

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

Criticism

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. 3435]

[Vol. 133

THE ARCHITECTURAL PRESS

9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1. Telephone: Whitehall 0611

Price 1s. 0d.

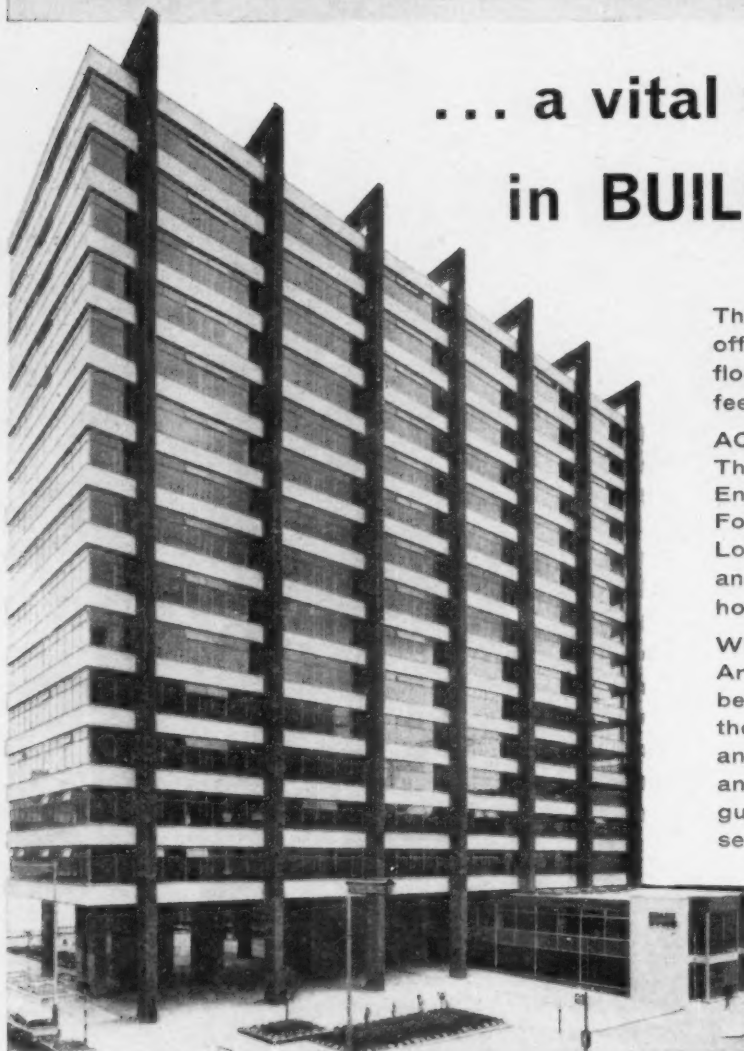
Registered as a Newspaper

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

ILA	Institute of Landscape Architects. 1, Park Crescent, W.1.	Museum 3473
I of Arb	Institute of Arbitrators. Hastings House, 10, Norfolk Street, W.C.2.	Temple Bar 4071
IOB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 7197
IOS	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. 68, Gloucester Place, W.1.	Hunter 1945
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.	Sloane 7128
JFRO	Joint Fire Research Organisation (DSIR & Fire Offices' Committee), Fire Research Station, Boreham Wood, Herts.	Elstree 1341/1797
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
MAFF	Ministry of Agriculture, Fisheries and Food. Whitehall Place, S.W.1.	Trafalgar 7711
MOE	Ministry of Education. Curzon Street House, W.1.	Hyde Park 7070
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's Square, S.W.1.	Whitehall 6290
MOS	Ministry of Supply. Shell-Mex House, W.C.2.	Gerrard 6933
MOT	Ministry of Transport, Berkeley Square House, W.1.	Mayfair 9494
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine Owners and Manufacturers Council. 14, Howick Place, Victoria Street, S.W.1.	Victoria 1600 & 6477
NAS	National Association of Shopfitters. 2, Caxton Street, S.W.1.	Abbey 4813
NBR	National Buildings Record. 31, Chester Terrace, 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 4459
NFHS	National Federation of Housing Societies. 12, Suffolk St., S.W.1.	Whitehall 1631
NHBRC	National House Builders Registration Council. 58, Portland Place, W.1.	Langham 0064/5
NPL	National Physical Laboratory. Head Office, Teddington. Teddington Lock 3222	
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. 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
RIB	Rural Industries Bureau. 35, Camp Road, S.W.19.	Wimbledon 5101
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Langham 5533
RICS	Royal Institution of Chartered Surveyors. 12, Great George Street, S.W.1.	Whitehall 5322/9245
