic Hill Building, now include Alexandra Mansions, No. 170, Queen's Gate by Norman Shaw, and (as a compromise to placate those who wanted to retain the Imperial Institute) the Colcutt Tower. Owing to a reduction in size of the Great Hall and the effect of the acquisition of Princes Gardens nearby for residential purposes, the accommodation required within the island site has been somewhat reduced.

*

These changes have enabled the architects to abandon the formal and symmetrical layout (at least, symmetrical when seen by a bird approaching from the south, if not by anybody on the ground) in favour of a more open and asymmetrical layout of rectangular blocks of varying heights which groups the various departments together, retains and improves the two-level circulation, and creates a series of courts and open spaces, of which by far the most important is a two-acre lawn surrounding the free-standing Tower, and continuing to the east under a link block into Engineering Court. The lawn faces Imperial Institute Road which, it is hoped, will be closed to through traffic and so become an internal college road, and behind it, as a backcloth and a foil to the tower, are the College Block containing the refectories,



Have You Had Your Copy?

The tremendous demand for our last publication on tea making, all its aspects, including maintenance, cleaning of equipment, design for tea points, etc. etc., has necessitated the reprint of this publication in a much enlarged form.

Make sure you have your copy

PLEASE USE BLOCK CAPITALS

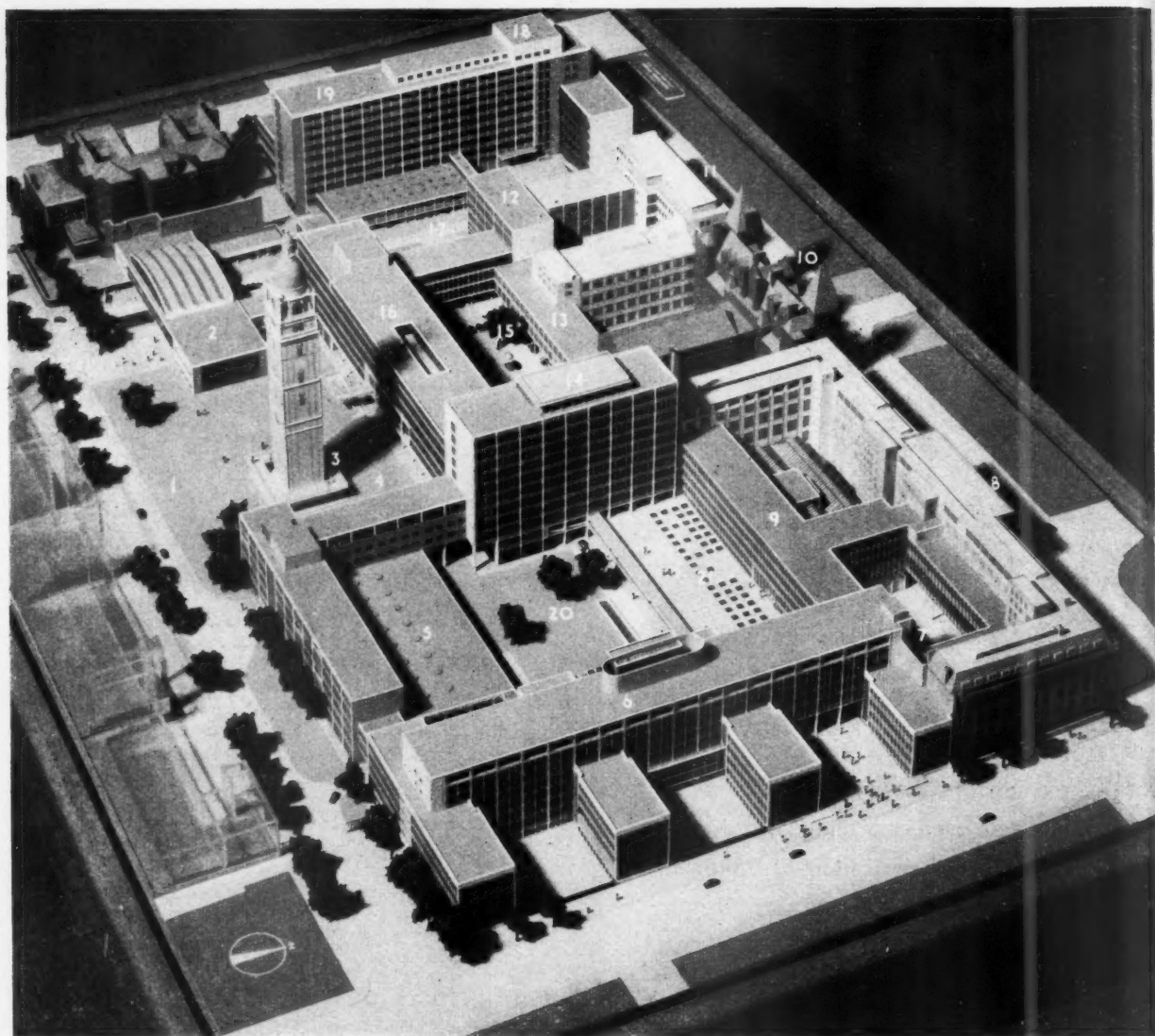
Please send copy(ies) of "More Tea please" ||

NAME

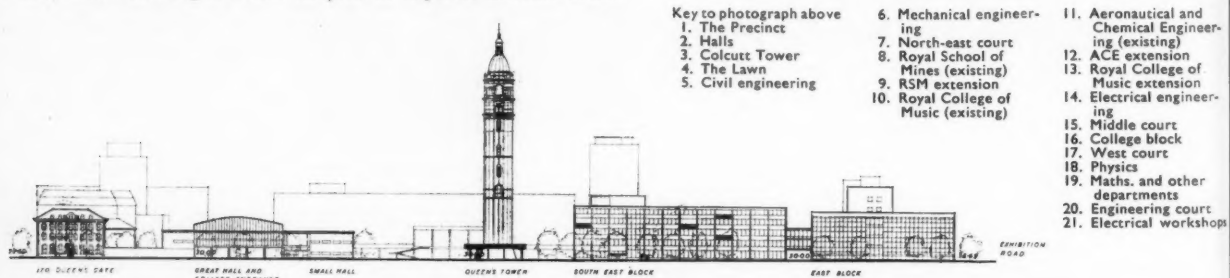
ADDRESS



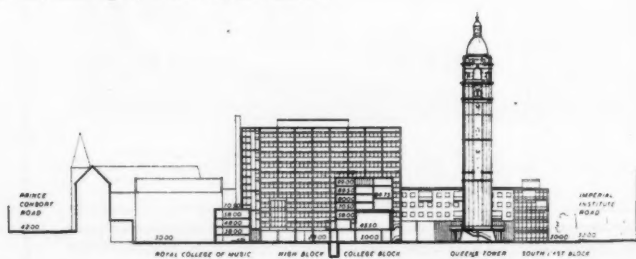
VERNON WORKS, OLDHAM



Above, model of Norman and Dawbarn's scheme for the Imperial College of Science and Technology (see page 197 and opposite), and below, section showing the south elevation to Imperial Institute Road.



Below: left, a model of the earlier scheme which the new one replaces, and right, a north-south section.



libraries, common rooms, administration and other accommodation used by the whole college, and the 140-ft. high block of the electrical engineering department.

*

Advantage has been taken of the slight downward slope of the site from north to south to bring pedestrians into the college from Exhibition Road at a level above the vehicular circulation. By placing certain buildings, such as the Halls Block, over the carriageways it has been possible to arrange the pedestrian circulation under cover and at the higher level, to give direct vehicular access to every part of the college (essential for handling heavy equipment), to accommodate 200 or 300 parked cars under cover, and to open out a series of interesting views under the blocks and between the courts.

*

The planning has been complicated by the difficulty of incorporating the existing buildings on the northern flank, by the need to accommodate heavy equipment, so far as possible at vehicle level, and by the phasing of the entire scheme of demolition and construction over several years during which the college has not only to keep going but to expand.

*

The layout, although opened out on the south side, still looks cramped to the north where the existing buildings remain, and might perhaps be improved further by going rather higher in the centre. The principal blocks will express a structural grid in mosaic, with infilling panels of tiles, the architects and clients wishing to avoid the use of materials which require regular cleaning. There will be some curtain walling, particularly in the spurs of the East Block facing Exhibition Road.

*

Whether it is wise to treat the central open space as a grass lawn, which will only survive if the students of Imperial College can be persuaded to accept the restrictions that have preserved the far less frequented Oxbridge college lawns, is very doubtful. The success of this scheme, with its system of interlinking courts and paved areas, may be made or marred by its surface treatment. The architects, in their report to the college, make a strong plea for the enrichment of the "machine-made" buildings internally with pictures and other works of art, externally with free-standing sculpture, fountains, lawns and trees. It is to be hoped that by the time Imperial College is being built the University Grants Committee will have a better understanding of the need to spend money on the spaces between buildings than it has shown hitherto. A scheme of this magnitude gives an exceptional opportunity for enlightened clients to patronize the arts: and the Imperial College, if it is to be more than a machine for creating technicians, will have an early opportunity to demonstrate the fact.

The Editors

GIVING THE MEMBERS A VOICE

THE architectural profession, and the RIBA in particular, has got to settle some very difficult problems in the next year or two. The statement on professional status from the Ad Hoc Committee has indicated what some of these problems are, and there are many others, including the acute financial problems of the RIBA itself, on which a statement is to be made shortly. But the opportunities for the individual member of the RIBA to express his opinions and to cast his vote in the settlement of these problems are severely limited by the constitution and organization, which have also failed to keep pace with the times.

It is possible, in theory, for the members of the RIBA to ascertain and to express their collective will at the Annual General Meeting. In practice, of course, the AGM is inevitably unrepresentative because participation is necessarily limited to members living in London and the Home Counties, and because the time available in a single evening cannot possibly enable important questions to be adequately discussed. The annual Architects' Conference has more time, but it is not confined to RIBA members, and does not discuss RIBA policy. Has the moment not arrived, however, when the RIBA should hold an annual policy-making conference, composed not of individuals but of delegates representing the allied societies in proportion to their membership, and thus representative of the membership as a whole? If the allied societies were to assume responsibility for the expenses of their representatives, it would then be possible for many architects who at present are unable to participate in conferences to do so, if they had the backing of their local members. The Allied Societies' Councils should be reformed to ensure that more assistants and group leaders in public and private offices are elected to them.

MR. NABARRO AGAIN

Last week the tireless Mr. Nabarro introduced a second Bill on Thermal Insulation. Last time it was factory roofs, this time it is dwellings. If Mr. Nabarro gets his way, all new dwelling houses, as from the first of January, 1960, must conform to a standard of insulation which will be laid down by the Minister of Power. What that standard will be we do not know, though Mr. Nabarro must have some idea since, in introducing his Bill, he claimed to the House that it would result in the end in a saving of at least one ton of coal in four per house. We understand that under the terms of his Bill, the vetting of plans is to be done by the Local Authorities at the same time as they vet for Byelaws. The grand question, of course, is whether it would not be logical to enforce thermal insulation in the Byelaws themselves. A measure of thermal insulation is already allowed for in the new Model Byelaws, but as a 9-in. brick wall, plastered internally, is accepted as complying* it is almost worse than no standard at all. The

* The exact requirements when stated as U values are 0.42 for the roof, 0.3 for the walls and 0.4 for the floor

advantage of including an effective standard of insulation in the Byelaws would be that *all* classes of building would be covered. The disadvantage, presumably, is that the business of altering the Byelaws is so onerous that it can only be attempted at rare intervals, and that the authorities concerned are still only getting their breath after the amendments of 1953. In the meantime it is left to public spirited MPs like Mr. Nabarro to legislate piecemeal for some of the more scandalous omissions. One possible advantage that might be drawn from this lopsided way of doing things is that when you have a specific problem in view, such as the insulation of factory roofs or of dwellings, it might be feasible to insist on a higher, more worthwhile standard for these than you could insist upon for the whole run of building. This depends, of course, on the regulations which the Minister is empowered to make in carrying out the Act. For it is a weakness of Mr. Nabarro's Thermal Insulation (Industrial Buildings) Act that it gives no indication of the value of thermal insulation which is being aimed at, and we understand that the same is true of the Thermal Insulation (Dwellings) Bill. This is in contrast to Mr. Nabarro's Clean Air Act which did give a very precise definition of the degree of clean air desired. We think it is most unwise to leave vital definitions wholly to the Ministry's permanent officials; but in the meanwhile it is important that we at least should have a clear idea of the standard of insulation which ought to be insisted upon. Broughton and Nash of BRS, in a paper presented to the Institute of Fuel's Conference on Domestic Heating* estimated that the Post War House (i.e. the house which conforms to the present Byelaws as regards insulation) has a "house U value" of about 0.38. The same authors proposed two possible future standards, the first giving a "house U value" of 0.24 and the second, of 0.18. If the Bill is to achieve the kind of saving suggested by Mr. Nabarro, the minimum standard would have to be round about the higher of these two figures, i.e. 0.24. This standard would doubtless be resisted by MOHLG, for Broughton and Nash calculated that it would mean about £35 on the price of a 1,000 sq. ft. semi-detached house. This is more than Mr. Nabarro led the House to believe, but we can think of no better form of national investment, and we wish every success to the measure.

With regard to the thermal insulation of factories, however, it must not be forgotten that though the Thermal Insulation Industrial Buildings Act comes into force on January 1, 1959, the regulations to which factories begun after that date must conform have not yet been published. This is very remiss, since there must be many jobs now on the drawing board which will not be begun on the site before January 1, 1959, and it would be aggravating, to say the least, if their architects had to do their work over again.



EARLS COURT

You will have noticed that I let the Furniture Exhibition pass without comment. It has, in fact, been dealt with very well in other parts of the JOURNAL. But here, for the record, are two things that brought me a little quiet fun. The English-speaking leader of a team of Dutch furniture makers asked to see the best British designs. After twenty minutes or so, during which the men looked more and more cynical, the leader turned to his guide and asked politely: "And now may we see some that does not copy?" Ouch!

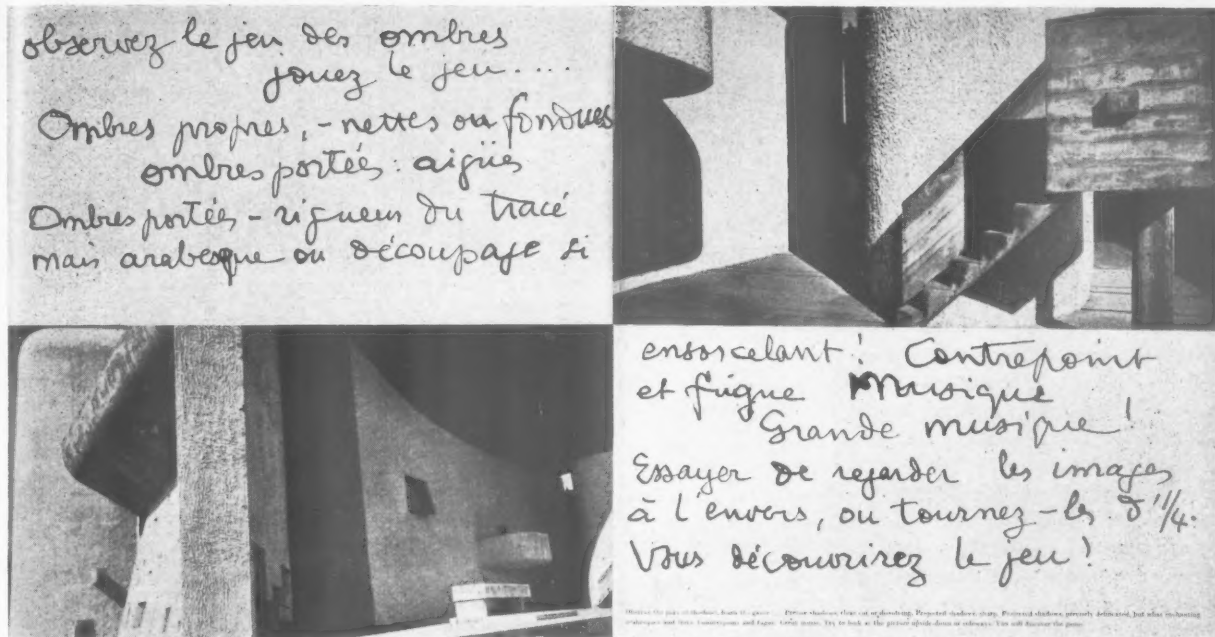
*

On the same day a little woman in a pink, knitted hat rushed up to the British stand, waving the plans of a spec-builder's ghastly bungalow, and asked for someone who would "do it out" to look just like the stand. Now why on earth did she like the bungalow and the best modern furniture? Was it because the furniture had official approval? There must be a moral here somewhere.

KNIGHT OUT

While we are looking for morals, how about this? Although the northern editions of a distinguished newspaper

* *Structural Insulation and Heating Systems—Values and Capital Costs*, by H. F. Broughton and G. D. Nash. Abbreviated version published in AJ June 28, 1956.



A page from Corbusier's book on his *Chapel at Ronchamp*, reviewed below by ASTRAGAL.

carried a full story about the Leith Fort competition results (see page 205) there was no mention of the assessor's name. I asked this newspaper's correspondent why he had left out Professor Sir Leslie Martin. "It was a mistake," blushed the hot news man, sucking his quill: "He was in the first paragraph, but he looked a bit top-heavy, so I cut him out, meaning to put him in a more euphonous position." If our news-hounds are going to be such perfect little literary gents we may well have to avoid getting cacophonous handles to our names.

*

But congratulations to Sir Leslie on his two - thousand - word report—a report which is much more thorough than the work of most assessors. It describes the scheme and notes its strong features, but even so it does not explain *why* it is better than the other twenty-seven designs submitted. Competitors ought to be told, if only to give them a point of departure from a decision they can hardly be expected to agree with.

WRONG CHUM?

Talking of points of departure; do you disagree with everything you have read about the chapel at Ronchamp? And do you disagree with what you

imagine the architect must think of his building? If so, here is good news for you. Corbusier himself has written a book* about his chapel, and this excellent publication (translated by Mrs. Gordon Cullen) should help you to make up your mind with whom you disagree over what and why.

*

The book is elegant, highly instructive and Corbish (the author chose the pictures, laid out the pages and designed the jacket); and it contains a decent minimum of words, mostly about the people involved. It is not the words that will tell you how Corb. wants the building to be seen. You will learn this from the way the pictures are presented and trimmed.

SO MAD AND YET SO SWEDE

If you still think the whole scheme is mad, then ASTRAGAL wishes you good luck, looks forward to chewing a hayseed with you when the annual architects' conference reaches your remote neck of the woods, and begs to remind you that around here, in the Big City, madness can even get a vote of thanks. If you retort that it takes a Hugh Casson to do such a thing, you are right. It was Sir Hugh, speaking at

the AA last week, who said: "How nice to hear a real maniac." This particular "maniac" certainly knows a hawk from a handsaw, and his madness lies well to the east of Hamlet's north-north-west. You can find the geographical location in the Strindbergian mysticism of his Scandinavian blue eyes. He is, in fact, that champion of social credit, that brilliant photographer and writer, that canal-saving friend of ASTRAGAL, Eric de Maré. And this is an Eric who doesn't believe in doing things little by little. Although he was supposed to be talking about the part architects could play in preventing Subtopia, he managed to dip into history, sociology and psychology, and to attack puritanism, industrialism, the twentieth-century, Marxism, the monetary system, patriarchy and the common (no, *not* market) man. If you once put all these right, said de Maré, you wouldn't have any Subtopia to worry about.

*

How true, and how nice to see people in the audience getting stung on their cosiest precepts. But unhappily de Maré spoke both too long and too wide to throw everyone into utter confusion. And he made the same mistake in his study of Subtopia as Basil Taylor, whose broadcast was criticised in this

*The Chapel at Ronchamp. Architectural Press. 25s.

column last week. It is splendid to plan the eradication of disease, but what happens to the poor victims in the meantime. The question remains: Can architects cure Subtopia? Forward, please, all visionaries with their feet on the ground . . .

JUST A LITTLE HARUM, MR. SKARUM

. . . and I don't mean Mr. Skarum, the head of EPA's building section. It was very nice to hear his theory, addressed to the Modular Society, about the effect of the common market on the wider acceptance of modular co-ordination. But he didn't say how it could be worked out. He simply described a golden future in which inter-European contractors, employing staff with inter-European training, would tender for projects anywhere in Europe, confident that anything would fit everything and that everybody would understand anybody.

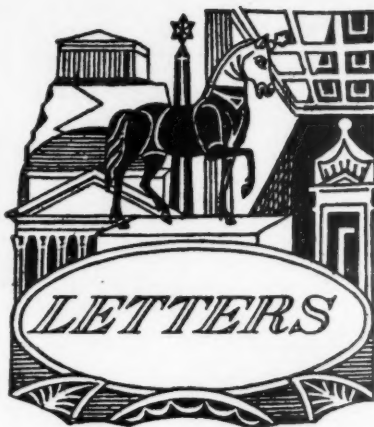
*

After the beautiful pink clouds had rolled away, the meeting pondered on the difficulty of persuading this country to adopt the metric system. Problem: If it has taken many years of fast talking not to persuade the industry to accept four inches, how fast would you have to talk to get centimetres past them?

WAKE UP AT THE BACK, THERE!

Another problem. If we are going to take some action about the common market, instead of just talking about it, haven't we got to present our goods really well when we have the chance? Several of the big firms who are exhibiting at the Brussels Fair don't seem to be bothering much. In a progress report on the Fair, given last week by the FBI, it was clear that a few of the individual stands to be built under Edward Mills's glass-hung umbrella (the British Industry Pavilion) will not be the work of well-known designers, but merely be by an exhibition contractor or by the firms' own design departments. And although Lansdell and Braven are supervising the interior display, there is to be no overall uniformity. One good stand has been publicised by the FBI—Leslie Gooday's design for Birmingham's Engineering Centre. ASTRAGAL hopes rather vainly that one or two other firms will show that Britain can not only make it, but display it as well.

ASTRAGAL



Dennis Harper,

A.R.I.B.A., A.M.T.P.I.
Professor of Building, Manchester College of Science and Technology.

Christopher Gotch, A.R.I.B.A.

W. W. J. Trollope, L.R.I.B.A.

A. N. Harris, F.R.I.B.A.

County Architect, Northamptonshire

G. A. Bendell,

The British Plaster Board (Manufacturing) Ltd.

W. E. Tatton-Brown,

A.R.I.B.A., A.M.T.P.I.
Deputy County Architect, Hertfordshire

Paul Gilbert,

Chairman and Managing Director, Gilbert-Ash, Ltd.

Peter Moro, F.R.I.B.A.

J. Walcot Burton, A.R.I.B.A.

Simplified Training

SIR,—You might have linked your two editorial headings, "Leadership of the Profession" and "Muddle of Building Education" (AJ, Jan. 23), even more closely. Building education should include all those involved in the industry, and for professional training, the way could be cleared for a much simplified system. It would require co-ordination of the syllabi and examination standards at present arranged separately by the many professional institutes which play a part in building.

A simplified system could lead to joint first year and other courses with a much easier transfer from one professional training to another, and a much needed recognition of the other man's job, responsibilities and point of view. An architect cannot just claim leadership: he has to earn it in a rapidly developing scientific and technical world, and to do this, he must start his training at least at the same level of competence as the building and engineering student, and in the early part of his training, at any rate, should join with them in acquiring a high standard and background of technical knowledge, undergoing the discipline this demands.

The many and complicated sub-divisions of vocational and craft courses in building and the bodies which organize them, are all part of the same jealously compartmented, stratified system, and the simplification could and would quickly follow that of professional training, for a simpler picture of the objectives of building education would emerge. This development,

important to the whole industry, can come into view if the architects are willing and keen to participate. If they don't, then there is a real danger that the leadership will be lost.

London.

DENNIS HARPER.

'Doctors And Chemists'

SIR,—The report of the Ad Hoc Committee makes stimulating reading and covers so many aspects that to comment at all would be merely to generalize further. However, one point to emphasize surely is not so much that of the lower standard of entry leading to debased professional status as that of numerous qualified architects who, perforce, remain as hack draughtsmen, becoming a permanent wart on the architectural nose. Why this insistence on a qualification for all? Why not create a body of assistants in relation to the qualified men analogous to that of chemists to doctors?

Very shortly the profession must face the fact that there exists an enormous group of embittered qualified men with little hope of reaching positions of responsibility.

Next, the RIBA itself must alter its own conception of its function. What hope is there of improving the standard of architecture by education, etc., when the Institute tries to be impartial over issues of design. It is ironical that students may be failed for submitting traditional designs at the same time as the president may be recommending the name of a traditional architect to a layman. No wonder the status of Fellow has fallen into disrepute, no wonder the profession is split, no wonder so many opportunities for fine architects are thrown away, and no wonder the status of the architect is low in the eyes of the public.

The Institute must stand firmly for progressive architecture with the PRO showing the public what services can be given by the profession. With the cobwebs cleared from the Institute, then we can start on the other issues with better assurance that the splendid work already done by Mr. Sheppard and his committee will not be wasted.

CHRISTOPHER GOTCH.

London.

Caste Out!

SIR,—You are so unkind to some of the poor devils who go to the schools! Not all of them stay the course, are those that drop out to have nothing to show for all the trouble and agony they have endured?

Not all stay the course, not all would wish to do so if only we would adopt a more humane and reasonable attitude. Many wish to be part of architecture without aspiring to be chartered architects. Architecture uses them but pretends that they do not exist. They come to us and we have nothing to offer but the Recognized Course, there is nothing for them but to try to stick it out until eventually they painfully emerge as sickly and reluctant A.R.I.B.A.s.

Have a heart!

W. W. J. TROLLOPE.

London.

The Editors reply: While largely agreeing with the second part of Mr. Gotch's letter, we think that his reference to doctors and chemists is misleading if, like Mr. Trollope, he is suggesting a lower qualification for failed architectural students. Chemists are not doctors who have failed their examinations, and architectural draughtsmen, if they are to have a different qualification, should not be failed architects but successful draughtsmen. Perhaps this is what Mr. Gotch means. It would be interesting to read a description of the work such draughtsmen should undertake and an estimate of the number required.

Some (Ad Hoc) Facts

"Myself when young did eagerly frequent Doctor and Saint, and heard great argument About it and about, but evermore came out By the same door as in I went."

SIR.—Let us review some facts:

I attended the General Meeting of the RIBA where the question of assistants' salaries was raised. As it was my first general meeting, I was dismayed at the representation. There were only some 50 or 60 people there. Given that the numerical statistics in the *Kalendar* are correct at 24,276 (on page 720) the representation at the Annual General Meeting was .0025. In addition to this the pleas made were not only in respect of the salaried assistant architect in Local Government but in respect of all salaried assistants, and then only by two or three speakers.

We already have far too many organizations—the RIBA, AA, IAAS, ARCUK, County Architects' Society, the Borough Architects' Society, the joint society of both, and now I suppose we are to have an assistant society divided into two bodies, private practice and local government service. How many societies have they got in Western Germany? Because they do seem to get better results with less discussion.

The Ad Hoc Committee would further the interests of the profession generally by a well organized publicity campaign. The days of genteel patronage in architecture are past, and it cannot be considered a parallel to the legal or medical profession. People go to a doctor or lawyer when they have a problem of some sort, and it is understandable that competition in these circumstances is undesirable. When clients want to build, however, it usually means success and expansion and in this hard commercial world of today it ought to be brought home very forcibly and continually to the prospective developers where they can obtain the best value for money. Therefore, I think some large scale publicity is overdue, and by publicity I do not mean some cleverly arranged screens with the usual rather uninteresting arrangements of photographs.

An interesting side-light on recruitment in the profession is published weekly at the back of your *JOURNAL* in the adverts. Before the war and after the war the following phrase was often used: "training in a recognized school of architecture would be an asset or preferred." It never appears now but experience is called for in its place. Is the opinion of employers changing and is recognized training deteriorating?

The Ad Hoc Committee had started some general enquiries into Planning Controls. From what I have seen of various planning controversies over the last year, Planning Control Committees serve some useful purpose in occasional attempts to protect the client from the extremes of his architect.

A. N. HARRIS

Northampton.

Sweet Uses Of Advertisement

SIR.—At least one of your advertisers cannot allow Mr. R. Furneaux Jordan's letter (January 23) to remain unanswered. In it he makes the sweeping and, to many people, quite ignorant statement "All advertising is a conspiracy against society." Really, from a Fellow of a Royal Institute of one of the ancient arts, this is quite impossible.

The dictionary definition of the word "advertisement" reads: "the act of advertising or making known"; "a public notice in a newspaper or periodical." Shakespeare—our national leader in another art—uses the word "advertising" to mean "attentive." The word comes to us from the Latin "advertere," meaning "to turn to," and

in its old French form "avertir" it means "attentive"—"heedful."

It seems to me, therefore, that if Mr. Jordan will be "attentive" and "heedful" of advertisements, his knowledge will grow and his practice of his own art be enriched by the knowledge so acquired. That many architects do seek to make use of knowledge given to them by your advertisers is amply proved by the very considerable number of your readers—old and young—distinguished in their chosen profession and unknown—who seek more knowledge by the use of your most valuable enquiry service.

Let Mr. Jordan—and the few others who may think like him—study your advertisers' announcements, and we shall surely get better buildings, more and more useful for the purposes for which they are erected, and more fitting to take their place amongst our national art treasures.

G. A. BENDELL.

London.

"On Jordan's Bank . . ."

SIR.—My old friend, Furneaux Jordan, scolds me for praising a commercial enterprise that subsidized a book on architecture. He is, of course, entitled to have his opinion about the wickedness of advertising and to avert his eyes from a Guinness poster or a paint firm's pin-up girl.

But when he turns his back on our naughty civilization and condemns "Prestige Publicity," few architects will feel inclined to follow him into the desert. How much do we, as architects, owe to this factor?

After all, in the last analysis, isn't most of the architecture we love directly due to a desire on the part of the patron to enhance his own reputation, viz.: Florence and the Medici, St. Peter's and the baroque churches of the counter reformation, Versailles, the Lever building, or General Motors Technical Centre, and are these buildings any the worse for it?

W. E. TATTON-BROWN.

Hertford.

The Intergrid System

SIR.—J. M. Richards, in his "Criticism" in a recent issue of your *JOURNAL*, mentions that there is only one instance known to him of the use of this system to a height of more than a couple of storeys. We should be grateful if you would permit us to record that "Intergrid" was originally designed for four-storey construction, and that almost every "Intergrid" project built, being built, or in design (now more than 50 in number) includes three- or four-storey blocks.

We shall shortly release "Intergrid" Mark III, with which structures up to 10 storeys in height can be designed by the architect.

PAUL GILBERT.

London.

Elevational Control

SIR.—A recent case, which received more publicity than usual as it involved a well-known personality, helped to show up aesthetic control of architecture as an intolerable practice. The case for aesthetic control and how it can work in practice has, to my knowledge, never been made. Any control based on theories, however praiseworthy, which in practice depends on the personal prejudices of those empowered to enforce it, is unworkable.

For the following reasons alone the case against aesthetic control in any shape or form is overwhelming:

1. It stifles architectural expression.

2. It encourages uniformity and discourages contrast.

3. It causes hardship to those affected: client and architect.

4. It usually discriminates against those who are exercising their traditional right of wanting to live in a house of their time.

5. It gives undue power of judgment to officials without aesthetic training.

6. It smacks of Totalitarianism and is, in fact, a characteristic adjunct of such a form of government.

7. It is humiliating to the architect and makes nonsense of his professional status.

8. It puts those architects into an invidious position who lend themselves to the distasteful task of sitting in judgment over their colleagues.

9. It rarely stops bad conventional building.

10. It often stops good unconventional building.

What is the case for aesthetic control?

PETER MORO.

London.

Maintenance Costs

SIR.—There is one aspect of professional practice which does not concern the private architect so much as the salaried architect working for industry. This is the forecasting of maintenance costs. The industrial architect is frequently asked to give figures of maintenance and unless he has maintained records over a number of years it is not possible to be precise.

I appreciate that the type of construction has a considerable effect on maintenance but industrial buildings generally are not expected to have the same life as public buildings and therefore all fall roughly into one class.

Have any of your readers with longer experience and records than mine been able to achieve any standard method of assessing the cost of maintenance and repairs over a period of years?

At present I am working on a proposal that as each new building goes up some definite percentage of the capital cost should be allocated in future years for its structural and decorative repair. My own records do no go back far enough to give any firm basis from which such a percentage can be calculated. I rely on your readers' experience and generosity.

J. WALCOT BURTON.

London.

DIARY

Cambridge Development Plan—Does it Work? Talk by W. L. Waide, County Planning Officer of Cambridgeshire. At the Planning Centre, 28, King Street, W.C.2. 6.30 p.m. FEBRUARY 10

Spanish Castles. Exhibition of photographs at the RIBA, 66, Portland Place, W.1. Monday to Friday 10 a.m.—7 p.m.; Saturday 10 a.m.—5 p.m. Admission free. FEBRUARY 15 to 28

Top-level Management Appreciation Conferences. Two three-day conferences to be held by the LMBA at Sundridge Park Management Centre. Applications to the LMBA, 47, Bedford Square, W.C.1. FEBRUARY 24 to FEBRUARY 26 FEBRUARY 27 to MARCH 1

The Future Ownership and Administration of New Towns. Talk by Mrs. E. Layton. Chairman: Sir Parker Morris. At the HC, 13, Suffolk Street, S.W.1. 6 p.m. FEBRUARY 26



FIXED PRICES

"Signal Success"

The Minister of Works, the Rt. Hon. Hugh Molson, M.P., speaking at the annual dinner of the National Federation of Building Trades Employers in London last week, said:

"Public debate centres at the moment on the struggle against inflation and whether the Government is fighting to win and is winning. The building industry which, in 1956, converted £1,450 million, or more than half the total National Savings, into new works and buildings, is in the forefront. I have to tell you that there is a trifle less work in prospect before you than there has been, but that is not a bad thing. In 1956, your industry was over-burdened, materials and labour were scarce and wages and costs rose, with the natural effect upon prices—all the typical signs of inflation. We must all desire greater stability, even if you were not entirely pleased to hear the ex-Chancellor of the Exchequer say that the Government's policy aimed at 'making it harder both to earn profits and get wage increases.'"

The re-introduction of firm price tendering which, with the support of my colleagues in the Government, I announced in April last, has been most encouraging. Since that month, there has been no rise at all in housing material prices, and only a rise of 1 per cent. in the price of building materials. It is surely of good augury that within the last few days, the firm of John Laing have put in a successful firm price tender of about £15 million for the first 58 miles of the London-Yorkshire motorway, and plan to complete it by October, 1959. This is a signal success for our policy. They would hardly have made such a tender if they had not thought that the Government means to win its struggle against inflation, and is likely to be able to hold prices fairly steady for the next 18 months.

RIBA

Local Government Society

A memorandum on this subject, with a covering letter from R. H. Sheppard, Chairman of the Ad Hoc Committee, was recently sent to all local authorities in the United Kingdom which have an independent Chief Architect. This memorandum outlines the circumstances which suggest that the formation of a Local Government Architects' Society is desirable; offers some guidance on the Society's likely functions, finances and membership; and ends with a

few questions to potential members about their degree of support.

The Society would exist primarily to further the interests of assistant architects in local government, and Chief Architects, to whom the circular was addressed, have therefore been asked to pass it on to their staff. Architects concerned are asked to send the RIBA a collective answer to Part III of the memorandum as soon as possible. Any authority which for some reason has failed to receive a copy of the memorandum is asked to apply for one to the Secretary for Professional Relations, RIBA.

COLUMN GROUP

"End of the Modern Movement"

Duncan Stewart reports a talk by Tom Mellor on "The End of the Modern Movement," given to the "Column Group" at Attingham Park, near Shrewsbury: Attingham, that serene classical essay by George Steuart (with additions by Nash) lay mantled in deep snow, but gave a warm welcome to around 70 keen members of the Group, some of whom had travelled from as far as Wolverhampton.

The speaker had two main reasons for choosing his theme. "First," he said, "somewhere between the age of 40 and 50 most architects reach a point of balance when the ideas and ideals they collected as students are being knocked about rather badly by experience and responsibility, and yet the contest is still roughly even—there is still time to take a sort of last look round before the fog of cynicism and bitter experience and administrative expertise descends.

"Secondly, architects of my generation were trained during the 30's, when the schools changed finally from neo-classicism to functionalism. They are now of an age when they are becoming responsible for the majority of building, so that their work is becoming our standard architecture. They are therefore the first complete generation to accept the modern movement, and to have the opportunity of putting its methods and techniques into effect."

He then began to examine the results in the light of what he had expected as a student. "Corbusier's sophisticated Parisians sitting on their elegant wrought iron chairs on a roof terrace or playing tennis between glass and concrete cliffs, turn out to be Coventry mechanics mending their cars on the tarmac behind the contemporary fish and chip shop—or Glasgow shipwrights pushing prams on a wet Saturday afternoon between their 'no-fines' concrete towers." The results were depressing, he admitted, but disillusionment had led to a considerable amount of rethinking, chiefly, however, about means rather than ends. Modern building research was proving many of the machine-made and synthetic methods and materials to be most unsatisfactory, and yet there was no turning back now.

At this point he flung the bucket of cold water on us. "... As we thumb through back numbers of the *Architectural Review* or the *Forum* or *Domus* or look year after year at Theses in Schools of Architecture, we must, surely, sooner or later realize that the modern movement has stopped." There was an uneasy movement in the room as we bogged at this idea, but he rammed the point well home by dragging in front of us the major figures of the modern movement—Corbusier, Gropius, Mies, Frank Lloyd Wright, Asplund, Aalto, Freyssinet, Maillart, Nervi and others, and pointing out that the average age must be well over 70 and indeed some of them were dead. Their successors, the regional groups such as the



From left to right: John E. A. Baikie, Michael Shaw Steward and Frank Perry, winners of the 750-guinea first prize in the competition for a housing development at Leith Fort, Edinburgh. All are assistants with the Edinburgh firm of Rowand Anderson, Kininmonth and Paul. Mr. Baikie, who has been with the firm for eight years and is one of the two principal assistants, graduated at the Edinburgh School of Architecture in 1948. He is 34. Michael Stewart, 33, read classics at Cambridge (he is an M.A.) before going to the Architectural Association; he is now doing his year of post-graduate professional practice. Frank Perry, 25, graduated at the Manchester University School of Architecture, and qualified recently. Mr. Baikie has entered for one competition previously; neither of his associates has entered for a competition before.

Scandinavians, the Italians, the Bay Region people, the Hertford team, the LCC team, etc., were merely filling in or refining the original developments of the masters. The rest of us, the vast majority, were just filling in. In literature and art, too, the revolution was over.

In architecture the swing of the pendulum from romanticism to classicism and back again was dying away, the impetus had gone and only a dither was left. The reason lay probably with changes in the structure of society. "A comparison between Sweden and Italy or this country and Brazil suggests that this is correct—on the one hand, fair shares and a dull but worthy architecture—on the other, violent contrasts of wealth and poverty and the most stimulating modern architecture in the world... if (in this country) we are looking for the flowering of a new Renaissance, and I think this is what the most sensitive and optimistic of my generation expected 20 years ago—we are likely to be disappointed."

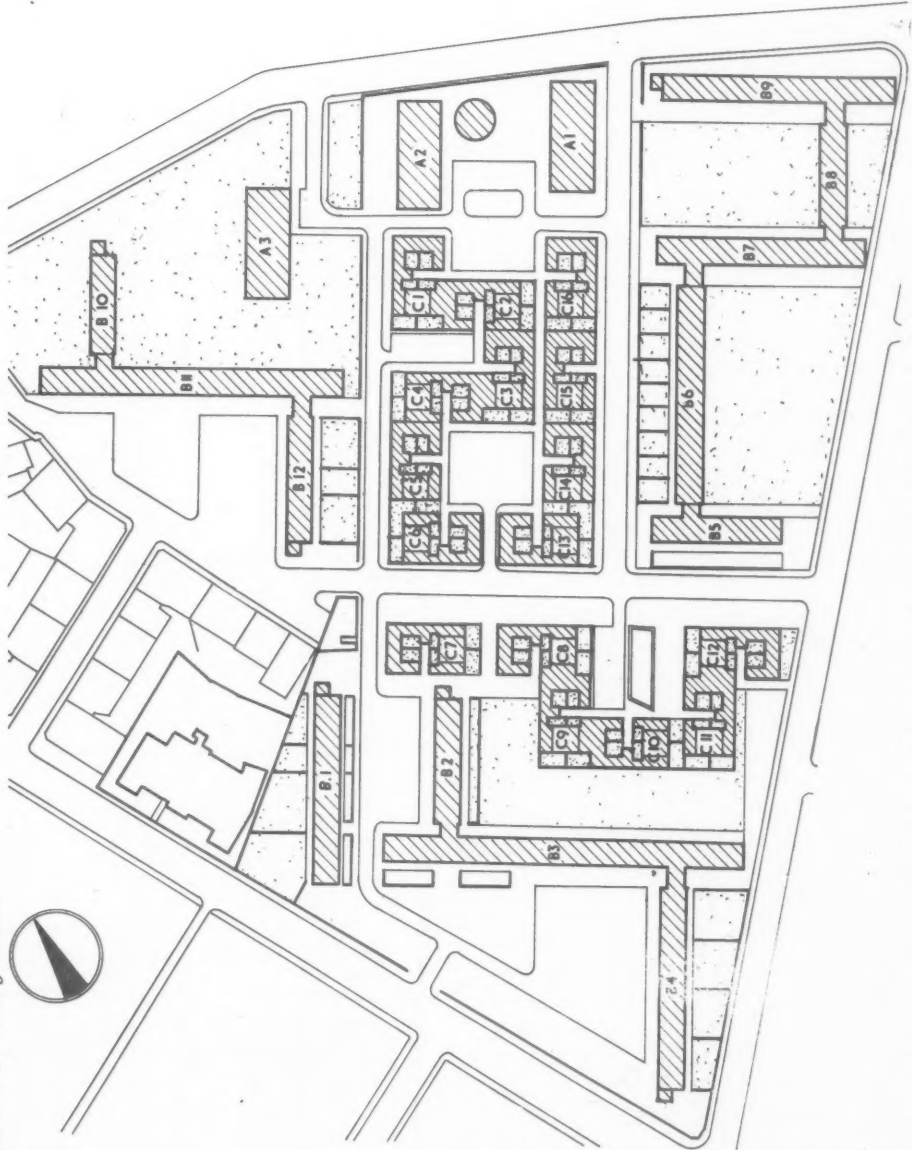
It seemed, according to Mr. Mellor, that technics must take precedence over art and architects must come to terms with the new social pattern of our times. We must beware of a new conservatism, the fear of what we had done and face up to the aesthetic problems posed by curtain walling for example. "The machine has started to run away with us and there is real danger of a second parting of the ways, just as early in the 19th century, architects turned away from the machine and the functional classicism of 'Regency' so they are likely to turn in disgust from 'Sunspan' or 'Poppocrete' or 'Glitterflex'..." We should try to control or rationalize our new world of often dubious materials and techniques rather than shy away from it. "We may not be starting a new Renaissance, but we may well be working out a new functional tradition."

THE LEITH FORT HOUSING COMPETITION RESULTS: THE ASSESSOR'S REPORT

Twenty-eight competitors presented schemes. I think that the Committee ought to know that the standard of entry achieved by these submissions was, in my opinion, high. The competitors as a whole had made careful and, in many cases, very detailed studies of the problem: some very good sets of drawings were prepared, and the reports included clear description and considered statements of cost. The problems set by any competition for urban housing are not easy to solve. In this case the competitors had at their disposal an excellent site; but the site itself was not without its complications. Competitors had to consider the possibility of retaining certain existing buildings. The scheme had to be designed so that it could be built in stages and on irregular areas of land. In addition, the site slopes from south to north, and the placing of buildings in relation to this was of considerable importance. The required density of 140 people to the acre had to be achieved and the accommodation had to be provided in types of dwelling which were related to each other in fixed percentages. This last requirement is in itself a severe exercise in planning. Many different ways of relating dwellings to each other can be devised and, at this particular density, the whole question of the relationship between high and low buildings, and all the argument that can centre around this, is bound to arise.

It is not surprising, therefore, that competitors have held widely differing views about the way in which the accommodation should be dispersed. Some have stressed the importance of the two-storey house with its own private garden as an element in the scheme. Others have welcomed the opportunity to build high, and have emphasized certain advantages in this solution. Several schemes have contained points of particular interest. The final assessment has involved an attempt to weigh in the balance a number of different factors and considerations. Certain matters of fact, however, can be accurately assessed; for example, the total acreage of 14.984 acres at 140 persons to the acre and at a specified number of people per dwelling produces 645 dwellings as the target. The Fort area of 8.154 acres, available in the first stage, results in a target of 351 dwellings. Schedules of rates and estimates of cost were requested, and I have had the advice of a leading firm of quantity

The prizewinners in the competition held by Edinburgh Corporation for a housing development at Leith Fort are as follows: First (750 guineas); John E. A. Baikie, Michael Shaw Stewart and Frank Perry, Edinburgh. Second (500 guineas); Robert Matthew and Johnson-Marshall, Edinburgh. Third (350 guineas); Rachel Wilson, Albert Abbott and Justin Blanco White, Edinburgh. The assessor was Professor Sir J. Leslie Martin, with Alexander Steele, the City Architect, as consultant. The assessor's report to the Housing Committee is as follows:



Site plan of the first prize-winning design by John Baikie, Michael Shaw Stewart and Frank Perry.

Leith Fort Housing Competition:

FIRST PRIZE-WINNING DESIGN BY BAIKIE, STEWART AND PERRY

surveyors in assessing these matters. Mr. Alexander Steele, the City Architect, and his staff have assisted me throughout in all matters of standards. I should mention that a number of competitors have adopted internal bathrooms. In making my assessment I have assumed this to be a possibility which can be justified in certain types of plan.

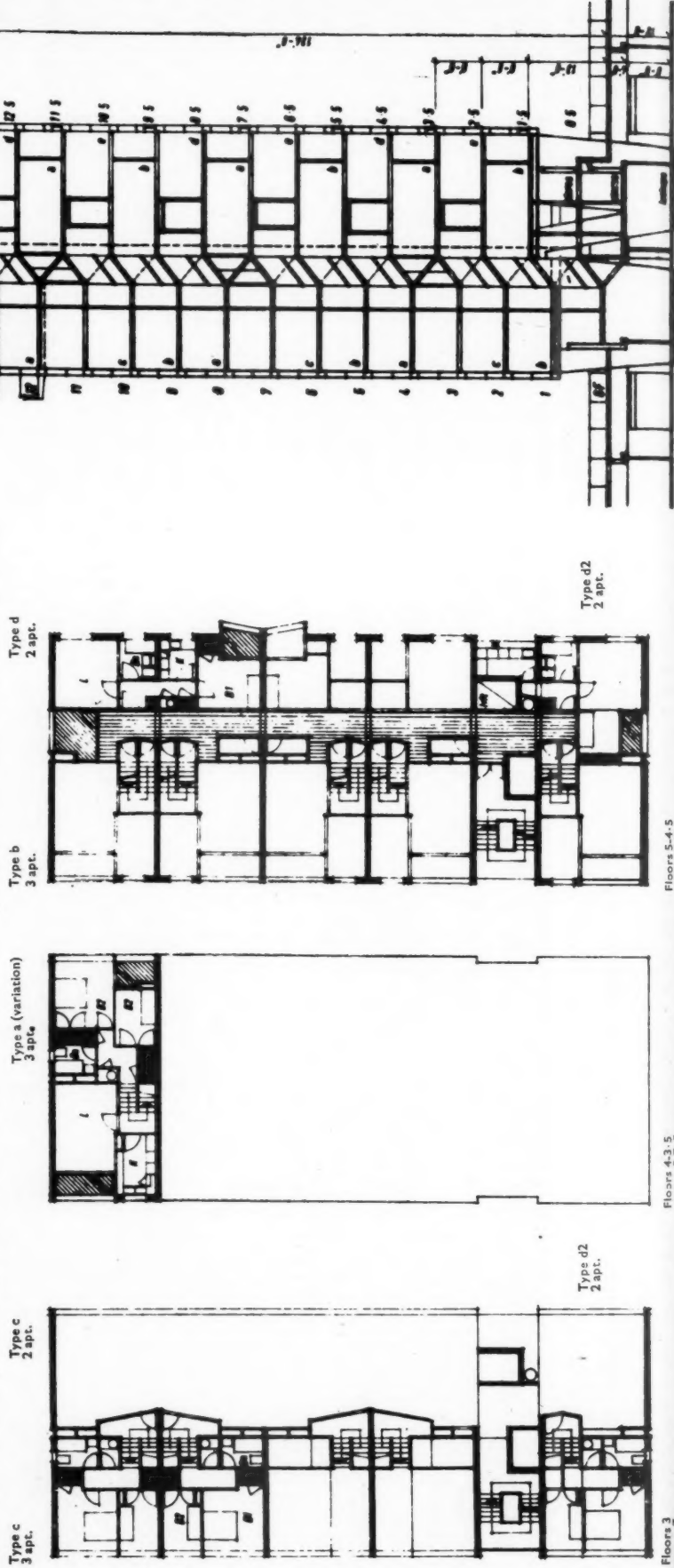
ASSESSOR'S REPORT: this competitor has centred his layout around a tightly planned group of houses built on the site of the old Fort, in the first stage of the scheme. Well sited to the north of this are three 14-storey blocks planned with internal access. Around the perimeter of the site are placed seven-storey spine buildings set in open space. These lines of spine buildings, broken on the south

side, are carefully related to each other and give the main architectural scale to the development. They pick up a relationship with the height of the tenement buildings in Hamilton Street. The road pattern runs into the heart of the scheme, and the general character at the centre is urban and is laid out with paved areas and courts. Grass and planting, in the main, will occur on the periphery of the site and will be related to the spine buildings.

The scheme divides easily into the three phases. The first stage, built on the Fort site, forms a development which has architectural completeness. The road system can readily be made accessible from existing roads and the layout contains a well balanced variety of dwellings in the

correct proportions. The total number of dwellings for complete development (641) compares well with the target figure of 645. Three hundred and thirty-seven dwellings in the first stage is something below the target. Three hundred and forty-one of the total number of dwellings are within four floors of ground level.

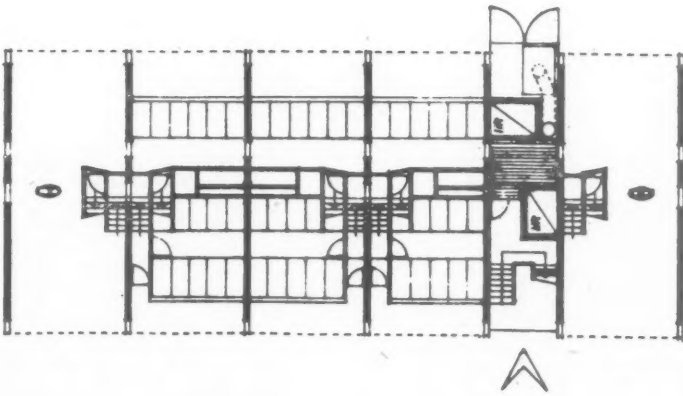
The layout is orderly and controlled: the scale of the



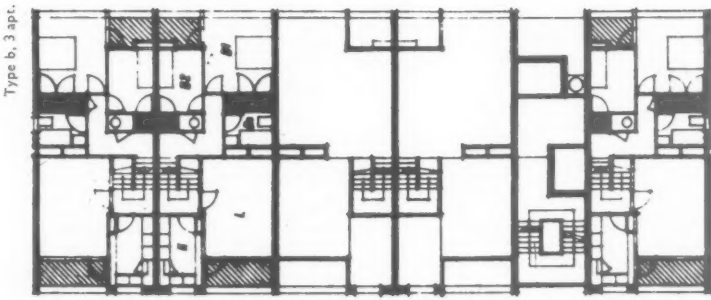
Floors 3
BLOCKS A1, 2, 3.

Floors 4, 5
BLOCKS 2, 3.

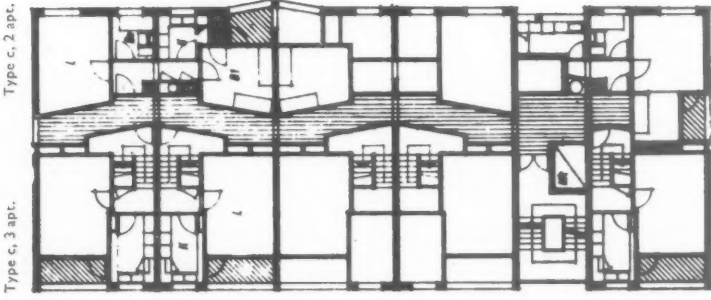
Floors 5, 6
BLOCKS 2, 3.



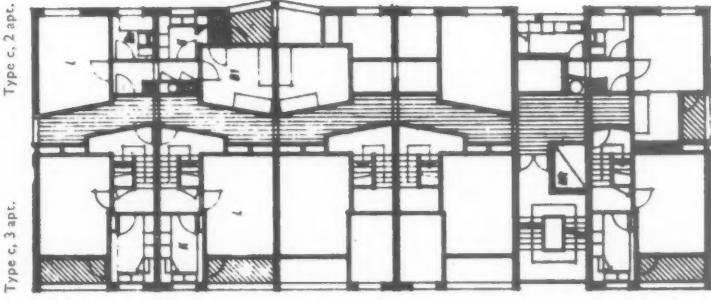
Floors, ground-0'5
entrance and stores



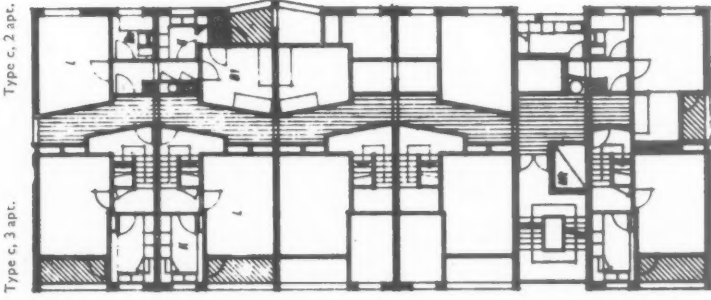
Floors 1-1'5
5-5'5
9-9'5
13-13'5 (variation)



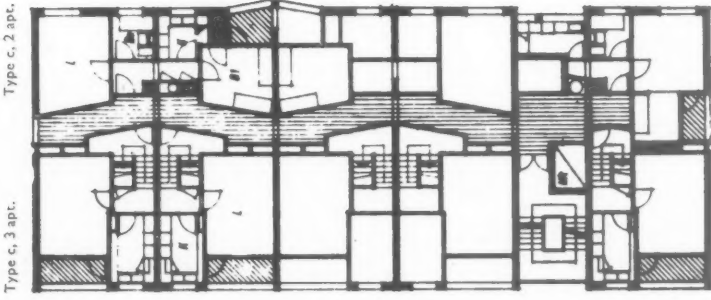
Floors 2-2'5
6-6'5
10-10'5



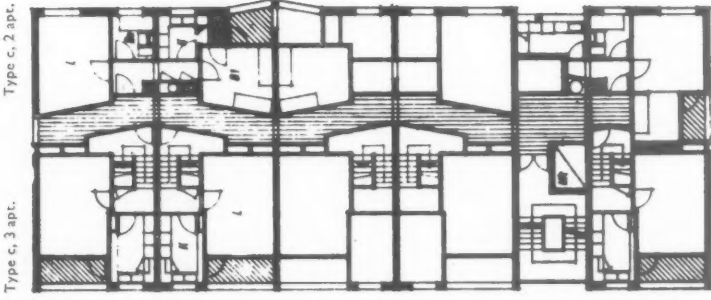
Floors 2-2'5
6-6'5
10-10'5



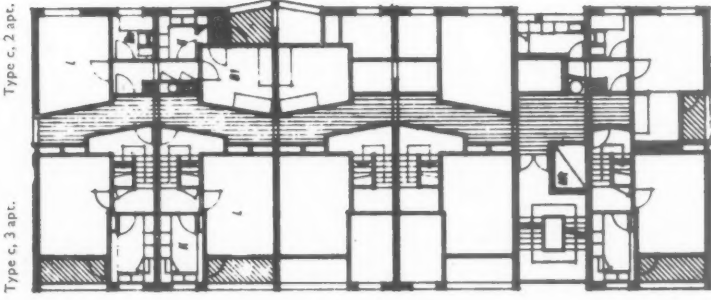
Floors 2-2'5
6-6'5
10-10'5



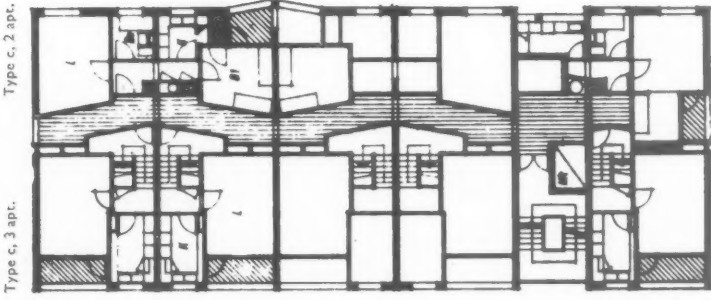
Floors 2-2'5
6-6'5
10-10'5



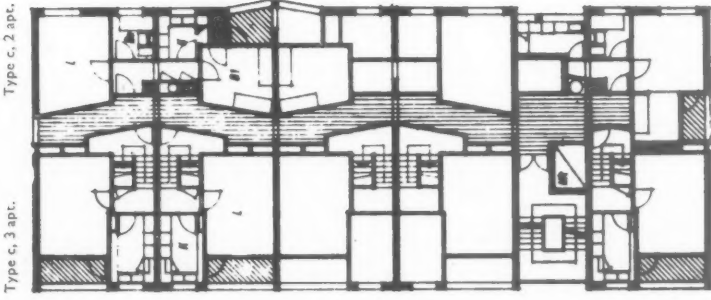
Floors 2-2'5
6-6'5
10-10'5



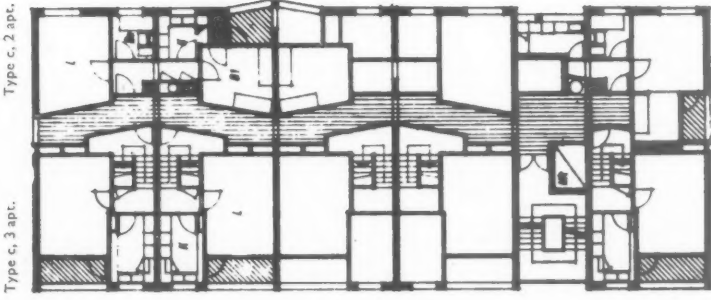
Floors 2-2'5
6-6'5
10-10'5



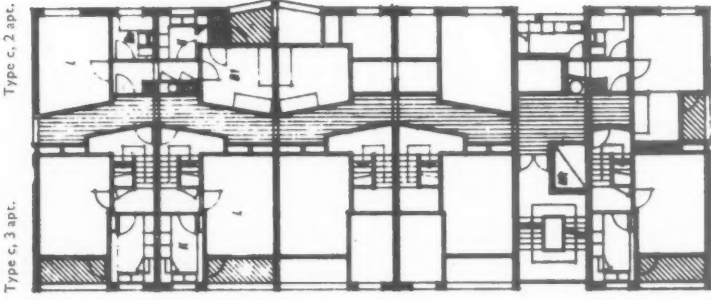
Floors 2-2'5
6-6'5
10-10'5



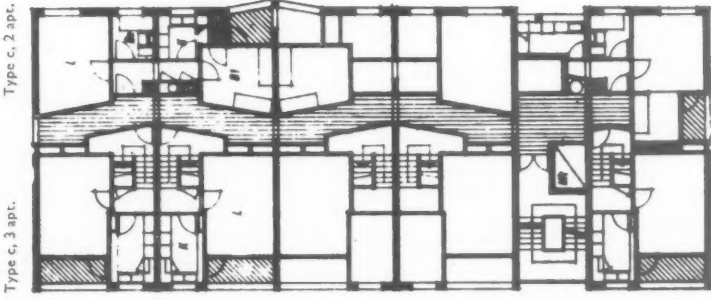
Floors 2-2'5
6-6'5
10-10'5



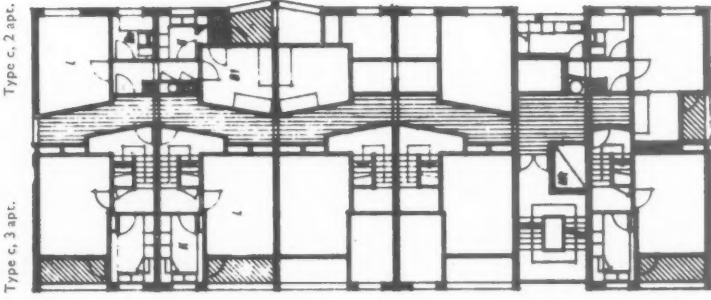
Floors 2-2'5
6-6'5
10-10'5



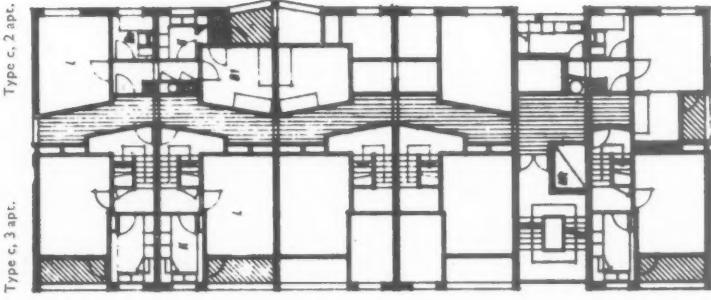
Floors 2-2'5
6-6'5
10-10'5



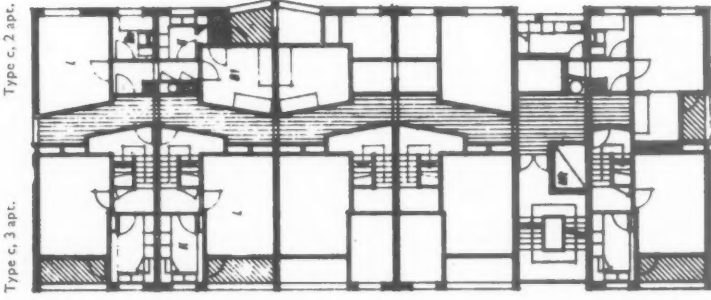
Floors 2-2'5
6-6'5
10-10'5



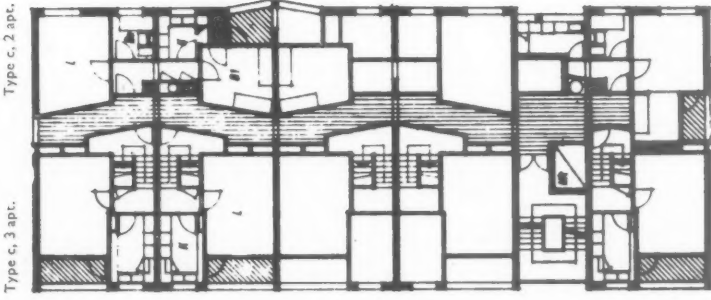
Floors 2-2'5
6-6'5
10-10'5



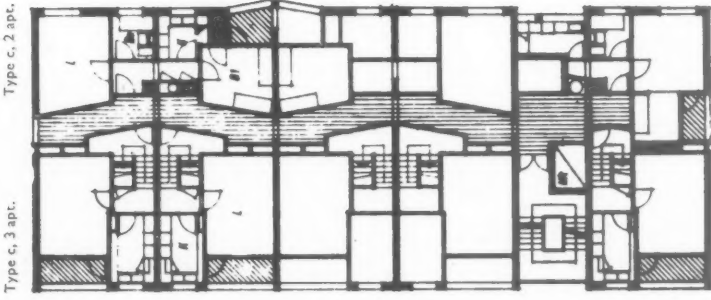
Floors 2-2'5
6-6'5
10-10'5



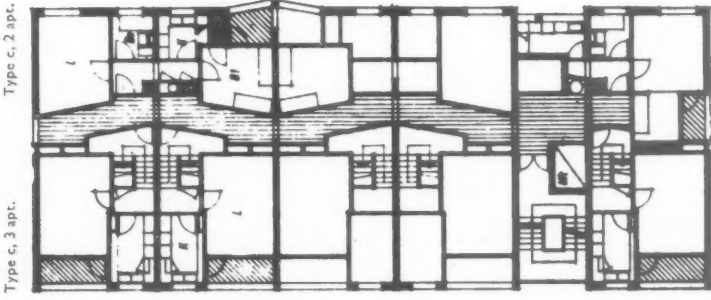
Floors 2-2'5
6-6'5
10-10'5



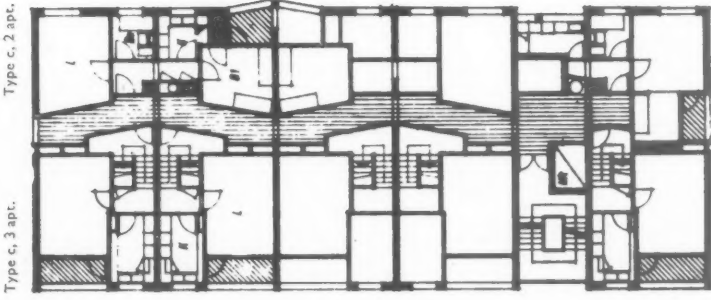
Floors 2-2'5
6-6'5
10-10'5



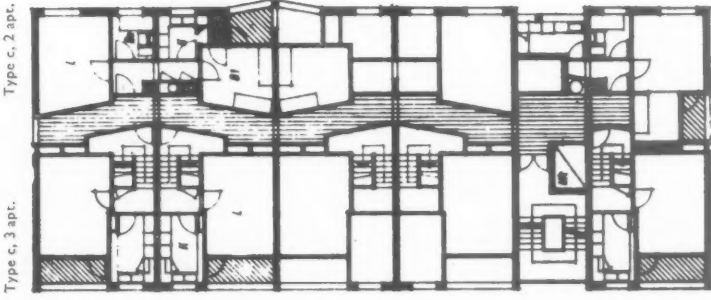
Floors 2-2'5
6-6'5
10-10'5



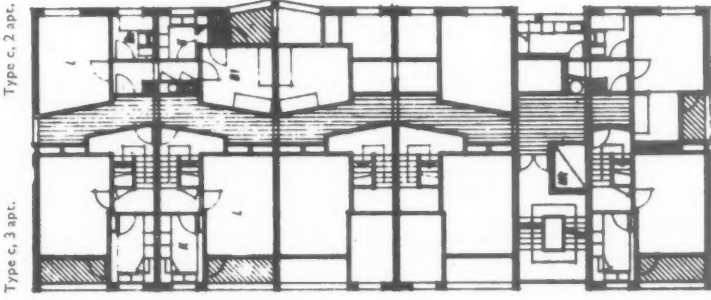
Floors 2-2'5
6-6'5
10-10'5



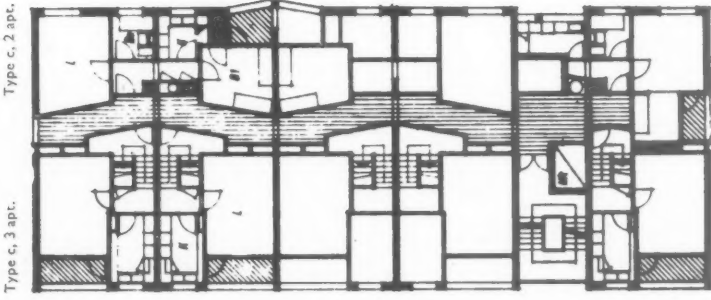
Floors 2-2'5
6-6'5
10-10'5



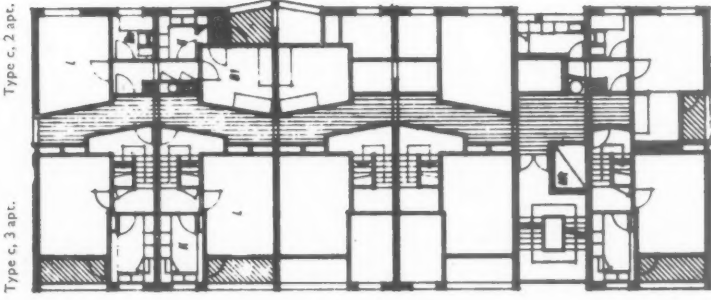
Floors 2-2'5
6-6'5
10-10'5



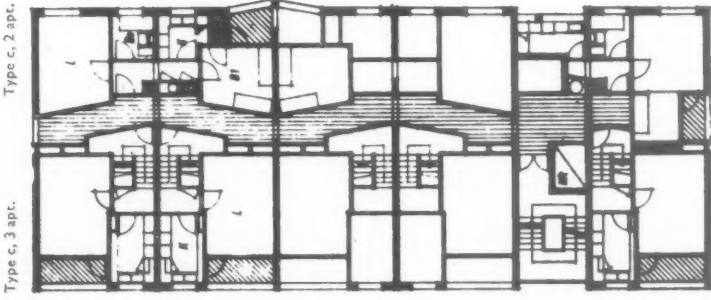
Floors 2-2'5
6-6'5
10-10'5



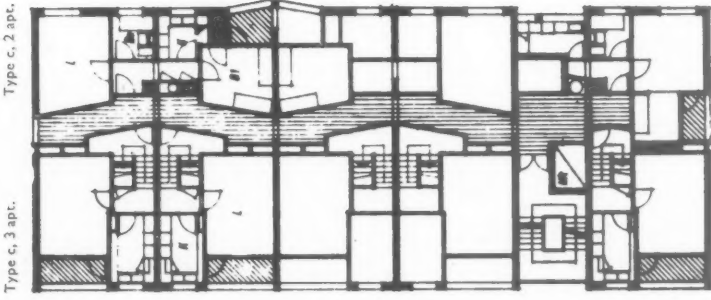
Floors 2-2'5
6-6'5
10-10'5



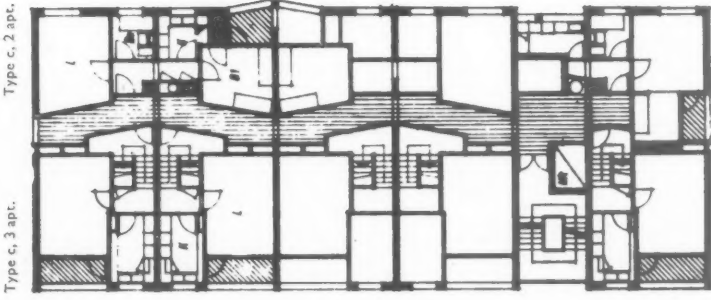
Floors 2-2'5
6-6'5
10-10'5



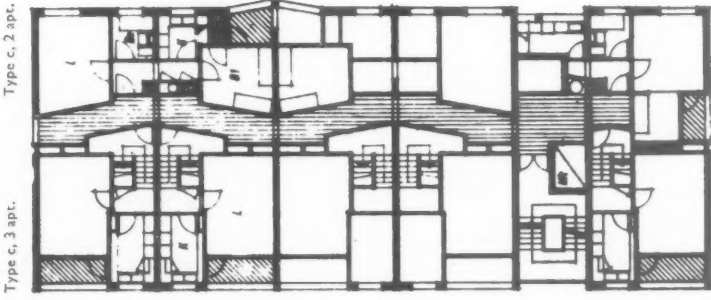
Floors 2-2'5
6-6'5
10-10'5



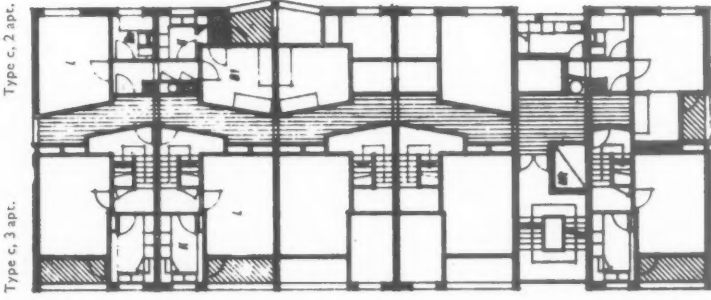
Floors 2-2'5
6-6'5
10-10'5



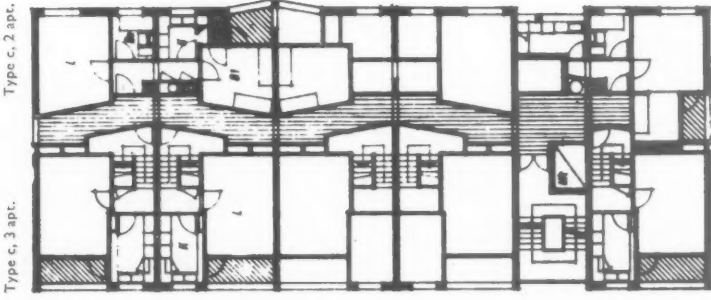
Floors 2-2'5
6-6'5
10-10'5



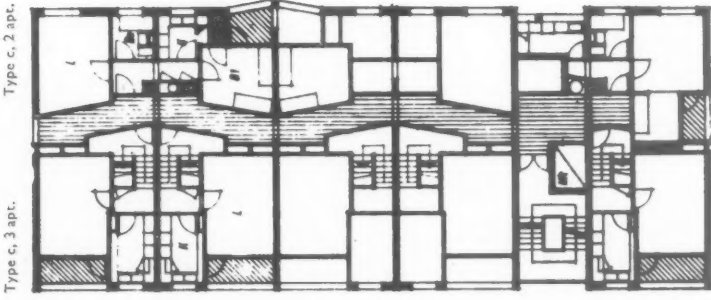
Floors 2-2'5
6-6'5
10-10'5



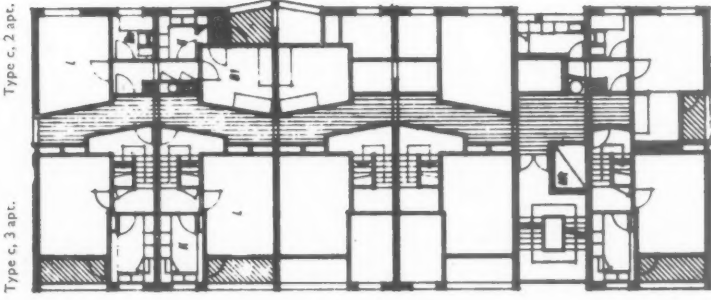
Floors 2-2'5
6-6'5
10-10'5



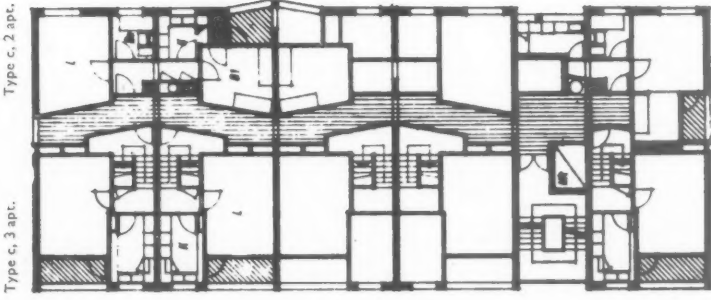
Floors 2-2'5
6-6'5
10-10'5



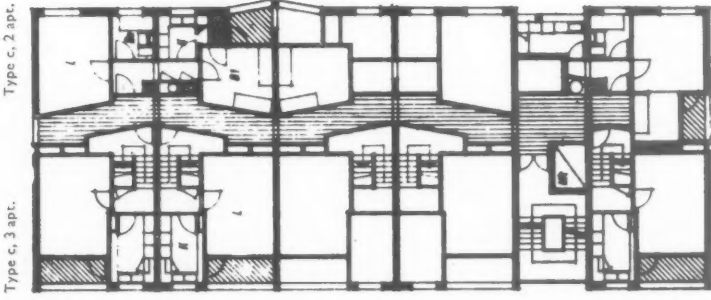
Floors 2-2'5
6-6'5
10-10'5



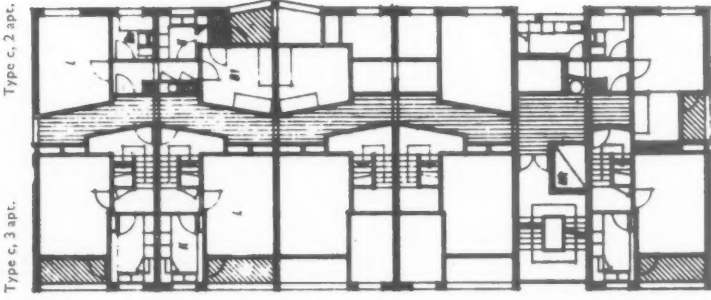
Floors 2-2'5
6-6'5
10-10'5



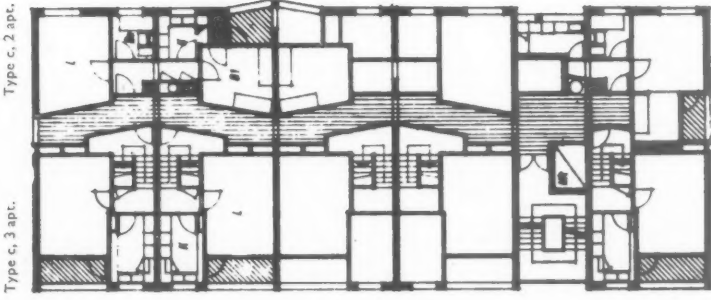
Floors 2-2'5
6-6'5
10-10'5



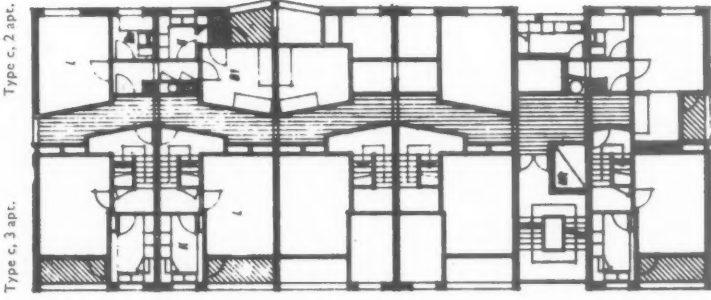
Floors 2-2'5
6-6'5
10-10'5



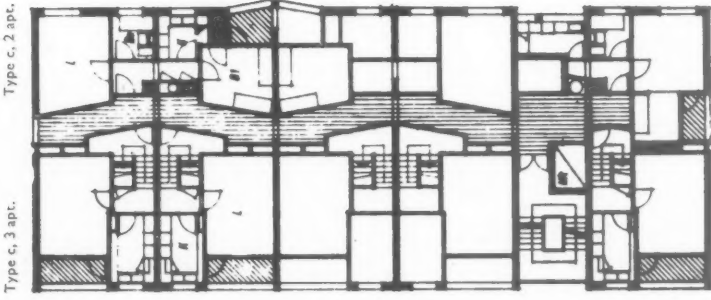
Floors 2-2'5
6-6'5
10-10'5



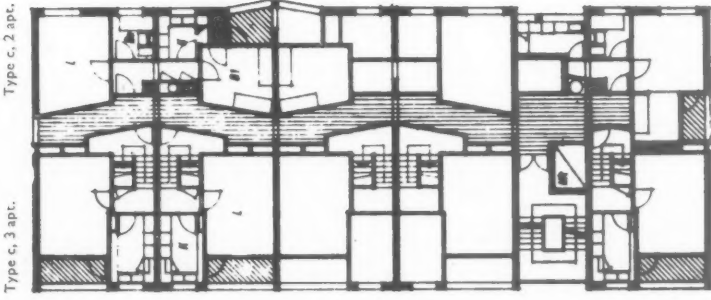
Floors 2-2'5
6-6'5
10-10'5



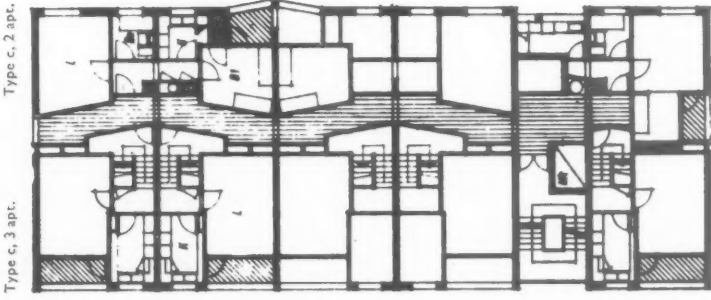
Floors 2-2'5
6-6'5
10-10'5



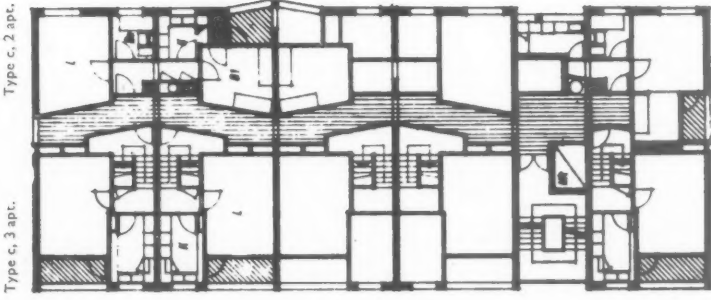
Floors 2-2'5
6-6'5
10-10'5



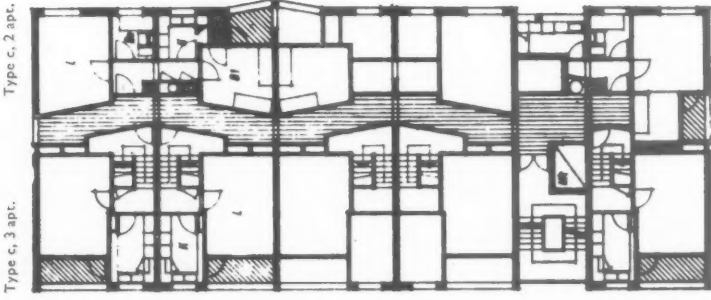
Floors 2-2'5
6-6'5
10-10'5



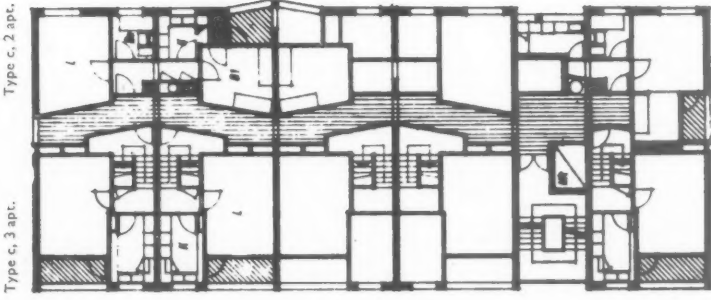
Floors 2-2'5
6-6'5
10-10'5



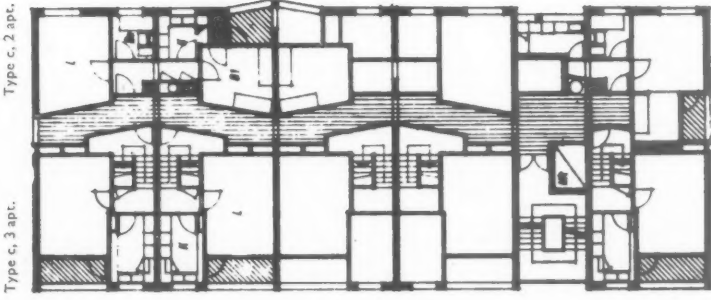
Floors 2-2'5
6-6'5
10-10'5



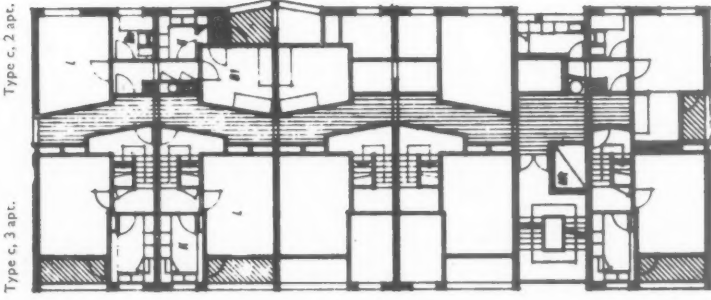
Floors 2-2'5
6-6'5
10-10'5



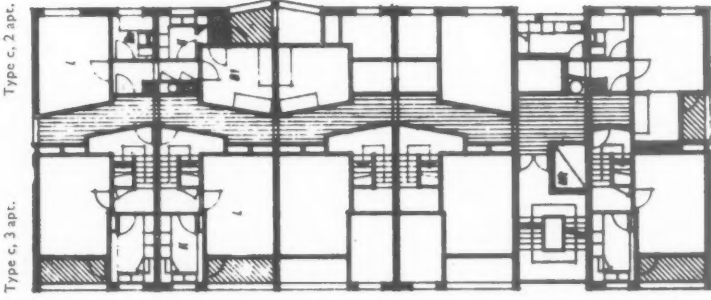
Floors 2-2'5
6-6'5
10-10'5



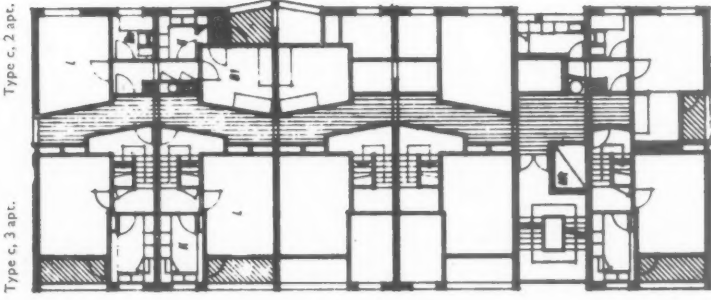
Floors 2-2'5
6-6'5
10-10'5



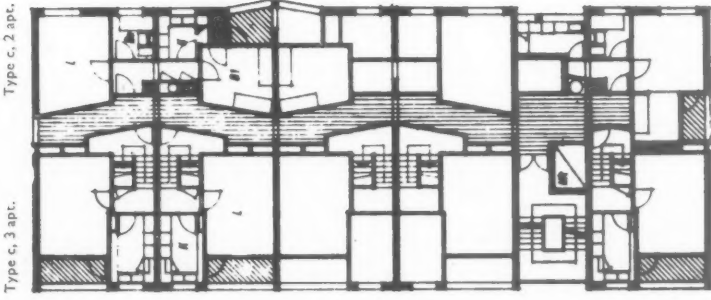
Floors 2-2'5
6-6'5
10-10'5



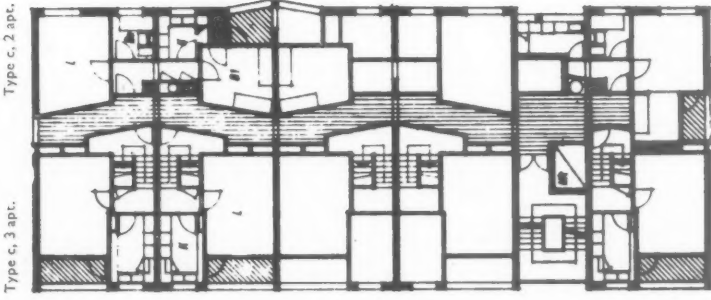
Floors 2-2'5
6-6'5
10-10'5



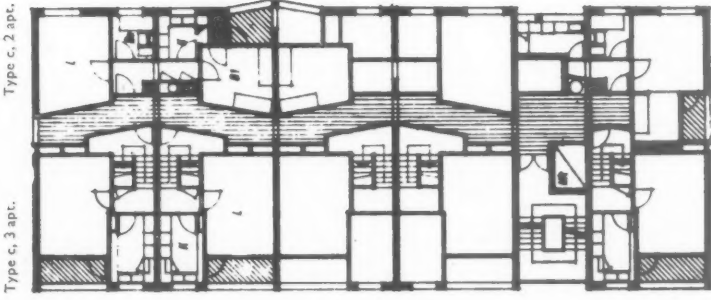
Floors 2-2'5
6-6'5
10-10'5



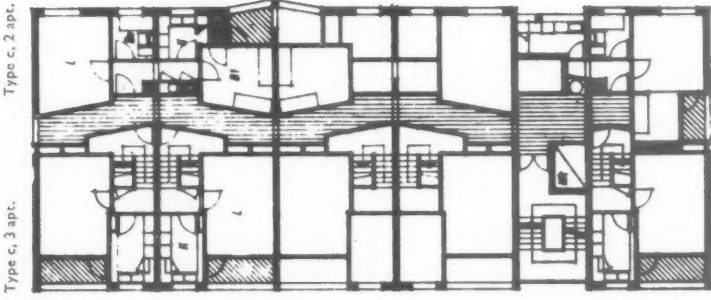
Floors 2-2'5
6-6'5
10-10'5



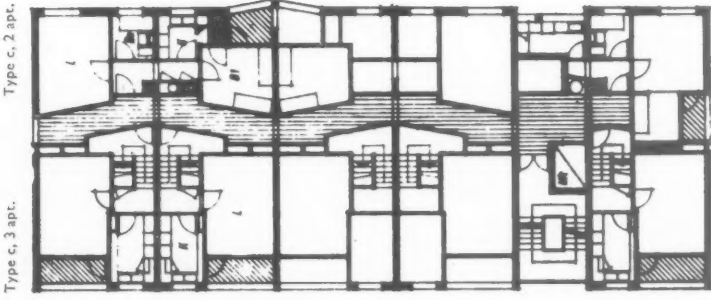
Floors 2-2'5
6-6'5
10-10'5



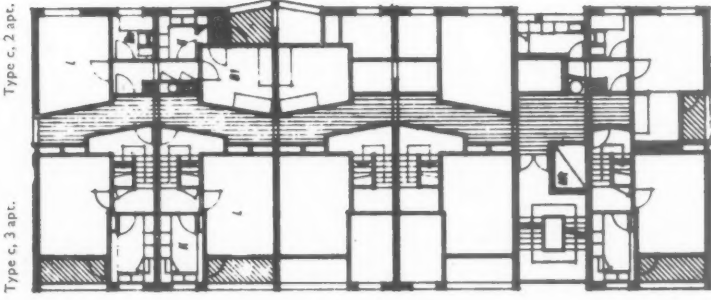
Floors 2-2'5
6-6'5
10-10'5



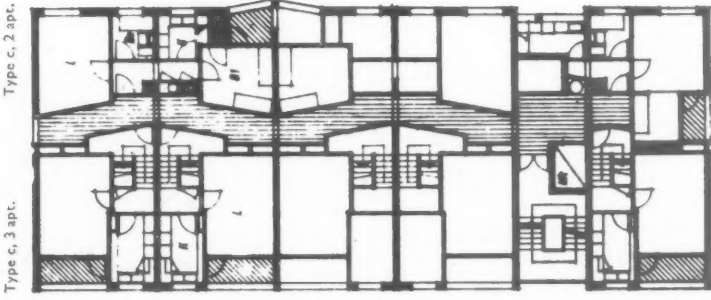
Floors 2-2'5
6-6'5
10-10'5



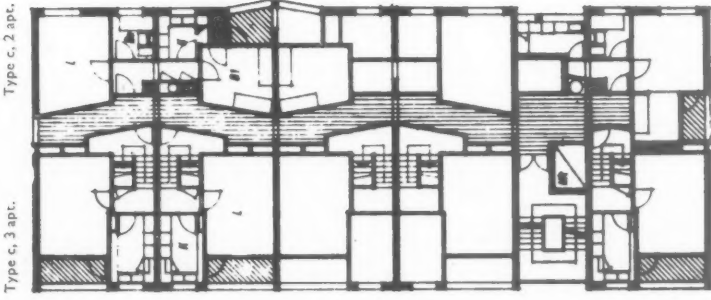
Floors 2-2'5
6-6'5
10-10'5



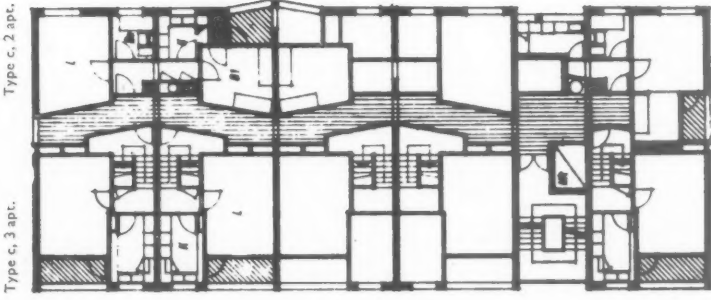
Floors 2-2'5
6-6'5
10-10'5



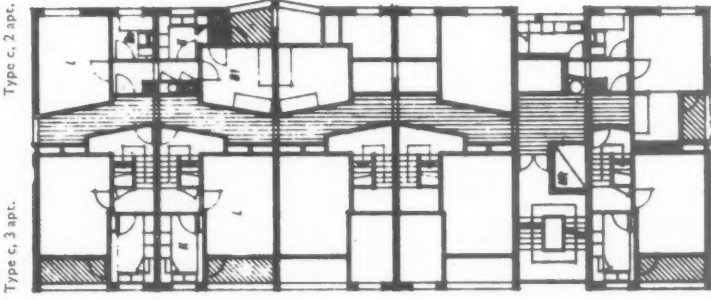
Floors 2-2'5
6-6'5
10-10'5



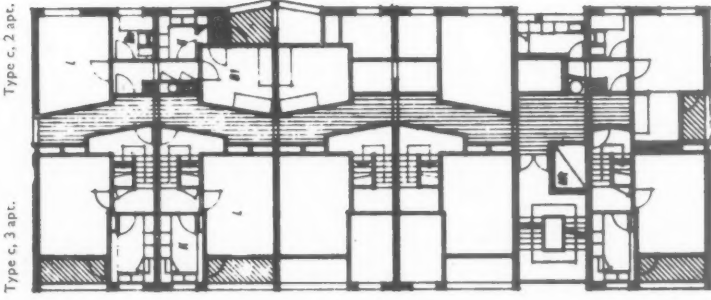
Floors 2-2'5
6-6'5
10-10'5



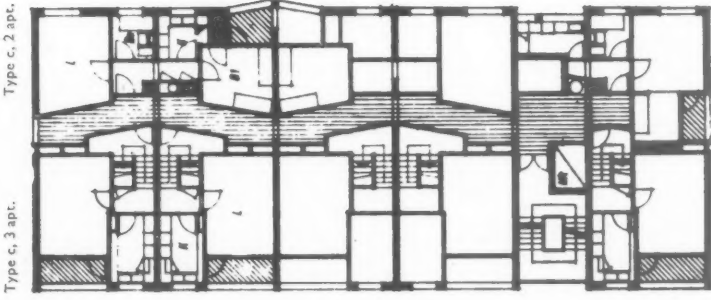
Floors 2-2'5
6-6'5
10-10'5



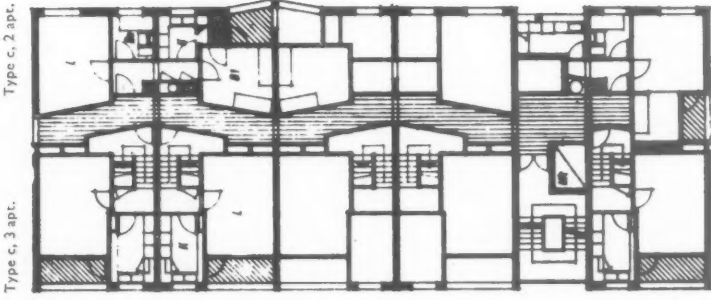
Floors 2-2'5
6-6'5
10-10'5



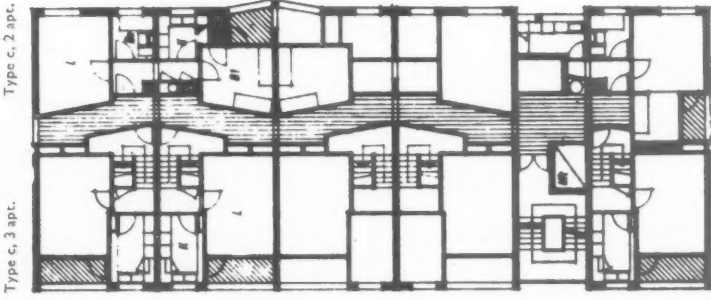
Floors 2-2'5
6-6'5
10-10'5



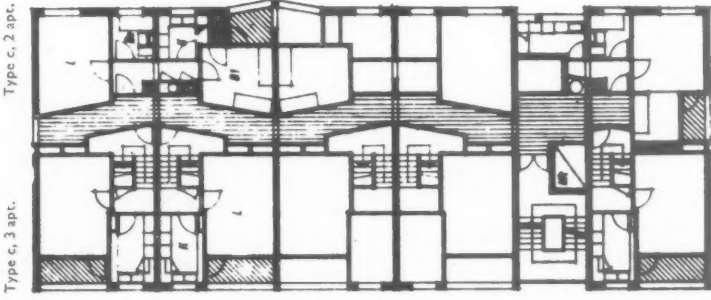
Floors 2-2'5
6-6'5
10-10'5



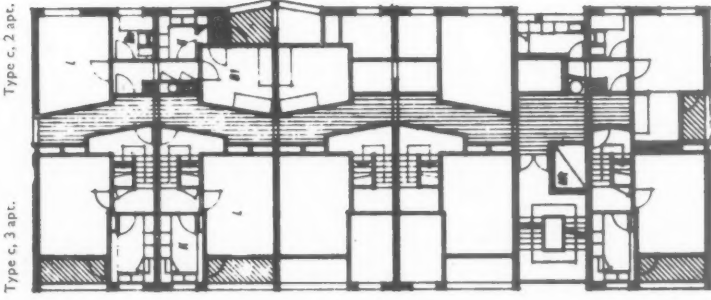
Floors 2-2'5
6-6'5
10-10'5



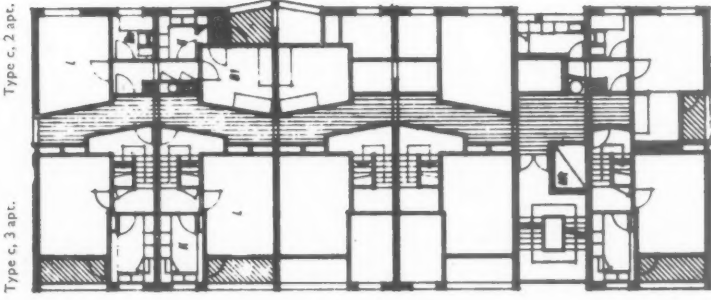
Floors 2-2'5
6-6'5
10-10'5



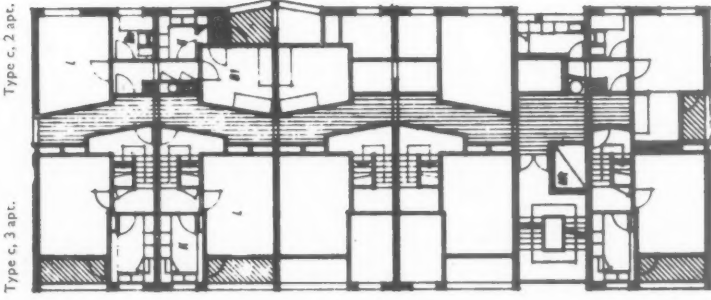
Floors 2-2'5
6-6'5
10-10'5



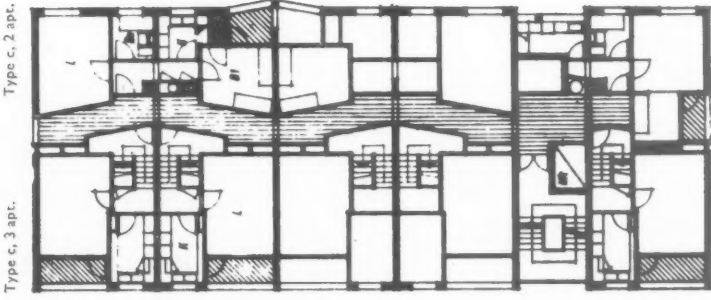
Floors 2-2'5
6-6'5
10-10'5



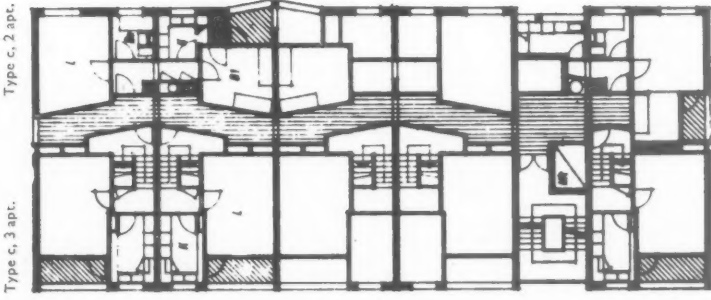
Floors 2-2'5
6-6'5
10-10'5



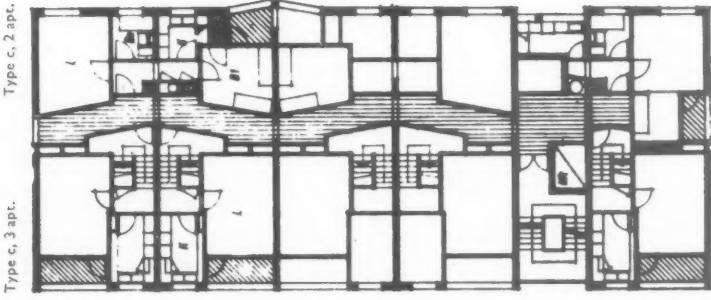
Floors 2-2'5
6-6'5
10-10'5



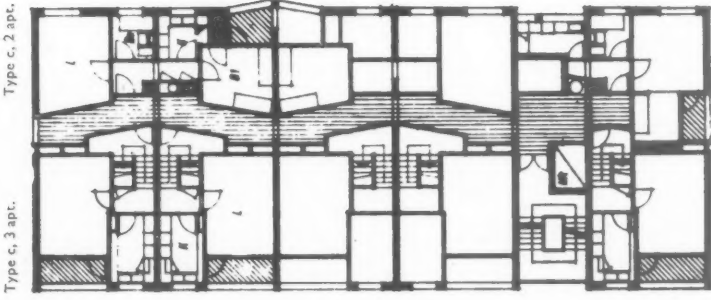
Floors 2-2'5
6-6'5
10-10'5



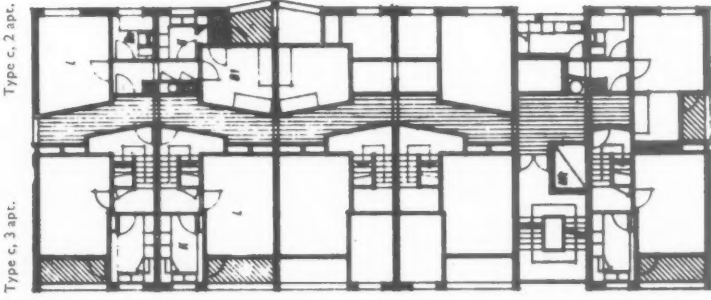
Floors 2-2'5
6-6'5
10-10'5



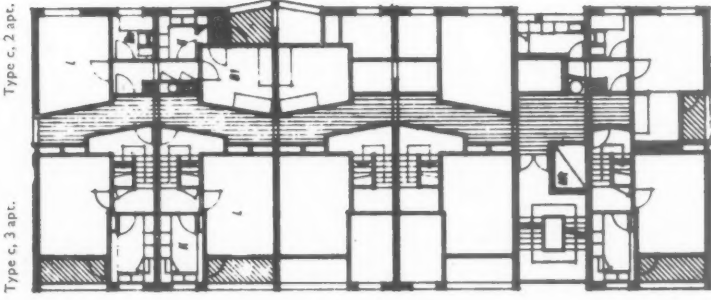
Floors 2-2'5
6-6'5
10-10'5



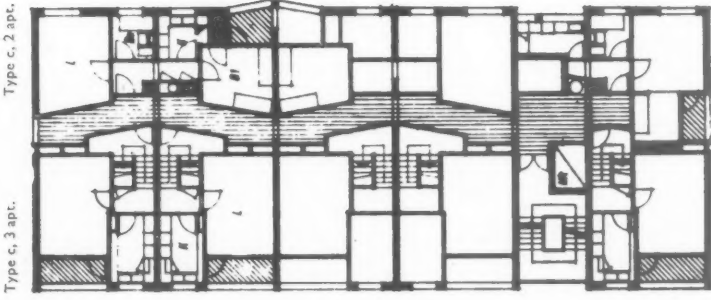
Floors 2-2'5
6-6'5
10-10'5



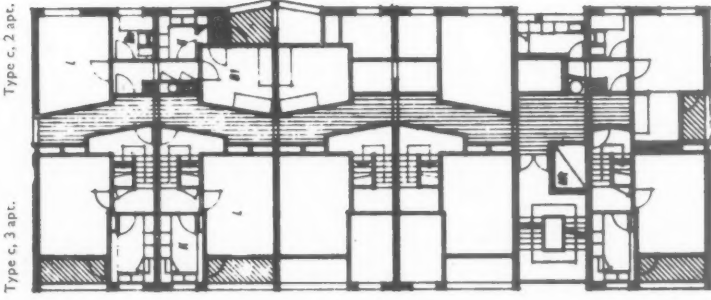
Floors 2-2'5
6-6'5
10-10'5



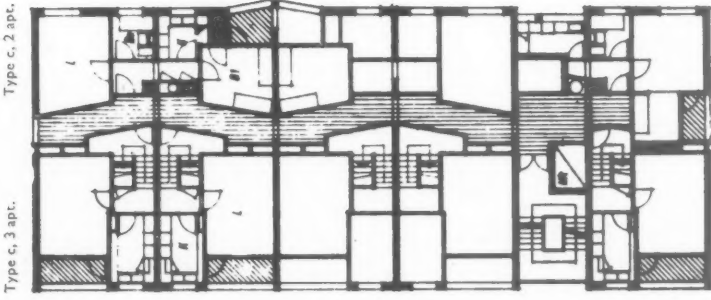
Floors 2-2'5
6-6'5
10-10'5



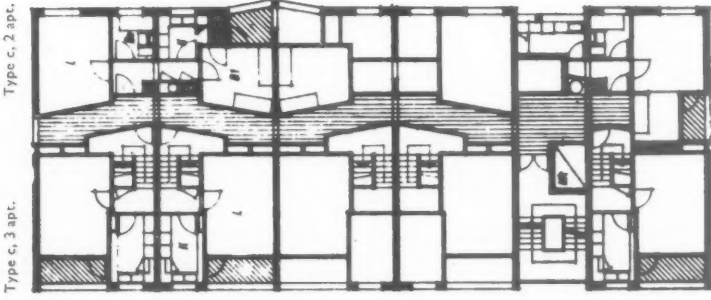
Floors 2-2'5
6-6'5
10-10'5



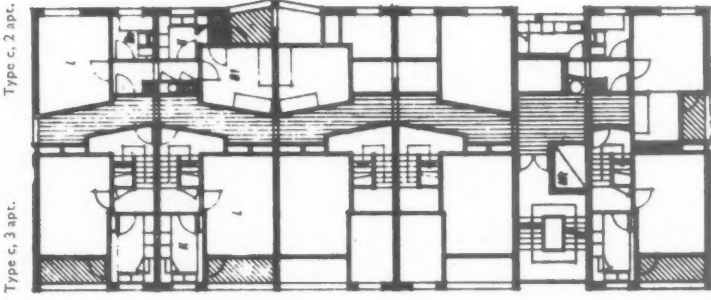
Floors 2-2'5
6-6'5
10-10'5



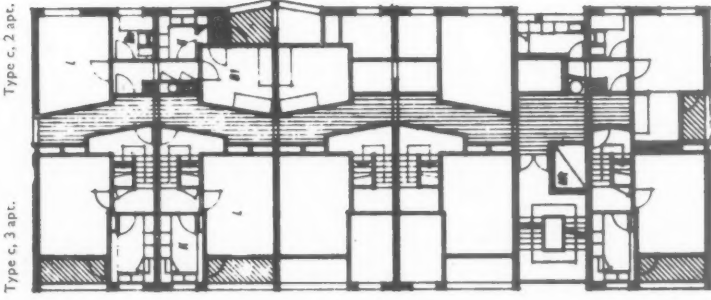
Floors 2-2'5
6-6'5
10-10'5



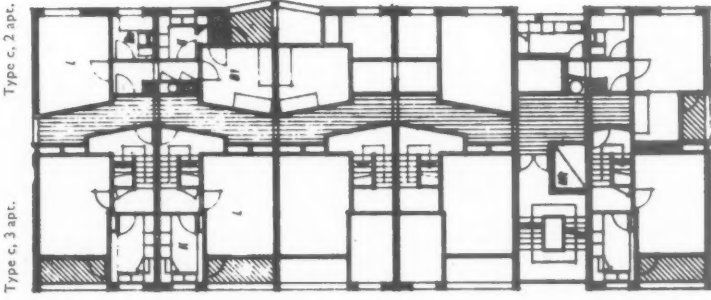
Floors 2-2'5
6-6'5
10-10'5



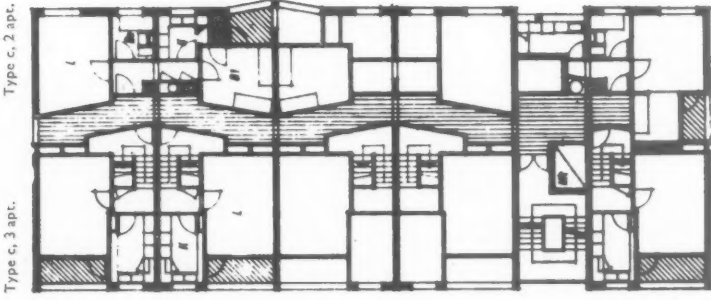
Floors 2-2'5
6-6'5
10-10'5



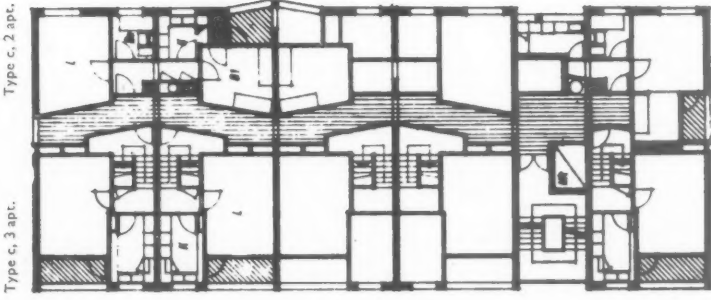
Floors 2-2'5
6-6'5
10-10'5



Floors 2-2'5
6-6'5
10-10'5



Floors 2-2'5
6-6'5
10-10'5



Floors 2-2'5
6-6'5
10-10'5

Leith Fort Housing Competition:

FIRST PRIZE-WINNING DESIGN BY BAIKIE, STEWART AND PERRY: continued

(b) The spine blocks again include a variety of plan types. They are seven storeys high and the individual types are planned with a completely different character. They are outward looking and have extensive views. The ground second and the fifth floors. All dwellings are entered from

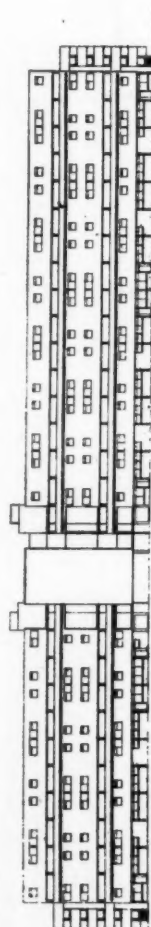
these two galleries. At the gallery level, each house has a kitchen-dining room: one house goes up from this level and has living and bedrooms over, the adjacent house has its living and bedrooms under. This arrangement cleverly avoids some of the criticisms which can be levelled at gallery access; for example, galleries do not pass the windows of any room in the house, and all rooms of the house can be easily arranged to suit orientation. The plan also makes a useful provision of a recessed balcony on the side adjacent to the kitchen-dining room.

(c) The third type of building takes the form of three 14-storey blocks. Here again the types of accommodation are varied and ingeniously interlocked in section. The floors of each block are planned at half levels. This arrangement makes it possible to place corridors on alternate floors. These corridors give access to flats which are sandwiched between cross-over apartments arranged above and below. Although the arrangement is difficult to show on a drawing, this is no reason why it should not work extremely well and simply in the building itself. The secondary escape for this type of dwelling will need discussion with the authorities along the lines which have been proposed by the competitor in his report: this proposal will also give the opportunity of gaining additional lighting to the access corridor.

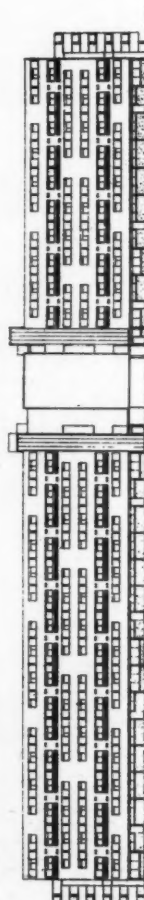
In my opinion, the merit of this scheme lies in the variety of ways in which the dwellings have been planned and in the range of choice which this makes possible. This flexible grouping of types has been achieved without sacrificing well proportioned rooms and conformity with desirable sizes. It has also been achieved in well proportioned and well modelled buildings. The competitor's report supports the impression that the architectural character of the scheme would be simple, sensible and effective. Materials are well chosen, precast concrete slab as a facing for the high blocks, wood window frames and stone walls (recovered from the old Fort) for the low buildings. Sensible practical decisions have been made; for example, all balconies are recessed and therefore protected, and the areas of glazing in windows is not too great. The district heating scheme proposed by the competitor will need further dis-

Below, elevations of the winners' seven-storey maisonette blocks, the plans and sections of which are shown on the opposite page. Bottom, elevation and section through the site.

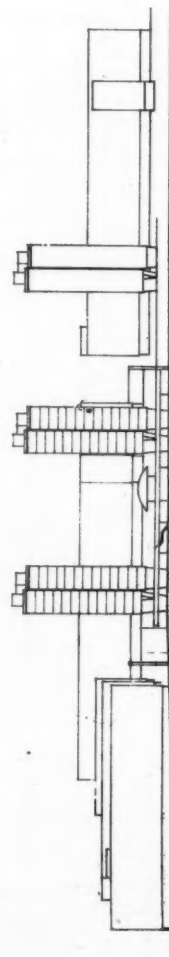
BLOCKS B2, 3, 4



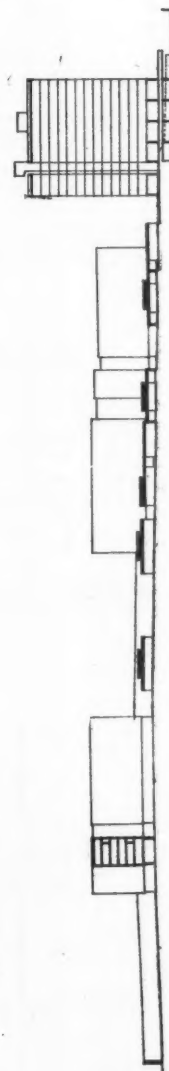
[East elevation



West elevation

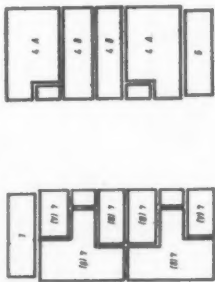


Lindsay Road elevation

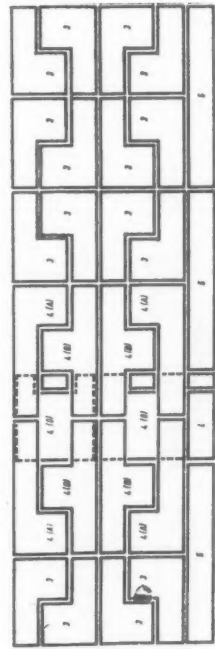


Long section

Long section
BLOCKS B2, 3, 4



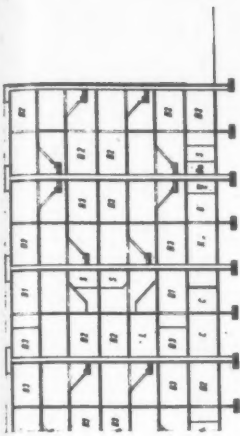
Section A-A
diagrammatic



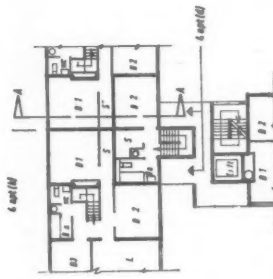
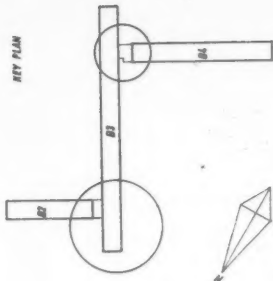
Half of long section (diagrammatic) through Block B3 showing interlocking of dwelling units.

Section B-B

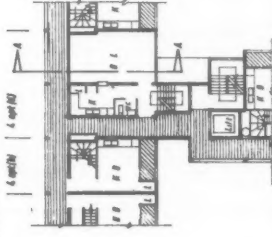
Below, detail plans of the areas ringed in the key plan, of blocks B2, 3 and 4, and above, sections showing the arrangement of the interlocking maisonettes.



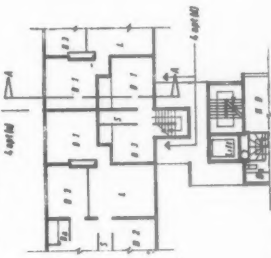
Section C-C



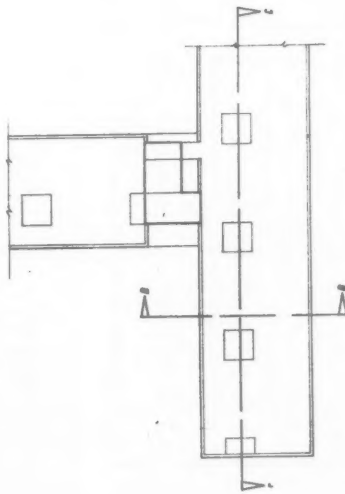
Floors 3 and 4



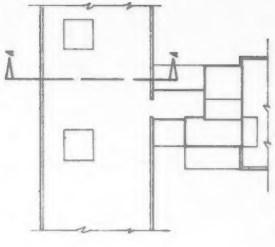
Floors 2 and 5



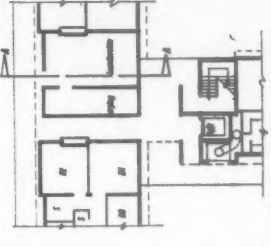
Floors 1 and 6



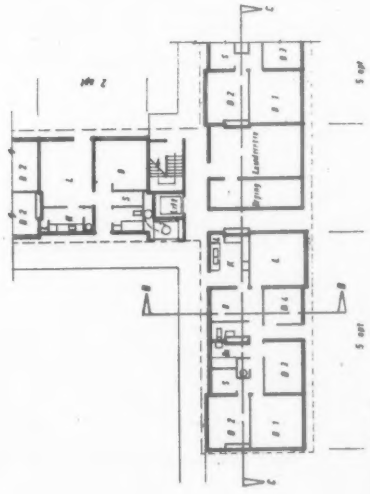
Roof plan



Roof plan



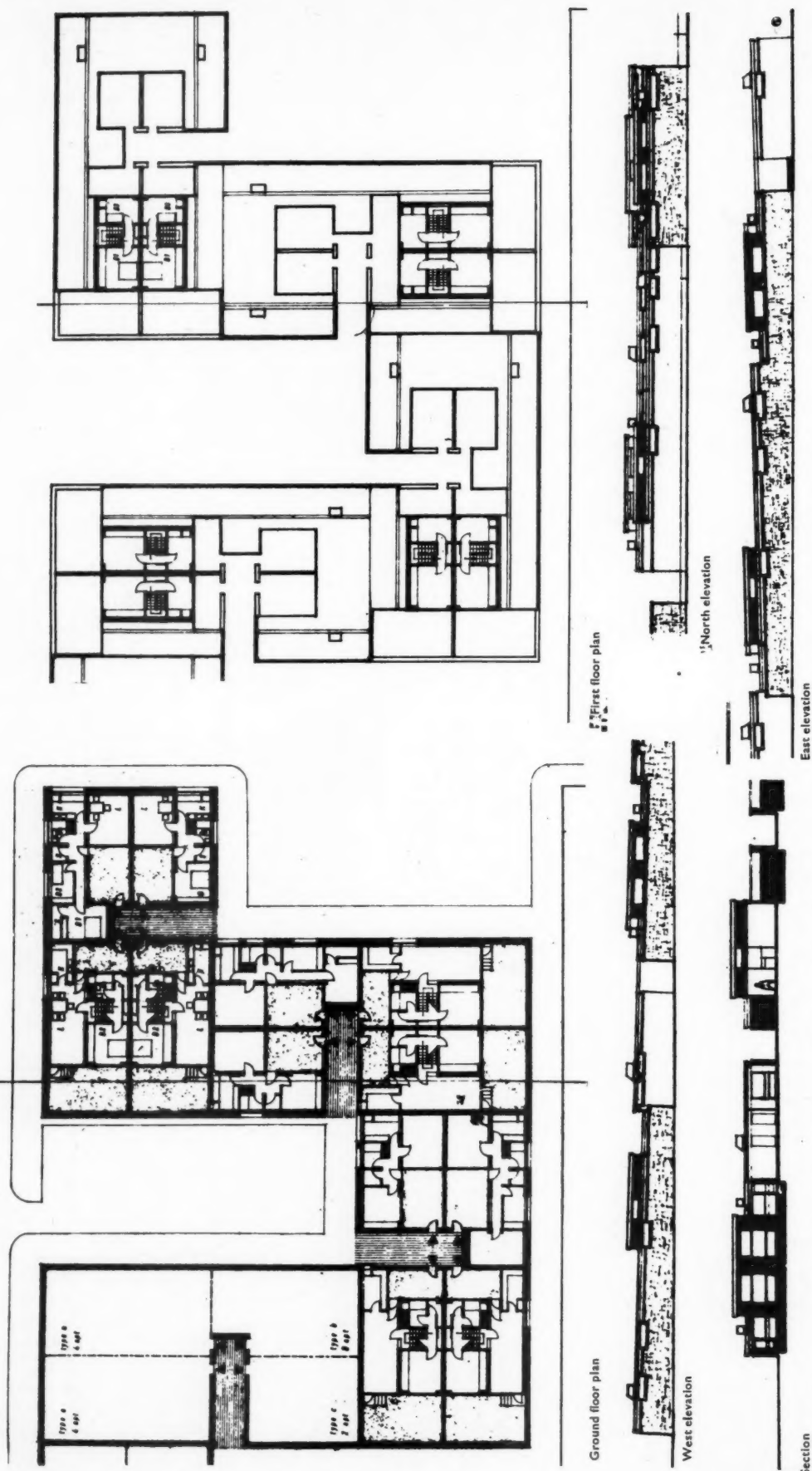
Ground floor



Ground floor

**Leith Fort Housing Competition:
FIRST PRIZE-WINNING DESIGN BY BAIKIE, STEWART AND PERRY: continued**

Below, plans and elevations of two-storey housing, blocks C 1-4.



cussion. The costs given in the report are in generalized form. I am advised that, although some of the building rates appear to be low, the total cost of the scheme is within the 10 per cent. margin.

EXTRACTS FROM THE COMPETITORS' REPORT: the

three 13-storey blocks contain 150 three-apartment and 45 two-apartment flats and maisonettes and the seven-storey blocks contain 373 dwellings, both of r.c. load-bearing cross-wall construction. Each house block is each made up of two four-apartment houses, a three-apartment

and a two-apartment house, with traditional load-bearing walls and timber beams, each block being surrounded by an 18-in. wall of masonry (from demolitions) backed with brick. Estimated cost £1,500,000, including demolitions, special foundations, site works and services.

SECOND PRIZE-WINNING DESIGN BY ROBERT MATTHEW

ASSESSOR'S REPORT: the general conception behind this scheme is that it centres round the use of pedestrian spaces. Around these spaces, blocks of varying heights are arranged, creating a series of related areas. All access roads approach the site from its perimeter.

In this scheme the layout of the blocks involves a number of tall buildings, and these have been carefully related to orientation rather than to the original boundary lines of the Leith Fort site. Blocks of 18 storeys, four storeys and three storeys are arranged to stand within a comparatively

AND JOHNSON-MARSHALL

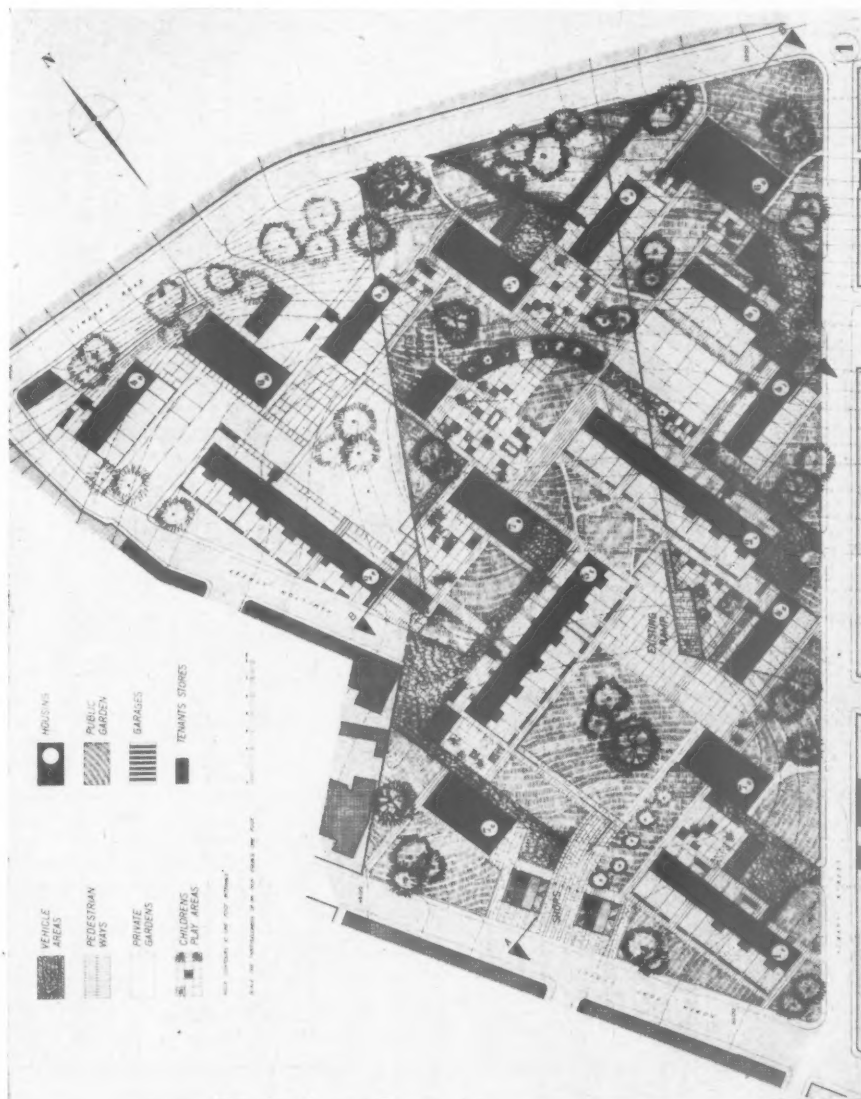
open layout. Great care has been taken with the details of this layout. The use of levels, the planting, and the siting of recreational areas are all good. The use of a diagonal road cutting across the boundaries of the original site presents some difficulties from the point of view of completeness at the first stage of development.

The total number of dwellings exactly conforms with the target figure, although the number achieved at the first stage of development is slightly below it. The correct relationship of percentage of apartments at the initial stage may be difficult to achieve. The planning of the tall blocks introduces an interesting use of internal access galleries. These galleries lead to dwellings which interlock in section. The planning of the individual dwellings is good.

All the four- and five-apartment dwellings are planned in low blocks of three and four storeys. These are arranged as maisonettes with a 17 ft. 6 in. frontage, and all are, again, well planned. The set of plans is accompanied by a competent report which indicates the thoroughness with which the scheme has been considered. The total cost is satisfactory.

EXTRACTS FROM THE COMPETITORS' REPORT: the intention in this scheme was to create a rugged, colourful urban character. Stone is used, where possible, from the demolished buildings on the site, for retaining walls, steps, etc., granite setts from Edinburgh streets are incorporated in the paved areas, with grass only in relatively large areas. The ground space between the blocks is treated as a continuous free space, its use differentiated by the surface materials. 477 houses are in 17-storey blocks, the remainder in three or four storeys. The tall blocks are planned as flats with east and west aspect, nearly all living rooms facing west, with access by corridors every 2½ floors, open at both ends and the centre. More than half the bathrooms are internal. These blocks are designed to provide an arrangement of r.c. cross-walls rigidly jointed to the r.c. slab floors. As the external walls are non-load-bearing, the continuous staircase and lift enclosures are designed as "buttressing" elements to provide overall stability. The three- and four-storey blocks have load-bearing brick cross-walls and con-

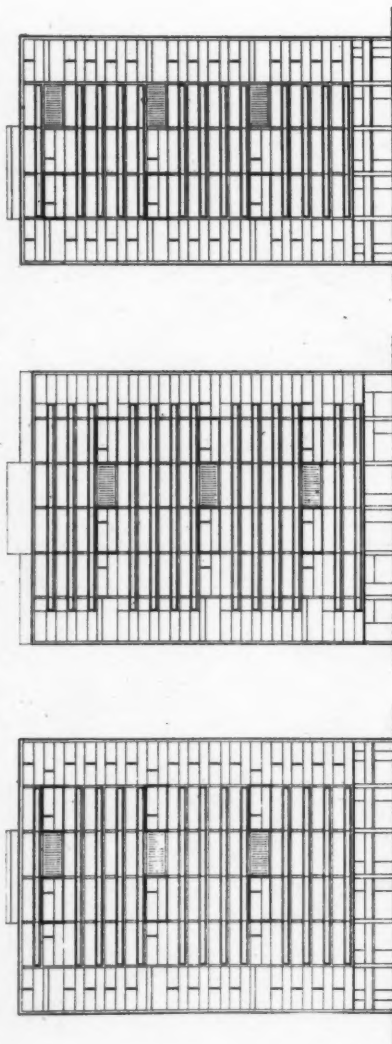
Site plan of the second prize-winning design by Robert Matthew and Johnson-Marshall.



tinuous r.c. party floors and roof slabs. External gable walls of high blocks are rendered with a machine-cast textured finish, the infilling of non-load-bearing walls of timber-faced panels where recessed behind balconies, or aluminium where not recessed. Gables of low blocks and projecting staircases in rough random rubble. Cladding of rendered brickwork and timber-faced panels with lightweight concrete "back-up" walls. Balcony fronts of precast spar-faced concrete panels and colour-glazed asbestos-cement.

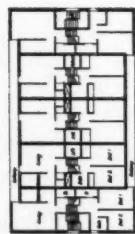
In the tall blocks 53 per cent. of the bathrooms are internal. To meet the problem created by the Scottish climate (ventilated larders, it is said, frequently become damp, and the summer temperatures do not justify refrigerators), it is suggested that some form of cold room be installed, the small amount of heat generated by the cold storage being used for clothes drying, for which large heated and ventilated space within the house is required. Heating is by under-floor electric heating by means of cables heated at off-peak hours. While provision is made, as required, for the use of the "Paladin" type of refuse collector, it is suggested that this leaves much to be desired, and that consideration be given to a dust-free apparatus and a kitchen grinder, to avoid the need for garbage carts, dustbins and refuse chutes. Total cost £1,667,450.

Left, plans, elevations and section of maisonette blocks 5, 6 and 7 shown on the site plan on page 211. Below, elevations, and opposite page, plans of house types. 4. Also opposite page, plans and elevations of maisonette blocks, 1 and 2; and two sectional elevations. The sectional elevation, left, is from the north-east.

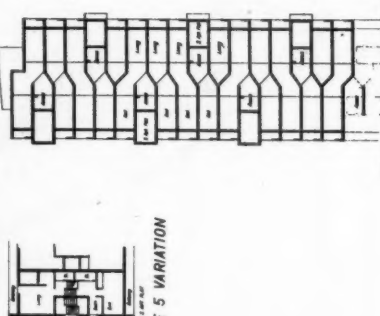


EAST ELEVATION TYPE 7

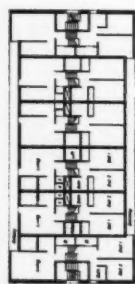
WEST ELEVATION TYPE 6



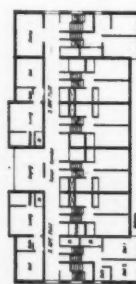
FLAT PLAN TYPE 7



CROSS SECTION



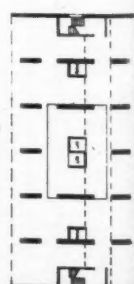
FLAT PLAN TYPE 6



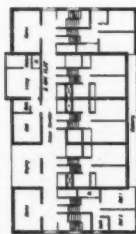
EAST ACCESS GALLERY PLAN



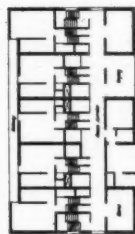
WEST ACCESS GALLERY PLAN



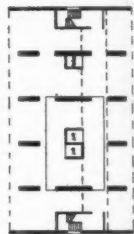
GROUND FLOOR PLAN



EAST ACCESS GALLERY PLAN



WEST ACCESS GALLERY PLAN



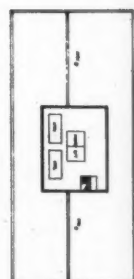
GROUND FLOOR PLAN



SOUTH (OR WEST) ELEVATION TYPE 4

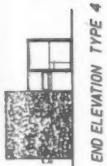


NORTH (OR EAST) ELEVATION TYPE 4

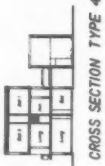


ROOF PLAN

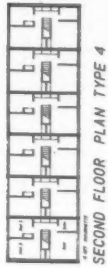
NORTH (OR EAST) ELEVATION TYPE 4



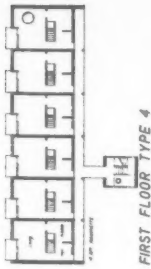
END ELEVATION TYPE 4



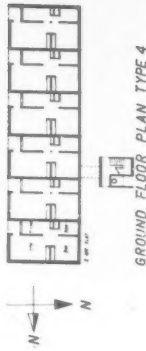
CROSS SECTION TYPE 4



SECOND FLOOR PLAN TYPE 4

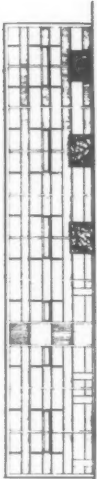


FIRST FLOOR TYPE 4



GROUND FLOOR PLAN TYPE 4

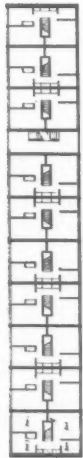
GROUND FLOOR PLAN



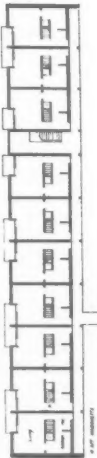
WEST ELEVATION TYPE 1



EAST ELEVATION TYPE 1



FIRST & THIRD FLOOR PLAN TYPE 1

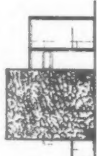


SECOND FLOOR PLAN TYPE 1



GROUND FLOOR PLAN TYPE 1

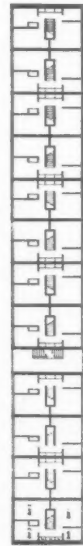
ROOF PLAN



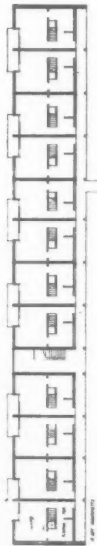
END ELEVATION



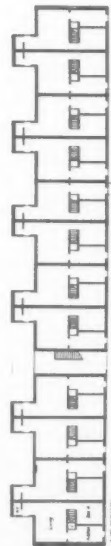
CROSS SECTION



FIRST & THIRD FLOOR PLAN TYPE 3



SECOND FLOOR PLAN TYPE 3



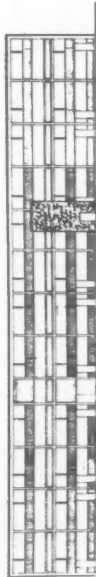
GROUND FLOOR PLAN TYPE 3

NOTE
TYPE 2 BLOCKS ARE
13 BAYS LONG AND
CONTAIN SIMILAR
MAISONNETTES TO
TYPES 1 & 3

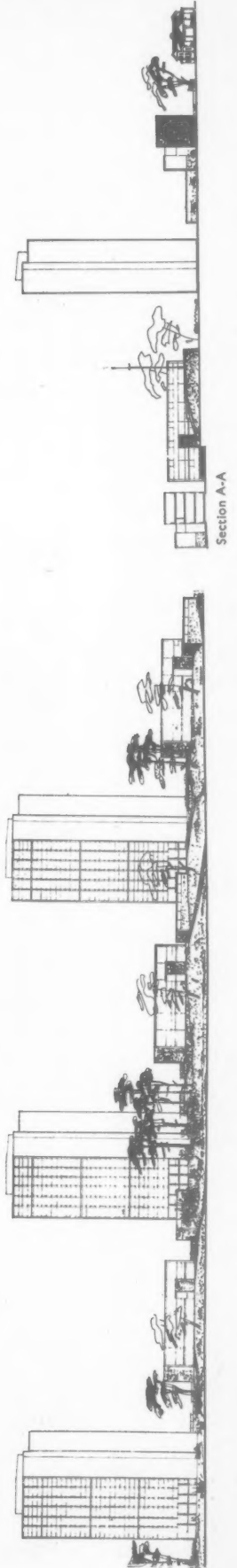
GROUND FLOOR PLAN



SOUTH ELEVATION TYPE 3



NORTH ELEVATION TYPE 3



Section A-A

Leith Fort Housing Competition:

THIRD PRIZE-WINNING DESIGN BY WILSON, ABBOTT AND BLANCO WHITE

ASSESSOR'S REPORT: this is one of the few schemes in which an attempt is made to retain some of the features of the existing layout. The gatehouses, the officers' mess and bastion, the old barracks, a raised garden and the stone

walls are all retained. The retention of these buildings in the centre of the scheme conditions the housing development which is spaciouly laid out in slab blocks at right-angles to each other. These blocks create a series of related spaces which are paved and planted in various ways. The layout is competent, dignified and carefully considered.

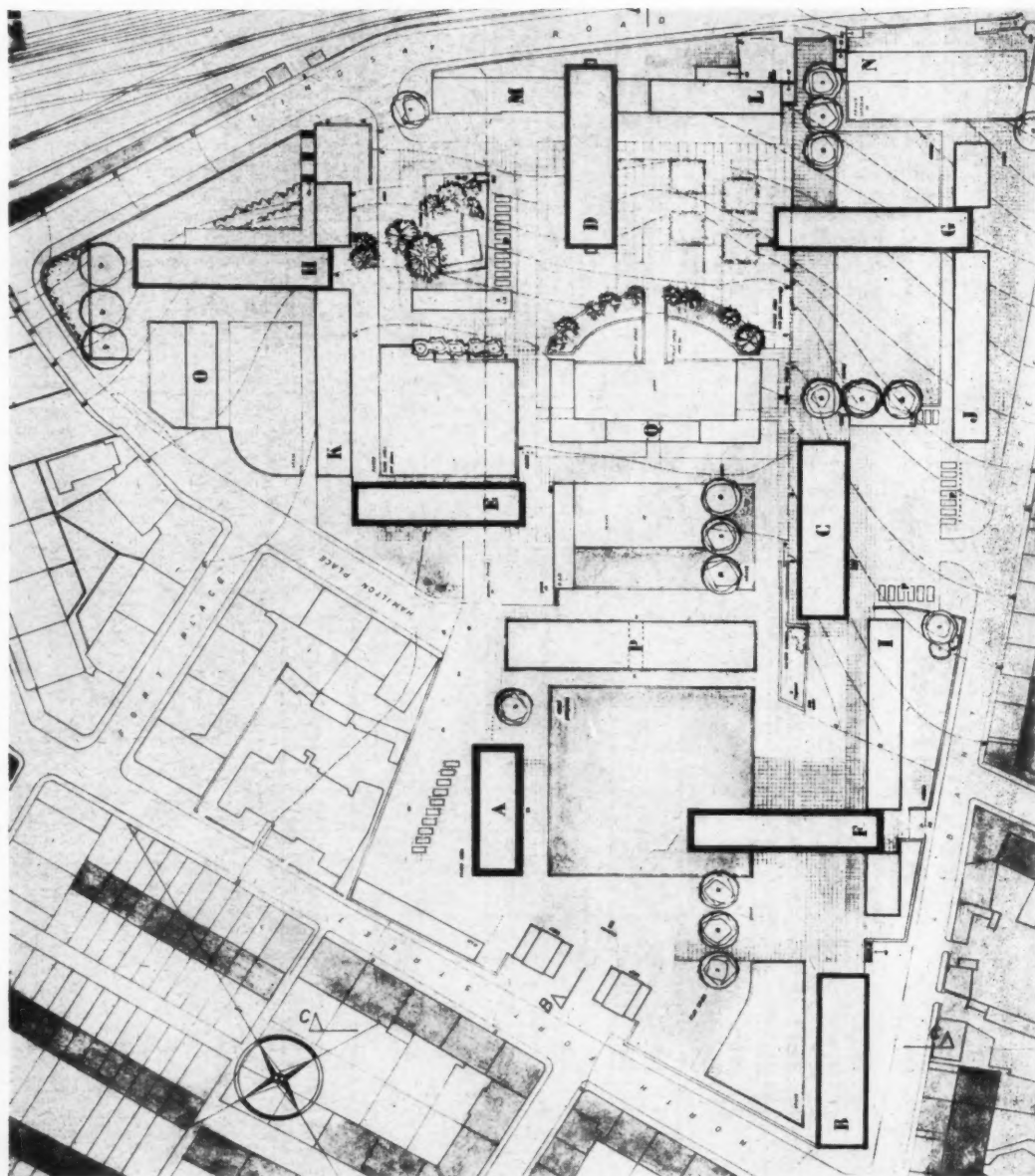
The total number of dwellings (654) is slightly greater than the target figure. The dwellings on the Fort area, however, will be less than the total number possible.

The tall blocks, like those of the second prizewinning design, introduce interesting cross-over plans. The access corridors, however, appear to be long and narrow, and the internal planning of the flats does not appear to reach the standard of the layout as a whole. The low blocks are well arranged, and the conversion of the existing buildings is well conceived. The total cost of the scheme is within the 10 per cent. margin.

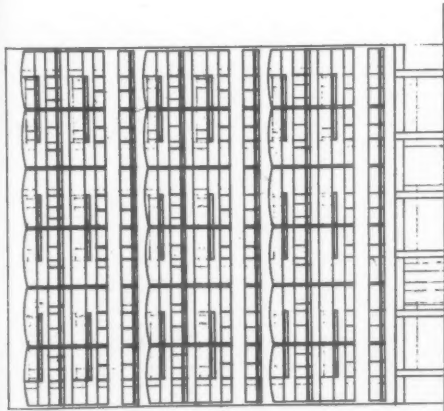
EXTRACTS FROM THE COMPETITORS' REPORT:

in the belief that old buildings on a site help to create a civilized atmosphere, this scheme retains six existing features as a background theme to the design: the gate-houses, officers' mess and bastion, barracks, flagstaffs and garden, Mayfield house and the stone walls. It was found that only a balanced arrangement of blocks at right angles was sufficiently consistent with the Georgian old layout, building up to a block of 16 storeys at the top of the hill, and giving a series of partly enclosed courtyards which could be put to different uses. The tall blocks A to H have a r.c. frame providing short spans for the floor slabs, exposed fairface in the ground floor piers and in some beams in gable walls. Frames enclosing continuous balconies and balustradings are precast concrete units and glass, external panel walls of grey fairface brick or glass-faced insulating panels. Lower blocks I to N are of load bearing brick, external walls grey fairface brick and glass-faced insulating panels, balustrades of cast glass in metal frame. Electric floor heating is used. Estimated cost £1,396,800.

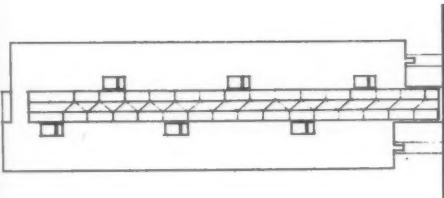
Left: site plan. Opposite page: typical plans, elevations and sections of blocks A, B, C, D shown in the site plan.



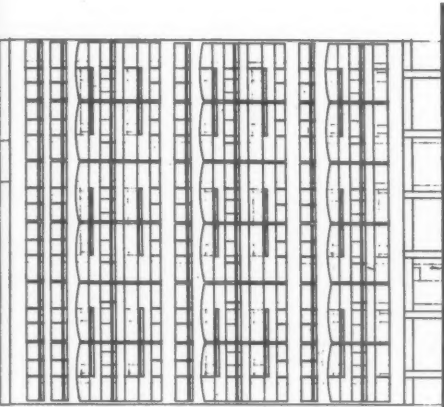
Site plan



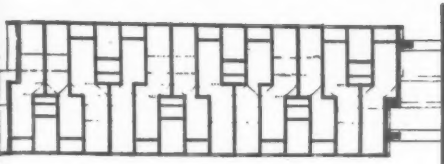
Block A. East elevation



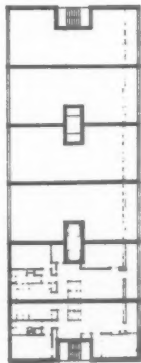
North elevation



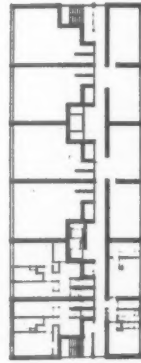
West elevation



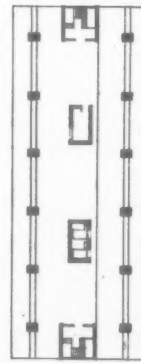
Section



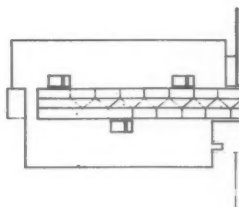
FLOOR PLAN



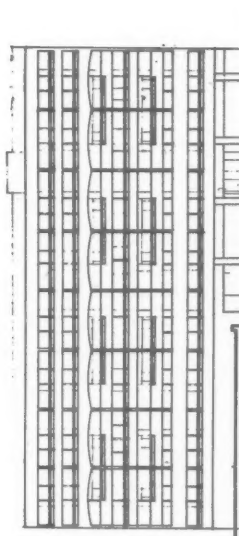
FLOOR PLAN



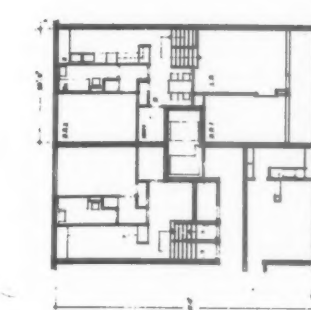
FLOOR PLAN



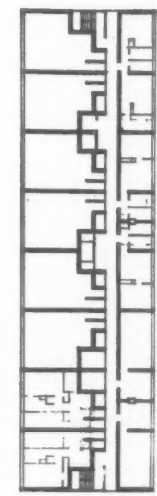
North elevation



West elevation



FLOOR PLAN



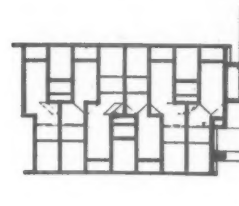
FLOOR PLAN



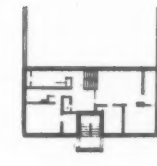
FLOOR PLAN



FLOOR PLAN



Section

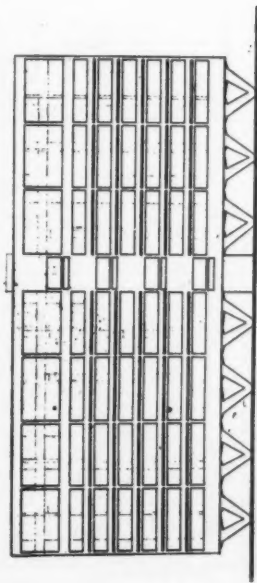


Section

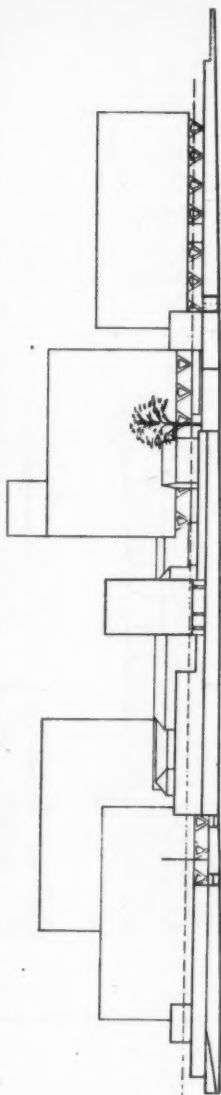
Scale 1/8" = 1'-0"

Leith Fort Housing Competition:

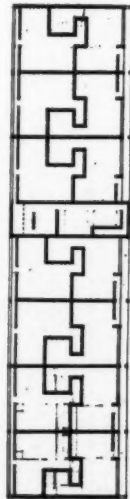
THIRD PRIZE-WINNING DESIGN BY WILSON, ABBOTT AND BLANCO WHITE: continued



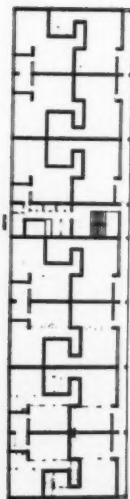
BLOCKS G & H



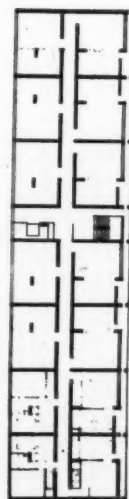
Above, elevation of the site from the north-east. Below, typical plans and elevations of the blocks marked G, H, E and F on the site plan on page 214



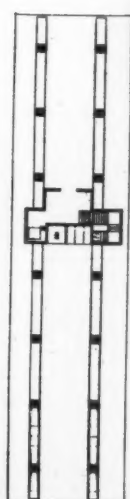
5th Floor Plan



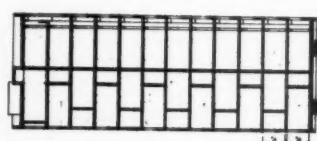
2nd Floor Plan



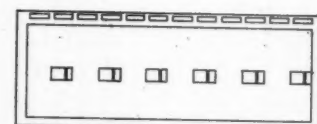
1st Floor Plan



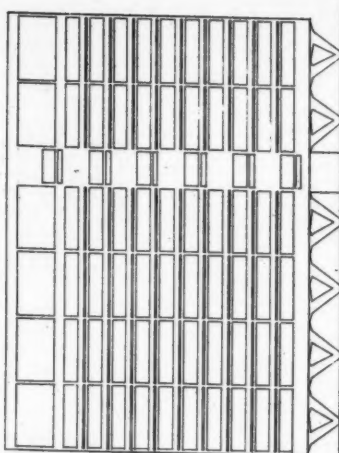
0th Floor Plan



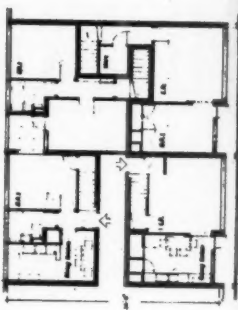
BLOCKS E & F



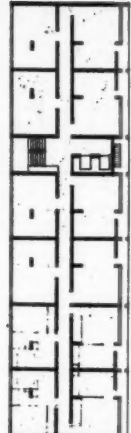
NEW ELEVATION



NEW ELEVATION



Detail plan of main entrance of 482 sq. ft. shown in blocks E and F



Detail plan of main entrance of 482 sq. ft. shown in blocks G and H

Two design fitting chair chair slat draw and

Detail plan of main entrance of 482 sq. ft. shown in blocks E and F

If la triu. n Exhib Last furni that of its and year Ther but

F

FURNITURE '58

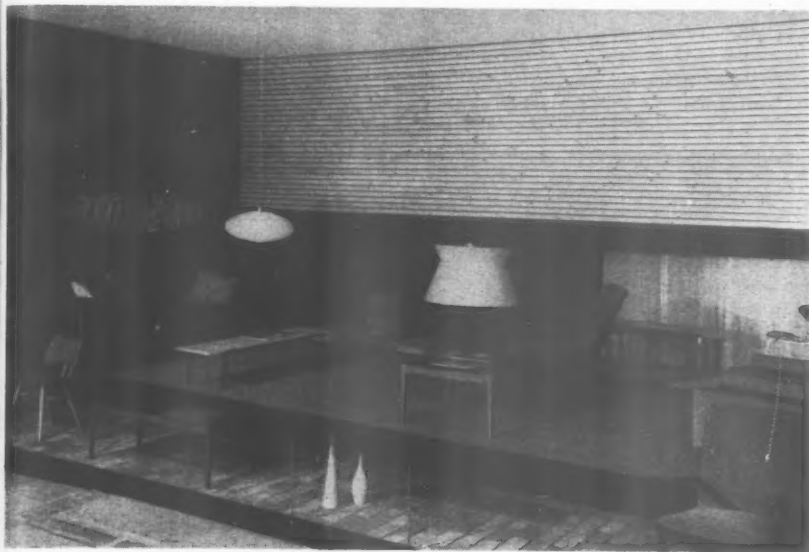
Reviewed by John and Sylvia Reid

If last year's Furniture Exhibition was a triumph of contemporary design, this year's Exhibition is a triumph of consolidation. Last year, to many people's surprise, the furniture industry demonstrated quite clearly that it was going modern. Inevitably many of its "contemporary" efforts were bizarre and it is reassuring to see that in the past year a general sobering-up has taken place. There is nothing startlingly new to be seen, but there is much more furniture of simple,

clean, modern form. Misha Black and Design Research Unit have given the Exhibition a coherent form, and an exciting central feature with a well detailed framework for the international section around its base. The furniture industry demonstrated a commendable confidence by inviting Denmark, Italy and Finland to exhibit some of their own furniture in a central international feature. Most of the work shown is well known in this country, as most of the



The central feature of the Exhibition, designed by Misha Black and Design Research Unit.



Two views of "Living in Britain," the CoID stand representing Great Britain, which was designed by Challen and Floyd. Above, left to right, background: settee by Robin Day (Hille); light fitting by John and Sylvia Reid (Rotaflex); coffee tables by Conran and by Barbu Calinescu and chair by Robin Day (Hille). Foreground, chair by Ercol; coffee table and seat by W. G. Evans; and chair (182) by Bristow and Townsend Ltd. Below, foreground, part of Robin Day's desk, and his slatted bench, for Hille, and an easy chair (Acquilo) by R. S. Stevens Ltd. Background, chest of drawers by D. Meredith Ltd.; "Tuan" chair by H.K. Furniture Ltd.; divan by Horatio Myer Ltd.; and dressing table by John and Sylvia Reid (Stag Cabinet Co. Ltd.).



Danish furniture is imported and readily available here. The Finnish section has little designed later than the '30's by Alvar Aalto, who is proud of the fact and says so in the catalogue. The Italian section was designed by Peresutti and its rather restless appearance is probably largely due to the fact that Sig. Peresutti did not know quite what he was up against in designing a display for Earls Court. The furniture itself, standing on individual marble slabs, is inclined to be gimmicky, and not very appealing. The CoID stand representing Britain, designed by Challen & Floyd, architects, used a selection of furniture chosen from "Design Review" by the Council of Industrial Design. The exhibit suggested the form of a modern house interior and it is very pleasing to realize that all the furniture shown in these smart, modern interiors is in current production and obtainable at reasonable prices from our own furniture industry. The fact that no apology is required for the British section, when seen alongside the best the Continent has to offer, is most encouraging.

Last year there was very little of interest as far as dining or ordinary upright chairs were concerned, whereas this year there is a much wider variety, some of them of a very high standard of design indeed. Last year, the absence of the chairs of Eames, Saarinen and Bertola was lamented, and this year the situation is partially rectified by Hille of London Limited, makers of Robin Day's designs who, under licence from Herman Miller in America, are making Eames' full range of fibre-glass and wire mesh chairs. These are familiar to most architects, but they are being seen for the first time by the public at Earls Court this year. Can we hope that another enterprising manufacturer will be found who will make suitable arrangements with the well-known Knoll International and let us have the work of Saarinen and Bertola as well. Is it too much to hope that these chairs will be at the next Exhibition? The fairly recent introduction of Pirelli

webbing as a base for foam rubber upholstery is helping to produce chairs of great comfort, but with a light angular appearance. The beginnings of this development were to be seen last year, and some little progress has been made since then. As far as upholstery fabrics are concerned, colours and colour contrasts are settling down, and much of the upholstered furniture is really attractive. The introduction for the first time of a new nylon mixture upholstery fabric, which has a 100 per cent. nylon warp and a 50 per cent. nylon weft, the remaining 50 per cent. being high tenacity rayon, is another important development. Advantages of this type of fabric are its great resistance to wear and tear; the elasticity of the fibres which prevent sagging; the high standard of colour fastness; its resistance to moth and mildew; its resistance to dirt and the ease with which it can be cleaned with soaps and detergents. Much of the carcass furniture, storage units,

wardrobes and so on, are now being made from solid chipboard, and veneered on both sides. This form of board, as its name implies, consists of small chips of wood resin-bonded together. It is not an inferior material by any means, and in fact has several advantages over solid wood for modern production methods. It has a constant texture and density, free from changes of grain and knots, and is admirably suited to machining. It also has no end grain, which makes it possible to make joints which would be very difficult with ordinary timber. The addition of veneers on both sides of the board is not merely decorative, but adds considerably to the strength of the material. To prove that this "man-made timber" is not inferior, Weyroc have a demonstration unit in which a chipboard constructed wardrobe is being subjected to a British Standard Institution test, but instead of stopping after the normal 50 "lifts," the motion will be repeated about

50,000 times during the Exhibition.

There is still far too small a selection of modular furniture, and most of that which is available is rather highly priced. It is to be hoped that more sectional units will become available. A curious side-light at the Exhibition is the introduction by two or three well-known manufacturers of draped bed-hangings. This seems to be a most impractical and retrogressive step, and one cannot help feeling that the glossy magazines may be largely responsible.

Door and drawer handles and fittings are being given more thought and attention, and are generally better designed and finished than previously, and the variety of veneers and finishes being used is increasing. The illustrations in this review are arranged in sections, and in each case start with traditional types and progress through to the latest techniques. All of the examples are chosen as the best of their respective kinds, and are well finished and of good quality. The prices quoted are the present retail prices, and include purchase tax where applicable. Comparisons can therefore be safely made.

Although in the past year many furniture manufacturers have been on short time, the better firms seem to be in a healthy position and some of them are holding their prices despite rising costs.

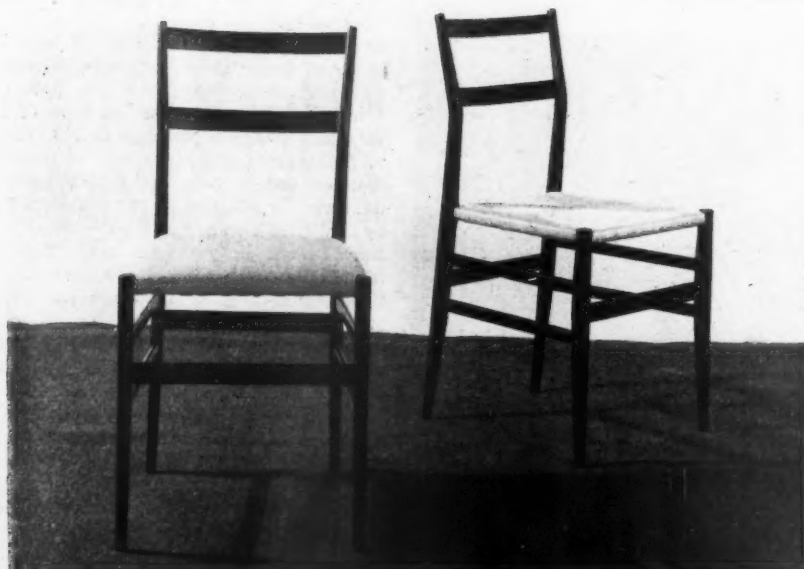
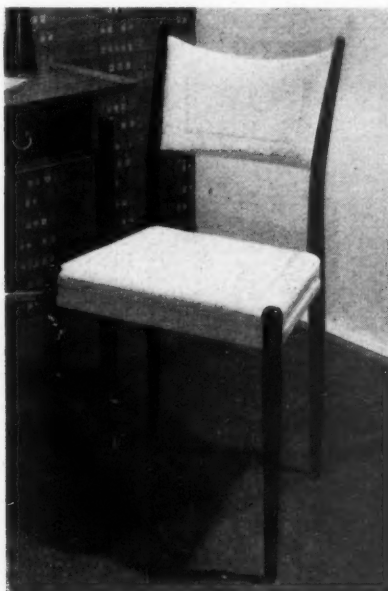
The trade section carries on away from the public eye upstairs, as usual, and is best left undisturbed.

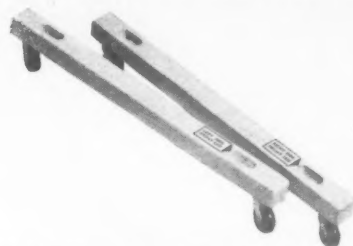
seating

Far left: this pleasing Regency inspired dining chair, designed by M. S. Wason and made by Greaves & Thomas Limited, is a new addition to their mahogany line series. It is carefully detailed and well finished in either dark or light West African mahogany and costs about £6, according to the seat covering.

Left: this dining chair, inspired by architect Gio Ponti, is a new addition to the well-known G-Plan range of Gomme Limited. The frame is black lacquered or matt finished walnut brown, and the upholstery is plain coloured vinyl, and it costs about £7.

Left: this well-known Italian chair, designed by Gio Ponti using a traditional form of chair construction, is now available in this country through Conran Furniture. An unusual feature of these chairs is the hard-wearing, easily cleaned silver cellophane seats (shown right). It is also available with a Dunlopillo seat upholstered in pure wool (shown left). The wooden frames are ebonized. Price with cellophane seat £9 11s. 0d, with upholstered seat £11 16s. 0d.





Far left: Ercol Furniture of High Wycombe make this neatly designed traditional style Windsor stacking chair. It does stack most successfully, as can be seen from the photograph (left), and it is made to pass the very severe tests called for by the Ministry of Education's new Draft Performance Standards for classroom chairs. It is excellently finished in natural or dark colours. The seat is elm and the legs and back beech. The addition of two strips of wood with bogie wheels (above) makes a complete stack mobile. Price £2 7s. 6d. each.



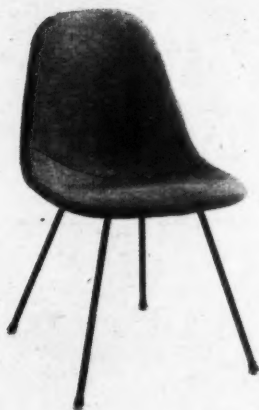
Far left: this preformed chair by Ercol is less successful than the Windsor chairs illustrated above. An attempt has been made to combine modern preforming techniques for the seat and back with the traditional Windsor chair leg structure. The mixture of techniques is not satisfactory, and this chair has none of the grace and poise of the stacking chair; note, too, the difference in price; this one costs £6 2s. 6d.

Left: the "Gilpin" chair has been designed by Frank Guille for Kandya Limited. It is probably the most complex laminated wood chair shape produced so far in this country. It is very well thought out but the rather angular outline of the seat form makes the chair slightly self-conscious from certain angles. It is light in weight and very strong. It is available with metal legs, stove enamelled black or white, or with wooden legs. The seat shell is available in natural beech or in a variety of colours. Price £4 19s. 6d.



Left: Ernest Race has designed this new three-legged stacking chair called the "Unicorn." The metal frame is finished in white stove enamel, with matching p.v.c. ferrules, with the seat and back in natural polished wood or enamelled in bright colours. As can be seen from the photograph the chairs stack very closely and are light and well balanced for handling, but the raised heads of the fixing screws and washers, whilst not materially affecting the comfort, are visually disturbing. There are matching tables for outdoor use (above). The price of the chair is from £3 6s. 5d. Tables from £4 5s. 1d.

seating: continued



Seen by the English public for the first time are these glass fibre chairs designed by the eminent American architect, Charles Eames, being made in Britain by Hille of London under licence from the Herman Miller Company of America. The matched-mould process, used now for the first time in Britain, produces a smooth finish back and front. Glass fibre shells, with or without arms, are pressed in one piece, in

bright colours including grey, parchment, yellow, green or red. The material is opaque, but it has an attractive soft-looking finish, and its tensile strength is about the same as steel. It is both durable and light, and is comfortable to sit on. Slip-on covers, following exactly the contours of the chair, are also available in various upholstery materials, bonded to a thin layer of latex foam. There are a variety of leg bases, in

dining, desk and lounge heights, including metal legs, with or without a wire strut base, and a stacking and interlocking base for large-scale seating. The Charles Eames chair in welded wire "basket work"—similar in shape to the glass fibre chairs—was also shown. It is hoped that these chairs will be available from April onwards, and prices will be from about £7 10s. 0d for the armless chair, according to the leg base.



Left: The Eames inspired fibre glass chairs made by Conran Furniture in a variety of colours are available now. The seat side of the chair is polished, but the back is natural rough fibre glass texture, as matching moulds are not used in their construction. The cost of the chair illustrated is £8 3s. 8d.

Far left: the "Aquila" easy chair is designed by Ronald Long for R. S. Stevens Limited. It is one of the simple rectangular types of upholstered chair which is gradually replacing the old bulbous stuffed variety. It has a beech frame with tension sprung back, upholstered with rubberised hair; arm padded with plastic foam and Latex reversible seat cushion supported on Pirelli Superelastic rubber webbing. Outside backs and arms are lined and padded with cotton felt. The detachable screw-on legs are available with brass ferrules. Available in a wide range of coverings. It costs just over £30.

Left: a new addition to the ranks of the light and elegant fully upholstered suites is this example designed by David Kester-Dodgson for Christie-Tyler Ltd. It is fully upholstered in a variety of covers. Chairs cost from about £32 5s. each according to cover.



It is in
idea b
design
Peter
& Son
with v

seating: continued



Far left: the "Flamingo" chair by Ernest Race is a further development in the use of the welded steel frame for upholstery, originated in this country by Ernest Race some twelve years ago. It is combined here with Latex and plastic foam cushioning to produce a comfortable chair with slim lines. The angle of seat and back provide a more upright sitting position than the lounging Race "Heron" chair. There is a matching settee and footstool. Price from £29 14s. 3d.

Left: one of the few interesting easy chairs is the "Scandart," designed by F. L. Bristow and D. W. Webb for Bristow & Townsend Limited. It has a beech frame, ebonized or finished walnut colour with a moulded Latex seat and back cushions, the cover is wool moquette. The price is £12 17s. 6d.



Below: a refreshing departure from the conventional settee is the "K'ang" sofa, one of the latest additions to Gomme's G-Plan range, allegedly inspired by the ancient Chinese. It has unequal length seats, and is made in right and left-handed versions, so that the two can be placed together to make a conversation piece. The price is from £72 12s. 6d.



Above and left: Cintique have introduced this new sectional seating in two-tone upholstery. It is a very ingenious design, as the basic unit can be used armless or with arms as two separate easy chairs. In addition to this they can be linked together and a corner unit is available so that continuous runs of seating can be formed, the end of a run being left without an arm, or an arm added as required. A single unit without arms costs from £15 15s, with arms from £25 15s., according to cover.



It is interesting to see the combined table and seat idea being developed and there are two well designed table/seater units available. Above left: Peter Hayward's combined unit for W. G. Evans & Sons Ltd. is made in mahogany, beech or teak with various veneers or Formica, with an uphol-

stered shaped cushion at one end. Price £10. Above right: David Kester-Dodgson's interchangeable unit designed for Christie-Tyler Ltd. consists basically of a table with a shaped rim, and one or two loose cushions. It is made of African walnut with either a light or dark finish,



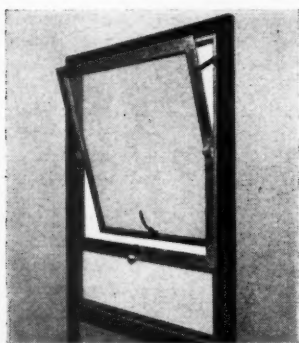
and the top is Wareite. The Latex foam cushions are available in a wide variety of covers and look very well when counter-changed as in the illustration. The price of a single-seater is from £8 4s. 6d. and the two-seater from £15 15s. 0d. both according to the cover.

HOPE'S

Standard Reversible Windows

CAN BE CLEANED, GLAZED
AND PAINTED FROM WITHIN

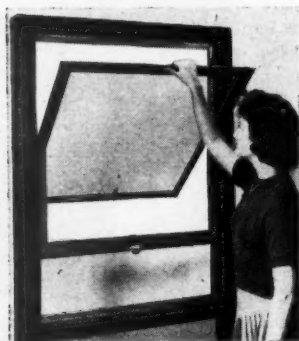
PATENT APPLIED FOR



1. Open for ventilation



2. Releasing the casement



3. Reversing the casement




4. Cleaning the outside

*Specially Designed to Reduce Maintenance
on Multi-storey Dwellings*

Send for List No. 352

HENRY HOPE & SONS LTD

Smethwick, Birmingham & 17 Berners Street, London, W.1

MEMBER OF THE METAL  WINDOW ASSOCIATION

beds



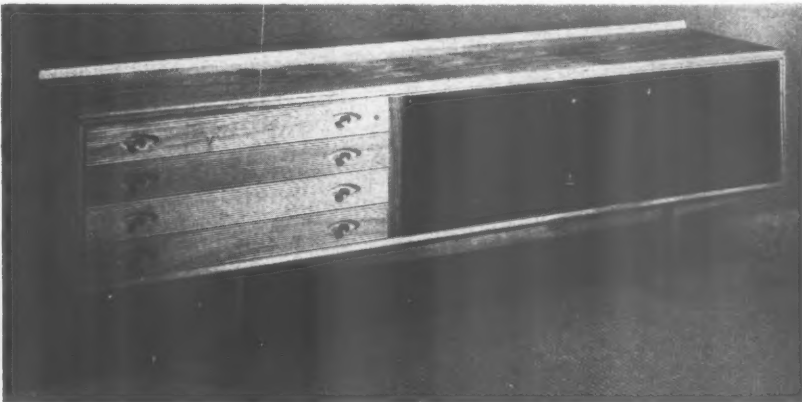
The main development in bedding seemed to be mainly technical improvements in springs and covers, but there are a few interesting developments. One or two manufacturers are offering modern versions of poster beds with draped hangings, but Gomme (above left) have gone the whole way and produced a full-blooded four-poster complete with canopy. The posts are



polished brass and the flower decorated friezes on the bed are woven in bright colours on a black ground. The remainder of the hangings are white. This approach to bed design is an impractical and retrogressive step, but it must be admitted that Gomme have carried it off with a finesse which has to be admired. Two sizes are available, 3 ft. and 5 ft. wide. Price for 3-ft. size £114 os. od.,

5-ft. size £140 os. od.; these prices include all hangings but not mattress. Above right: a rather more practical idea from Gomme is the 6-ft. headboard with attached pivoting frames on castors for twin beds, which saves the necessity for buying complete divan bases and which enables the two beds to be swung apart easily for making up. The beds may alternatively be used with one double mattress—or double sheets may be put over both beds, and the frames can be clipped together securely. The headboard is upholstered in a Chinese white washable material, studded with brass. Price for headboard only £21 13s. 6d. It is interesting to note that in both cases continental influence is shown, the common maximum size for English beds is 4 ft. 6 in. which has been increased to 5 ft. for the four-poster, and the linked twin bed used as a double bed, which is common continental practice, appears for the first time in this country.

storage furniture



Left: the conventional sideboard is becoming a long, low storage unit, commonly asymmetrical. Robert Heritage's sideboard designed for Archie Shine Ltd. is exciting by virtue of its extreme length, 7 ft. 6 in. overall. It is made of rosewood contrasted with mahogany or Indian Laurel and walnut, both in natural waxed finish, and it has brass handles. The appearance, in our opinion, is not helped by the decorative grooving of the drawer fronts which is a fussy and unnecessary addition to a piece of this size and quality. Price approximately £61 in England, but nearly £64 in Scotland!



Bottom left: the "Cavendish" 4 ft. 6 in. sideboard in mahogany with ebonized drawers with a drop down flap, has a sycamore interior. It is made by Golden Key Limited and is typical of the average restrained modern design which is being followed by many manufacturers.

Now being specified the world over



VENTURA

V.82
CEILING TYPE
26s. 8d.
PLUS 6s. 0d. TAX

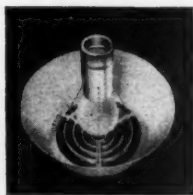
A NEW SERIES IN TRANSLUCENT WHITE-OPAL PLASTIC

Architects and Engineers all over the world are using Venturas for general lighting in schools, hospitals, offices and numerous other types of buildings.

The success of the Ventura is simple * Outstanding quality * Efficient and comfortable lighting * Simple erection and maintenance * Materials which permanently keep their pleasing appearance . . . and moderate prices.

If you have not yet seen or used Venturas may we send you our publication V.80 or better still a sample on loan?

MERCHANT ADVENTURERS LTD
16-43 PORTLAND ROAD
LONDON W.11
VENTURA DIVISION



V.80 Basic Unit
price 22/8 plus 5/2 Tax



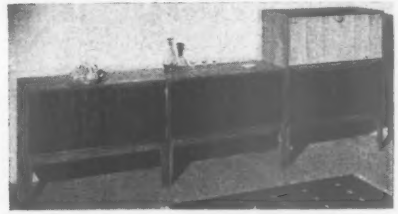
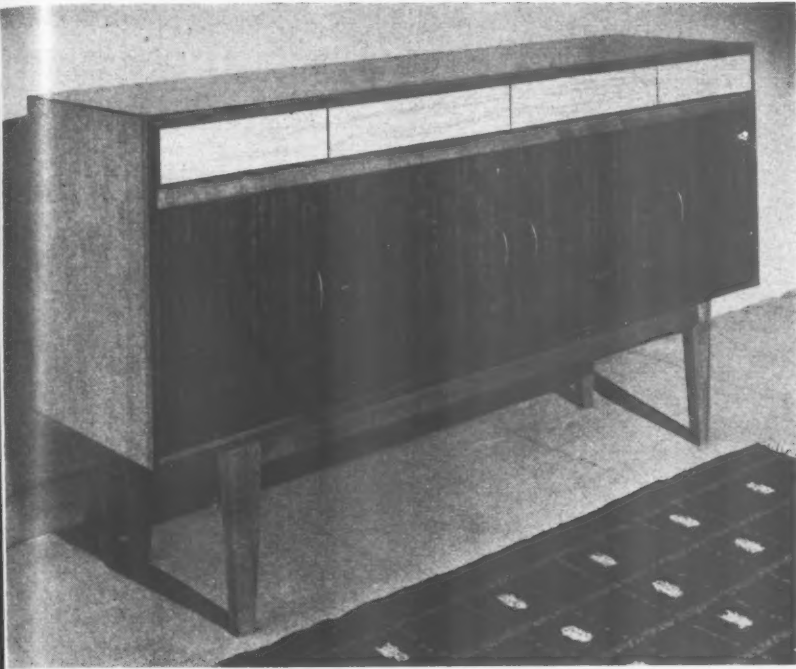
V.84 Cord Pendant
price 28/- plus 6/4 Tax



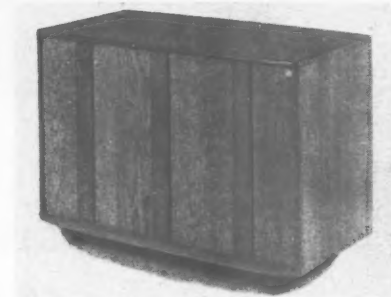
V.86 Tube Pendant
price 30/8 plus 6/11 Tax

The 12" louvred diffuser is completely non-static and is adjustable to take 200w, 150w, or 100w. lamps. Metalwork is aluminium anodised satin silver. Venturas are British Made. Registered Design No. 872852. Fully patented.

storage furniture: continued



Left: Gordon Russell Limited have produced a new sideboard with the carcass and base in teak, drawer fronts veneered with Prima Vera and doors veneered with Indian Laurel, and the handles are satin finished stainless steel. Hinges which pivot in the extreme corners of the doors allow the vertical joints between doors to line through with the joints between the drawers above, and this gives a very neat appearance. Every single problem of construction and jointing has been very carefully considered and meticulously detailed, which gives a quality which will appeal to many but not to those who want stark simplicity. The price is £100 7s. 3d. Above: slightly smaller storage units similar in form to the sideboard are made to be used together. There is far too little modular furniture of this sort available. Price of units from about £40.



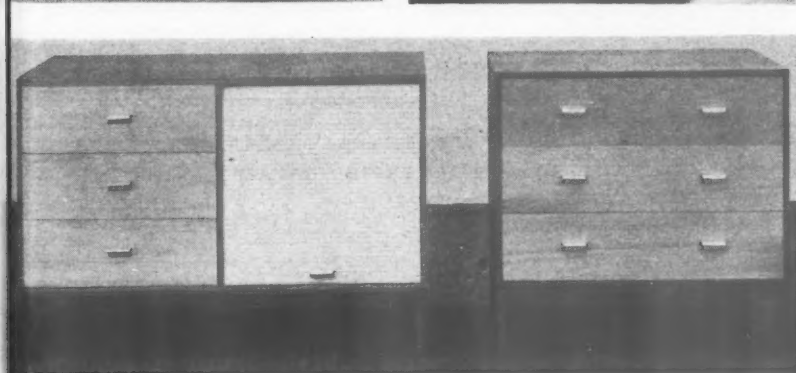
Far left: this well-finished three drawer chest by Ercol Furniture Ltd. is made entirely of solid elm and beech. The jointing of top to sides by means of continuous dovetailing is used as a decorative feature. The back of the unit is also well-finished and presentable (left), a point which other manufacturers would do well to consider. The return to the use of solid wood by this manufacturer is contrary to the general development of carcass furniture. The price is £29 10s. 0d.



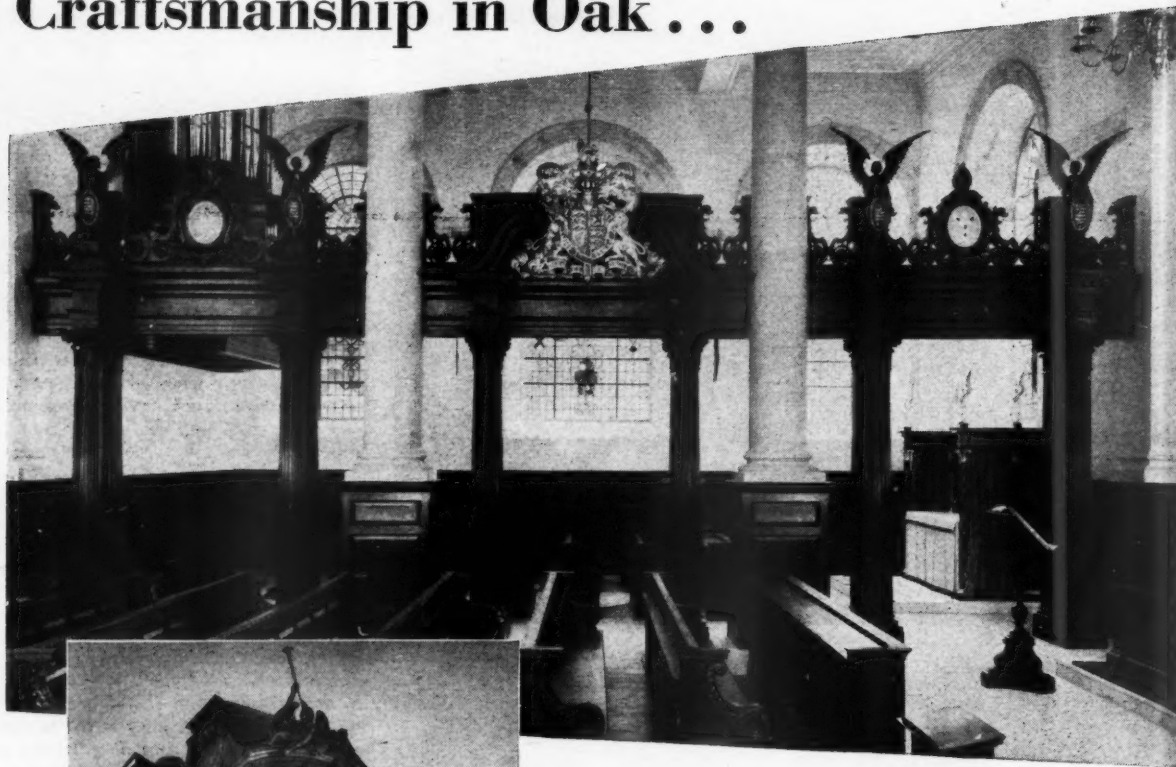
Far left: comparable in size and finish to the former example, this three drawer chest by the Stag Cabinet Company Ltd., designed by John and Sylvia Reid (architects), takes advantage of modern techniques. Part of the "C" Range, it is made from chipboard veneered both sides, with solid hardwood runners. It is available in natural oak, or walnut, and in the new version, illustrated, which has a walnut veneered carcass and white laquered front. It costs £10 15s. 0d. in oak, and £11 10s. 0d. in both walnut and walnut/white versions.

Left: this new seven drawer chest has been added to the G-Plan range of Gomme Ltd. This is in natural oak with a front panel of Chinese white lacquer and brass handles. It stands on black lacquered legs and has adjustable brass feet. It costs £26 12s. 6d.

Left: two units from the new range of Conran Bedroom Furniture. They are constructed of handrubbed teak and lined with sycamore, the fittings are satin-brass and the drawers are made of Lebanon cedar. An interesting feature of this range is the use of white plastic tambour shuttering in place of conventional doors. Storage chest £29 13s. 6d. Chest of drawers £22 1s. 6d.



Craftsmanship in Oak . . .



...at the Church of St. Lawrence Jewry

The solid English Oak used for the exquisitely-carved woodwork in the restoration of this ancient Church was supplied from the old, matured stocks which we hold for many years at our mill at Bury St. Edmunds to bring them to just the right condition for incorporation in such fine examples of modern craftsmanship.

Architect :—Cecil Brown, Esq.

Main Contractors :—Dove Brothers Limited

Architectural Joinery and Carving :—James Walker
(Architectural Decorations) Limited.

**William Mallinson
and Sons Ltd.**

TIMBER and VENEER MERCHANTS

130-150 HACKNEY ROAD • LONDON • E.2

Telephone: Shoreditch 7654 (15 lines)

Telegrams: 'Almoner', London

MANUFACTURERS OF PLYWOOD, ARMOURPLY, PANELS, COMPOSITE PARTITIONING AND INFILL PANELS

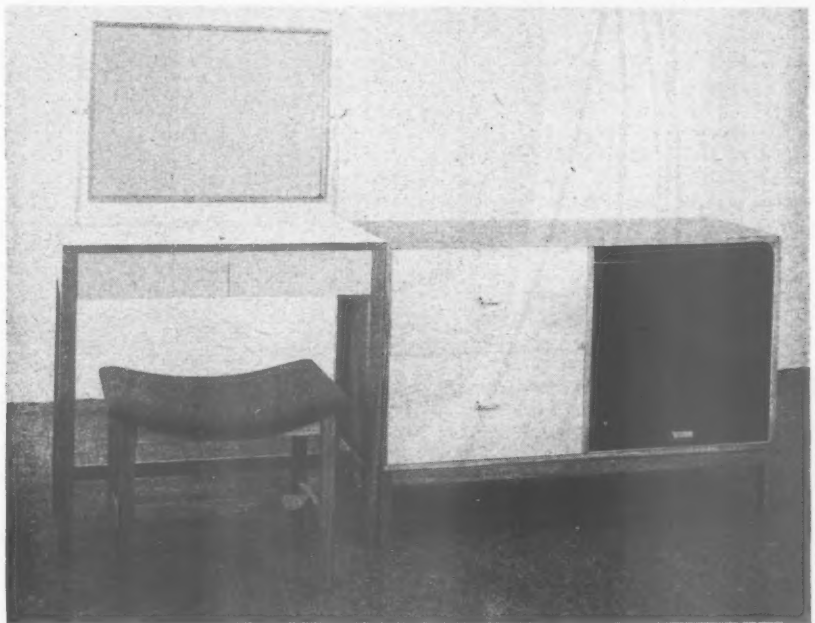
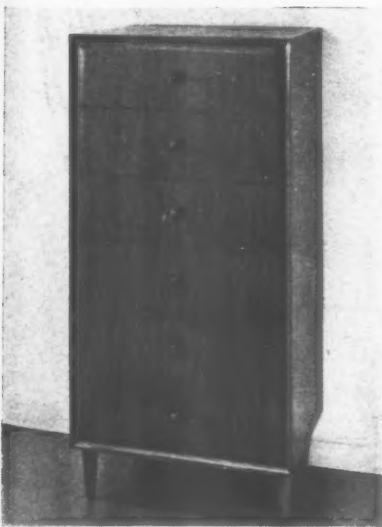
storage furniture: continued

Right: Ercol Furniture Ltd. also make this three-drawer dressing chest in solid elm and beech. The chest is mounted on bronze-finished Shepherd castors to allow free mobility and ease of cleaning. A sliding plate glass shelf is fitted to the top drawer. Note the wooden mirror movements which are used in place of the conventional metal ones. Price £37 15s. 0d.



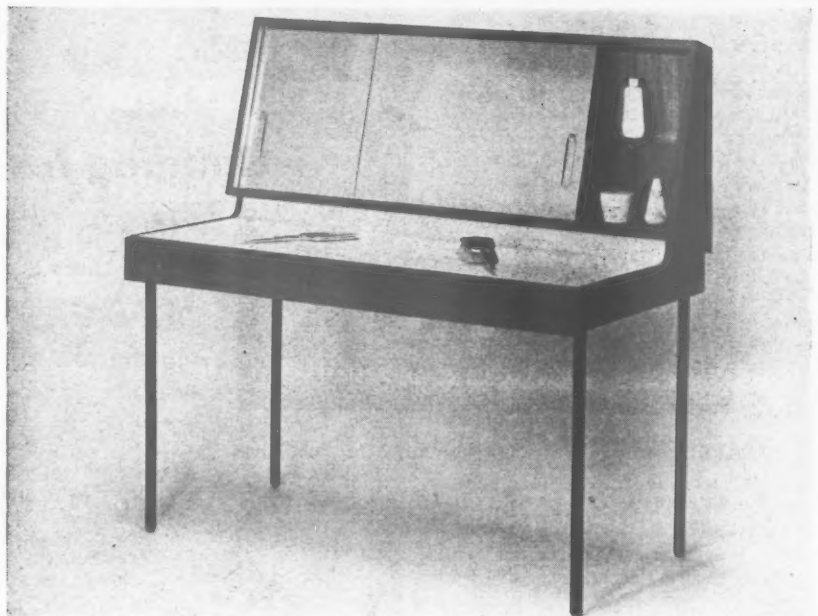
Far right: this new "boomerang" dressing table with shaped top and free kneehole between the four drawers has been added to the G-Plan range. The dressing table is freestanding, having a curved and polished back. Without the twin mirrors it can be used as a desk. The circular mirrors can be tilted at any angle and can also be fitted with lamps behind, which will reflect off the wall to give a soft diffused light. The unit is made in natural oak and Chinese white lacquer, or in walnut brown and black, and adjustable feet are fitted. It costs from £41 16s. 6d.

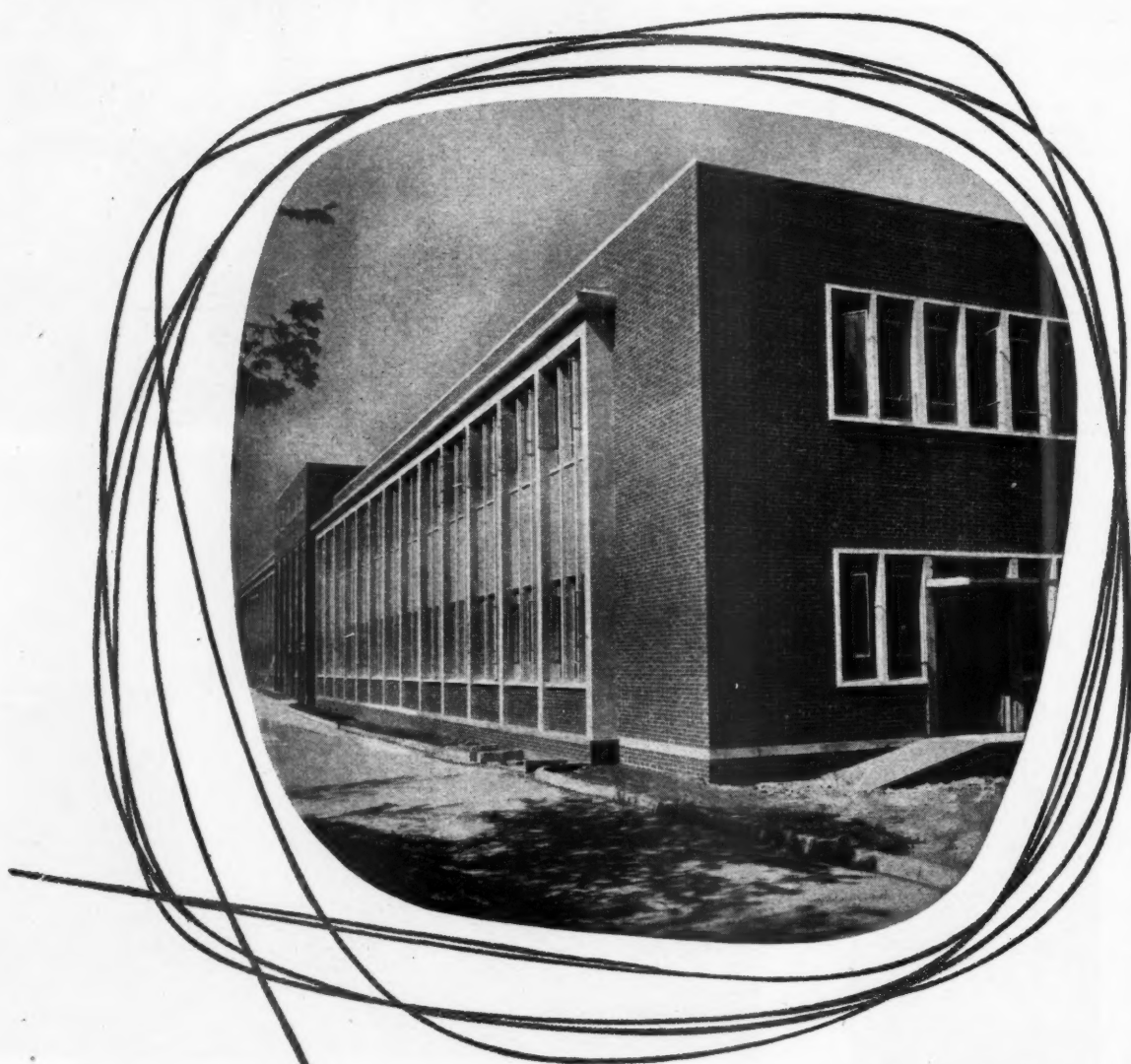
Below: this 2-ft. chest in walnut has been designed by the Meredith Design Group for Meredith Ltd. Note the continuity of the veneer over the six drawer fronts, a feature which enhances the simple appearance of this unit. This type of vertical drawer unit is becoming increasingly popular. Price £22 8s. 6d.



Above right: the new Conran Bedroom furniture has this simple dressing table with teak legs, cedar drawers, and a white Formica top. The adjustable mirror is framed in teak and has polished brass supports. It can be aligned with the other storage units in the range, and the price is £20 5s. 3d.

Bottom right: this unconventional dressing table designed for the Stag Cabinet Company by John and Sylvia Reid, has a formed-Formica top, three shallow drawers and two sliding plate glass mirrors which extend for the full width of the piece, and cover the glass-shelved, storage compartment. Its detachable steel tube legs are enamelled. It is available in natural oak or Australian walnut; the ends of the table being ebonised in both cases. It costs £24 5s. 0d. in oak and £25 10s. 0d. in walnut.





NEW PRODUCTION RESEARCH LABORATORY at The British
Petroleum Company's Research Station, Sunbury-on-Thames.
Architects: J. M. WILSON, H. C. MASON, & PARTNERS

Building for Industry

Richard
COSTAIN
Limited

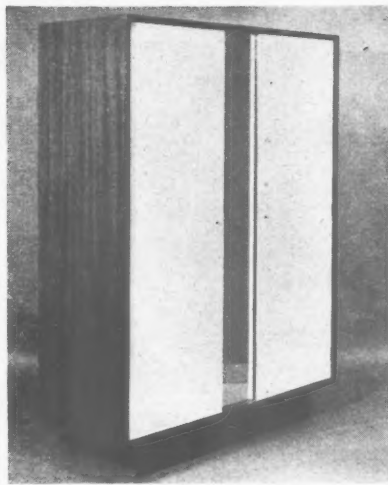
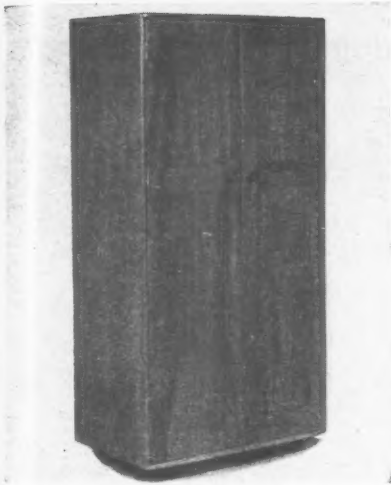
Building and Civil Engineering Contractors

111 WESTMINSTER BRIDGE ROAD · LONDON, S.E.1
Telephone: WATerloo 4977

With their experience and knowledge,
Costains can undertake any type of project
in the contracting field.

Middle East • Rhodesia • Nigeria • Canada • West Indies

storage furniture : continued



Far left: a 3-ft. hanging wardrobe made entirely in solid elm and beech produced by Ercol Furniture Ltd. The back is fully panelled and all interiors and the outside back are fully polished throughout. Price £49 10s. 0d.

Left: this is the new white faced version of the 4 ft. 6 in. double wardrobe in the Stag Cabinet Companies "C" Range, designed by John and Sylvia Reid. Veneered chipboard construction is used which makes the veneered interior completely flush, and another feature is the full-height central dressing mirror. Price in natural oak £35 0s. 0d. and in all walnut or walnut/white £36 10s. 0d. The wardrobes in this range can all be placed side to side, as can the other units.

kitchen units

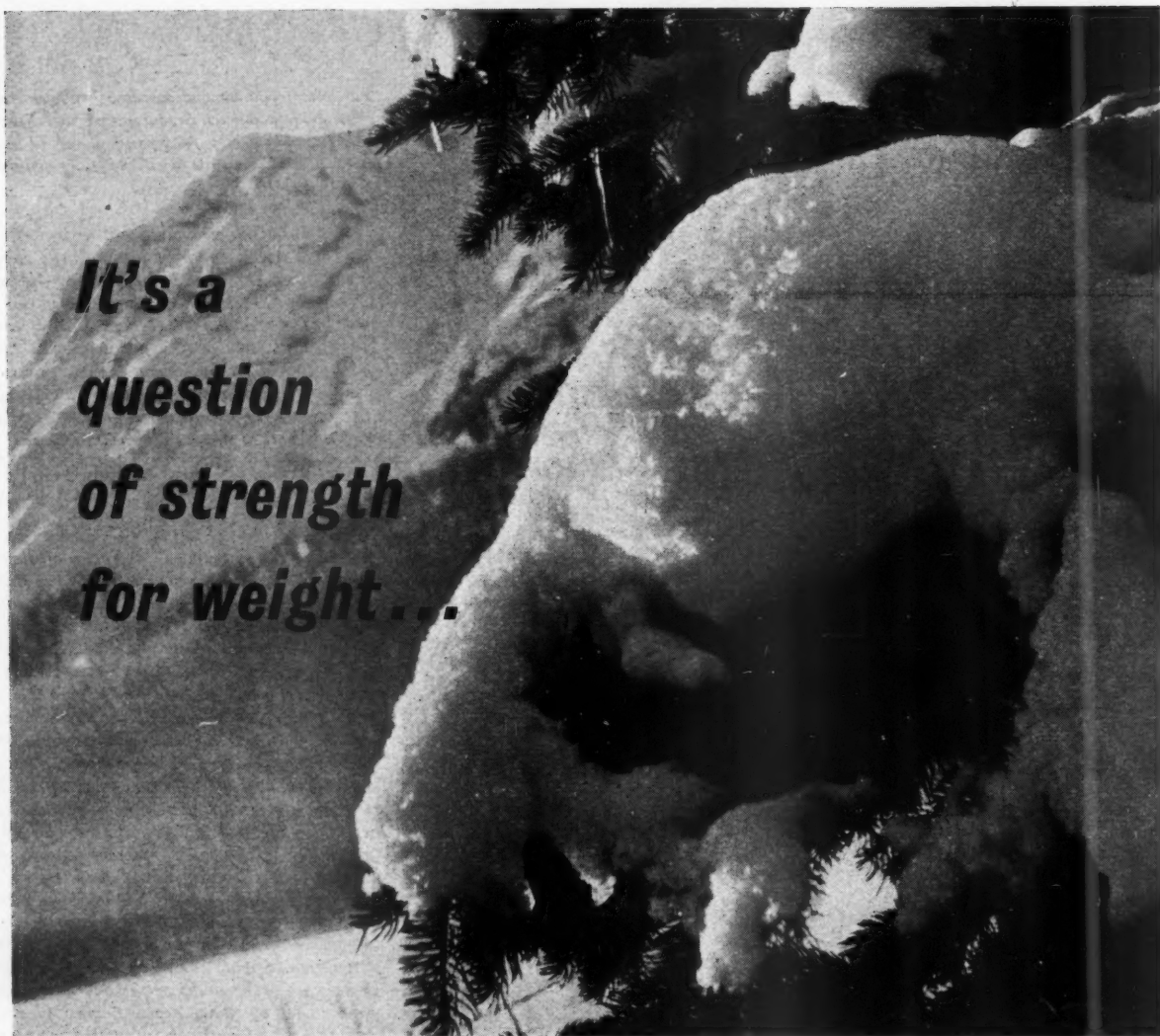
Two new ranges of kitchen units of architectural interest are shown at the Exhibition. Paul Bridson's designs for Kandya Ltd. (below) break new ground and have several extremely good

features previously lacking in kitchen units. The units are suspended by means of simple shaped battens fixed to the wall. This leaves the entire floor area free which makes cleaning much easier and visually it helps to make a kitchen look larger and neater. It also gives the units themselves a light and buoyant appearance. A series of metal underframes is available to stand the units on, where walls are unsuitable for supporting them. A great advantage of the suspended system is that the worktop height can be adjusted to suit individual requirements by positioning the fixing batten higher or lower as necessary. The sink unit can also be fixed at a preferred height, a most important latitude not allowed by the more conventional systems.

The units fit together neatly and the doors of the base units slide up and back into the unit, leaving the fronts completely open and without the obstruction of space caused by ordinary hinged doors when open, or the perpetually half closed front caused by sliding doors. Another pleasing feature is the separate plastic veneered worktop; these can be obtained in a variety of sizes to cover up to four units in one piece. An "L" shaped top for corner use is also available in a single piece with arms up to 96 in. long in one direction and 42 in. in the other—the maximum size allowed by the plastic sheets. This reduces the number of joints required in the worktop surfaces to the minimum, which is a good thing, for no manufacturer or designer has yet produced an entirely satisfactory method of joining adjacent tops. A unit with a very neat drop-down dining flap is also available. The colour range is pleasing and the finish is good. Prices are reasonable but difficult to quote in a comparative way owing to the variety of alternatives available.



Left: the "Californian" range of kitchen units introduced by F. Wrightson & Sons Ltd. is more conventional in approach but Nigel Walters has succeeded in designing a series of units with a clean, simple appearance, finished in well-chosen colours which architects will find far more attractive than the usual colours available. Well-designed, corrosion-resistant, anodised aluminium handles are used and worktops are covered with Formica. A neat corner unit with racks fitted to the door gives full use of a space to which access is normally difficult without cutting the corner.



*It's a
question
of strength
for weight...*

... and the answer is **TIMBER**

The Newsum system of prefabricated timber components for the building industry, is the solution to many of the difficulties that confront the architect and the builder. A well designed timber unit is, weight for weight, stronger than structural steel or reinforced concrete. So if it is a question of great strength, light weight and low cost, the answer is, without doubt, timber engineering. Newsums offer the architect and builder a comprehensive consultancy service on every aspect of timber engineering. Advice and assistance are available from the early design stage to final site work.

engineered by **NEWSUMS**

The Newsum range of Timber products includes:

TROFDEK: The proved lightweight decking for spans of up to 40 feet. **DIAFRAME**: A lightweight structural panel for spans up to 18 feet. **WAL-PAK**: A versatile, non-modular curtain walling system. **TROFDEK SHUTTERING**: Easily handled and adapted from one job to another it can be used at least ten times before resurfacing.



For full details and specifications please apply to the manufacturers:

H. NEWSUM SONS & CO. LTD., 238 High Street, Lincoln. Telephone: Lincoln 812
and at 28 St. George Street, Hanover Square, London, W.1. Mayfair 3453.

THE INDUSTRY

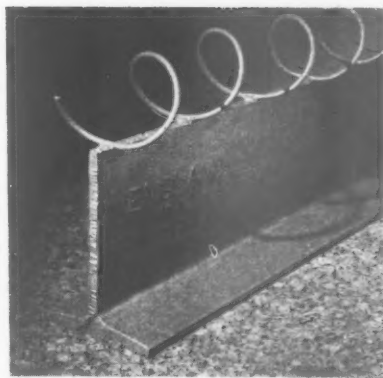
From the industry this week Brian Grant describes an instrument for measuring soil pressure and a composite structural steel beam.

Site measurement of soil resistance

The illustration on the right shows the general arrangement of the Geocel, a soil pressure measurement device invented by a Frenchman, M. Louis Ménard, and being marketed in this country and the Commonwealth by Millars Machinery. A borehole only 2 in. in diameter is required, and down this is lowered the testing cylinder, which consists of a rubber cell to be expanded by hydraulic pressure, with a dummy cell above and below it to keep the whole assembly central in the hole and ensure that the expansion is truly cylindrical. The cell is connected by a length of plastic tube to a gauge which measures the increase in diameter of the rubber cell as it is inflated against the sides of the bore hole, and a gauge to measure the pressure required for each stage of expansion. Readings are taken as the pressure is increased, and from them can be calculated the bearing capacity of the soil, its shear strength and various other figures. The apparatus is simple to use, and it is claimed that the necessary readings can be taken after an hour or so's instruction by anyone capable of working for a surveyor, though the interpretation of the figures is naturally more complicated. Since a number of readings can be taken quickly and it is not necessary to remove borehole samples for subsequent analysis, site surveys are considerably simplified, and the apparatus should be very useful on almost any site, particularly where a definite degree of compaction has been specified on contracts involving made ground. The whole apparatus fits in a 3-ft. box and weighs just over 1 cwt. with spare cells and gas cylinders. (Millars Machinery Co. Ltd., Pinners Hall, Great Winchester Street, London, E.C.2.)

Economy in structural steel

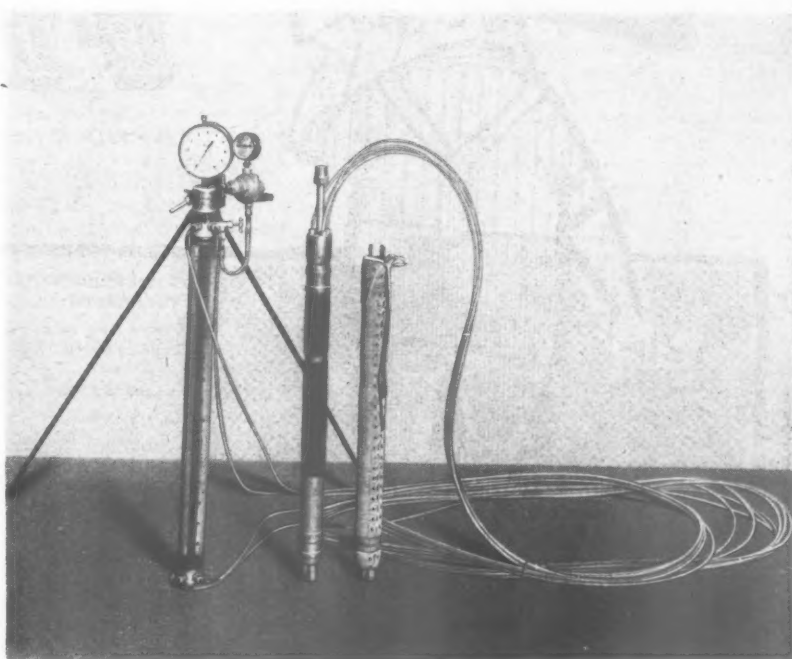
This method of construction is claimed to save up to 50 per cent. of the steel used in concrete floors carried by steel beams. With normal steelwork the upper flange of the joist is under little or no stress, the compression load being taken by the concrete. The Bowley composite beam consists of a Tee section (made either by cutting an r.s.j. along the centre or by welding together two plates) to the top leg of which is welded a spiral of steel wire, as shown in the photograph. The dimensions of the spiral wire are calculated according to the span and loading, and in effect the composite beam will have a bottom flange of steel in tension and a top flange of concrete in compression, the spiral stopping any slip between the concrete and steel, a double coil of wire being fixed at the ends of the beam to take care of increased shear. Standard steel erection methods are used, connections being made with bolts, cleats or welding, a small amount of extra continuity steel being used if a framed structure is designed with com-



The Bowley composite beam.

posite columns. The manufacturers provide a design service based on these beams, and will also carry out supply and erection. (Mackey Bowley & Co. Ltd., 21, Caledonian Road, London, N.1.)

The Geocel soil pressure measuring instrument, marketed by Millars Machinery.



Do you use versatile Fibre Board?

Over 700 million square feet of fibre building boards were used in the United Kingdom in 1957—more than double the amount of four years ago. And consumption is still rising. Here is a success story confirmed by hard facts and figures.

To-day there is a wider variety of fibre building boards available for building work of all kinds. Do you know all the different types of fibre board? Or the many sizes, thicknesses and surface finishes in which they can be specified? These important questions, and many others besides, are dealt with in a new booklet produced by FIDOR. To obtain a free copy

of this guide to the full range of fibre boards normally available from stockists, please send the coupon below.



Have you had a copy of this booklet?

FIDOR

The FIDOR Technical Advisory Service is freely available to architects and builders.

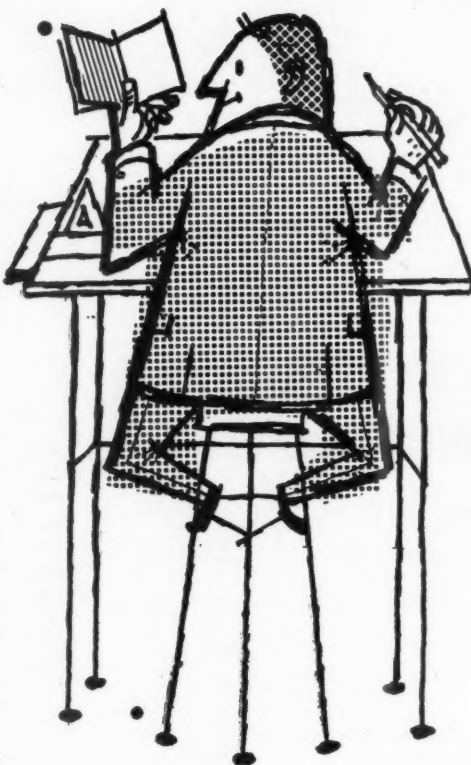
To the FIBRE BUILDING BOARD DEVELOPMENT ORGANISATION
47, Princes Gate, London, S.W.7.

Please send me a free copy of your guide to the availability of fibre building boards.

NAME _____

COMPANY _____

ADDRESS _____ (E)



technical section

CLASSIFICATION FOR TECHNICAL ARTICLES
AND INFORMATION CENTRE

1 Sociology. 2 Planning: General. 3 Planning: Regional & National. 4 Planning: Urban & Rural. 5 Planning: Public Utilities. 6 Planning: Social & Recreational. 7 Practice. 8 Surveying & Specification. 9 Design: General. 10 Design: Building Types. 11 Materials: General. 12 Materials: Metal. 13 Materials: Timber. 14 Materials: Concrete. 15 Materials: Applied Finishes & Treatments. 16 Materials: Miscellaneous. 17 Construction: General. 18 Construction: Theory. 19 Construction: Details. 20 Construction: Complete Structures. 21 Construction: Miscellaneous. 22 Sound Insulation & Acoustics. 23 Heating & Ventilation. 24 Lighting. 25 Water Supply & Sanitation. 26 Services & Equipment: Miscellaneous. 27 Furniture & Fittings. 28 Miscellaneous.

INFORMATION
CENTRE

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

7.63 practice
SITE MANUALS

The Clerk of Works Manual, by G. W. Harris. *The Foreman's Manual*, by E. Carran. (Crosby Lockwood & Son Ltd. 10s. 6d. and 15s.)

"The duties of a Clerk of Works," says Mr. G. W. Harris, in the revised edition of *The Clerk of Works Manual*, "are mainly to assist the architect in watching the progress, to see and know that the craftsmen are good and efficient . . . that all materials are in accordance with the specification. The Clerk of Works should not allow any faulty materials to be used . . . and should inspect the materials immediately on arrival."

It is indeed within the power of the Clerk of Works to raise the standard of building, and there is a store of practical wisdom in this small book which guides the way to secure the highest quality. Faced with an array of the latest woodworking machinery at the Building Exhibition someone was heard to remark that the manufacture of joinery was probably the most highly mechanized section of the industry and yet quality was so often lowered in adverse ratio. The Clerk of Works, following his *Manual*, would send back the first bad delivery and if he did so everyone would probably be very happy with subsequent consignments. This book discusses relations with the general foreman, weather reports, builders'

claims for extras and the Clerk of Works own working hours. It contains practical guidance upon what to seek out trade by trade.

Every architect might well present a copy to his Clerk of Works, and test him on its application at every site visit. The Army inspection method, today buttons, tomorrow blanco, has much to commend it. Today perpendicular joints, tomorrow priming of joinery! Equally the young or student architect would visit his sites with greater courage and confidence armed with this manual in his pocket.

The Foreman's Manual has a whole chapter on the Vernier Scale and a third of its 200 pages on the design of steelwork. "A guide to supervision" says the jacket. Mr. Carran asks many questions. He cannot understand why most foremen are either bricklayers or joiners. He will find the answer to this and other questions in the *Clerk of Works Handbook*. It is interesting to read that "the architect sometimes arranges the payment of subcontractors directly by his employer, and that when this happens the main contractor may lose his discount." It is not easy to understand how this concerns the general foreman.

8.58 surveying and specification
ESTIMATING

Spons Architects and Builders Price Book. Edited by Davis, Belfield and Everest (E. & F. N. Spon Ltd. 83rd Edition 1957-58 30s.)

This latest edition is a fraction thicker than its predecessor and costs 2s. more. The prices take account of the wage award of last May and of materials prices last April, otherwise it is exactly the same as the previous edition except for one thing.

Last year, Davis, Belfield and Everest, the authors, introduced a new feature which they called "comparative prices"—a long list of wallings, partitioning, finishes, floor constructions, floor finishes, and roofs against each of which was a price per sq. yard. There were in fact seven close pages of such information and it was intended for those wishing to work out their own approximate estimates. The simple and unified system made it intelligible to the cost conscious architect, who could use it in working out his methods of construction to fit the target prices of a cost plan. This valuable feature is retained in the new edition—indeed it has been extended to include a page of external paving prices. One other sensible change in the book is that the table of part building costs no longer starts with 1939 as 100. It starts with 1949 and shows incidentally that building costs have risen 39 per cent since that date.

The authors ask for suggestions to improve the book. Here are two: Architects need a great deal of leading by the hand; could the preamble at the top of Comparative Prices explain how the prices can be used to build up an element price in a cost

plan? For example, what size of job do they assume? Do they include overheads and profit, discount, etc.? It is more constructive for architects to plan their costs in advance than to improve their approximate estimating. Spons could assist this aim. The second suggestion is that the foot cube prices of different types of building be abandoned and foot super prices be given instead—to protect the reader from the statistical fallacies that the foot cube method conceals. These criticisms apart, we welcome once more the best, and the best looking, of the "price" books.

13.137 materials: timber
PLYWOOD

Plywood. (TDA 4s.)

This is the most authoritative and comprehensive handbook yet produced on the subject. The word "plywood" is used in the title in its broadest sense to include blockboard and other composite boards. The contents include physical characteristics, manufacture, adhesives, imported and British grades, sizes and thicknesses, types of board, decorative veneers, shaping and moulding, finishes and protective treatments, and structural data. There are extensive appendices giving grading rules, details of the various types of board and of the timbers of which they are made.

Further description of the book is unnecessary here, for since it is a "must" for every architect's office it is better to let readers see for themselves. It should be said, however, that the TDA are to be congratulated on the production, which is a model for publications of this kind.

13.138 materials: timber
TIMBER FOR FLOORS

Timbers for Flooring. (FPRL. Bulletin No. 40. HMSO. 2s. 6d.)

This Bulletin deals exhaustively not with the timbers, as its name would imply, but with methods of testing. The part likely to be of use to the architect is the appendix, which gives (as a result of the tests) a very full list of hardwoods and softwoods suitable for floors of various types.

13.139 materials: timber
WOOD SPECIMENS

A Second Collection of Wood Specimens. Edited by Patrick Nairn. (Tothill Press Ltd. 63s.)

One of the best features of our contemporary *Wood* is the regular appearance once a month of a superb coloured photograph of a specimen of timber reproduced to full size. This feature has been going on since 1936 and the first collection was published shortly after the war. This is the second. It contains 100 specimens with notes on each. The photographs are probably the most faithful record of the appearance of woods that can be got, and on this score alone the book is a most useful asset to an architect's office (though it is clearly

Plenty of white lead in an outside paint makes it last and protect. Magnet contains large proportions of white lead. That is why it lasts and protects for years in the most exposed situations. Magnet is the modern white lead hard gloss paint. NOW IN 40 COLOURS.

MAGNET

FOR THE

OUTSIDE

WHERE

PAINT

MUST DO MORE THAN DECORATE

ASSOCIATED LEAD

MANUFACTURERS LIMITED

LONDON • NEWCASTLE • CHESTER

technical section

important to have the first volume as well). The notes are very readable, but tend to be of botanical rather than of practical interest. Though they conclude with mention of the use of each timber, they do not give technical data, such as range of moisture contents. Perhaps these could be added in future editions without great difficulty.

18.192 construction: theory STRUCTURES TEXTBOOK

The Design of Structural Members; with model answers to the RIBA Intermediate Examination, by H. T. Jackson, F.R.I.B.A., A.M.I.Struct.E. The Architectural Press 25s.)

Theory of structures rightly or wrongly divides the minds of architectural students between, on the one hand, a mixture of fear and awe of maths, science and examination and on the other a felt interest in safe and economical structural design as an essential ingredient to good architecture.

This book should succeed in its primary object, namely to allay the worries of the former class when faced with the RIBA "Inter." Practice being the best master, its numerous examples meticulously worked out and carefully explained should bring order and pattern to what is often otherwise an apparently incoherent accumulation of formulae and facts. It would have rounded the book off nicely if some problems, with check answers only, had been included for the reader to work out as a test of his new-found confidence.

The paragraphs clarifying many of the RIBA questions are illuminating and result in valuable analyses of the factors involved in structural problems. Indeed, excepting questions of a very late date, many RIBA problems could have been improved considerably by such attention before they were set.

As a reference book this is less successful, although perhaps one ought not to judge before the "big brother" on the "Finals" has been published, so that both volumes may be seen together. It would seem that of necessity the basic theory is somewhat lost in the multitude of questions and answers. In detail one must criticize for example the lack of distinction between force and stress, the association of "E" with the strength of materials in some places, a somewhat inadequate section on columns and the use of 6 valid digits in decimal fractions and vulgar fractions such as 187/38 for a length in inches, both types of fraction being remote from practical significance and experience.

To be fair it must be added that despite such criticism the exposition is generally very lucid and readable. The chapters on eccentric loading, truss analysis, rivets and bolts, brick walls and retaining walls are the best and of general value, the last-mentioned almost too good.

This book is recommended as an excellent refresher before the RIBA Intermediate examination.

18.193 construction: theory STRUCTURAL DATA BOOK

The Structural Engineer's Data Book. Derek A. Creswell and John H. G. King. (Sir Isaac Pitman & Sons, Ltd. 35s.) There has long been a need for a small reference book whose scope would fall somewhere between the full-blown structural engineering textbook and those valuable structural notes in the front of professional diaries, and here it is at last. The title, however, may be misleading, for the book might have been written specially for the architect with an interest in (but no very specialized knowledge of) structural design.

It is divided into nine sections: the first of these deals with the theory of structures, the next four with design procedure for reinforced concrete, steel, timber, and brickwork and masonry structures, and the sixth section covers soil mechanics. There are then two which are in the nature of appendices—a section on loadings, BSS, and materials, and another giving mathematical tables and other similar data; including a list of the weights of materials which is most comprehensive, as the following short extract will show: Blocks (partition precast, concrete, solid), Blood, Bone, Books, Borax. Bottled goods (in cases), Boxwood. . . .

The last section is a most useful guide to surveying practice. Each section contains its own index, and the book is bound in a loose-leaf binder with protruding card separators between sections. The authors point out that loose binding will enable any portions which eventually become out-dated to be replaced, and also permit the insertion of the user's own notes; the publishers hope to issue revised pages from time to time. The book is most useful to the architect because it not only contains all the main data necessary for the design of common structural types but also gives a brief résumé of the principles involved. It should, however, be pointed out that it is not a textbook, and its successful use does presuppose a basic knowledge of the subject.

In order to limit its size, the scope of the book has stopped short of the more advanced type of structure such as shell and prestressed concrete.

18.194 construction: theory REINFORCED CONCRETE DESIGN

Reinforced Concrete. J. McHardy Young. (Crosby Lockwood & Son, Ltd. 1957. 12s. 6d.)

Third edition of elementary textbook for students revised in accordance with the new r.c. code.

The textbook covers beams and slabs, columns, foundations, walls and stairs, though in a very condensed form. A little more explanation of the theory would have been more helpful. There are also several inconsistencies between the book and the new code.

19.211 construction: details SCREEDS

Pavior: Screeds. W. G. Gregory. (Hong Kong University Press. 3s. 9d.)

This is the first of a new series of booklets on *Materials and Techniques in Building Practice*, to be published from time to time by the Hong Kong University Press. It is pointed out that special account will be taken of conditions in Hong Kong and tropical countries, but so far as this first book is concerned there is little which is not also relevant to conditions in this country.

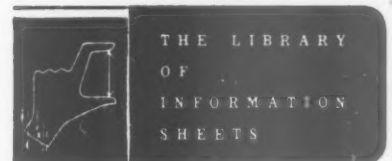
The booklet deals with screeds for every purpose in a most thorough way, without losing the essential quality of ease of reference. As there is no comparable publication on the subject produced in this country, it is well worth having.

27.20 furniture and fittings SCHOOL FURNITURE

School Furniture. (LCC. 15s.)

This is a very pleasant little picture-book showing all the excellent examples of school furniture designed by the Architects' Department of the LCC. The book is divided into five sections, dealing with furniture types for storage, working surfaces, combined storage and working surfaces, seating, and miscellaneous. Each item is illustrated by a photograph and a small drawing giving overall dimensions, accompanied by three short paragraphs of descriptive text.

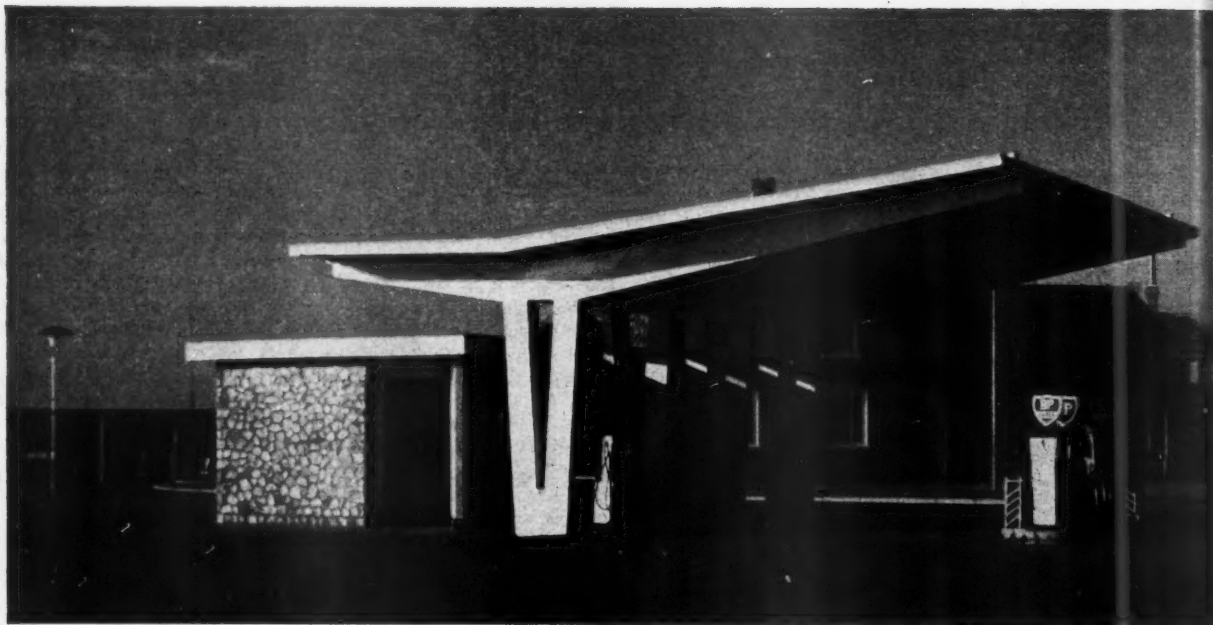
The purpose of the book is not at all clear. The inadequate introduction merely says that "these designs are intended primarily for consideration by teachers and by architects, but they are published in the hope that they may also be of value to others interested in equipment design." This would indeed be so, for the designs embody a great deal of useful research quite apart from their pleasing appearance. But the book tells us nothing of this, neither does it say which designs are available on the general market (*i.e.*, have been put into mass production by the manufacturer). The LCC has a first-class trumpet to blow, and it should be able to blow it better than this.



15.B3 CANCELLATION

Readers are asked to note that 15.B3, published 1.12.55, is cancelled and should be removed from collections: it is replaced by 15.B3, published in this issue.

BUILDINGS IN THE NEWS



Service station at Hythe, Kent

The service station above, which overlooks the sea, was designed by Wallis, Gilbert and Partners (architect-in-charge John Ware, assistant architect Michael Wolstenholme). The cantilevered r.c. canopy has an overhang of 22 ft. Total cost was £10,057; quantity surveyors Wilson Colbeck & Partners; contractors C. Jenner & Sons.

St. Columba's Church at Bolton

The church below, designed by Greenhalgh and Williams, has glued laminated-timber arches with an overall span of 46 ft. 6 in., the height to eaves being 18 ft. and to ridge 31 ft. 6 in. They were manufactured in twelve weeks by William Fry (Bolton) Ltd., and Leicester Lovell and Co. Ltd. manufactured the "one shot" glue.

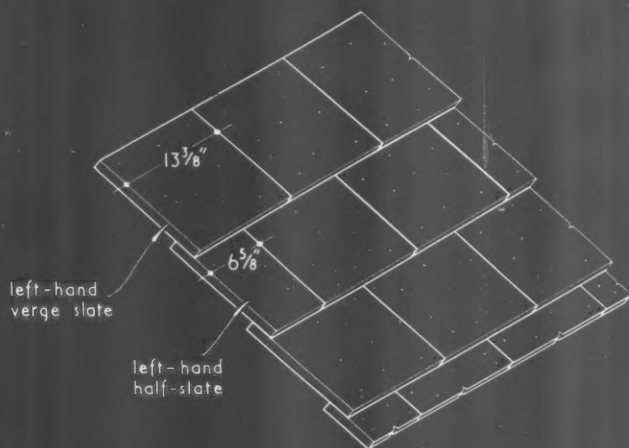


d
e
e
d
.

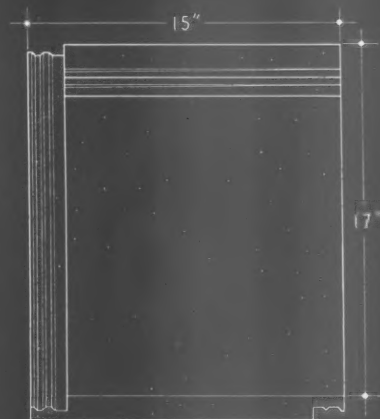
TILES | CONCRETE | GENERAL DATA

17.D3

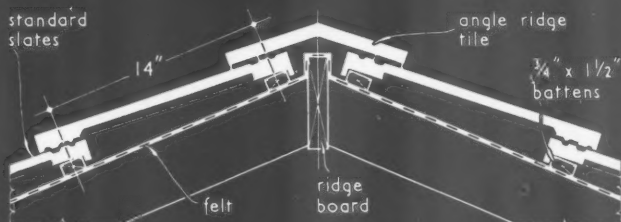
The Architects' Journal Library of Information Sheets 657. Editor: Cotterell Butler, A.R.I.B.A.



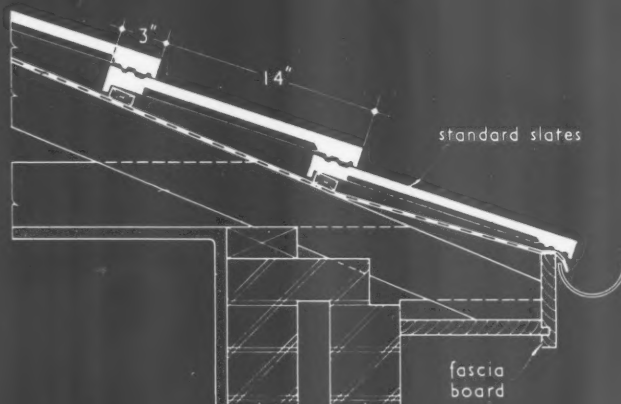
ISOMETRIC SKETCH OF SLATES AS LAID.



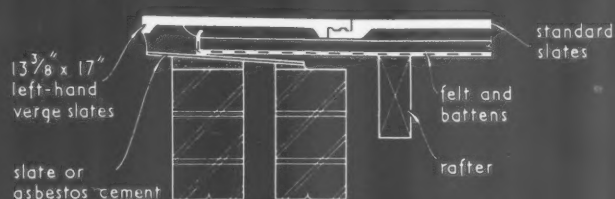
STANDARD SLATE.



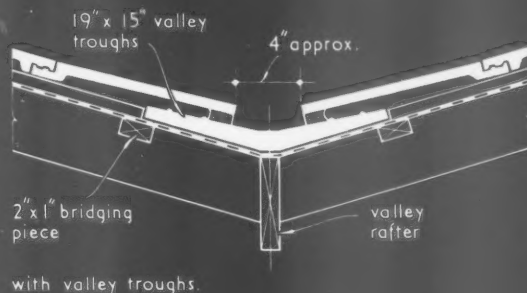
SECTION THROUGH RIDGE.



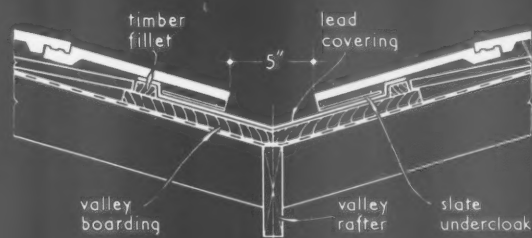
TYPICAL DETAIL AT EAVES.



DETAIL OF LEFT-HAND VERGE.

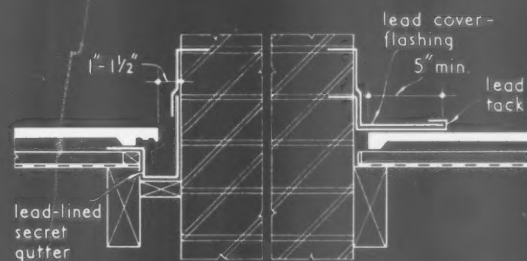


with valley troughs.



with lead covering.

ALTERNATIVE VALLEY DETAILS.



ALTERNATIVE ABUTMENTS.

17.D3 · REDLAND STONEWOLD · INTERLOCKING SLATES

This Sheet describes Redland Stonewold interlocking slates which are designed for roofs of low pitch.

Description

The slates are of concrete and the material and crushing and breaking strengths are to BS. 550: 1956. They have been specially produced to accommodate pitches of $22\frac{1}{2}^{\circ}$.

The slates are single-lap, with nibs which give a firm hold on the battens, so that no nailing is required. The slates are laid with broken bond, so that the finished appearance of the roof resembles stone. Half-slates are available for left- and right-hand verges, and special slates without the interlocking edge for alternate courses of left-hand verges. Angle tiles for hips and ridges, of the same colours and texture as the slates, are also available, 110° , 120° or 140° as required.

Sizes

The slates are 17 in. by 15 in., giving a covering width of $13\frac{3}{8}$ in. (0.90 slates per foot run of eaves).

Weight

Laid to a gauge of 14 in., the slates weigh approximately $9\frac{1}{2}$ cwt. per square.

Covering Capacity

The net covering capacity is 77 slates per square laid to a gauge of 14 in.

Preparation of Roof

Untearable felt to BS. 747 should be laid over the rafters, lapped 3 in. horizontally and 6 in. vertically. It should be carried well into gutters and secured with clout nails. Softwood tiling battens, $1\frac{1}{2}$ in. by $\frac{3}{4}$ in., to BS. 1318, should be laid at 14-in. centres and any joint should always be in the centre of the top face of a rafter.

Laying

The slates are laid in even courses, broken-bonded, as shown in the isometric drawing on the upper left face of the Sheet, to a gauge of 14 in. maximum (3 in. minimum head lap). The gauge may be reduced, if necessary, to suit the length of rafters. All mortar used for bedding and pointing should be 3 parts sharp sand to 1 part Portland cement. Bedding mortar should be struck off to give a smooth face.

Ridge: Ridge tiles of the appropriate angle for the pitch are bedded on the slating.

Hips: These are formed similarly to the ridge, a galvanised hip iron being screwed to the foot of each hip rafter to support the slating.

Eaves: The first course of slates is laid over the fascia board without bedding or an under-eaves course. Excessive tilt at the eaves should be avoided.

Verge: The right-hand verge is formed with half-slates and full slates in alternate courses. The left-hand verge is formed with half-slates alternating with special slates on which the interlocking edge is omitted. All verges are to be bedded on a slate or asbestos cement undercloak and excessive tilt should be avoided.

Valley: Two methods of forming a valley are shown on the face of the Sheet. The first utilises Redland valley troughs, which are available in the same colours and texture as the slates. The second has a lead lining, supported on valley boarding. The trough is exposed for a width of approximately 4 in. and the adjacent slating cut and bedded. With the lead-lined valley, the slates are bedded on a slate undercloak.

Abutments: The details on the face of the Sheet show alternative arrangements at abutments, a lead-lined secret gutter and a coverflashing. For the secret gutter, the slates are cut to within 1 in. to $1\frac{1}{2}$ in. of the abutment. With the coverflashing, the slates are cut as close as possible to the abutment and 4 lb. lead dressed close to the surface of the tiles extending at least 5 in. over them. Where the abutment exceeds 2 ft. 6 in. in length a lead tack in the centre of the slate in alternate courses restrains the edge of the lead against wind lift. The lengths of lead sheet used for coverflashing should not exceed 7 ft. 0 in., with 8-in. laps between them.

Colours

The slates are available in three slate or stone colours.

Further Information

Where a trussed roof is required, truss designs are available from the manufacturer for pitches from $22\frac{1}{2}^{\circ}$. The manufacturer maintains a technical advisory department which is available to answer questions and advise on problems dealing with this subject generally.

Compiled from information supplied by:

Redland Tiles Ltd.

Address: Castle Gate, Reigate, Surrey.
Telephone: Reigate 4781 (10 lines).

BUILDING BOARD | GENERAL DATA

15.B3

The Architects' Journal Library of Information Sheets 658. Editor: Cotterell Butler, A.R.I.B.A.

TRADE NAME	DESCRIPTION AND APPLICATIONS		THICKNESS	APPROX. WEIGHT / SQ. FT.	STANDARD SIZES
Royal hardboard: standard quality	long, tough wood fibres made into hard, homogeneous sheets of great strength smooth, durable face. for internal use: furniture and fittings, panelling		1/8"	0.75 lb.	4'-0" x 12'-0", 10'-0", 9'-0", 8'-0", 6'-0", also cut from 5'-3" x 18'-0"
			3/16"	1.0625 lb.	4'-0" x 12'-0", 10'-0", 9'-0", 8'-0", 6'-0", 5'-3" x 8'-0"
Royal hardboard: standard quality, door panels	for flush doors		1/8"	0.75 lb.	<p>specifically cut to door manufacturers' requirements e.g.</p> 6'-8", 6'-6" x 2'-8 1/2", 2'-8", 2'-6", 2'-5 1/2", 2'-2 1/2", 1'-11 1/2", 7'-0" x 3'-0", 6'-6" x 5'-3" etc.
Royal oil-tempered hardboard	long, tough wood fibres made into a homogeneous sheet, tempered by a special process and rendered highly water-resistant, stronger and harder than standard quality for floor finishes and all external work: concrete form lining: caravans and body building		1/8"	0.75 lb.	4'-0" x 12'-0", 10'-0", 9'-0", 8'-0", 6'-0", 5'-3" x 8'-0"
			3/16"	1.0625 lb.	
Royal perforated hardboard	type A: holes at 1/2" centres	available in standard and oil-tempered boards. for interior decoration, 'pegboard' shopfitting display, vent covers, surfacing for acoustic materials holes 3/16" dia. punched in rows parallel to board edges	1/8"	0.75 lb.	4'-0" x 12'-0", 10'-0", 9'-0", 8'-0", 6'-0", 2'-0"
	type B: holes at 3/4" centres				
	type C: holes at 1" centres		3/16"	1.0625 lb.	

ROYAL HARDBOARDS: RANGE, SIZES AND TYPICAL APPLICATIONS.

Compiled from information supplied by Spencer Lock and Company Ltd. for Aktiebolaget Statens Skogsindustrier.

15.B3 · ROYAL · HARDBOARD: RANGE, SIZES, PROPERTIES AND TYPICAL APPLICATIONS

This Sheet describes the general properties of Royal hardboards. The table on the face gives a brief description of the range, standard sizes available and the general applications for each type of board. The following notes give further details of their properties.

Description

Royal hardboard, standard quality: The face of the boards is hard and smooth and the reverse has the markings of the wire mesh screens on which the boards are formed. They may, if required, be proofed in manufacture against attack by destructive insects.

Royal oil-tempered hardboard: This board has an extra hard surface with a fine finish. The reverse side has the markings previously described.

Royal perforated hardboard: This is available as follows:

Type	Centres of perforations	Margin round edges	Surface area removed (approx.)
A	$\frac{1}{2}$ in.	$\frac{1}{4}$ in.	11 per cent.
B	$\frac{3}{4}$ in. (20 mm. approx.)	$\frac{3}{8}$ in.	5 per cent.
C	1 in.	$\frac{1}{2}$ in.	2.75 per cent.

The close texture of Royal hardboard makes it possible to punch clean holes, which are an asset where the board surface is to be painted. The density and strength of the board also ensures that the holes retain their shape when used for "pegboard" display work. Type A may be used to give a hard, durable facing to acoustically-absorbent materials as, having 11 per cent. of the surface area removed by perforation, it does not impede the passage of sound in the lower and medium frequency ranges.

Properties

The figures given below are for standard quality and oil-tempered hardboards.

Property	Royal standard quality hardboard	Royal oil-tempered hardboard
Density, lb./cu. ft.	62.1 to 65.0	67 to 70
Modulus of rupture, lb./sq. in.	8,000 to 9,300	11,600 to 12,700
Tensile strength, lb./sq. in.	4,600 to 5,400	5,700 to 6,700

Water resistance: Royal hardboard does not disintegrate when in constant contact with moisture and on drying out the boards regain a high percentage of their original strength.

Water immersion tests show that, after being in water at 20° C. for 72 hours, the standard boards, on being dried, regain 85 per cent. of their original tensile strength and modulus of rupture. The oil-tempered boards, subjected to the same test, regain 90 per cent. and 95 per cent. of their tensile strength and modulus of rupture respectively.

Fire-Retardant Treatments

Tests, as described in BS. 476 : 1953, for classifying a material according to its surface spread of flame,

were carried out by the Department of Scientific and Industrial Research and the Fire Officers' Joint Fire Research Organization on samples of Royal hardboard treated by the following methods, names and addresses of proprietors of which are given in each case:

Impregnation

Ignicide process: Royal hardboard, standard quality, was placed in Class I, surfaces of very low flame spread. (Stanley Smith & Co., Worpole Road, Isleworth, Middlesex; telephone Hounslow 3406.)

Oxylene process: Royal hardboard, standard quality, was placed in Class II, surfaces of low flame spread. (The Timber Fire-proofing Co. Ltd., 13A, Old Burlington Street, London, W.1; telephone Regent 2489 (2 lines).)

Elgon process: Royal hardboard, standard quality, was placed in Class II, surfaces of low flame spread. (L. & G. Fire Appliance Co. Ltd., Caxton Street North, London, E.16; telephone Albert Dock 3991.)

Pyrolith process: Royal hardboard, standard quality, was placed in Class II, surfaces of low flame spread. (Hicksons Timber Impregnation Co. (Great Britain) Ltd., Head Office: Ings Lane, Castleford, Yorkshire; London Office: 8, Buckingham Palace Gardens, London, S.W.1; telephone Sloane 0636.)

Surface Treatment

Oxylene-Borax coatings: Royal hardboard, standard quality was placed in Class I, surfaces of very low flame spread. (The Timber Fire-proofing Co. Ltd., 13A, Old Burlington Street, London, W.1; telephone Regent 2489 (2 lines).)

Albi-R fire-retardant coatings: Royal hardboard, standard quality, was placed in Class I, surfaces of very low flame spread. (Albi-Willesden Ltd., 6, De Vere Gardens, London, W.8; telephone Western 7472.)

Protimax coating: Royal hardboard, standard quality, was placed in Class I, surfaces of very low flame spread. (Protim Ltd., 356-8, Evelyn Street, London, S.E.8; telephone Tideway 4611.)

Exolit Firestop process: Royal hardboard, standard quality, was placed in Class I, surfaces of very low flame spread. (Exsud South American Minerals & Products Co. Ltd., 26-7, Cowcross Street, London, E.C.1; telephone Clerkenwell 2101.)

Quitfire process: Royal hardboard, standard quality, was placed in Class I, surfaces of very low flame spread. (S. O. Rudkin & Co. Ltd., Plantation House, Mincing Lane, London, E.C.3; telephone Mansion House 4405.)

Copies of the relative F.R.O.S.I. reports are available from the proprietors of the processes at the addresses given, or from Spencer Lock and Company Ltd.

Trade Mark

Royal hardboards are the products of Aktiebolaget Statens Skogsindustrier (The Swedish State Forest Industries Ltd.) and are distinguished by the trade mark which appears on the reverse of each board.

Compiled from information supplied by:

Spencer Lock and Company Ltd. for Aktiebolaget Statens Skogsindustrier, Stockholm.

Address: City Wall House, Chiswell Street, London, E.C.1.

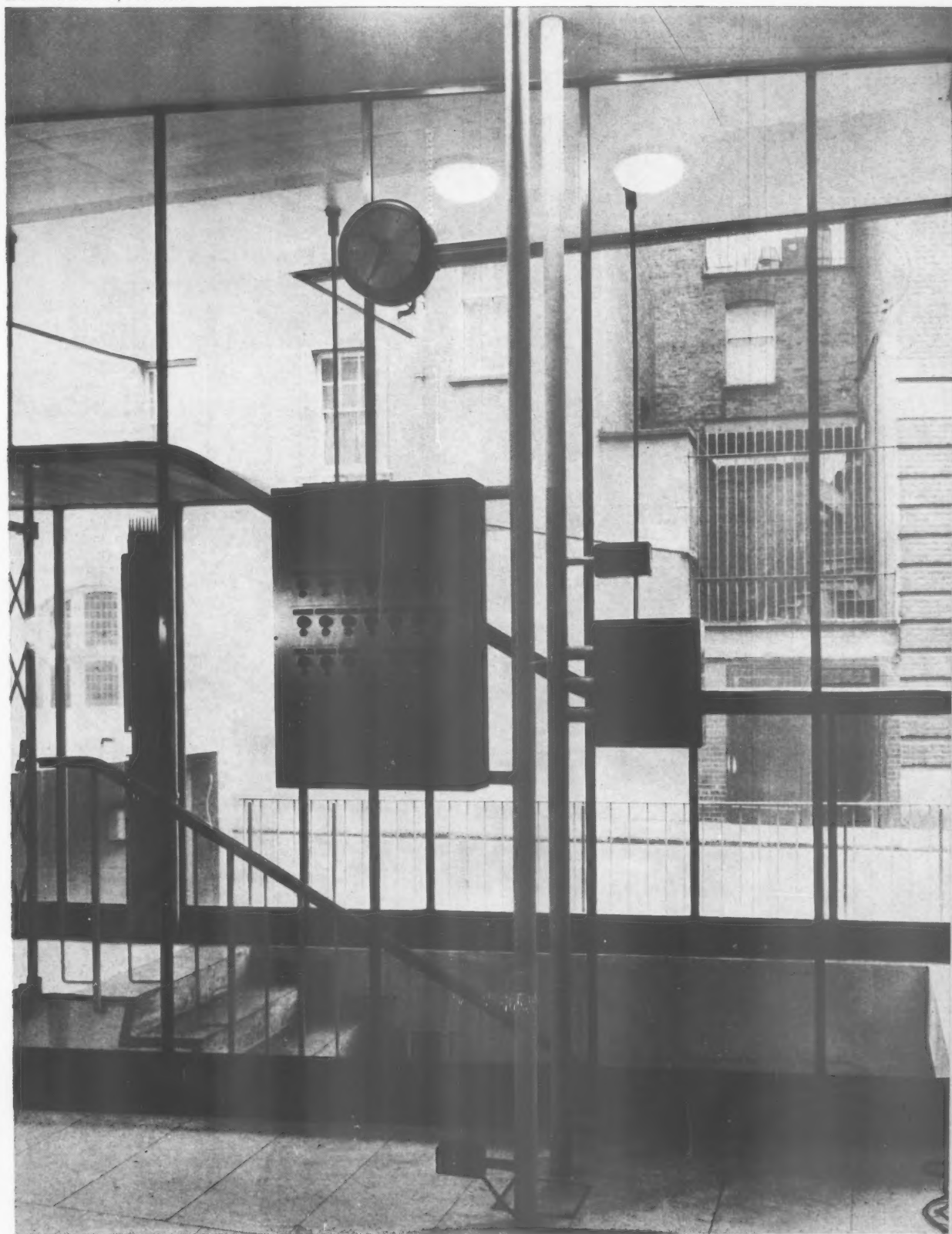
Telephone: Monarch 3080.

working detail

MISCELLANEOUS: 21

CONTROL PANEL UNIT: OFFICES IN LONDON W.C.1

David Aberdeen, architect



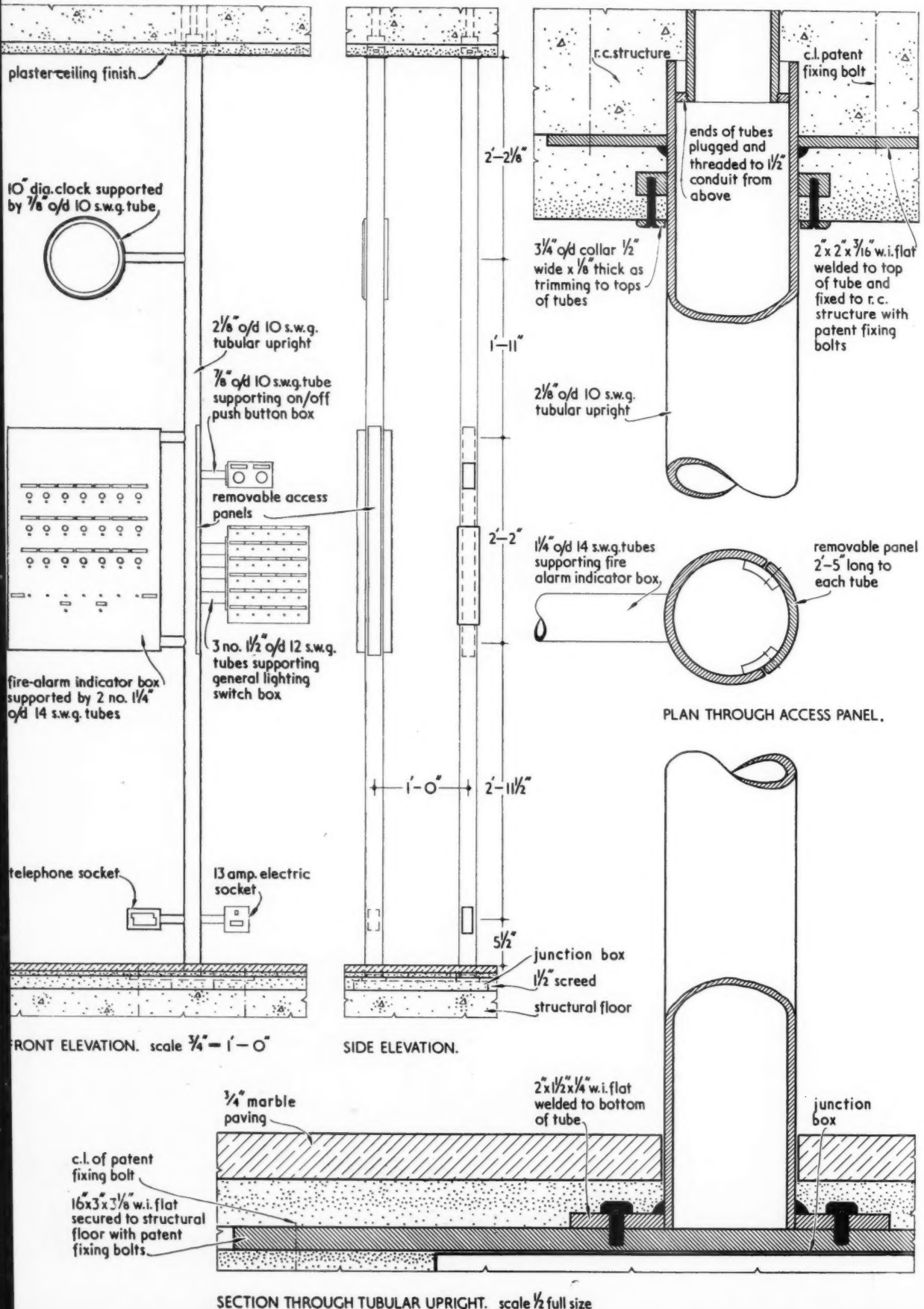
Two points are to be noticed. First, the precautions taken to ensure reliable fixing to floor and ceiling and neat junctions. Second, that the separate panels are secured to the 1-in steel tubes, which serve as brackets, by two screws passing through saddle blocks welded to the case: by unscrewing these, the panels can be dismantled and taken away for repair.

working detail

MISCELLANEOUS: 21

CONTROL PANEL UNIT: OFFICES IN LONDON W.C.1

David Aberdeen, architect



**DIVIDE
WORKS
and
OFFICE
SPACE
with
GRANGEWOOD
PARTITIONS**

20% cheaper
than any other material



They fit EXACTLY into any height between 7' 0" and 11' 0"

Flexibility in industrial accommodation is successfully met by fixing the Grangewood mobile range of sectional wood partitions. Soundly constructed for strength and permanence Grangewood can be speedily erected—and dismantled—by semi-skilled labour. Grangewood needs ONLY TWO FIXINGS—a "top hat" floor rail and fixing bracket at ceiling height.

No pinning, screwing, battening or moulding is necessary. Can be decorated to conform to client's colour scheme. Grangewood is adaptable to any length of run, including protruding beams. Immediate delivery from stock.

It will pay you to know Grangewood Partitions. The coupon below will bring you by return a copy of our fully illustrated brochure.

Grangewood Partitions are available on Deferred Payment terms, if desired.



**GRANGEWOOD
PARTITIONS**

GRANGEWOOD PARTITIONS

2 ABBOTS RD., LONDON, E.6 PHONE: GRANGEWOOD 3444-9

MADE BY AUSTINS OF EAST HAM LTD.

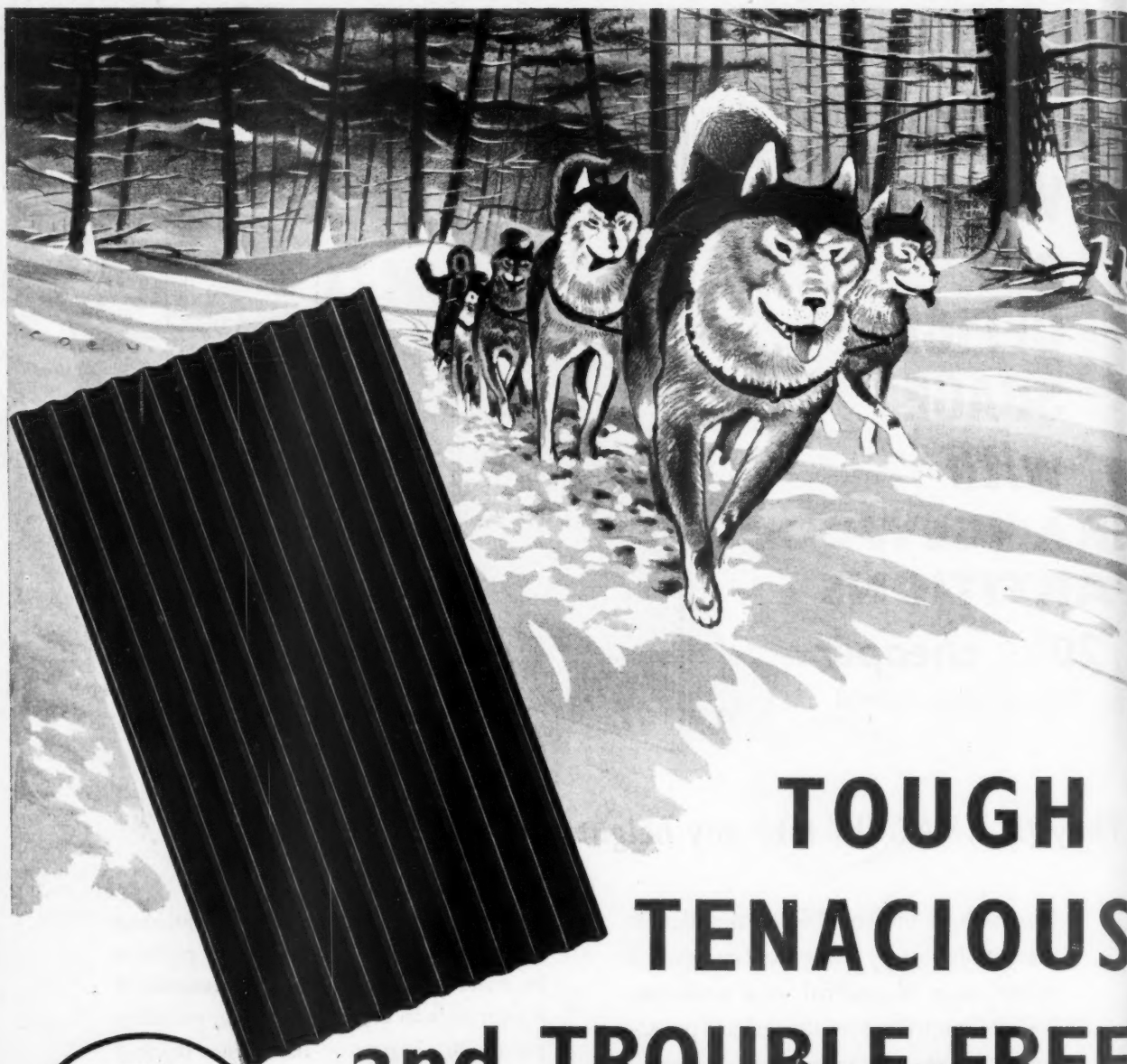
**POST
THIS
COUPON
TODAY**

To:
GRANGEWOOD PARTITIONS
(Dept.A.J.2) 2 Abbots Rd, East Ham, London E6
Please send me a copy of your illustrated brochure "Grangewood Partitions."

Name

Address

(BLOCK LETTERS PLEASE)



TOUGH TENACIOUS and TROUBLE-FREE

**THIS
PROTECTED METAL
SHEETING IS
FIRE RESISTING**
—IT DOES NOT RELEASE
BURNING BITUMEN
UNDER FIRE
CONDITIONS



In Polar regions Husky Dogs will play an important part during the International Geophysical Year, transporting provisions and equipment. They are chosen by explorers and scientists for their reliability, strength, stamina and their suitability to the difficult conditions. Like the Husky, Cellactite Fire Resisting Protected Metal Sheetting is tough—really tough! Its qualities have been proved in many extremes of climate, for example, in Egypt, Iceland, Norway, Malaya, and the British Isles. It is chosen for the roofing and side cladding of industrial buildings in all these and many other countries because of its resistance to both internal and external fires, and endurance against frost and fungus; Cellactite stands up to the worst possible conditions better, probably, than any other industrial roofing material.

Another important point is that Type 78 (24-gauge) Cellactite will span purlin spacings of 6ft. 6in. without permanent deflection, enabling economies to be made on the substructure.

CELLACTITE & BRITISH URALITE LTD

Cellactite House, Whitehall Place, Gravesend, Kent

Telephone : Gravesend 4911 (6 lines)

Telegrams : Cellactite Gravesend



ENTRANCE TO DEPARTMENT STORE IN BRISTOL



At the new department store for Jones & Co., Ltd. at Bristol, designed by Healing and Overbury, there are two 20-ft. wide "air curtain" doorways. In this photograph the sliding frame, which contains six standard toughened plate glass doors and is electrically operated from the basement, is in a half-lowered position. The frame is 14 ft. back from the building line and in the floor are metal gratings 7 ft. 6 in. from front to back. Air, which can be warmed by heater batteries when required, is blown downwards by a variable speed fan behind 4-ft. deep adjustable louvres in the ceiling. Clarke, Nicholls and Marcel designed the sliding frame and W. E. Fretwell and Partners the heating and ventilating equipment.



CONJURING WITH SPACE!

The liberties you can take with space are endless when you enlist the help of the ESAVIAN principle of partitioning. The doors and partitions slide quickly and smoothly, causing no obstructions, and can be made in the most attractive and appropriate materials for the job. They are as much at home in houses, schools, or offices as they are in factories, aircraft hangars or ships.

If you have any space partitioning problems which you think the ESAVIAN principle might be able to solve, may we suggest you get in touch with us?

These two sound-deadened Partitions (Type 700) in pencil-striped sapele mahogany show the flexible use of space at the Students Union Building Council Chamber, University of London. Architects: Adams, Holden & Pearson, F.F.R.I.B.A.

Esavian Ltd., Esavian Works, Stevenage, Herts. Tel.: Stevenage 500
Esavian Works, Carfin, Lanarkshire. Tel.: Holytown 391.

THE

ESAVIAN

PRINCIPLE

FOR FOLDING AND SLIDING DOORS, WINDOWS, PARTITIONS AND SCREENS

INFORMATION CENTRE INDEX FOR 1957

An alphabetical index covering Information Centre items and special articles published in the Technical Section during the twelve months ended December 31, 1957, is being prepared. Readers who wish to have a copy—it is free of charge—should complete the form below and post it to the Technical Editor, THE ARCHITECTS' JOURNAL, not later than March 3, 1958. This form will not be acknowledged.

Please send me the Information Centre Index for 1957:

Name
(Block letters)

Address
(Block letters)

AJ 6.2.58

Announcements

PROFESSIONAL

A. W. Snowdon Robertson, DIP. ARCH., A.R.I.B.A., has transferred his office to 27, High Street, Maidenhead, Berks (telephone: Maidenhead 477).

A. J. Browning, STUD. R.I.B.A., has moved to The Penthouse, St. Chloe Green, Amberley, nr. Stroud, Glos.

J. C. Milne, B.A. Cantab., has moved his office to 100, London Road, Leicester. His telephone number remains the same (Granby 2177).

TRADE

The Pyrene Co. Ltd. announce that H. F. Parshall, M.A., T.D., has taken over responsibility for the Metal Finishing Division from W. E. Wright, F.C.S., who has retired from the Board of Directors.

Cellactite and British Uralite Ltd. have appointed C. C. Nicole and Guy V. Parker to their Board.

Sidney Flavel & Co. Ltd. announce that J. H. Fishwick, Area Manager for S.E. and E. Gas Boards, has extended his activities to include the area covered by the North Thames Gas Board.

J. Gliksten & Son Ltd. have appointed Mr. A. E. Barrass, formerly General Manager, to their board.

The Fibre Building Board Development Organisation announces that North British Plastics Ltd., of Blaydon, Co. Durham,

have joined the Organisation as an associate member.

Caterpillar Tractor Co. Ltd. has moved part of its Sales Department personnel from its London office to P.O. Box 162, 1, Newton Place, Glasgow.

Merchant Adventurers of London Ltd. announce that Mr. Walter Boissevain, their Technical Director, is currently visiting South Africa, the Rhodesias and Kenya to visit Ventura stockists and to show details of the company's new 1958 range.

The Airscrew Company & Jicwood Ltd. announce that Mr. Frank C. Lynam, Managing Director, has accepted an invitation to sit on the Research and Information Committee of the Furniture Development Council.

Corrections

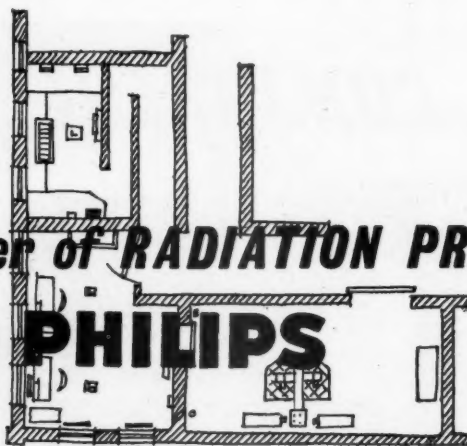
In our issue of December 12, 1957, p. 904, the design of H. Newsum Sons & Co. Ltd.'s stand at the Building Exhibition was wrongly attributed to Michael Broughton: this should have been Maurice Broughton.

In our issue of January 30, 1958, p. 177 the titles of Information Centre items 22.86 and 22.87 should have read:

"22.86 *Acoustics for the Architect*. Harold Burris-Meyer and Lewis Goodfriend. (Chapman & Hall Ltd. for Reinhold Publishing Corporation, New York. 80s.)

"22.87 *Noise Control in Schools*. R. N. Lane. (Noise Control, Vol. 3, No. 4, July, 1957.)"

it is a matter of **RADIATION PROTECTION**
consult **PHILIPS**



The planning of X-ray departments involves the provision of adequate protection of personnel against radiation hazards. PHILIPS with their specialized knowledge and long experience offer a comprehensive radiation protection service.

Full facilities exist for the planning and equipping of complete departments plus all necessary safety measures to conform to modern standards.

The experience behind the planning and equipping of many X-ray departments throughout the country is at your disposal.

Your enquiries are invited



PHILIPS* ELECTRICAL LTD

RESEARCH AND CONTROL INSTRUMENTS DIVISION,
Century House, Shaftesbury Avenue, London, W.C.2.
Telephone: GERard 7777.



“Let's get out of here please!”

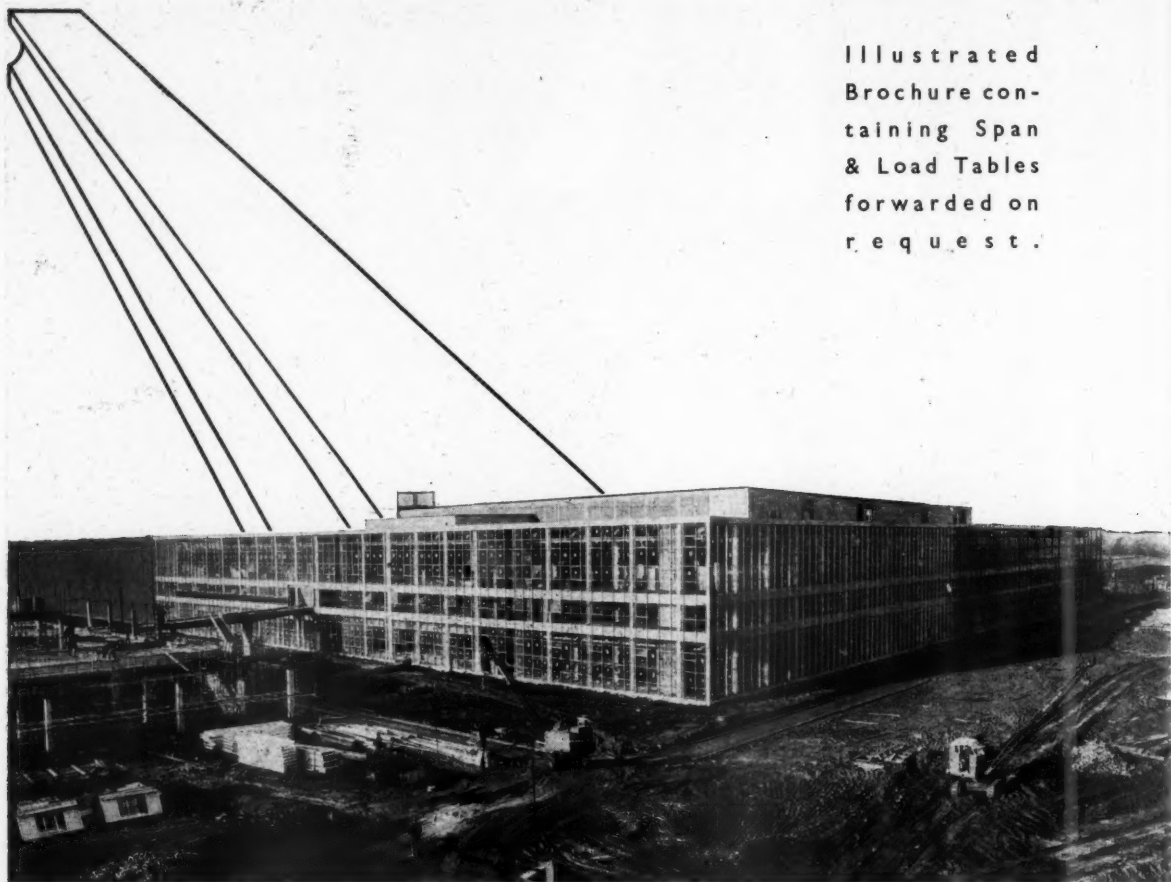
Can't blame him for preferring a run to a sit-down at the local. Even when what he's sitting ON is something as superb as a TRINASCOLIN Floor by Limmer & Trinidad. Everyone but him realises that here is modern decorative flooring at its best, beautiful in appearance and comfortable to the tread.

Laid by craftsmen, TRINASCOLIN produces a floor which is warm, resilient and completely trouble-free. It is available in several thicknesses and in many plain and marbled colours. If you would like technical literature on Limmer & Trinidad Decorative Floors (and on all other Limmer & Trinidad products) you only have to write.

LIMMER & TRINIDAD

DECORATIVE FLOORING

THE LIMMER & TRINIDAD LAKE ASPHALT COMPANY LIMITED, TRINIDAD LAKE HOUSE, 232-242, VAUXHALL BRIDGE ROAD, LONDON, S.W.1



Illustrated
Brochure con-
taining Span
& Load Tables
forwarded on
request.

PIERHEAD

PRESTRESSED CONCRETE

26,000 square yards of Pierhead Floor and Roof construction were supplied to the Can factory Main Production building and Employees' Services building at the new factory for Messrs. H. J. Heinz Co. Ltd., Kitt Green, Wigan.

Architects: J. Douglas Mathews & Partners, in conjunction with Skidmore, Owings & Merrill, New York, U.S.A.

Main Contractors: Messrs. A. Monk & Co. Ltd., Padgate, Warrington.

**THE HOVERINGHAM CONCRETE COMPANY
LIMITED**

HOVERINGHAM · NOTTS

Telephone: BLEASBY 381



PIERHEAD LIMITED

**SPEKE BOULEVARD
LIVERPOOL 19**

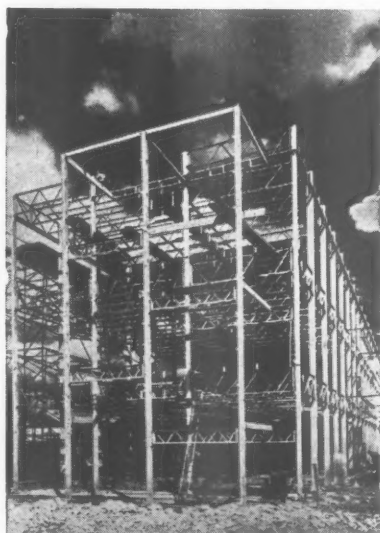
Telephone: Hunts Cross 1311

**LONDON FACTORY
FAGGS LANE FELTHAM,
MIDDX.**

Telephone: Feltham 3831

structural steelwork

THE BOWATER PAPER CORPORATION LIMITED. The Architects for the new Office Blocks at both Mersey and Northfleet designed for Lattice Steelwork on a modular grid which allowed service lines to be run between floor and ceiling and gave complete flexibility for internal arrangements.
Architects: Messrs. Farmer & Dark.

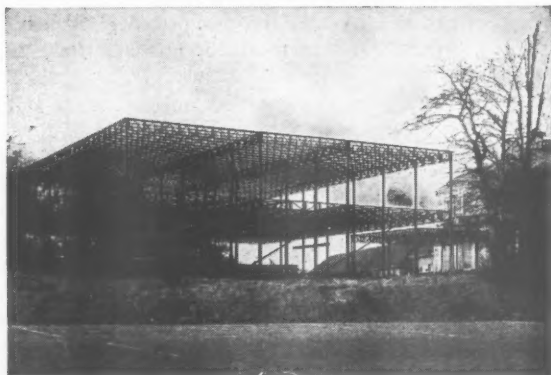
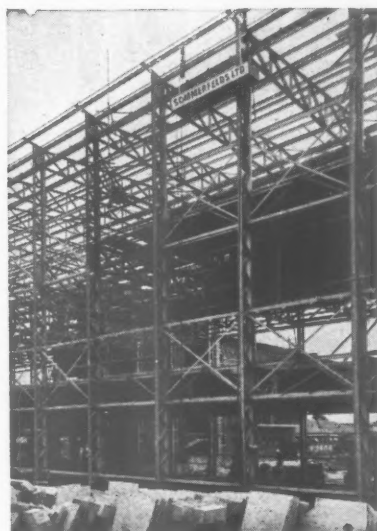


B.E.A. For this B.E.A. Building, speed was the essence of the Contract. Sommerfelds designed the Steelwork and from unloading the first lorry on site to the completion of a 250 ton steelwork erection took three weeks.

General Contractors: Messrs. Richard Costain Limited.

YORK. For the City of York a Grammar School. Sommerfelds designed the Steelwork on a 3ft. 4in. modular grid allowing complete freedom for the Architect to use curtain walling and internal arrangements.

Architect: E. Firth, F.R.I.B.A., A.M.T.P.I., City Architect.



I.C.I. For I.C.I. a Laboratory Block. A multi-storey building with a height to eaves of 44ft. and uninterrupted spans of 50ft. on each floor. Deep Lattice Beams and light stanchions were used with considerable saving in steel requirements.

Architects: Messrs. J. Douglass Matthews & Partners.

Sommerfelds LTD. WELLINGTON · SHROPSHIRE
TEL. 1000
London Office: 167 VICTORIA ST. S.W.1 TEL: VIC. 8843 AND 1000

**THICK
HARDBOARD**



**SOUTH
AFRICAN
MASONITE
PRESWOOD**

**Standard Grade for
Interior Use**

in $\frac{1}{4}$ & $\frac{5}{16}$ thicknesses

**Tempered Grade for
Exterior Use**

in $\frac{1}{4}$, $\frac{5}{16}$ & $\frac{1}{2}$ thicknesses

"THERE'S NOTHING LIKE IT!"

MADE IN THE BRITISH COMMONWEALTH

**AVAILABLE FROM
IMPORTERS AND DISTRIBUTORS**

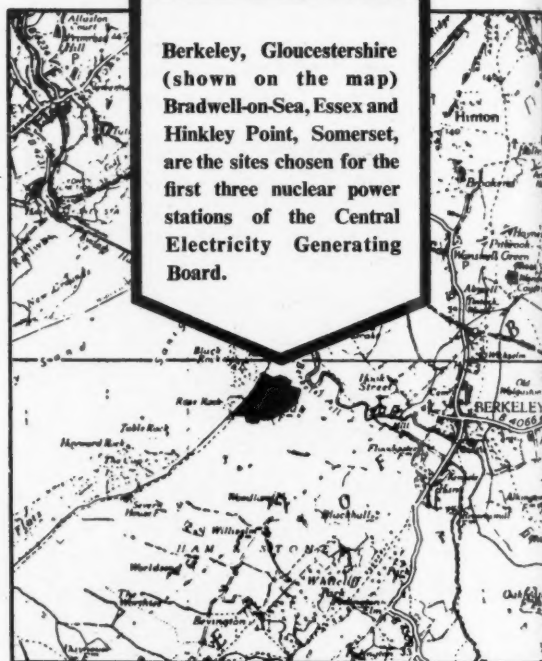
[Sole concessionaires in the United Kingdom]

**THE
WOOD FIBRE WALLBOARD CO. LTD.**

**8 CITY ROAD, FINSBURY SQUARE,
LONDON, E.C.1.**

Telephone: MONarch 0455-9

Electricity from Nuclear Energy



Crown Copyright Reserved

The growing need for power

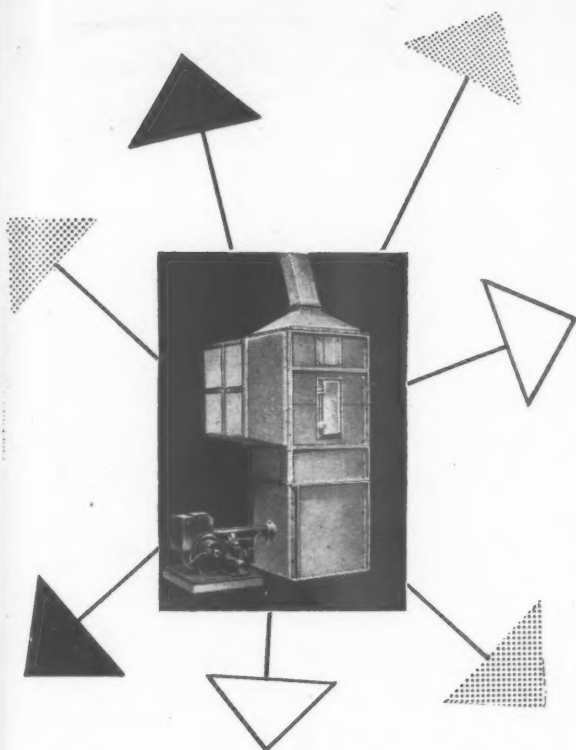
As Britain's industrial efficiency increases, so does the need for power. The demand for power doubles every ten years. The Electricity Supply Industry has already met the doubled demand since 1st April, 1948, and has made provision for a similar expansion in the next decade.

Work on the first two nuclear power stations, at Berkeley in Gloucestershire and Bradwell in Essex, was started in January, 1957, and on the third in England, at Hinkley Point in Somersetshire, last September. These three stations will have an aggregate of some 850,000 kilowatts.

The Government's revised nuclear power station programme provides for enough nuclear power stations to be completed in the next decade to provide 5/6 million kilowatts of generating capacity. Provision is also being made for the construction of new main transmission lines and the extension of the distribution network.

As the demand for power grows, nuclear energy will become more and more important as a source of electric power, upon which the economic future of the country so largely depends.

THE CENTRAL ELECTRICITY GENERATING BOARD



no corner left unheated

SPACE HEATING. Maximum efficiency in office, factory or shop depends on the comfortable healthy atmosphere provided by VOLEX Air Heaters. Winter and summer VOLEX maintains the right temperature and draughtless ventilation and will give a complete change of air as often as required. VOLEX Air Heaters are made with capacities from 150,000 to 2,500,000 B.T.U.'s per hour and are supplied for either gas, oil or hand firing, or worm-feed stokers.

INDUSTRIAL DRYING. Volex Air Heaters are used extensively for grain and clay drying and provide the perfect answer to all industrial drying needs. Hot air is available up to 500 deg. F. It's quicker and cheaper with VOLEX.

WASTE HEAT RECOVERY. Are you wasting money by letting valuable heat slip through your fingers? VOLEX Air Heaters harness waste heat and put it to good use. We will gladly give you details.

VOLEX AIR HEATERS

ILLUST. LITERATURE ON REQUEST TO SOLE MAKERS.

T. E. SALTER LTD, BLOOMFIELD, TIPTON, STAFFS.
TELEPHONE: TIPTON 1657

The
NEW LOOK
in
**Floor
Covering**

Confetti
REGD

INLAID RUBBER FLOORING

Hard-wearing "Confetti," the deep colour inlaid rubber tiling will, day after day, silence the tread of a thousand feet in hospital, school and office.

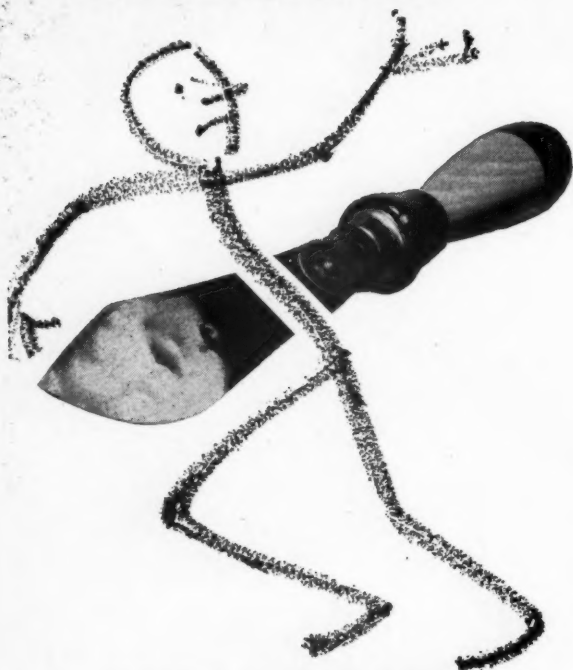
With its warm, resilient, easy-to-clean surface "Confetti," now in 18" squares and thicknesses of $\frac{1}{8}$ ", $\frac{3}{16}$ " and $\frac{1}{4}$ ", is a delightful new addition to our famous range.

We still supply large quantities of the well-tried "Greyhound" (in 32 designs, 5 sizes and 4 thicknesses) and the safety "Studded" tiles for schools.

*Write for full particulars and
our very attractive prices.*

MORRIS RUBBER INDUSTRIES Ltd
HIGH ROAD · BYFLEET · SURREY
Telephone: BYFLEET 2302, 2732. Telegrams: Rubber, BYFLEET

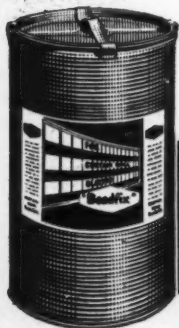
ARCHITECTS— IS THERE A KNIFE IN YOUR BACK?



A PUTTY KNIFE!

Architects need not have this vulnerable spot with their wall cladding schemes if the "Beadfix" glazing procedure is adopted.

"Beadfix" specifications detail a method for glaziers to use the mastic on wall frame construction, which enables the material to function supremely well. "Beadfix" is elastic. It is now widely used because it retains an adhesion which is water-tight and resistant to weather without painting. Double glazing units or any type of in-fill panels can be fixed with matching coloured "Beadfix" for either frames or panels, and of course "Beadfix" remains elastic for years. The glazing procedure can be detailed for your next wall cladding project. This service to architects is freely available.



Manufactured by

STORRY WITTY & CO. LTD., BEVERLEY, YORKS.
Telephone: Beverley 81201/2 Telegrams: "Stority, Beverley"



yes, you— must have a use for PLYMAX

Sixty times as rigid as sheet metal of the same weight and having all the advantages of a metal surface—stands up to rough usage—hygienic—fire resistant. That's PLYMAX, the metal-faced plywood, made only by Venesta Limited. Light and easy to handle, PLYMAX can be sawn or drilled simply with ordinary tools.

PLYMAX has metal on one or both faces: it is available faced with aluminium or galvanised steel (other metals if required): it is manufactured in 40 standard sizes and in various thicknesses.

Here are some examples of how PLYMAX is used:

Conveyor Equipment, Storage Bins, Casings, Machine Covers, Bench Tops, Flush Doors, W.C. Cubicles, Shower Partitions.

PLYMAX

the Venesta Metal-faced Plywood



Write for samples and literature

VENESTA LIMITED

Plywood Division,
Vintry House, Queen Street Place,
London, E.C.4. Tel: CENTral 3040.

TA10700

Start with a plan . . .

. . . plan at the start!



. . . another reasonable conclusion drawn from Aesop's story of the success of the deliberate.

The planning of a canteen is essentially deliberate, and requires specialised knowledge. We have such knowledge—at your disposal to ensure success.

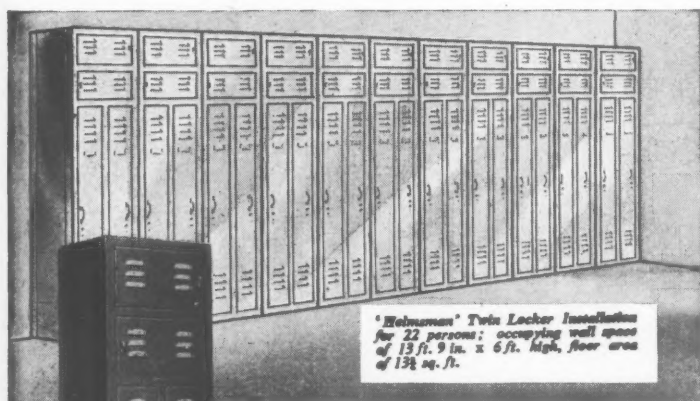
Remember, advice on every aspect of canteen or staff restaurants is within our scope (from initial planning to costing, buying, equipping or staffing), and is available to you—from the start.

J. LYONS & CO. LTD.,

**INDUSTRIAL CANTEENS
ADVISORY
SERVICE**

CADBY HALL, LONDON, W.14.

Tel: RIVerside 2040



'Helmsman' Twin Locker Installation for 22 persons: occupying wall space of 13 ft. 9 in. x 6 ft. high, floor area of 13½ sq. ft.

**Save MONEY and
37½% WALL
SPACE ON
CLOTHES
STORAGE!**

Each Twin Locker Unit provides separate accommodation for the clothing and personal belongings of two persons. Fitted with a modern streamlined SLIDEX handle with three-point latching, lockable with padlock, or Traditional six-lever lock in lieu or in addition if required.

Standard size—72in. by 15in. by 12in. deep. Wide choice of colours and other sizes.

List Price: £4 15s. 0d. (in nests of three) per person (£9 10s. 0d. per Twin Locker)—SIX-LEVER LOCKS.

£5 2s. 6d. (in nests of three) per person (£10 5s. 0d. per Twin Lock)—SLIDEX HANDLE.

Other "Helmsman" Products: Shelving, Open-type, solid sides, solid back and sides, Cupboards, Bin Units. Cabinets All-Steel Desks.

Full details gladly sent on request, or telephone Mr. Quin at LARKSwood 4411.

**Helmsman TWIN TYPE
STEEL CLOTHES LOCKER** (Patent No. 699842)

W.B. BAWN

& COMPANY LIMITED

Discounts for quantities; special quotations for complete installations; prompt delivery; normal commercial credit terms to business undertakings.

BYRON WORKS, BLACKHORSE LANE, LONDON, E.17

Telephone: LARKSwood 4411/4



**REMOTE CONTROL OF WINDOWS
IS SMOOTH, TROUBLE-FREE
POSITIVE with . . .**

ARMSTRONG
REGD. TRADE MARK

Hydraulic

REMOTE CONTROL UNITS

Power opening, power closing, positive locking in all positions. Easy hand operation. Rapid and simple fixing. Leakproof, vibration proof and self lubricating, no maintenance required. Units may be buried in plaster if required. The perfect window actuating mechanism.

Please write for full information to . . .

ARMSTRONG PATENTS CO. LTD.
Makers of the World Famous Motor Vehicle Shock Absorbers
BEVERLEY, YORKSHIRE, ENGLAND



**VULCANITE
ROOFING**
for every type of roof



VULCANITE LIMITED
TRIDENT WORKS, WIGAN • and at
GLASGOW • LONDON • BELFAST

FLUXINE

GLOSS FINISH

SPREADS WELL

LOOKS WELL

WEARS WELL

THAT'S WHY IT

SELLS WELL

*Ask for particulars of this and also 'HYDRO TREATED'
FLUXINE for MOISTURE LADEN SURFACES*

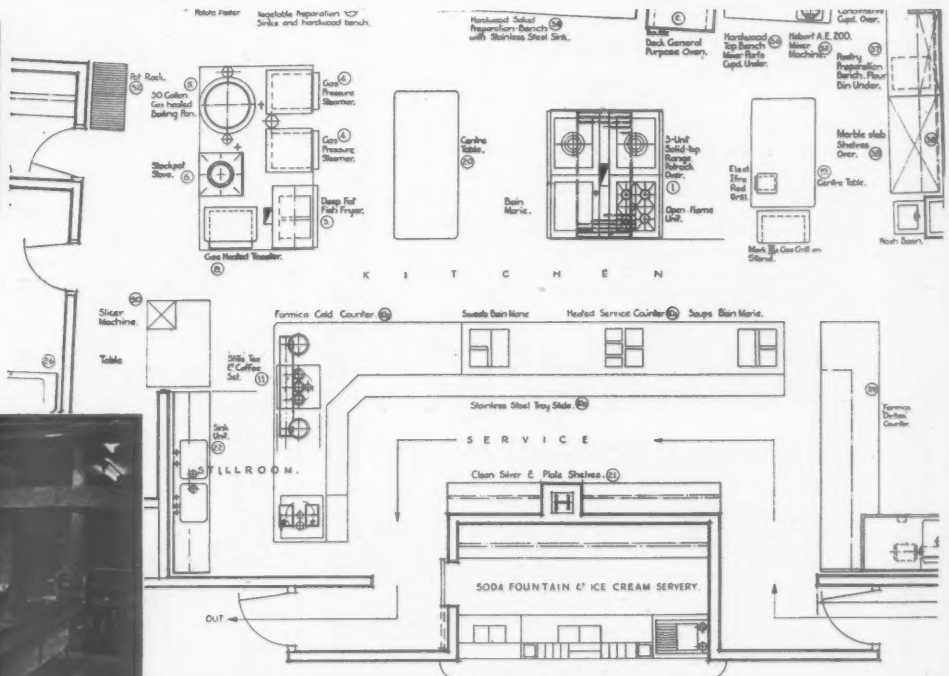
DIXON'S PAINTS LTD.

ALBION WHARF, BOW, LONDON, E.3.

Telephone: ADVance 2504 (4 lines)

BENHAM

KITCHEN PLANNING



The kitchen of James Colmer Ltd., the Bath Department Store was planned and equipped by Benham & Sons Ltd., to cater for the public restaurant seating 200 on the third floor, and for the staff cafeteria on the floor above.

Architect: Hugh D. Roberts, F.R.I.B.A.

BENHAM & SONS LIMITED Kitchen Engineers, Cooking Apparatus Manufacturers

66 WIGMORE STREET, LONDON, W.1. Telephone: WELbeck 9253 (20 lines)

Birmingham • Bournemouth • Brighton • Cardiff • Glasgow • Manchester • York

What's going on here?



**... to save hours of
expensive labour**

Specify PLASTAWELD—the permanent bonding fluid that goes on with brush or spray—to bond gypsum plaster to any sound clean surface. PLASTAWELD cuts out hacking, stippling or blinding with sand; is particularly effective for use on painted brickwork, tiles, engineering bricks, smooth shuttered concrete and even asbestos and similar surfaces. Used extensively on Hospitals, Factories, Ministry of Works and Military establishments, and other major projects everywhere.

plastaweld

PERMANENT BONDING FLUID

ANOTHER



PRODUCT

*Any problems? Write or phone
our Technical Departments K2*

**J. MANGER
& SON LTD**
KINGSLAND, LONDON E.8
(GLissoid 5307)

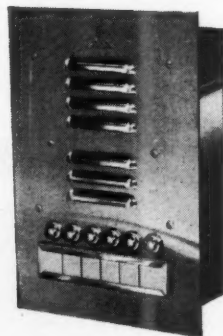


THE KNOCK—AND THE ANSWER



What wouldn't most tenants of flats and converted houses give for someone or something to deal with callers and so cut out all those tiring and irksome treks up and down stairs answering doors? The **STERDY PORTER SYSTEM** is the answer. This "doorman" enables tenants to deal with all callers—tradesmen, canvassers, pedlars—and open the door to visitors without porters or caretakers. It's simple to install and use too—one speaker on the door, individual telephones in the flats and a tenant-operated release secured to the door jamb and connected to the existing rim latch. But why not drop us a line for fuller details and quotations?

Available on purchase or rental.



W. H. C. DAVEY & CO.

180-182 Tottenham Court Road, London, W.1
Telephone: MUSeum 4414, 4415 and 6388



NEW

COLORAZZO

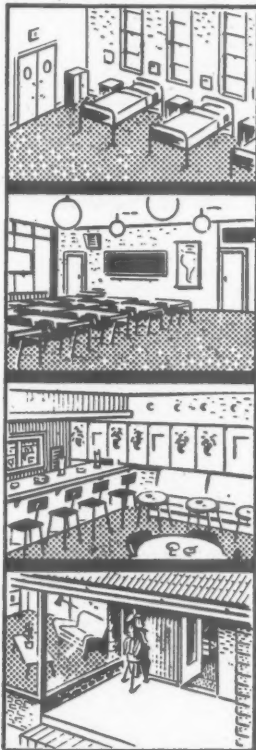
REGD. TRADE MARK

Super Seamless Plastic FLOORING BY SURFEX

Hard, smooth, seamless... and gleaming with contemporary colours... the new COLORAZZO thermo-set plastic floorings are ideal for all types of buildings, even outside on terraces or loggias. So easy to lay... so inexpensive in first cost and upkeep.

Advantages of COLORAZZO

- * Ready mixed for laying on site.
- * A completely seamless, satin-smooth finish with excellent insulating properties. Pleasant and warm to the touch.
- * A most restful floor for pedestrians, yet extremely hard-wearing and abrasion-resistant. Non-slip.
- * Unaffected by water and offers high resistance to all acids.
- * Equally satisfactory laid indoors or outdoors, being unaffected by weather.
- * Does not require polishing. Simply clean with a damp cloth.
- * Can be scrubbed repeatedly.
- * Can be laid on any suitably prepared surface—wood, cement, tiles etc. and on table-tops, shelving, window sills.
- * No trowel marks.
- * Extremely strong. Tensile strength 47,000 lbs. per sq. inch. Flexural strength 63,720 lbs. per sq. inch.



COLORAZZO TERRAZZO Any builder can produce a most attractive terrazzo flooring, simply by incorporating 1/16th inch marble chippings to the COLORAZZO. The result is indistinguishable from traditional terrazzo, but it gives everyone the means of laying this superior flooring at a very competitive price. It is non-cracking, dust-free and acid-proof... and wears evenly all over! Builders with good cement or plaster finishers can lay this floor with excellent results.

Colorazzo Flooring will be laid by our own team of expert craftsmen anywhere, at short notice if required.

* Full details of Colorazzo and other Surfex Floorings will be gladly sent on request. We are Manufacturers and Contractors.

Surfex Flooring Company Ltd.
48 High Street · Camberley · Surrey 2 — (Phone: Camberley 2263)
Surfex Flooring Co. (Scotland) Ltd · 7 Clyde Place Quay · Glasgow C.3.



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.

THE GYPSUM MINES LTD.

MOUNTFIELD · ROBERTSBRIDGE · SUSSEX

Phone: Robertsbridge 80

And at Kingston-on-Soar, Nottingham



AN EXAMPLE

Suite of offices
constructed from Medino
Partitioning — photo
by permission of INSTITUTE OF
LONDON UNDERWRITERS;
Architect: George Poles, F.R.I.B.A.

MEDINO

for complete
adaptability
* efficient insulation
* soundproofing
* rigidity
* attractive appearance
specify

full details from
SARO LAMINATED WOOD PRODUCTS LTD.
EAST COWES, ISLE OF WIGHT
TEL: COWES 704-8

**REPRESENTATIVES
AND ERECTORS:**

GREATER LONDON
William Verry Ltd.,
11 Hart Street,
LONDON, E.C.3

S.E. ENGLAND & LONDON
Firman & Collins Ltd.,
Dover Road,
Northfleet, KENT

MIDLANDS
T. Elvins & Sons Ltd.,
Naden Works, Soho Hill,
BIRMINGHAM 19

NORTHERN ENGLAND
Thomas Scott & Co.,
(Manchester) Ltd.,
Knowsley St., MANCHESTER 8

SCOTLAND
Andrew Bennie & Sons,
100 Barrowfield Street,
GLASGOW, S.E.

RAWLINGS BROS

LIMITED

ENQUIRIES INVITED FOR

*Conversions, Decorations
Electrical Installations*

RAWLINGS BROS LTD. 85 GLOUCESTER ROAD, LONDON, S.W.7. Telephone: FRE 8161

ESTABLISHED 1887

THE BARRYWALD

REGD.

Patents 555062—621085 and Foreign Pat.

BECAUSE —

Safety Automatic Incinerator

By the simple depression
of a lever the Barrywald Sanitary
Incinerator automatically destroys
sanitary towels, surgical dressings,
documents, etc.
It solves major and vital welfare
and security problems in factories,
offices, institutions, etc.
Write or 'phone today for illustrated
leaflet or demonstration.



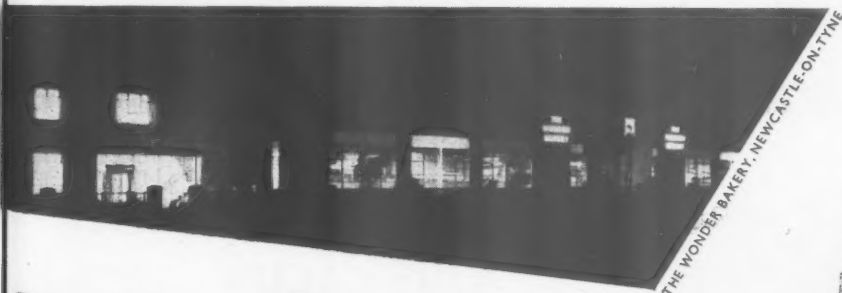
- ★ It is manufactured by the first and leading Sanitary Incinerator Specialists in the World.
- ★ It is guaranteed for one year and backed by a full service organisation.
- ★ It is simple and cheap to install.
- ★ It is the only Incinerator incorporating our patented safety devices.
- ★ It is approved by The Royal Institute of Public Health and Hygiene.
- ★ It is regularly supplied to and approved by all H.M. Government Departments, Local Administrations and Educational Authorities, Hospital Management Committees, General Industry.

**ECONOMICAL
EFFICIENT
FOOLPROOF
INDISPENSABLE**

SANIGUARD APPLIANCES LIMITED

12, LONDON WALL, LONDON, E.C. 2

Telephone: NATIONAL 8881 8882 DIVISION OF ALLIED METALS LTD.

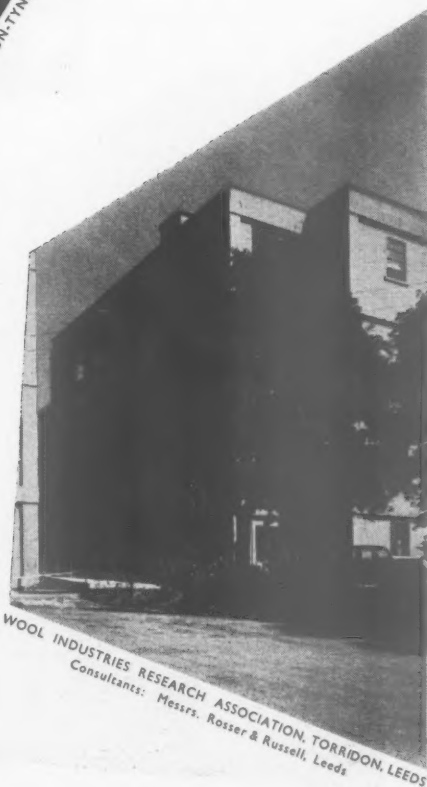
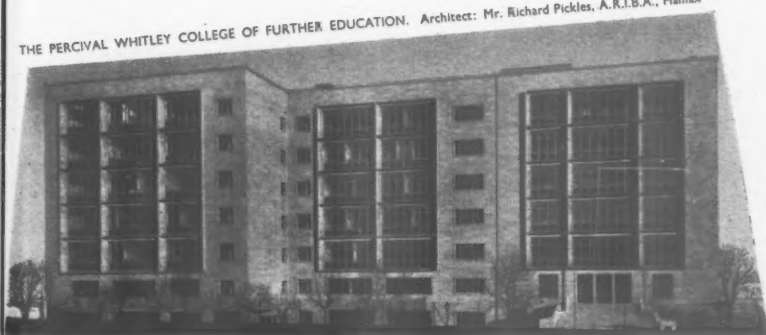


THE WONDER BAKERY, NEWCASTLE-ON-TYNE

Mellor Bromley

HEATING • VENTILATING • AIR CONDITIONING

THE PERCIVAL WHITLEY COLLEGE OF FURTHER EDUCATION. Architect: Mr. Richard Pickles, A.R.I.B.A., Halifax



WOOL INDUSTRIES RESEARCH ASSOCIATION, TORRIDON, LEEDS
Consultants: Messrs. Rosser & Russell, Leeds

MELLOR BROMLEY (AIR CONDITIONING) LTD., BARKBY ROAD, LEICESTER

Member of the Bentley Group

Telephone: Leicester 66651

AC28

Fit **NEW** sun-aire blinds

for 3 good reasons

SMOOTH POSITIVE ACTION! They raise, lower, open and close at a touch, and lock with a reliable, positive action. The Sun-aire exclusive S-shaped slat provides a light-tight fit when closed and greater reflection when open.

QUICK-EFFICIENT FITTING! Sun-aire's new ribbed headpiece clips *instantly* into position. The bottom rail, too, is ribbed for greater strength and rigidity.

EASY-ROLLING PULLEYS! Corrosion, wear and vibration are eliminated with Sun-aire's nylon wheels and pulleys.

More good reasons: Sun-aire blinds are available in bright colours and pastel shades with matching or contrasting tapes. Cotton tapes are standard but plastic-coated tapes are also available. Please write for literature.

sun-aire

VENETIAN BLINDS

HOME FITTINGS (GREAT BRITAIN) LIMITED

Victoria Works, West Bromwich, Staffs.

Telephone: W08nesbury 0761

One of the BROCKHOUSE Companies



specify Panelec Floor Warming

AS INSTALLED IN THE

VALLEY GARDENS FLATS KIRKCALDY

- ★ ECONOMICAL
- ★ CLEAN
- ★ AUTOMATIC

Publication No. PAN 657 gives full details of the Panelec system. We have a copy for you.

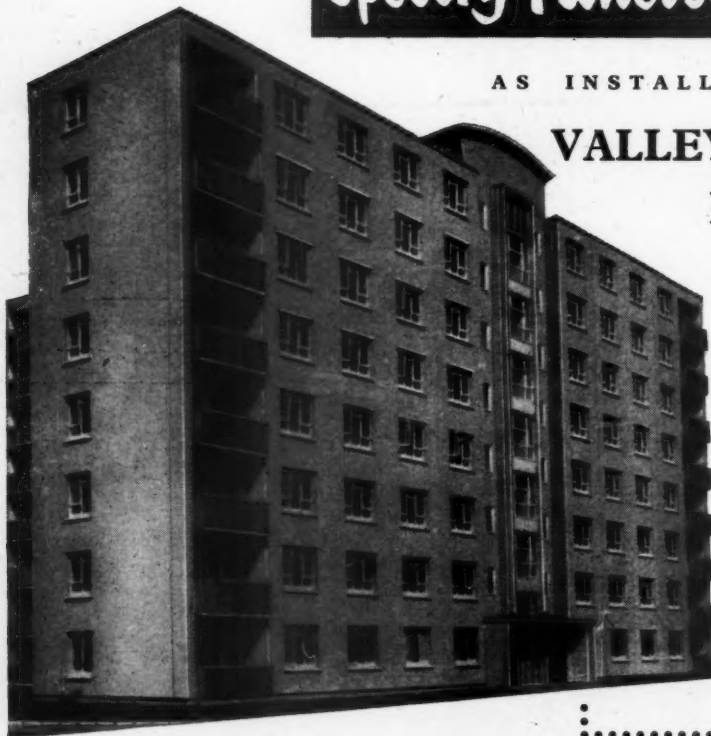
REGISTERED

"Panelec"

TRADE MARK

for warmth & comfort throughout

PANELEC (GREAT BRITAIN) LTD.
21 Bloomsbury Street, London, W.C.1

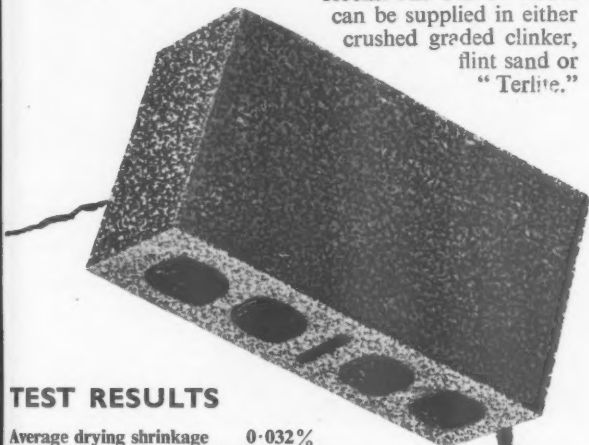


obo

building blocks are specified by most architects

O.B.O. Blocks are vibrated cellular lightweight and load bearing to 30 per cent. above B.S.S. 2028: 1953 and also comply with B.S.S. 476: 1953.

The wide O.B.O. range also includes cavity closing blocks. All O.B.O. blocks can be supplied in either crushed graded clinker, flint sand or "Terlite."



TEST RESULTS

Average drying shrinkage 0.032%
Note: Maximum average drying shrinkage requirements for type 'B' blocks 0.06%

Average moisture movement 0.028%
Note: Maximum average moisture movement requirements for type 'B' blocks 0.05%

CONCLUSION

The 6.18in. by 9in. by 4.5in. hollow clinker blocks meet the specified test requirements of B.S. 2028: 1953, as type 'B' blocks, in respect of drying shrinkage and moisture movement.

ELLIS RESEARCH AND TESTING LABORATORIES LTD.

30 April, 1957 J. VAUGHAN-FOWLER



OBO CONSTRUCTION COMPANY LIMITED
117 BRIDGE, LONDON ROAD, TWICKENHAM. TEL.: POPEsgrove 2994

Permanent waterproofing



FOR FLOOR SLABS AND WORK BELOW GROUND LEVEL

R.I.W. Liquid Asphaltic Composition provides permanent and unfailing protection against water and water vapour. This tough, elastic, true asphaltic composition is also used for encased columns, beams and superstructures. It is an economical material easily applied by unskilled labour using brush or suitable spray plant.

SPECIFIED WITH CONFIDENCE. Over the past 100 years R.I.W. Liquid Asphaltic Composition has established an unrivalled history of proved performance. It is consistently specified by leading Architects, Engineers, County and Borough, on School Programmes, Housing projects and buildings of all descriptions throughout the country. Recent schemes include: The Royal Festival Hall; London Airport; B.E.A. Power Stations; Trostre Steel Mills; Plymouth's and Coventry's new buildings; and at Swansea, Cardiff, Exeter, Harlow, Corby and the City of London, etc., etc.

R.I.W. PROTECTIVE PRODUCTS. The range includes constructional damp-proofing, protective and decorative materials for the protection and preservation of all types of surfaces against a wide variety of destructive agencies.

SALES & TECHNICAL SERVICE. R.I.W. Protective Products are supplied direct or through your nearest builders' merchant. You are invited to send for fully detailed Technical Literature on all R.I.W. products.

R.I.W.

LIQUID ASPHALTIC COMPOSITION

an R.I.W. Protective Product

R.I.W. PROTECTIVE PRODUCTS CO. LTD.
325, WHITEHORSE ROAD, CROYDON, SURREY
TELEPHONE: THORNTON HEATH 6121

Building the modern way

and using

Aluminium to do it

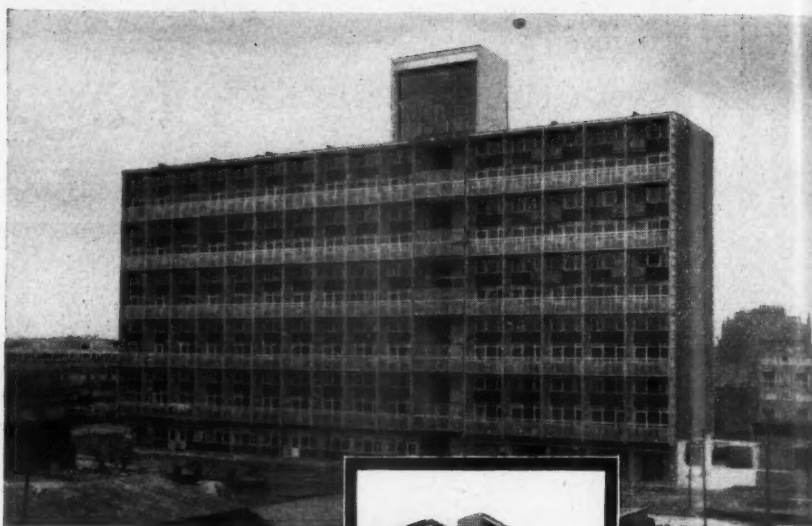
In these new eleven storey blocks of flats aluminium is strongly featured. The drop-pers connecting the five balconies are in aluminium alloy, as are the balcony side and front screens and also the rainwater fittings. All were supplied by Templewood Hawksley.

Aluminium—light, strong, pleasing in appearance and highly resistant to corrosion—is setting the pace in modern building. So, too, are Templewood Hawksley. Whatever the type of aluminium structure involved, the experience of Templewood Hawksley is readily available to architects and builders. From initial design to final completion, they provide a unique service.

That's the job of

TEMPLEWOOD HAWKSLEY

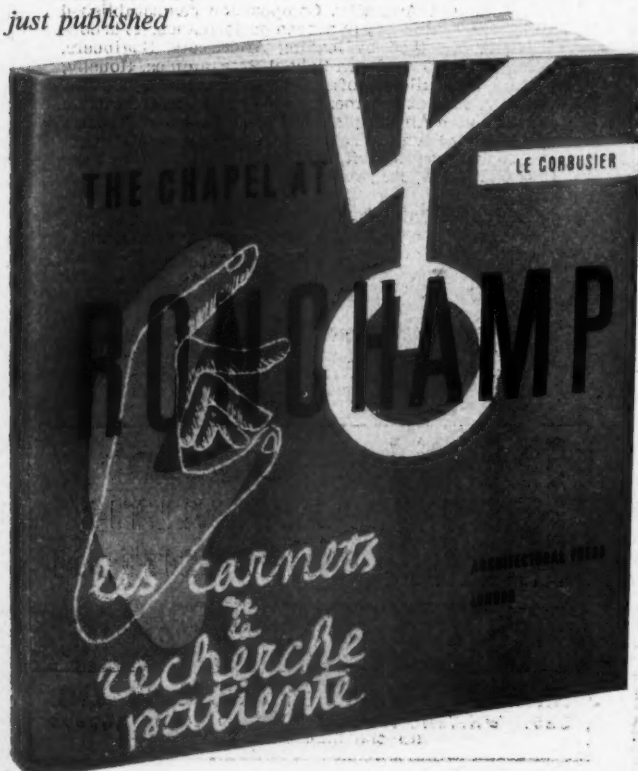
World Leaders in Aluminium Structures



Flats in the Picton Street development scheme undertaken by the L.C.C.
Architects: L.C.C. Architects Department.
Contractor: John Laing & Son Ltd.

SLOUGH • BUCKS. • TELEPHONE: SLOUGH 22224 • A member of the Hawker Siddons Group

... a new book, written and designed by Le Corbusier, about one of his latest, most discussed achievements ...
just published



LE CORBUSIER THE CHAPEL AT RONCHAMP

Les carnets de la recherche patiente

THIS IS A BEAUTIFUL AND SIGNIFICANT BOOK about one of the most controversial religious buildings of our time: by means of photographs, sketches, notes and characteristically vigorous text, the creator of the new Notre Dame du Haut, Ronchamp, describes and analyses his own work. His illustrated progress report not only explains the ideas which influenced him in design and construction—thereby affording direct insight into the complex imagination and restless creativity of an architectural genius—but also embodies the religious impulse which animated the project and pays tribute to the co-operative spirit of all the participants.

Most of the 150 illustrations are new, chosen and arranged in sequence by Le Corbusier himself. They provide the reader with many close-ups of surprising and brilliant details and at the same time add up to a complete experience of the visual impact and spatial effect of the church, both inside and outside. "The key is Light", says Le Corbusier; and his illustrations show especially how ably he uses it, as a completely integrated element, to create a constantly changing expression of inspiring, emotive architectural form.

The book has three parts. Part One presents Ronchamp as a pilgrimage shrine with an extensive outdoor hilltop preaching space where thousands may assemble to hear Mass. Part Two shows the church—inside and out—as a work of art with many unusual perspectives and noteworthy subtlety of forms and textures. Part Three consists of drawings and photographs showing all phases of its construction.

Size 8 in. x 7½ in. 136 pages, over 150 photographs, sketches and plans, all by Le Corbusier, with 4-colour jacket specially designed by Le Corbusier. 25s. net, postage 1s. 2d.

THE ARCHITECTURAL PRESS, 9-13, QUEEN ANNE'S GATE, WESTMINSTER, S.W.1



*"Impact by horses?"
said my client—*

"Who wants to insure against that?" He seemed to feel his intelligence insulted.

Probably no one, I told him. But a Comprehensive Policy did its best to Comprehend.—Sorry!

"What else would it comprehend?"

I mentioned fire and he kindled a little (metaphorically speaking), but when I spoke of earthquakes he said he could live to a hundred without seeing one. I told him I hoped he would, and also wished him comparative freedom from riot and civil commotion.

"I asked your advice," he said stiffly, "on protecting my home against reasonable contingencies—"

Contingencies so often weren't reasonable, I said. That was the trouble. For example, it was very unreasonable to have one's roof removed by an aircraft.

"Aircraft?" He glanced involuntarily at my ceiling.

And more so, I continued, to have to foot a six weeks' hotel bill for the whole family while it was being put back on again. Only the other day a man had unexpectedly had a three-ton lorry through his drawing-room. What was reasonable about that?

My client was silent but attentive.

I took the opportunity to touch on the unreasonably high cost of repairing underground water pipes, and the ravages of larceny, housebreaking and burglary. I mentioned the nuisance of blown-down chimney stacks, more especially if blown down on some litigiously-minded passer-by. I reminded him that daily women, in rare cases, could polish a floor until they fell on it and broke a leg; that gas explosion had been known to—

"Stop!" said my client. "Do you mean to say that I can be covered against all this?"

And more, I assured him. Full particulars of the COMPREHENSIVE INSURANCE OF PRIVATE HOUSES AND OF HOUSEHOLD GOODS could be had with ease from

LEGAL & GENERAL

ASSURANCE SOCIETY LIMITED

Chief Administration: 188 Fleet Street, London, E.C.4

Telephone: CHAncery 4444



Or n a m e n t a l



Years of experience in the casting of ornamental and 'Motif' panels support our claim to be leaders in this field. We are proud that very many well-known buildings throughout the world bear fine examples of our Architectural Ironwork.

BUILDING FRONT PANELS

I N C A S T I R O N

supplied and erected by

LION FOUNDRY CO., LTD

KIRKINTILLOCH NEAR GLASGOW

Telephone: KIRKINTILLOCH 2231

LONDON OFFICE: 124 VICTORIA STREET, S.W.1



THE TWIN ENEMIES OF CHAIN LINK
FENCING DEFEATED BY

THE PROTECTIVE

Plastic Coating OF

PLASTELLA

Galvanised chain linked fencing

- ★ Plastic coating gives greater protection against atmospheric corrosion and rust—that's the great advantage of Plastella. Available in an attractive green. Write for further details to:

FLEXTELLA

FENCING & ENGINEERING LTD

PETERSFIELD · HAMPSHIRE



FIBONITE
'ALL WOOD' HARDBOARD

Tough, durable, versatile and good-looking

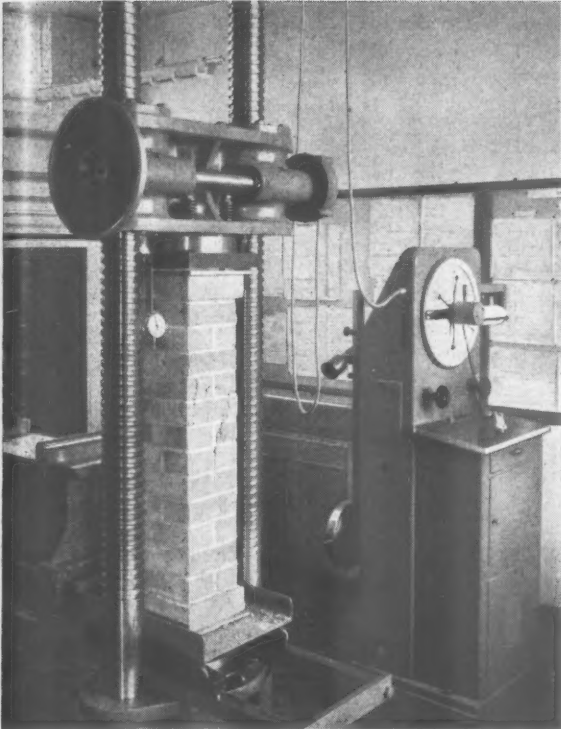
'all-wood,' all-purpose, heat tempered Norwegian

hardboard. Send for the free Fibonite information leaflet and samples:

Sole Selling Agents in U.K.

Wm. BRANDTS (WALLPLY) LTD. 36 FENCHURCH STREET, LONDON, E.C.3
Tel: MANSION HOUSE 6599





Photograph by courtesy of London Brick Company Limited

controlled strength

The strength of brickwork or masonry construction depends both upon that of the brick or block and that of the mortar. LIME mortars gauged with cement, in one of the recognized proportions, e.g. 1:1:6 or 1:2:9 Cement:LIME:Sand, with a good sand, will give reliable strengths within closely known limits. Building By-laws and Codes of Practice for structural brickwork and masonry construction are based upon these known strengths. While the early strength is due mainly to the Portland Cement content, LIME gives stability, adds to the strength at later ages, and heals the incipient cracks which inevitably arise through movements of a building structure. Air bubbles incorporated by use of chemical plasticisers require more careful control and they do not contribute to strength.

THERE IS NO ADEQUATE SUBSTITUTE FOR LIME.

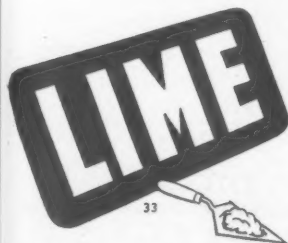
THE LIMESTONE FEDERATION

Manfield House, 376-8 Strand, London, W.C.2
Tel: COVent Garden 0621

or

THE SOUTHERN LIME ASSOCIATION

Hanover House, 73-78 High Holborn, London, W.C.1
Tel: HOLborn 5434



use **LIME** tested by time

A booklet on LIME/sand mixes gauged with cement and conforming to British Standard Codes of Practice will be sent free on application to either of the above.

LIME

**MANUFACTURED
TO COMPLY WITH
B.S. 890**

*This is your safeguard
to ensure satisfaction.*

**When you specify
BIGWOOD
Unicalor Coal and
Coke Stokers you
ensure your client
an economical
reliable smoke-free
boiler-firing system
using the cheapest
fuel available and
the fuel he can
always get -
home produced
coal or coke.**



**UNICALOR
COAL & COKE
STOKERS**

REPRESENTATIVES:

NORTH-EAST. B. Peace, 54, Benomley Crescent, Almondbury, Huddersfield. (Tel. No.: Huddersfield 2035.)

NORTH-WEST. G. P. Hault, 295, Chester Road, Manchester, 15. (Tel. No.: BLACKfriars 9206.)

WEST MIDLANDS. E. Edwards, "Fairwood," Eveson Road, Norton, Stourbridge. (Tel. No.: Stourbridge 5583.)

EAST MIDLANDS. R. L. MacGregor, 88, Westcotes Drive, Leicester. (Tel. No.: Leicester 24372.)

LONDON. H. C. Williams, 75, Ebury Street, London, S.W.1. (Tel. No.: SLOane 6185/6.)

SOUTH-WEST. H. L. Boorne, "The Ridge," North Road, Bath. (Tel. No.: Bath 2545.)

SCOTLAND. I. E. Stewart, 29, Crarae Avenue, Westerton, Bearsden, Nr. Glasgow. (Tel. No.: Bearsden 0942.)

IRELAND. P. J. Casey, 38, The Rise, Mount Merrion, County Dublin. (Tel. No.: Dublin 882587.)

JOSHUA BIGWOOD & SON LIMITED

Head Office:
WEDNESFIELD ROAD, WOLVERHAMPTON • Tel: 24771

THE ACME FLOORING & PAVING COMPANY (1904) LTD

ESTABLISHED 1864

River Road - Barking - Essex

THE COMPANY WILL GLADLY SEND

on request their latest

TECHNICAL BROCHURE

on IMMOVABLE-ACME HARDBOARD FLOORS for Public Buildings, Offices etc.,
and ACME PAVING for heavy duty factory floors.

Telephone :
RIPpleway 2771 (7 lines)

Telegrams:
Dowelled-Easphone-London

FOR A BETTER SOLUTION CONSULT AIRD, STEWART

- ★ Concrete Waterproofing
- ★ Concrete Hardeners
- ★ Floor Dressings
- ★ Waterproofing paint
- ★ Anti-Freeze Admix
- ★ Plasticiser
- ★ Degreasing

Brochures, Test Reports (Stanger) and all information from
AIRD, STEWART LIMITED
Wembley 5321 (PBX)



WIREWORK & WOVEN WIRE

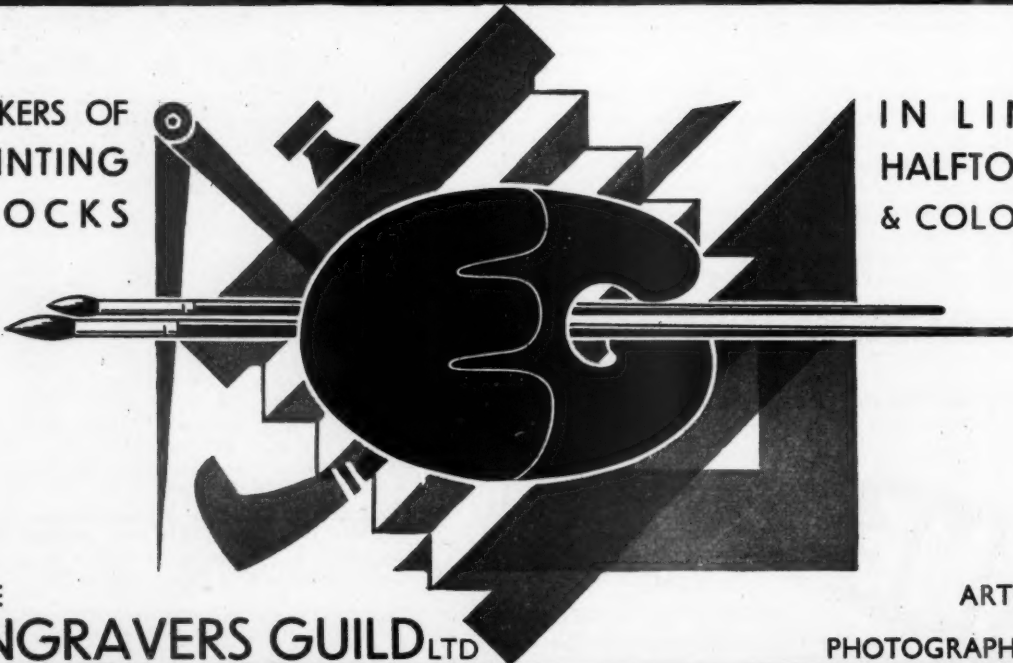
Illustrated
brochure on
application

F. W. POTTER & SOAR LTD.
PHIPP STREET · LONDON · E.C.2

AN ASSOCIATION OF ARTIST CRAFTSMEN

MAKERS OF
PRINTING
BLOCKS

IN LINE
HALFTONE
& COLOUR



THE
ENGRAVERS GUILD LTD

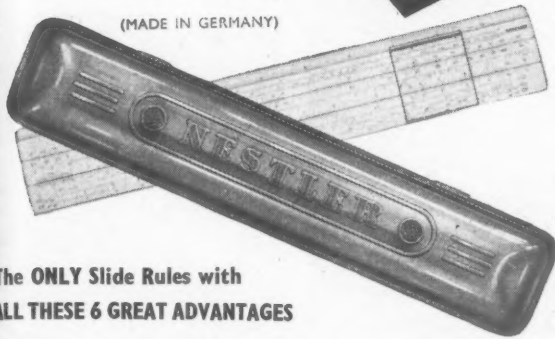
ARTISTS
PHOTOGRAPHERS

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

Hundreds of Trades & Professions have a use for them

NESTLER SLIDE RULES

(MADE IN GERMANY)



AND
NOW
THEY'RE
HERE
AGAIN

The ONLY Slide Rules with ALL THESE 6 GREAT ADVANTAGES

- Engine divided — durable — non-wearing.
- Body spring loaded against the slide.
- Colourfast — cannot change colour with age.
- Unbreakable — long life expectancy.
- Bevel of body utilised as scale—may be used for pencil or ink layout.
- New ineffaceable constant value table on plastic label inset on the reverse side assures good legibility.

STUDENT MODELS ACCURATE, EFFICIENT

The student models are slightly cheaper and splendid for all student purposes.

In case of difficulty apply:
**W. PATTERSON & CO.
LIMITED,**
Beckenham, Kent.
Telephone: BECKenham 5023
(7 lines)

Obtainable from Drawing Office Dealers and High Class Stationers

NESTLER MEANS PRECISION

Site Supervision

by A. A. Macfarlane, A.R.I.B.A., A.M.T.P.I.

IN THIS VOLUME the author, a practising architect with a particular enthusiasm for job management, presents in a readable and readily accessible form the knowledge he has gained from half-a-life time's experience of site supervision on a very wide variety of building contracts. He defines the architect's duties and responsibilities on the site, elucidates the mysteries of site etiquette and gives guidance on the complex subject of the architect's relations with client, builder, clerk of works and the craftsmen in the various trades. He explains with precision what are the things to look for and how to find them, what questions to ask and of whom to ask them, what instructions to give, and to whom to give them. He describes the quality of work to be sought after as well as the quality to be expected, and he makes clear what can be accepted and what must be rejected.

Size 8½ ins. by 5½ ins. 160 pages including 25 line illustrations. Second impression. Price 16s. net, postage 1s. od.

THE ARCHITECTURAL PRESS 9-13, QUEEN ANNE'S GATE, SW1

DESIGN FOR FIRE RESISTANCE

$$R = R_{si} + R_{so} + \frac{L_1}{k_1} + \frac{L_2}{k_2} \dots \frac{L_n}{k_n} + R_a$$

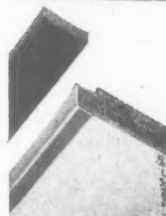
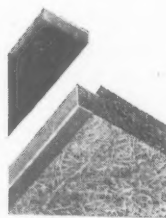
This formula enables Architects to evaluate the total THERMAL RESISTANCE of elements in structures they have designed. Unfortunately, no similar formula exists relating to FIRE RESISTANCE.

Recent costly fires have pointed to the need for scientific handling of the fire risk problem associated with THERMAL INSULATION.

Just as adequate foundations and sufficiently strong beams depend on design, so it is with FIRE RESISTANCE.

THERMACOUST ROOFING SLABS offer the basis of design for THERMAL INSULATION ENTIRELY WITHOUT FIRE RISK.

They are supplied in four different types, and many more are being developed.



ALL THERMACOUST ROOFING SLABS when finished with ½ in. minimum screed will automatically provide a roof in which the component parts are disposed in the most effective order and will have the following essential qualities.

1. INCOMBUSTIBILITY.
2. VERY LOW RATE OF SURFACE FLAME SPREAD (GRADE I).
3. NO DISTORTION UNDER INTENSE HEAT.
4. VERY HIGH THERMAL RESISTANCE. BITUMINOUS FELT IS KEPT COOL AND OUT OF DANGER FOR SEVERAL HOURS.
5. HIGH RESISTANCE TO IMPACT AND EXTERNAL FIRE RISK.

SPECIFY SAFETY -----SPECIFY----- THERMACOUST

The finest quality and most economical roofing slabs available.
Please send for further details.

THERMACOUST LIMITED

20 ALBERT EMBANKMENT, LONDON, S.E.11

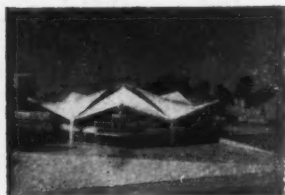
Telephone: RELiance 7281

ar

Preview

January Architectural Review

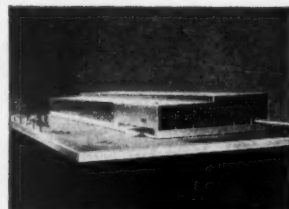
Each New Year, the Review devotes an entire special issue to a survey of what the leading architectural offices in Britain have in hand on the first day of the year.



Assembly Hall of a girls' comprehensive school at Southwark. Architects, Chamberlin, Powell and Bon.

The view presented by *Preview* is an extremely varied one; the buildings it covers range from a pub to a synagogue, by way of schools, universities, colleges,

hostels, hospitals, factories, office blocks, churches, airports, planning schemes, housing layouts, a market and a seaside pavilion; and the offices and architects responsible for these projects-in-progress read like a directory of the country's top talent (as indeed they are)—the L.C.C., the Ministry of Works, ACP, T. P. Bennett and Sons, Bridgewater and Shephard, James Cubitt and Partners, Llewelyn Davies, Easton and Robertson, Frederick Gibberd, Erno Goldfinger, Gollins Melvin and Ward, Sir William Holford, Arthur Ling, Sir Leslie Martin—and so on down the alphabet to Yorke, Rosenberg and Mardall.



Factory at Wokingham. Architects, Yorke, Rosenberg and Mardall.

The reflection in *Preview's* mirror may prove flattering or alarming, but even where there appear to be grounds for satisfaction at the design of the buildings themselves, the environments into which they are being fitted still leave much to be desired, and though this is beyond the architect's control, it is not exempt from the watchful eye of the *Counter Attack Bureau*, whose month by month vigilance will be maintained even in this special issue.

Churches Adam & Berkeley Lettering

February Architectural Review

The variety and scope of the buildings illustrated, and subjects discussed, in the February issue will be catholic, even for the Review. *Three Churches* around Coventry by Basil Spence will show what the imaginative use of a modicum of rationalisation can do even for a church building programme; the spectacular *Teatro*



Church at Bell Green, Coventry, by Basil Spence & Partners.

de los Insurgentes, designed by Alejandro Prieto exhibits Latin-American design at its most exuberant and effective; while Erno Goldfinger's precise *Office block in Albemarle Street* is the kind of building our cities sorely



Offices Albemarle Street, W.1 by Erno Goldfinger.

need. Historical studies will re-examine aspects of eighteenth-century architecture: *Bishop Berkeley's* contributions to architectural theory will be the subject of an article by Marcus Whiffen, while a sheaf of papers on *Robert Adam* by various hands will include some unknown Clériseau drawings from Russia. Gordon Cullen will complete his set of townscape studies for Bristol University with an analysis of *Trowbridge*, and Jacqueline Tyrwhitt will examine the planning of *Fatehpur Sikri*, the ideal city of Akbar the Great, somewhat in the manner of Sir Hugh Casson's memorable studies of Peking. In *Skill*, John Sharp will complete his survey of methods and materials in *Architectural Lettering*, *Design Review* will continue to note worthwhile new products and equipment.

Milford Haven Lamp-Standards Achthamar

March Architectural Review

The impending ruination—or transfiguration — of Pembroke-shire, by the proposed industrialisation of the Milford Haven area, will be the subject of an important *Counter-Attack* article by Ian Nairn in the March issue of the Review, while another *Outrage* problem of a more wide-spread (though no less acute) interest, will be surveyed by Peter Witworth—the design of street-lighting standards—in a special article in *Skill*. Among buildings of interest to be described and illustrated in the same issue, the most out-

standing will be two industrial groups; further additions to the distinguished work already done for the *Technicolor Laboratories* by Gooday and Noble, and a complete set of *Pithead Buildings in Fifeshire* by Egon Riss, who has captured something of that sense of technological drama that has



Rothes Colliery, by Egon Riss.

been missing from so much recent English industrial buildings. In complete contrast will be a *Week-end House* on the seashore at West Wittering by Wells Coates and Michael Lyell, and new *Show-rooms for Troughton and Young* by Hulme Chadwick. A travelogue by three recent voyagers in Turkey will document and illustrate the extraordinary sculptured



Carvings at Achthamar.

church at *Achthamar*, and two historical articles will explore the frontier between architecture and technology in the early nineteenth century, W. J. Sparrow writing on the ingenious and adventurous *Count Rumford*, inventor, man of action, and landscape architect, and Mary Eldridge examining the impact of plate glass in ever-larger sheets upon the design of urban *Shop-Fronts*.

The annual post-free subscription rate payable in advance is £2.50 sterling; in U.S.A. and Canada \$10.50; elsewhere abroad \$11.00

ar

THE ARCHITECTURAL REVIEW
9-13 Queen Anne's Gate, Westminster, S.W.1.
Whitehall 0611

Please send me the ARCHITECTURAL REVIEW until further notice:
name _____
address _____

The glasshouse of the century



Growing gladioli for Leeds —

and lots of other things for Kew Gardens; Brighton; Fisons; The L.C.C.; The John Innes Horticultural Research Institute; Glasshouse Crops Research Institute; the Ministry of Agriculture, Fisheries & Food; Manchester University; growing things all over the world. At home and abroad the Hartley is the world's most chosen glasshouse.

Features: Maximum light-patent putty-less glazing—surrounded in P.V.C. Extrusion—unrestricted growing and working space. Built in Aluminium Alloy.

**HARTLEY
GLASSHOUSES**

Full details of The Hartley "27" and other glasshouses on request
V. & N. HARTLEY LTD · GREENFIELD · Nr. OLDHAM · LANCs
Telephone: Saddleworth 444

**SINGLE
STACK
PLUMBING**

designed for you
by **Econa**

PHONE SOLIHULL 3078

MAKERS OF
COPPER TRAPS
AND MATCHING
PREFORMED
MULTI-BRANCH
FITTINGS

ECONA MODERN PRODUCTS LIMITED
AQUA WORKS · HIGHLANDS RD · SHIRLEY · SOLIHULL · WARWICKSHIRE

now available: third edition of

Heating and Air-Conditioning of Buildings

by Oscar Faber and J. R. Kell

This authoritative textbook has long been recognised by architects, engineers and advanced students as the standard work on its subject. First published before the war, it has already run through five printings in two editions. For this new edition, the third, the book has been thoroughly revised, brought up to date and largely reset. Much new information, based on recent research, has been added. The data generally has been brought into line with the IHVE Guide to Current Practice (1955 edition), as for instance, the heat transmission of building materials and the flow of water in pipes. The chapter dealing with the pipe-sizing of hot water systems has been re-written with special reference to pump circulation, and graphical methods of simplifying calculation are described. New equipment and systems now referred to include high temperature radiator heating, the pressurization of high-pressure hot water by gas, medium-pressure hot water, forced convectors, heated acoustic ceilings, electric floor warming and night-storage heaters. The chapters on air-conditioning have been extensively revised and re-arranged to include unit-conditioners, primary air systems, cooling by cold coils, and high velocity air-distribution using single or double ducts; whilst the section on refrigeration has been expanded into a separate chapter. Size 9 in. by 6½ ins. 612 pages, with 97 tables and 420 line-illustrations; also 32 pages plates. Third edition, revised and enlarged 65s. net, postage 2s. 0d.

obtainable through all booksellers

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

SCEMCO PLASTIC LOUVERING

Specified by over 100
Architects

IN HIGH DEMAND
FOR SPECIALISED
WINDOW LIGHTING,
WHERE EFFICIENT YET
DIFFUSED ILLUMINATION IS
OF FIRST IMPORTANCE.
EXTREMELY COMPETITIVE
IN PRICE.

NO LIMIT TO LOUVERING AREAS AND
DELIVERED IN EASILY ASSEMBLED
SECTIONS: IT CAN BE CUT TO ANY SHAPE.
BEAUTIFIES AND ATTRACTS WITH ITS
MODERN CONCEALED LIGHTING EFFECT.
NO LIMIT TO SIZE AVAILABLE

SCEMCO COMPENDIUM CONTROL UNITS also available for
use with this and other types of installation.
Send for FREE sample and catalogue of fittings.

SCEMCO

Scemco House, 53, Great Eastern St., London, E.C.2

Tel: Bishopsgate 1319

CLASSIFIED ADVERTISEMENTS

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

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

Public and Official Announcements

3s. per inch; each additional line, 2s. 6d.

QUANTITY SURVEYING ASSISTANTS required by Air Ministry Works Directorate in London and Provinces. Grade and commencing salary based on not less than three or five years' previous experience under Quantity Surveyor or Building Contractor. Approved full time study will count towards five years period. Normally technical qualifications in Builders quantities or building, e.g. C & G, final or O.N.C. or proof to equivalent standard. Duties include abstracting and billing, site measurement and preparation of estimates. Commencing salary and grading according to age, qualifications and experience on salary ranges £545 at age 25 rising to £745 or £695 at age 26 rising to £870. Salaries somewhat lower in Provinces. Five-day week, three weeks' leave a year. Appointments carry liability for service anywhere U.K. or overseas. Applicants normally should be natural born British subjects. Write stating age, qualifications and previous appointments including type of work done, to Manager, Professional and Executive Register, Ministry of Labour and National Service, Atlantic House, Harrington Street, E.C.4, quoting P.B.105/746. No original testimonials should be sent. Only applicants selected for interview will be advised. Opportunities may occur for competing for pensionable posts, promotion prospects. 8423

COUNTY COUNCIL OF ESSEX

COUNTY PLANNING DEPARTMENT

Applications invited for following posts:—
(1) **SENIOR PLANNING ASSISTANT**, Special Grade (£750-£1,030), to take charge of Survey and Development Plan section of Area office at Chelmsford. Applicants should be Corporate Members of Town Planning Institute or other comparable professional institute, and have had experience in the preparation of development plans and control of staff in the office of a local planning authority.

(2) **PLANNING ASSISTANT**, A.P.T. Grade I (£575-£725) at Braintree. Applicants will be required to carry out duties in connection with both development plan and control aspects of work of office.

(3) **PLANNING ASSISTANT** at Romford. Temporary appointment for a period not exceeding two years at a salary within the range of £575-£725. Applicants must be capable draughtsmen, and previous experience in the office of a local planning authority will be an advantage.

(4) **DRAUGHTSMAN** at Broomfield. Miscellaneous Grades II-IV (£420-£620). Medical examination. Appointments (1), (2) and (4) subject to superannuation.

Applications on forms to be obtained from County Planning Adviser, Broomfield Place, Broomfield, Chelmsford, to whom they should be returned not later than 10th February, 1958. 8612

MERTON & MORDEN U.D.C. require **ARCHITECTURAL DRAUGHTSMAN** Salary within Grade A.P.T. I (£575-£725 p.a.) plus London allowance up to £30 according to age. Commencing salary dependent on qualifications and experience. Applicants should be good draughtsmen with experience in architectural work including housing. Applications including names of two referees should be sent to the Engineer and Surveyor, Morden Hall, S.W.19, by 24th February, 1958. 8689

CITY OF ROCHESTER

ARCHITECTURAL ASSISTANT

Applications are invited for the appointment of Architectural Assistant in the City Surveyor's Department, at a salary in accordance with Grade A.P.T. II (£725-£845).

Candidates should have general experience, including the preparation of drawings and specifications for municipal housing schemes. Preference will be given to Registered Architects.

The commencing salary will be according to qualifications and experience.

There is a varied programme of work, including the redevelopment of clearance areas, and the development of a large area added to the City.

In an appropriate case the City Council will provide the successful candidate with suitable housing accommodation and will be prepared to refund removal expenses after twelve months' service.

The appointment will be subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts, and a satisfactory medical examination; one month's notice on either side.

Applications, stating age, qualifications and experience, together with the names and addresses of three persons to whom reference may be made, should be delivered to the City Surveyor, 66 Maidstone Road, Rochester, not later than Tuesday, 26th February, 1958.

PHILIP H. BARTLETT,
Town Clerk.

Gulldhall,
Rochester.
30th January, 1958.

8681

WARWICKSHIRE COUNTY COUNCIL

COUNTY PLANNING DEPARTMENT

Applications are invited for the appointment of a **PLANNING ASSISTANT**, Special Grade (£750-£1,030 per annum), commencing salary according to experience and qualifications. Applicants must be professionally qualified and the successful applicant will be required to provide and maintain a motor car for which travelling allowances will be paid in accordance with the National Scale.

The post is in the Development Plan Section and the planning staff is stationed at Warwick. The appointment is subject to the provisions of the Local Government Superannuation Act, and the successful applicant will be required to pass a medical examination.

Applications together with the names and addresses of two referees should be sent to J. J. Brooks, County Planning Officer, Northgate, Warwick, not later than Monday, 17th February, 1958.

Canvassing directly or indirectly will be a disqualification.

L. EDGAR STEPHENS,
Clerk of the Council.

Shire Hall,
Warwick. 8682

BOROUGH OF OLDBURY
BOROUGH SURVEYOR'S DEPT.—
ARCHITECTS' SECTION

Applications are invited for the following appointments in the Architects' Section of the Borough Surveyor's Department:—

(a) **ARCHITECTURAL ASSISTANT**, A.P.T. Grade I (£575-£725 p.a.)

(b) **ARCHITECTURAL ASSISTANT**, A.P.T. Grade II (£725-£845 p.a.)

Candidates for appointment (b) should preferably have passed the Intermediate Examination of the R.I.B.A. and be capable of preparing working and detail drawings and specifications for work normally undertaken by a Local Authority, mainly housing and education work, and supervising the work on the site.

Candidates for appointment (a) should be competent draughtsmen with practical experience, under supervision, in the preparation of working and detail drawings.

Both appointments will be superannuable, subject to the National Conditions of Service and to the selected candidate passing a medical examination.

Applications, giving particulars of age, qualifications and experience, and giving the names of two referees, should be delivered to the undersigned not later than Tuesday, 18th February, 1958.

KENNETH PEARCE,
Town Clerk.

Municipal Buildings, Oldbury,
near Birmingham.
21st January, 1958. 8620

CRAWLEY URBAN DISTRICT COUNCIL
APPOINTMENTS—ENGINEER & SURVEYOR'S
DEPARTMENT

Applications are invited for the following posts in the Engineer and Surveyor's Department:—

(a) **SENIOR ENGINEERING ASSISTANT**: Special Grade £750-£1,030 p.a.

(b) **SENIOR BUILDING WORKS ASSISTANT**: Special Grade £750-£1,030 p.a.

(c) **ARCHITECTURAL DRAUGHTSMAN**: A.P.T. I—£575-£725 p.a.

(d) **DEPOT CLERK**: Clerical I—£565-£640 p.a. In addition to above salary scales a temporary local weighting (£10-£30 p.a. according to age) will be paid.

The appointments will be subject to the National Scheme of Conditions of Service for the Local Authorities' Administrative, Professional, Technical and Clerical Services, the provisions of the Local Government Superannuation Acts and to the passing of a medical examination.

The Council will endeavour to assist in the provision of housing accommodation, if required.

Details of appointments and forms of application may be obtained from the Engineer and Surveyor, Goffs Park House, Horsham Road, Crawley, Sussex, for return by 20th February, 1958.

Canvassing, directly or indirectly, will disqualify, and applicants must disclose in writing whether they are related to any member or senior officer of the Council.

R. W. J. TRIDGELL,
Clerk of the Council.

Robinson House,
Robinson Road,
Crawley, Sussex. 8684

COUNTY OF CORNWALL

COUNTY ARCHITECT'S DEPARTMENT

Applications are invited for the appointment of **ASSISTANT QUANTITY SURVEYOR**, Grade A.P.T. III (£845-£1,025) on the established staff of the Department.

Candidates should have had considerable experience in taking-off for large building projects and the settlement of final accounts, and should be associate members of the R.I.C.S. or I.O.S.

The appointment is subject to the usual conditions of Local Government Service. Application, accompanied by the names of two persons to whom reference can be made, should reach Mr. F. K. Hicklin, A.R.I.B.A., County Architect, County Hall, Truro, not later than Friday, 28th February, 1958.

E. T. VERGER,
Clerk of the County Council.

County Hall,
Truro.
28th January, 1958.

8685

BUCKINGHAMSHIRE

ARCHITECT'S DEPARTMENT

ARCHITECT, J.N.C. Scale "C"

£1,295 x £55 (4)—£1,515 p.a.

Point of entry according to ability. Man with energy, initiative and ideas required to work on schools, municipal housing and civic buildings. The appointment is superannuable and subject to medical examination.

A weekly allowance of 25s. and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation. Applications, on forms provided, must be returned by the 28th February, 1958.

F. B. POOLEY,
County Architect.

County Offices,
Aylesbury. 8683

BURGH OF PAISLEY

Applications are invited for the following vacancies:—

(a) **PRINCIPAL ASSISTANT ARCHITECT**, Salary £1,207 10s.—£1,479 17s. 6d.

(b) **ASSISTANT ARCHITECTS**, Salary £975—£1,145.

(c) **ARCHITECTURAL ASSISTANTS**, Salary £795—£920.

(d) **ARCHITECTURAL ASSISTANTS**, Salary £645—£770.

Candidates for post (a) must be A.R.I.B.A. with extensive subsequent experience. For posts (b) and (c) A.R.I.B.A. with a minimum of five years and two years subsequent experience respectively, and post (d) Intermediate R.I.B.A. with two years subsequent experience.

Conditions of service are in accordance with the J.I.C. scheme and the successful candidates will be required to contribute to the Council's Superannuation Fund.

Applications should be sent to me not later than Saturday, 15th February, 1958.

JOHN A. MCGREGOR,
Master of Works.

Master of Works' Office,
14 Gilmour Street,
Paisley.
28th January, 1958. 8691

BOROUGH OF ROMFORD

Applications are invited for the under-mentioned staff vacancies in the Borough Engineer and Surveyor's Department:—

(a) **ASSISTANT ARCHITECT**, salary Special Grade (£750-£1,030 p.a.)

(b) **TECHNICAL ASSISTANT** in the Architectural Section, salary grade A.P.T. II (£725-£845 p.a.). A general knowledge of the building trade with experience in specification writing and estimating is essential.

(c) **JUNIOR ARCHITECTURAL DRAUGHTSMAN**, salary according to age and educational qualifications.

Commencing salary in (a) and (b) will be fixed within the Grade according to qualifications and experience. The provision of housing accommodation and reimbursement of removal expenses will be considered where necessary.

Particulars and Conditions of the appointments may be obtained on application to the Town Clerk, Town Hall, Romford, Essex, to whom completed applications must be sent not later than 21st February, 1958. 8687

NORTHAMPTON RURAL DISTRICT COUNCIL

ARCHITECTURAL ASSISTANT

Applications are invited for the above appointment based on qualifications and experience.

The principal work will be preparation of improvement schemes for Council Houses, although from time to time, new works will be involved.

The appointment is subject to the Local Government Superannuation Acts, the National Conditions of Service, a satisfactory medical examination, and termination by one month's written notice on either side.

Applications endorsed "Architectural Assistant" stating salary required with personal details and details of experience and qualifications together with names of two referees, to be sent to the undersigned by first post on Wednesday, the 12th February, 1958.

CLIFFORD E. JONES,
Clerk of the Council.

Council Offices,
1, Cheyne Walk,
Northampton.
27th January, 1958. 8688

BOROUGH OF KING'S LYNN

HOUSING ARCHITECT'S DEPARTMENT

Applications are invited for the appointment of **JUNIOR ASSISTANT QUANTITY SURVEYOR**, Grade A.P.T. I (£575-£725 p.a.)

Candidates should be at intermediate standard and able to assist in the preparation of Bills of Quantities and Estimates, valuation of works in progress and settlement of Final Accounts.

The appointment will be subject to the National Scheme of Conditions of Service, is superannuable, and is subject to medical examination.

Consideration will be given to the provision of housing accommodation.

Applications, giving age and full particulars of qualifications and previous appointments, and naming two referees, should be addressed to G. Holmes Esq., A.R.I.B.A., Housing Architect, Clifton House, Queen Street, King's Lynn, not later than Monday, 17th February, 1958.

Canvassing disqualifies.

E. W. GOCHER,
Town Clerk.

Town Hall,
King's Lynn,
Norfolk. 8689

DERBYSHIRE COUNTY COUNCIL COUNTY ARCHITECT'S DEPARTMENT

Vacancies exist for:
A. ARCHITECTS "Special" grade—£750 × £40 to £1,030 per annum.
B. ARCHITECTURAL ASSISTANTS, A.P.T. Grade I—£575 × £30 to £725 per annum.
Applicants for post A must be fully qualified. Applicants for post B must have passed Intermediate R.I.B.A. examination.
Offices moving shortly to Matlock. National Joint Council Conditions of Service. Pensionable posts. Canvassing disqualifies. Application forms from The County Architect, County Offices, St. Mary's Gate, Derby. 8686

BOROUGH OF BILSTON HOUSING DIRECTOR'S DEPARTMENT

Applications are invited for the following appointments in the Housing Director's Department:
(a) ARCHITECTURAL ASSISTANT, A.P.T. Grade II. £725—£845.
(b) QUANTITY SURVEYOR, A.P.T. Grade III. £845—£1,025.

Applicants for appointment (a) should be experienced in Housing and Administration of Building Contracts.
Applicants for appointment (b) should preferably be members of the R.I.C.S. and have had experience in the preparation of Bills of Quantities for Municipal Housing, including flats and site works.
The appointments will be subject to the National Scheme of Conditions of Service, a medical examination and the Local Government Superannuation Acts 1937 and 1953.
Housing accommodation will be made available if required.
Applications stating age, qualifications and experience, together with two testimonials should be sent to the Housing Director, 20, Wellington Road, Bilston, Staffs, not later than Monday the 17th February, 1958.

A. M. WILLIAMS,
Town Clerk.

Town Hall,
Bilston,
Staffs. 8664

COUNTY BOROUGH OF WEST HAM BOROUGH ARCHITECT & PLANNING OFFICER'S DEPARTMENT

Applications are invited from suitably qualified and experienced Architects and Planners for the following permanent appointments:
(a) DEPUTY GROUP ARCHITECTS, Special Grade: £750—£1,030.
(b) ASSISTANT ARCHITECT, Special Grade: £750—£1,030.
(c) ARCHITECTURAL ASSISTANTS, A.P.T. Grade I: £575—£725.
(d) ASSISTANT PLANNING OFFICER, Special Grade: £750—£1,030.
(Plus London Allowance)
(Starting point in Grades according to qualifications and experience).
Qualifications for posts (a) and (b) A.R.I.B.A.; (c) Intermediate R.I.B.A.; (d) A.R.I.B.A., A.M.T.P.I.
The County Borough has an extensive Reconstruction and Slum Clearance Programme, and offers varied and interesting work.
Application forms and details from the Borough Architect and Planning Officer, Thomas E. North, O.B.E., F.R.I.B.A., Dist.T.P., M.T.P.I., 70 West Ham Lane, Stratford, E.15 (returnable by 25th February, 1958). 8693

BOROUGH OF SOLIHULL QUANTITY SURVEYING ASSISTANT, A.P.T. GRADE II (£725—£845)

Applications are invited for the above appointment on the architectural staff of the Borough Engineer & Surveyor. Applicants should have passed the R.I.C.S. Intermediate examination or its equivalent.
Half the reasonable cost of removal expenses will be paid and, where applicable, housing accommodation will be provided as soon as possible.
Applications giving the names and addresses of two referees should be sent to the Borough Engineer & Surveyor, 90, Station Road, Solihull, Warwickshire, not later than Friday, 21st February, 1958.

W. MAURICE MELL,
Town Clerk.

Council House,
Solihull. 8696

CITY OF CANTERBURY

Applications are invited for the temporary appointment of a SENIOR ARCHITECTURAL ASSISTANT, Special Scale (£750 × £40 to £1,030). Candidates must have passed the Final Examination of the R.I.B.A. and have good general experience in architectural design and construction. The successful candidate will be engaged primarily on the design and erection of a new Technical College. This project, which is in the early stages of design, offers considerable scope for initiative and experience in all aspects of the work. The design and erection of the College is likely to extend over a number of years. The commencing salary will be fixed within the scale according to ability and experience.
Applications, together with the names of two referees, must reach the City Architect and Planning Officer, Mr. J. L. Berbers, F.R.I.B.A., A.M.T.P.I., not later than Saturday, 22nd February, 1958.
Canvassing will disqualify.

J. BOYLE,
Town Clerk.

Municipal Buildings, Canterbury. 8622

GOVERNMENT OF NORTHERN IRELAND

Applications invited from ARCHITECTURAL ASSISTANTS with recognised training and fair experience for unestablished posts in the Chief Architect's Branch, Ministry of Finance. Salary scale £537—£830, starting pay for candidates who have passed R.I.B.A. Intermediate examination will be £672. Preference will be given to ex-Servicemen. Application forms obtainable from the Director of Establishments, Ministry of Finance, Stormont, Belfast. 8663

LANCASHIRE COUNTY COUNCIL COUNTY ARCHITECT'S DEPARTMENT

ARCHITECTS, who have recently passed their Final Examination, are invited to apply for posts with a starting salary of £750 a year in a scale which rises to £1,030. Applicants with experience may be offered higher starting salaries.

Interesting programme of Schools, Technical Colleges and similar work.
Application forms, obtainable from the County Architect, G. Noel Hill, F.R.I.B.A., M.T.P.I., P.O. Box 26, County Hall, Preston, to be returned by February 28th, 1958, quoting Ref. A/AJ. 8662

BRITISH TRANSPORT COMMISSION OFFICE OF THE ARCHITECT LONDON HEADQUARTERS

LEADING ASSISTANT ARCHITECT required. Salary range £1,065/£1,170. Several years' practical experience; accustomed to carrying responsibility. A.R.I.B.A. Design ability, sound knowledge construction, good draughtsmanship, genuine interest in contemporary design essential. Superannuation scheme; residential, holiday, etc., and travel privileges, medical examination. Applications stating age, qualifications, experience to Principal Establishment & Staff Officer, British Transport Commission, 222, Marylebone Road, London, N.W.1, within 14 days. 8640

BOROUGH OF FLINT (1) ARCHITECTURAL ASSISTANT (2) BUILDING INSPECTOR AND CLERK OF WORKS.

Applications are invited for the following two appointments within the Department of the Borough Engineer and Surveyor—

(1) ARCHITECTURAL ASSISTANT: Applicants should have experience in the design and layout of Local Authority housing estates and the erection of Council houses. Preference will be given to candidates who are studying for the examinations of the Royal Institute of British Architects. The salary will be in accordance with the National Scale A.P.T. I (£575—£725) according to age, qualifications and experience.

(2) BUILDING INSPECTOR AND CLERK OF WORKS: Applicants should have experience in the inspection of buildings with particular reference to Building Byelaws and be able to undertake the duties of Clerk of Works in connection with the erection of Council houses and other works of construction carried out by the Council. The salary will be in accordance with the National Scale Misc. Grade VI (£645—£725).

Both appointments will be subject to the following conditions:—

(a) National Conditions of Service.
(b) The provisions of the Local Government Superannuation Acts, 1957-1953, and the passing of a medical examination.

(c) The provision of suitable housing accommodation by the Council, if necessary.

(d) One month's notice on either side as to termination of appointment.

Applications stating age, qualifications, details of previous appointments and experience, present salary and when available together with the names and addresses of two referees to reach the undersigned not later than Thursday, 20th February, 1958.

Canvassing in any form will disqualify.
WILLIAM MCINTYRE,
Town Clerk.

Town Hall,
Flint.
28th January, 1958. 8660

HOLLAND COUNTY COUNCIL, LINCOLNSHIRE

COUNTY ARCHITECT'S DEPARTMENT

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT Grade A.P.T. II, i.e. £725 to £845 per annum.

The appointment is superannuable and subject to a medical examination.

Applications, on forms provided by the undersigned, should be returned completed to me by 24th February, 1958.

H. A. H. WALTER,
Clerk of the County Council.

County Hall,
Boston, Lincs. 8659

HEMEL HEMPSTEAD DEVELOPMENT CORPORATION

Applications are invited for the following appointment in the Planning Section of the Chief Architect's Department—

One SENIOR PLANNER, salary range £815 to £994. Applicants must be corporate members of the Town Planning Institute and should have had experience in the Development Plan Section of a Local Planning Authority, preferably on large scale redevelopment schemes for housing and industry.

Conditions of service similar to those in Local Government.

Housing accommodation may be provided. Applications stating age, qualifications, experience with names of two referees and endorsed Vacancy No. 99 to reach the General Manager, Westbrook May, Hemel Hempstead, by 14th February. 8639

MERSEYSIDE AND NORTH WALES ELECTRICITY BOARD

SECOND ASSISTANT ENGINEER (BUILDING) required in the Board's No. 4 Sub-Area Headquarters, Electricity House, Rhosyllen, near Wrexham. Salary within range £1,065/£1,140 per annum (N.J.B. K/8).

Applicants should have experience of the design, construction and maintenance of buildings and associated works, and the preparation of drawings and specifications. Possession of suitable technical qualifications advantageous.

Appointment subject to medical examination. Pension Scheme.

Application forms obtainable from the Manager at the above address. Closing date: 15th February, 1958. 8661

Architectural Appointments Vacant

4 lines or under, 9s. 6d.; each additional line, 3s. 6d. Box Number, including forwarding replies, 2s. 6d. only.

CO-OPERATIVE WHOLESALE SOCIETY LTD. ARCHITECTS' DEPARTMENT, MANCHESTER

APPLICATIONS are invited for the appointment of ASSISTANT ARCHITECTS with experience of work on commercial and industrial projects, capable of preparing working drawings from preliminary details. Five-day week in operation. Applications stating age, experience, qualifications and salary required to G. S. Hay, A.R.I.B.A., Chief Architect, Manchester 4. 8376

WORKING ASSISTANT required for general practice. Intermediate or Associate standard. Office experience essential. Particulars to H. A. Whitburn & Son, 12 Broadway, Woking 810. 8376

WILL any ASSISTANT who prefers to work in a small private office and is interested in the preservation of important historic buildings please apply to L. H. Bond & E. W. Read, 44, Castlegate, Grantham. 8399

OPPORTUNITY for Architect (Associate level)

to form part of development team of Midway Timber Building Systems at Rochester head office. Work will include development of new designs as well as application of existing systems to specific projects. Good draughtsman with sound training and modern outlook, preferably with experience on some modular building method. Post can be permanent/pensionable or can provide a few years of invaluable experience in this field. Write full details of training, qualifications, experience, salary level, in confidence to Personnel Manager, Midway Buildings & Supplies Ltd., Phoenix Wharf, Rochester, Kent. 8686

H. T. CADBURY-BROWN requires ARCHITECTURAL ASSISTANT of Intermediate standard with office experience. Varied work. Reply stating experience etc. and salary required to 17 Claridge Street, London, W.1. 8626

QUALIFIED SENIOR ASSISTANT required to lead a small group with direct responsibility to principal. For a man of suitable ability there are excellent opportunities but a desire to take responsibility is essential. Pension and Bonus Schemes. Salary in accordance with ability. Apply A. J. Elder, A.R.I.B.A., 65, Albert Road, Middlesbrough. 8604

NORTH WALES, SENIOR ASSISTANT ARCHITECT required in Mold Office of F. C. Roberts, B.Arch., F.R.I.B.A. Intermediate qualification and several years' practical experience essential. Approximate salary: £800 for suitable person. Write, giving details of experience and present salary to Earl Chambers, Mold. 8685

ARCHITECT'S ASSISTANT, Intermediate standard, required immediately for small London office. Interesting work on varied projects. Ability to use initiative and work with minimum of supervision. distinct advantage. Salary by arrangement. Please write Box 8587.

RONALD WARD AND PARTNERS require ARCHITECTURAL ASSISTANTS, with contemporary outlook, and willing to use own initiative. Salary range £600 to £850. Congenial working conditions, 5-day week—Apply: 29, Chesham Place, Belgrave Square, S.W.1. Telephone Belgravia 3361. 8668

W. S. ATKINS & PARTNERS require ARCHITECTURAL ASSISTANTS, who are interested in working on large industrial projects such as atomic power stations—Applications, stating experience, qualifications and salary required, to Personnel Manager, 158, Victoria Street, S.W.1. 8686

WESTON SUPER MARE, JUNIOR ARCHITECTURAL ASSISTANTS required. Intermediate standard. Minimum three years' experience. Interview London or Weston super Mare. Apply full particulars: R. H. Gellianaugh, L.R.I.B.A., 64, Queen Anne Street, London, W.1. 8690

ASSISTANT ARCHITECTS required immediately for busy office as follows:—

(A) SENIOR ARCHITECTS to be A.R.I.B.A. with considerable experience. Salary £1,400—£1,600 per annum.

(B) QUALIFIED ASSISTANT ARCHITECTS. Salary £1,150—£1,350 per annum.

(C) ASSISTANT ARCHITECTS, Intermediate/Final Standard. Salary £500—£650 per annum.

Excellent prospects for promotion, pension scheme in operation. Apply giving full particulars of age, education, experience, etc., to J. G. L. Poulson, L./F.R.I.B.A., Chartered Architects, Surveyors, 29, Ropergate, Pontefract. 8600

ARCHITECTURAL ASSISTANT required of good experience, must be capable draughtsman used to detailing on large contracts, salary £750 per annum, according to experience. George Watt, A.R.I.B.A., 146, Mostyn Road, Merton Park, S.W.19. Liberty 3181. 8588

ASSISTANT ARCHITECT required for the London Head Office of a major oil company. Applicants must be A.R.I.B.A., capable of administration, supervision of staff, and controlling work through all stages of development. Must hold a current driving licence. 5-day week, good pension and life assurance scheme, sickness benefits, and free luncheon vouchers.—Write to Box 8642, quoting Ref. AA/26.

ASSISTANT wanted to work with five other assistants in busy office of private architect in West Midlands. Real opportunity to design and take responsibility. Interesting varied work. Five-day week. Box 8583.

ARCHITECTURAL ASSISTANTS required. Intermediate Standard or equivalent. Very good prospects for suitable applicants. Five-day week. Write giving full particulars to Johns, Slater & Haward, F.A.R.I.B.A., 32 Foundation Street, Ipswich. 8601

ARCHITECTURAL ASSISTANT required immediately for busy growing London practice with excellent opportunities. Salary £500 to £800 p.a., according to experience.—Apply Morgan & Branch, A.A.R.I.B.A., 6, Charterhouse Square, E.C.1. CLE. 8529/2164. 8669

ARCHITECT of Brewery Company in Newcastle urgently requires competent ASSISTANT. Superannuated position after probationary period. Housing accommodation can also be provided.—State experience, salary, etc., to Box 8667.

DOWTY GROUP of Cheltenham have a vacancy for a **SENIOR ARCHITECTURAL ASSISTANT** of at least Inter. R.I.B.A. standard, to deal with general expansion work throughout the Group. The starting salary will depend on ability and past experience, and a Superannuation Scheme is in operation.—Write in tabulated form, giving details of education, qualifications and career, mentioning age, to Personnel Manager, for the attention of the Group Architect, Dowty Group, Ltd., Arle Court, Cheltenham. 8666

GOOD position offered to **ARCHITECTURAL ASSISTANT** of Intermediate standard in Sheffield. Applicants should be prepared to accept responsibility, be capable of individual working, and have a good standard of presentation. They must also have a contemporary outlook. Good salary offered, 5-day week, luncheon vouchers and social club.—Write, giving full particulars of age, experience and salary required, to Box 8643, quoting Ref. AA/29.

JOHN LAING & SON, LTD.
Invite applications for the following vacancies in their Architect's Department (Chief Architect: Sydney Greenwood, A.R.I.B.A.), at Head Office in N.W. London:—

ARCHITECTS, of Final R.I.B.A. standard, and with good experience in one or more of the following: Office and Industrial Schemes, Multi-storey Flats and Maisonnettes, Private and Municipal Housing.

ARCHITECTURAL ASSISTANTS of Intermediate or Final R.I.B.A. standard, and limited experience in one of the above fields.

JUNIOR ARCHITECTURAL ASSISTANTS who are studying for a recognised qualification. These positions offer excellent opportunities for advancement and a wide variety of work in a busy office. Pension scheme after two years' service.

Five-day week, canteen, sports and social club facilities.
Applications to:
PERSONNEL MANAGER (A.A.J.),
JOHN LAING & SON, LTD.,
Building and Civil Engineering Contractors,
Page Street, London, N.W.7. 8665

ARCHITECTURAL ASSISTANTS

NUCLEAR POWER

The Nuclear Power Division of

SIMON-CARVES, LTD.,
require additional

SENIOR ASSISTANTS
and

JUNIOR ASSISTANTS

in the ARCHITECT'S Section of their Design Office in London (Mayfair). Applicants should be of R.I.B.A. Final or Intermediate standard, and have experience of Industrial Buildings. They should have completed National Service.

Good salaries are offered, and working conditions and prospects are excellent. A Pension Scheme and non-contributory Sickness Benefit Scheme are in operation.

Send brief relevant details, quoting Ref. HV.55, to

STAFF AND TRAINING DIVISION,
SIMON-CARVES, LTD.,
Cheadle Heath, Stockport, Cheshire. 8641

ARCHITECTURAL ASSISTANTS of Final and Intermediate standard required for work on large and small projects at home and abroad. Salary according to qualifications and experience. Apply E. J. D. Mansfield, A.R.I.B.A., Sir William Halcrow & Partners, 47 Park Lane, London, W.1. 8584

ARCHITECTURAL ASSISTANTS required in Middlesbrough of both Intermediate and Qualified standards. Salaries up to £600 and £1,150, according to ability, with good increments for good work thereafter.—Apply, giving details of age, education, experience, etc., to J. G. L. Poulson, L.F.R.I.B.A., 29, Ropergate, Pontefract, Yorkshire. 8679

QUALIFIED SENIOR ASSISTANT with experience, required for busy London office engaged in industrial and commercial work. 5-day week; luncheon voucher scheme; salary by arrangement.—Please apply to Eric Firmin & Partners, Thavies Inn House, 5, Holborn Circus, London, E.C.1. 8678

EXPERIENCED ARCHITECTURAL ASSISTANT required at once for busy practice in North London for interesting and varied work. Initiative encouraged and successful applicant expected to accept responsibility. Commencing salary £750-£900 per annum, according to ability.—Write, giving age, training, experience and qualifications, to Box No. 8677, or telephone for appointment: SHO 3383.

SENIOR TECHNICAL ESTIMATOR required for Technical Division at Engineering Works at Hanwell, Middx. Must be able to take off details from Architects' and Engineers' drawings and be conversant with Structural Building Practice. Pension scheme.—Write full details, age, experience and salary required, to the Secretary, Broads Manufacturing Co., Ltd., Paddington, W.2. 8676

LOUIS DE SOISSONS, PEACOCK, HODGES & ROBERTSON have vacancies in their London and Welwyn Garden City offices for experienced **ARCHITECTURAL STAFF**. A large amount of varied, interesting work on hand.—Write, stating age, salary and experience, to the above at: 3, Park Square Mews, Upper Harley Street, London, N.W.1. 8649

THE LONDON HOSPITAL, Whitechapel, E.1. Applications are invited for the following appointments in the Architect's office: **ASSISTANT ARCHITECT**, £730-£1,065 p.a., and **JUNIOR ASSISTANT ARCHITECT**, £545-£760 p.a. Starting salary dependent in both cases on qualifications, age and experience.—Applications, with full details, to be sent to the Architect. 8657

KEEN JUNIOR DRAUGHTSMAN required with aptitude for varied work in architect's department. Five-day week, canteen, pension scheme. Please write giving full particulars of education, experience, age and salary required to Personnel Manager, Schweppes Limited, 1-6, Connaught Place, W.2. 8696

OPPORTUNITY for advancement occurs for Single Young Man of Intermediate or Better Standard as **SECOND ASSISTANT** in Country Practice. Reply to Box 8694.

SENIOR ASSISTANT ARCHITECT required by a large Industrial Group in N.W. London with knowledge of industrial and office buildings. Salary £350-£1,000.—Write, giving age and experience, Box 8655.

ARCHITECTURAL DRAUGHTSMAN required for large industrial concern in Central London.—Apply, stating age, with full particulars of experience and salary required, to Box 8654.

ARCHITECTURAL ASSISTANT required for North Hertfordshire Office of Chartered Land Agents, with extensive agricultural practice.—Reply, giving fullest particulars, including age, experience, and salary required, Box 8658.

ARCHITECTURAL ASSISTANT required, of Inter. or Final standard, with some experience, for work on Department Stores, Shops, Exhibitions and Housing.—Box 8648.

RALPH TUBBS, 35, Welbeck Street, W.1. requires qualified **SENIOR ASSISTANT ARCHITECT**, with both imagination and experience. Please apply by letter with brief particulars. 8647

LEEDS Architects require **ASSISTANTS**, Intermediate/Final standard. Salary by arrangement. Busy and varied practice. 5-day week.—Box 8646.

ARCHITECTURAL ASSISTANT required in Cambridge office. Intermediate or Final standard. Applicants should give details of experience, age, and salary required.—Box 8645.

ARCHITECTURAL ASSISTANT for office in Gray's Inn. Quick and accurate draughtsman essential. Salary by arrangement.—Write full details, Box 8644.

GEORGE WIMPEY & CO., LIMITED
THE ARCHITECTS' DEPARTMENT seek **SENIOR AND INTERMEDIATE ASSISTANTS**, with experience and ability to apply their knowledge to new construction techniques covering Multi-storey Flats, Houses, Offices and Industrial Buildings for contracts in the U.K. and Overseas.

Appointments are on a permanent basis, with a 5-day week, at Head Office, Hammersmith. Salaries will be commensurate with qualifications and experience and, subject to satisfactory service, there is a Pension Scheme available.

Applications, giving full particulars, to:—
E. V. COLLINS, A.R.I.B.A.,
Chief Architect,
27, Hammersmith Grove, London, W.6. 8656

Architectural Appointments Wanted

4 lines or under, 9s. 6d.; each additional line, 2s. 6d. Box Number, including forwarding replies, 2s. extra

A.R.I.B.A. (39) wide experience of housing, factories and hospitals, seeks responsible position. London to Hertford area. Box 8629.

MARLEY MULTIPLE CONCRETE GARAGES

Of unsurpassed appearance and spacious dimensions, these fire-proof, rot-proof garages are virtually maintenance free. Choice of superb 'Welrise' up-and-over doors or traditional timber.

Supplied, delivered and erected by Marley experts at very competitive prices. Let us quote you ..

MARLEY CONCRETE LIMITED. Dept. X B 7

PEARMARSH, GUILDFORD, SURREY Guildford 62986 • SOUTH OCKENDON, NR. ROMFORD, ESSEX S. Ockendon 2201
SHARDINGTON, NR. CHILTERNHAM Shardington 334/5 • WATERLOO, POOLE DORSET Broadstone 626



COMPETENT ARCHITECTURAL ASSISTANT (age 27), R.I.B.A. Final standard, 8 years' varied experience, seeks responsible position in a small practice of a London Architect. Salary required £350 p.a.—Box 8675.

ASSOCIATE, aged 32, educated Sherborne & A.A., 5 years' experience in London practice, in charge of handling projects, now looking for responsible post in provincial practice with view to partnership. S. or S.W. England preferred. Capital available. Box 8228.

TWO young enthusiastic ASSISTANTS (near qualified, combined varied experience 13 years), working as team, seek position where initiative and responsibility will be suitably rewarded. Surveys, etc. Jobs from sketch to completion.—Box 8650.

A.R.I.B.A. (31), wide experience, seeks responsible senior post. Approx. salary £1,200 p.a.—Box 8673.

STUDENT R.I.B.A. seeks part-time work. Working Drawings, Surveys, Tracings, etc. London or Middlesex area. Prompt attention.—Phone Southall 4149.

ASSOCIATE, M.C.D., B.Arch., A.M.T.P.I., (age 31), 4 years' varied experience, seeks position with full responsibility, Merseyside or Chester area.—Box 8692.

Other Appointments Vacant

4 lines or under, 9s. 6d.; each additional line, 2s. 6d. Box Number, including forwarding replies, 2s. extra

CO-OPERATIVE WHOLESALE SOCIETY, LTD., Architect's Department, Bristol. Applications are invited for the appointment of a **SHOPFITTING DESIGNER**, with experience in Shop Fronts, Equipment, and Shop Interior Layouts. Applicants should be capable also of preparing specifications and constructional details of fittings, and fixtures, working in conjunction with and under the supervision of Senior Architectural Staff. The post is pensionable, subject to medical examination. 5-day week in operation. Applications, giving age, details of experience and salary required, to the Branch Architect, C.W.S., Ltd., Broad Quay, Bristol, 1. 8544

A SENIOR REPRESENTATIVE is required for the London area by leading nationally known manufacturers of prefabricated timber building systems. Sound knowledge of building construction is essential. Architectural background with experience of prefabrication or timber structures would be a considerable asset. This is an opportunity for a capable sales executive able to initiate, maintain and successfully finalise technical and commercial negotiations at high level. Send fullest details of qualifications and experience and career with age and salary levels in chronological order. Write Box 8611.

IMPERIAL CHEMICAL INDUSTRIES, LTD., require a **REPRESENTATIVE**, to advise clients on colour treatment of factories and other large buildings. Applicants must have had Art and/or Architectural training, and possess outstandingly good colour sense with ability to convey ideas clearly and enthusiastically to others. Good presence and speech are essential. Age 25-35. Salary according to age and experience. Pensionable post.—Apply, giving full particulars of experience, to the Staff Officer, Imperial Chemical Industries, Limited, Paints Division, Wexham Road, Slough, Bucks. 8652

DESIGN RESEARCH UNIT has vacancy for **SECRETARY/SHORTHAND TYPIST** to Senior Architect. Apply by letter to Business Manager, 37 Park Street, London, W.1. 8628

SHOP FITTINGS. Applications requested for position (in Scotland) of **SHOP FITTINGS SUPERVISOR**, conversant all aspects of Shop Fitting Work including details, Costing, and with outstanding ability in Contemporary Design, Lay-out and Presentation. Box 8354.

Services Offered

4 lines or under, 9s. 6d.; each additional line, 2s. 6d. Box Number, including forwarding replies, 2s. extra

"DON" ARCHITECTURAL MODEL MAKERS. We offer the highest grade work with speed and reliability.—Please Phone Erith 3843 or Hastings 1366. 1673

SITE SURVEYS, Levels, etc., undertaken, 50 miles radius Stratford-on-Avon. H. G. Bengough, Brailles, Nr. Banbury, Oxon. Tel. Brailles 60. 8189

BILLS OF QUANTITIES. Specifications, Schedules, etc., typed and duplicated. Quality and accuracy guaranteed. Speedy and economical service. Prompt despatch by registered post.—Josephine Sammons, 52, Brunswick Road, Hove, Sussex. Tel.: Hove 70051. 7791

THE SITE SURVEY COMPANY

Blackheath, S.E.3. Tel.: LEE Green 7444-5 Fully equipped to undertake urgent Engineering and Architectural surveys in any part of the country and abroad. Specialists in 1 in. scale detailed surveys for extensive city development areas. 1890

ARCHITECTURAL, Reinforced Concrete and Steel design and detailing work required. Over 30 Assistants available. MUS. 8753. 5146

SITE Surveys and Surveys of Buildings prepared at short notice anywhere in Britain. MUSEum 8753. 3103

CO. DURHAM Architect offers part or entire service to other Architects in area and adjoining counties. No project too large or too small.—Box 8521.

Q.S. would like to assist the professions in any capacity: taking off, working up, site measuring, specifications, surveys, etc. Completely mobile. Box 8597.

A.R.I.B.A. with considerable experience will undertake perspective drawings. Box 8598.

EXPERIENCED ARCHITECTURAL DRAUGHTSMAN will complete W.D.s and details as spare-time work. Box 8630.

STAFF PROBLEMS? My services offered for evening work—Tracing, Working Drawings, Typing, etc. Quick and efficient results.—Box 8670.

PART-TIME services offered for Reinforced Concrete Design and Detailing.—Box 8671.

ARCHITECT offers temporary immediate assistance, part or full time, prior to taking up new appointment. Design, Working Drawings, Surveys. Furniture and Fitting Design, etc.—Box 8672.

For Sale and Wanted

4 lines or under, 9s. 6d.; each additional line, 2s. 6d. Box Number, including forwarding replies, 2s. extra

BOUND Volumes for sale of the "Architects' Review," from 1929 to 1948, 30 volumes; also loose issues since then until to-day. What offers?—Box 8680.

STEEL-FRAMED INDUSTRIAL BUILDINGS for Factories, Workshops, Storage, Garages, now in Stock. These are NOT Hangars. 100 ft. x 30 ft. 40 ft. and 50 ft. Single Spans. 200 ft. x 45 ft. 50 ft. and 60 ft. Single Spans. 275 ft. x 30 ft. 135 ft. and 185 ft. Double and Treble Spans. Other sizes also available. Complete Works carried out. Macks Structures (B'ham) Ltd., Belvedere Works, Feltham, Middx. Feltham 5761/2/3. 8546

SUPPLIERS of pre-fabricated bungalows, suitable for permanent conversion. Approx. £1,000 per unit, pre-fabricated £500 per unit, 2-4 bed, kitchen, bath, living, etc., complete fittings. J. D'Arcy (Portable Builders), Ltd., Oak Village, London, N.W.5. Tel. Gulliver 3644. 8612

Partnership and Financial

6 lines or under, 15s.; each additional line, 2s. 6d. Box No., including forwarding replies, 2s. extra

PRINCIPAL of private practice wishing to retire, go abroad or share his burden, should contact lively Associate (M.A. and Dip.Arch., Birmingham), who wants to use some capital and enterprise to advantage in the South or South-West.—Box 8651.

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 and Cloakroom Equipment.—Harvest Works, 96/107, St. Paul's Road, N.1. Canonbury 2061.

ARCHITECTURAL METALWORK of all types supplied and fitted. Gates, doors, balustrades, staircases, steel structures. Design staff available.—Clayton & Bamber, Ltd., Cartersfield Road, Waltham Abbey, Essex. 5823

CANTEN and Restaurant Kitchens expertly planned and fitted. Reconditioned or new equipment available. Rental facilities if required. Designer will call. Commercial Catering Equipments Co. Ltd., 29, Abingdon Road, Kensington, W.8. Tel. WE8tern 0936. 8251

"If you have a first-class connection amongst Architects in the London area and wish to add to your selling range, we have a commodity we consider is easy to sell upon which we would be prepared to pay a generous commission.—Apply Box 8548.

VALUABLE BUILDING LAND, WORTHING WEST PARADE: First-class Marine Site. Outline Planning Consent for Flats on five floors. Frontage 170 ft., maximum depth 238 ft. Excellent opportunity for development of luxury Flats for Sale or to Let.

GORING-BY-SEA: Approx. 79 Plots. Frontage to concrete road. A few minutes' walk of beach. Good bus services, shopping centre, and station. For Sale as a whole or in parcels.

Deferred terms can be arranged. **EAST WORTHING:** Close sea front and bus route. Approx. 16 plots; suitable for Bungalows, Houses or Flats, subject to Planning Consent.

CENTRAL WORTHING: 75 yards sea front, on bus route, adjacent shops, with main road frontage. Valuable Site, suitable for Flat development. Price £10,950, freehold.

LIGHT INDUSTRIAL SITE, WORTHING Approx. 12 acres, including large steel-framed building on concrete base, approx. 5,000 sq. ft. floor area, and sundry outbuildings. £10,000, freehold.

For full details, plan, etc., of the above and other land apply **JORDAN & COOK, 33, South Street, Worthing.** Tel. 700. 8653

just published BUILDING MATERIALS

by C. C. Handisyde
Third, revised, edition
price unchanged: 30s. net
postage 1s. 5d.

THE ARCHITECTURAL PRESS

9 Queen Anne's Gate, S.W.1

COLLEGE OF ESTATE MANAGEMENT

(Incorporated by Royal Charter)

St. Aiban's Grove, Kensington, W.8.

TUITION for the examinations of:

UNIVERSITY OF LONDON DEGREE OF B.Sc. (ESTATE MANAGEMENT)
THE ROYAL INSTITUTION OF CHARTERED SURVEYORS
Including the Valuation, Building Surveying and Quantity Surveying Sections)

THE TOWN PLANNING INSTITUTE
THE ROYAL SOCIETY FOR THE PROMOTION OF HEALTH
THE INSTITUTE OF MUNICIPAL ENGINEERS
and other similar bodies and for:

THE ENGINEERING INSTITUTIONS JOINT PART I EXAMINATION.

The College provides

DAY, EVENING AND POSTAL COURSES

and full information concerning courses available for the various examination will be supplied on application to:—

THE SECRETARY (A)

Telephone: WE8tern 1546

Educational Announcements

4 lines or under, 9s. 6d.; each additional line, 2s. 6d.
Box Number, including forwarding replies, 2s. extra

R. I.B.A. and T.P.I. EXAMS.—Stuart Stanley
(Ex. Tutor Sch. of Arch., Lon. Univ.), and
G. A. Crockett, M.A./B.A., F./F.R.I.B.A.,
M./A.M.T.P.I. prepare Students by correspon-
dence, 10, Adelaide Street, Strand, W.C.2. TEM.
1603/4.

R. I.B.A. Inter. and Final EXAMS.
TUITION, BY POST.—C. W. BOX,
F.R.I.B.A., 115, Gower Street, W.C.1. Tel.:
EUS. 3906. 1942

COURSES for all R.I.B.A. EXAMS.

Postal tuition in History, Testimonies, Design, Calcu-
lations, Materials, Construction, Structures, Hygiene,
Specifications, Professional Practice, etc. Also in
general educational subjects.

ELLIS SCHOOL OF ARCHITECTURE

Principal: A. B. Waters, M.B.E., G.M., F.R.I.B.A.,
103 OLD BROMPTON RD., LONDON, S.W.7
and at Albany House, Worcester

You are invited to write for an illustrated

(free) catalogue of

BOOKS on architecture, planning,

and kindred subjects to *The Architectural*

Press, 9-13 Queen Anne's Gate, S.W.1

GUARANTEED EXAMINATION COACHING

for R.I.B.A., R.I.Ch. Surveyors, I. Qty. Surveyors'
, Mun. E., I. Struct. E., etc.

FIRST-CLASS INSTRUCTION COURSES

In all aspects of Architecture, Building, Draughts-
manship, Surveying, Civil, Municipal, Structural
and Sanitary Engineering.

Write for FREE prospectus.

INTERNATIONAL CORRESPONDENCE SCHOOLS,
71 Kingsway, (Dept. CL. 72), London, W.C.2.

ANCHORAGES TO CONCRETE

SPEARPOINT Floor Clips to
anchor wood floors to concrete.
DOVETAIL Masonry Slot and
Anchors to anchor brick and
stone facings to concrete.
ANKORTITE Box Fittings.

ABBAY BUILDING SUPPLIES CO.

26 Glenburnie Road, London, S.W.17
Telephone BALham 4451-4452

MODELS

ESTAB.
1883.

John B. THORP

FOR TOWN PLANNING
PUBLIC BUILDINGS
ESTATES and
INTERIORS

BY
98 GRAY'S INN ROAD,
W.C.
TELEPHONE:
HOLBORN 1011

Sound Second Hand STOCK BRICKS

We have regular supplies of these very versatile Bricks
now accumulating on our demolition sites. All Bricks
are cleaned ready for re-use and are graded into two
categories. Grade 1: Suitable for face work. Grade 2:
Suitable for footings and Garden walls. Prices:
Approximately half the cost of new Bricks. Kindly
write or telephone your enquiries.

JEFF ELBUR LTD.
129 STEPNEY GREEN, LONDON, E.1 STE 3674
After business hours Radlett 5667

FIBROUS PLASTERWORK OF EVERY DESCRIPTION ALLIED GUILDS

King Edward Square
SUTTON COLDFIELD Tel: Sut 3809

TENTEST

CEILING, ROOF & WALL LINING
INSTALLATION SPECIALISTS



Write today for colour card
JOSEPH FREEMAN SONS & Co. Ltd.
Cementone Works, London, S.W.18

The 'number seven' range also includes Interior Flat,
Eggshell and Gloss.



WIRE FENCING

CROGGON & CO. LTD. ESTABLISHED 1835
London • Liverpool • Glasgow • Colnbrook

Croggon

BROAD-ACHESON BLOCKS for unvarying quality

PRODUCTION OF ALL SIZES NOW
CENTRALISED AT GREENWICH WORKS
BROAD & CO. LTD. PADDINGTON, W2.

ARCHITECTURAL — contemporary

APPLIED LETTERS

IN A VARIETY OF METALS
& FINISHES

WARD & COMPANY

128 CHELTENHAM ROAD, BRISTOL 6
TELEPHONE 21536



WHITE FACING BRICKS

(S. P. W. BRAND)

Telephone: BULwell 27-8237 8 9 • Telegrams: "Maclime", Bulwell, Nottingham

M. MCCARTHY & SONS, LTD
BULWELL • NOTTINGHAM

FIRST FOLD HERE

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.

Postage
will be paid
by
Licensee

FOLD HERE

No Postage Stamp
necessary
if posted
in Great Britain or
Northern Ireland

BUSINESS REPLY FOLDER
Licence No. S.W. 1761

THE ARCHITECTS' JOURNAL

9-13 Queen Anne's Gate

London, S.W.1.

FOLD HERE

TUCK IN THIS END

Alphabetical index to advertisers

	PAGE	CODE
Abbey Building Supplies Co., Ltd.	110	0001
Aeme Flooring & Paving Co. (1904), Ltd.	102	0004
Aero Research, Ltd.	36	0010
Aldas Electric, Ltd.	46	0012
Aird Stewart, Ltd.	102	0804
Allied Guilds, The	110	0016
Allied Ironfounders, Ltd.	23	0017
Architectural Press, Ltd.	98, 103, 104, 105, 109	0686
Armstrong Patents Co., Ltd.	90	0679
Associated Lead Manufacturers, Ltd.	78	0034
Association of Vermiculite Exfoliators	47	0707
Austins of East Ham, Ltd.	79	0941
Bakelite, Ltd.	53	0041
Bawn, W. B., & Co., Ltd.	89	0047
Benham & Sons, Ltd.	91	0054
Bigwood, Joshua, & Co., Ltd.	101	0910
Bilston Foundries, Ltd.	24	0614
Booth, John, & Sons (Bolton), Ltd.	44	0070
Bow Slate & Enamel Co., Ltd.	21	0075
Braby, Frederick, & Co., Ltd.	39	0077
Bradford, F., & Co., Ltd.	17	0078
Brandts Williams, Ltd.	100	0080
Briggs, William, & Sons, Ltd.	22	0082
British Lime Manufacturers	101	0094
British Plaster Board (Manufacturing), Ltd.	65	0099
Broad & Co., Ltd.	110	0784
Cellacite & British Uralite, Ltd.	80	0745
Central Electricity Authority	86	0129
College of Estate Management	109	0144
Colt Ventilation, Ltd.	3	0146
Colt Ventilation, Ltd.	30	0720
Corroglaze, Ltd.	7	0907
Costain, Richard, Ltd.	75	0157
Crabtree, J. A., & Co., Ltd.	45	0163
Croggon & Co.	110	0167
Crompton Parkinson, Ltd.	50	0168
Davey, W. C., & Co., Ltd.	92	0831
Dixon's Paints, Ltd.	91	0184
Eastwood Sales, Ltd.	43	0200
Econa Modern Products, Ltd.	105	0201
Elbur, Jeff, Ltd.	110	0757
Ellis School of Architecture	110	0212
English Clock Systems, Ltd.	48	0214
English Electric Co., Ltd.	9	0215
Esavian, Ltd.	81	0216
Evode, Ltd.	5	0658
Falk, Stadelmann & Co., Ltd.	29	0223
Ferodo, Ltd.	70	0229
Fibre Building Board Development Organisation	77	0942

	PAGE	CODE
Fibreglass, Ltd.	51	0230
Firth, T. F., & Sons, Ltd.	55	0943
Fisher Fells, Ltd.	28	0659
Flectella Fencing & Engineering, Ltd.	100	0944
Freeman, Joseph, & Sons, Ltd.	110	0244
French, Thomas, & Sons, Ltd.	12	0246
Furse, W. J., & Co., Ltd.	110	0248
Gent & Co., Ltd.	6	0254
Glazed & Floor Tile Manufacturers Assoc., Ltd.	14	0256
Grundy, John, Ltd.	16	0631
Guest, Keen & Nettlefolds (Midlands), Ltd.	62	0945
Gyproc Products, Ltd.	42	0262
Gypsum Mines, Ltd.	93	0264
Gypsum Plasterboard Development Association, Ltd.	13	0263
Hartley, V. & N., Ltd.	105	0746
Haskins Rolling Shutters	11	0278
Helicol Bar & Engineering Co., Ltd.	15	0283
Hill, Aldam E., & Co., Ltd.	64	0290
Home Fittings (Great Britain), Ltd.	96	0300
Hope, Henry, & Sons, Ltd.	72	0302
I.C.I. (Plastics), Ltd.	10	0309
Ideal Boilers & Radiators, Ltd.	68, 69	0306
International Correspondence Schools	110	0788
Janes, H. C., Ltd.	40	0320
Jones, T. C., & Co., Ltd.	4	0323
Jury Holloware, Ltd.	34	0832
Kenyon, William, & Sons, Ltd.	2	0705
Laing, John, & Son, Ltd.	114	0333
Leaderflush, Ltd.	63	0336
Legal & General Assurance Society, Ltd.	99	0340
Leigh, W. J., Ltd.	18	0341
Limmer & Trinidad Lake Asphalt Co., Ltd.	83	0347
Lion Foundry Co., Ltd.	99	0350
Logical Fuel Storage Units, Ltd.	113	0352
Lyons, J., & Co., Ltd.	89	0842
M.K. Electric, Ltd.	60	0392
McCarthy, M., & Sons, Ltd.	100	0361
Mallinson, William, & Sons, Ltd.	74	0367
Manger, J., & Sons, Ltd.	92	0369
Marley Concrete, Ltd.	108	0370
Mellor Bromley, Ltd.	95	0378
Merchant Adventurers, Ltd.	73	0379
Midland Silicones, Ltd.	33	0852
Montgomerie Stobo & Co., Ltd.	35	0396
Morris Rubber Industries, Ltd.	87	0398

	PAGE	CODE
Nestler Slide Rules	103	0882
Newalls Insulation Co., Ltd.	56	0409
Newman, William, & Sons, Ltd.	8	0411
Newsom, H., Sons & Co., Ltd.	76	0412
Nu-Swift, Ltd.	38	0419
Obo Construction Co., Ltd.	97	0429
Panelec (Great Britain), Ltd.	96	0424
Philips Electrical, Ltd.	82	0946
Phoenix Timber Co., Ltd.	41	0934
Pierhead, Ltd.	84	0438
Potter, F. W., & Soar, Ltd.	102	0443
Pilkington Brothers, Ltd.	67	0821
R.I.W. Protective Products Co., Ltd.	97	0847
Rapid Floor Co., Ltd.	19	0459
Rawlings Bros., Ltd.	94	0469
Riley (I.C.) Products, Ltd.	20, 21	0469
Rists Wires & Cables, Ltd.	2	0471
Ryjack Products, Ltd.	37	0482
Salter, T. E., Ltd.	87	0486
Saniguard Appliances, Ltd.	95	0491
Saro Laminated Wood Products, Ltd.	94	0494
Scemco	105	0671
Seomastic, Ltd.	110	0501
Smith, Thomas, & Son, Ltd.	54	0521
Sommerfelds, Ltd.	85	0523
Stelcon (Industrial Floors), Ltd.	31	0521
Stella Building Products, Ltd.	66	0532
Storry, Witty & Co., Ltd.	88	0917
Stott, James, Ltd.	71	0535
Sugg, William, & Co., Ltd.	26	0537
Sulzer Bros. (London), Ltd.	52	0538
Surfex Flooring Co., Ltd.	93	0742
Templewood Hawksley	98	0892
Tentest Fibre Board Co., Ltd.	110	0545
Thermacoust, Ltd.	103	0547
Thorn, J., & Sons, Ltd.	61	0559
Thorp, John B.	110	0559
Tomo Trading Co., Ltd.	59	0653
Trussed Concrete Steel Co., Ltd.	49	0855
Venesta, Ltd.	88	0811
Vulcanite, Ltd.	90	0585
Walpamur Co., Ltd.	32	0584
Ward & Co.	110	0589
Wednesbury Tube Co., Ltd.	25	0599
Wheatly & Co., Ltd.	27	0600
Wood Fibre Wallboard Co.	86	0606
Zinc Alloy Rustproofing Co., Ltd.	113	0610

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Education, Legal Notices, Miscellaneous, Property and Land Sales, see 106, 107, 108, 109, 110.

Write in block letters, or type, your name, profession and address below, and fold so that the post-paid address is on the outside.

NAME _____
 PROFESSION _____
 ADDRESS _____

CODE
☐ 0882
☐ 0400
☐ 0411
☐ 0412
☐ 0419

☐ 0420

☐ 0424
☐ 0946
☐ 0934
☐ 0438
☐ 0443
☐ 0821

☐ 0847
☐ 0459
☐ 0460
☐ 0469
☐ 0471
☐ 0482

☐ 0488
☐ 0491

☐ 0494
☐ 0671
☐ 0501
☐ 0521
☐ 0529
☐ 0531
☐ 0532
☐ 0917
☐ 0535
☐ 0537
☐ 0539
☐ 0742

☐ 0892
☐ 0545
☐ 0547
☐ 0550
☐ 0552
☐ 0653
☐ 0855

☐ 0811
☐ 0585

☐ 0588
☐ 0589
☐ 0599
☐ 0600
☐ 0606

☐ 0610

940
941
942
943
944

945

946

947

948

949

950

951

952

953

954

955

956

957

958

959

960

961

962

963

964

965

966

967

968

969

970

971

972

973

974

975

976

977

978

979

980

981

982

983

984

985

986

987

988

989

990

991

992

993

994

995

996

997

998

999

1000

1001

1002

1003

1004

1005

1006

1007

1008

1009

1010

1011

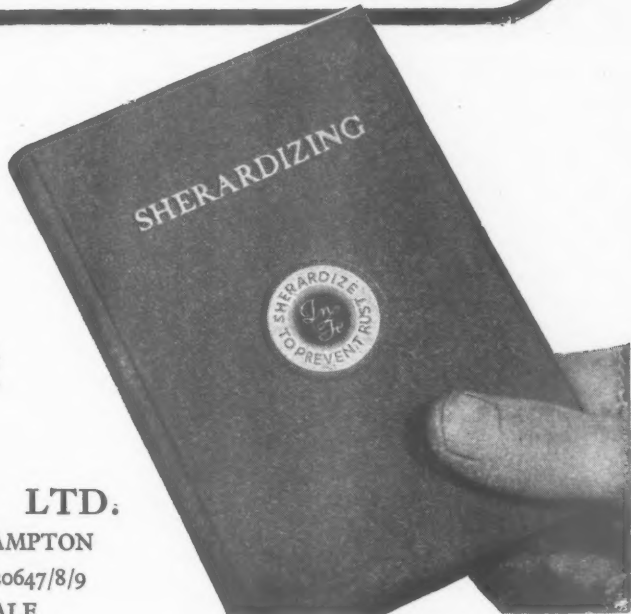
1012

1013

1014

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?



SHERARDIZING

**ZINC ALLOY
RUST-PROOFING CO. LTD.**
SHAKESPEARE STREET, WOLVERHAMPTON
TELEPHONE: WOLVERHAMPTON 20647/8/9
ALSO AT LONDON & ROCHDALE



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

LOGICOL
PATENTED



Write for illustrated folder
and full details to:-

Telephone :
HUDDERSFIELD 174/4174

LOGICOL FUEL STORAGE UNITS · TAVU WORKS · WATERLOO · HUDDERSFIELD

Build faster with **LAINGWALL**

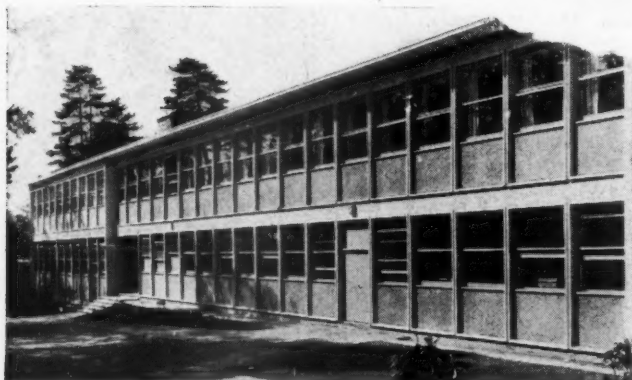
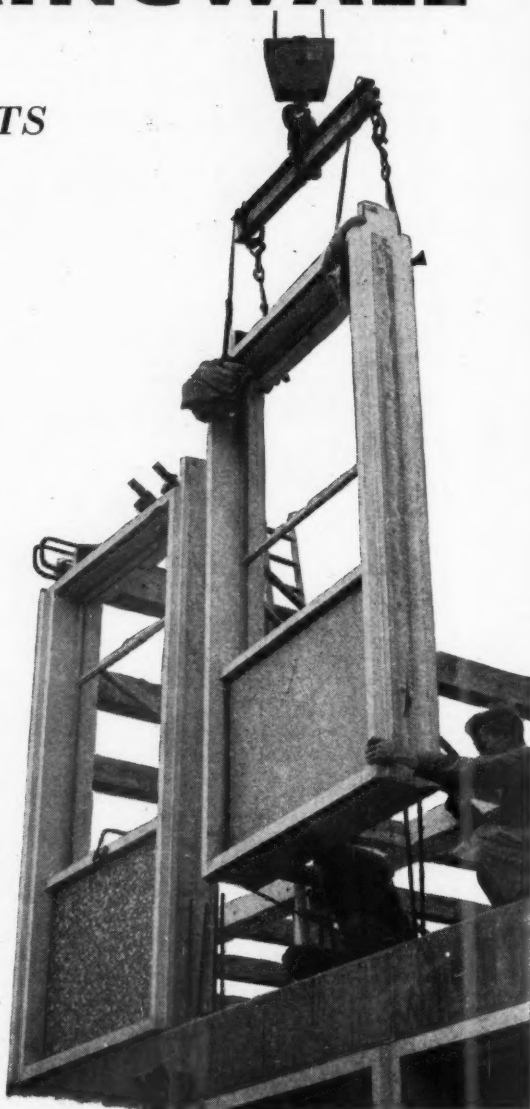
A SERVICE TO ARCHITECTS

Many architects called on to design industrial and other specialised buildings—often in regular succession, and always wanted urgently—have long felt the need for a system of permanent construction making full use of mechanical aids, embodying some degree of prefabrication, yet retaining adequate flexibility in design.

The LAINGWALL system of building has been expressly evolved by the Development Division of John Laing and Son Limited to meet this need. Key feature of the system—already employed on a number of projects throughout Britain—is its use of precast, storey-height wall units of modular widths (embodying cladding panel and window frame) lifted into place by mechanical means.

Construction is thus mainly 'dry', effecting important savings in time and skilled labour on site, and a high standard of quality control of concrete casting and finishing is ensured under factory supervision. Standard precast wall units can be supplied from stock or cast to architects' specifications, and there is a variety of external and internal finishes.

The LAINGWALL system is available to architects for incorporation within their own designs. It is the result of years of research, backed by extensive experience of modern construction materials, new construction techniques and practical knowledge of building cost economies. The LAINGWALL system is offered as a service to architects—assuring them and their clients of an early start, continuous progress on site and speedy completion.



LAING

JOHN LAING AND SON LIMITED

*Building and
Civil Engineering Contractors*

GREAT BRITAIN • CANADA
UNION OF SOUTH AFRICA • RHODESIA