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
SBPM	Society of British Paint Manufacturers. Grosvenor Gardens House, Grosvenor Gardens, S.W.1.	Victoria 2186
SE	Society of Engineers. Abbey House, Victoria Street, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association. 30, Cornhill, E.C.3.	Mansion House 3921
SIA	Society of Industrial Artists. 7, Woburn Square, 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

ACMEFLOORING

... a vital factor
in **BUILDING TODAY!**



The new State House block of modern offices in High Holborn has ACME flooring throughout its 225,000 square feet of floor space.

ACME'S many other contracts include The House of Commons, The Bank of England, Marks and Spencers Ltd., Ford Motor Co. Ltd., London Guildhall, London County Hall, City Livery Club and hundreds of Britain's leading houses.

When planning new buildings to-day, Architects look to ACME for flooring because they know it is the finest in the world—long-lasting, hard-wearing and requiring the minimum of maintenance. And it's backed by the ACME guarantee and a technical advisory service that is second to none.

Architects:
Trehearne & Norman Preston & Partners.

ACME SOLVES ALL YOUR FLOORING PROBLEMS

IMMOVABLE ACME HARDWOOD FLOORS

ACMEPAVING FACTORY FLOORS

ACMETYLE SOLID P.V.C. TILES & SHEET

ACMELYNO LINOLEUM

ACMECORK TILES

ACMETRED RUBBER FLOORING

ACMEPYLE FITTED CARPETS

ACME FLOOR RENOVATION SERVICE

Please write for full details and Technical Brochures to:

ACMEFLOORING

ACME FLOORING & PAVING CO. (1904) LIMITED, RIVER ROAD, BARKING, ESSEX

Flooring Specialists for 100 years

Rippleway 2771 (P.B.X.)



Problem:

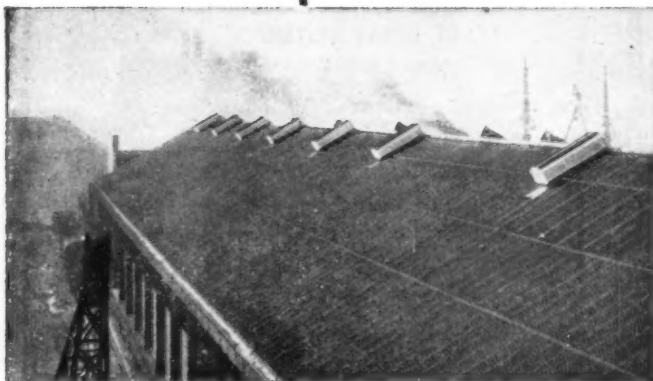
FUMES

Solution:

COLT Ventilation

Place:

ARTHUR GUINNESS SON & CO
Pomona Docks, Manchester Region.



Exhaust gases from fork lift trucks and lorries were once a major problem in this storage shed. Colt experts were called in to make a scientific analysis and on their recommendation a series of Colt S.R.C./3080 High Duty Extract Ventilators was installed. Fumes no longer bother anyone.

In providing a permanent solution to this ventilation problem Colt have added yet another chapter to their record of success—success which has brought repeat orders from many world-famous concerns.

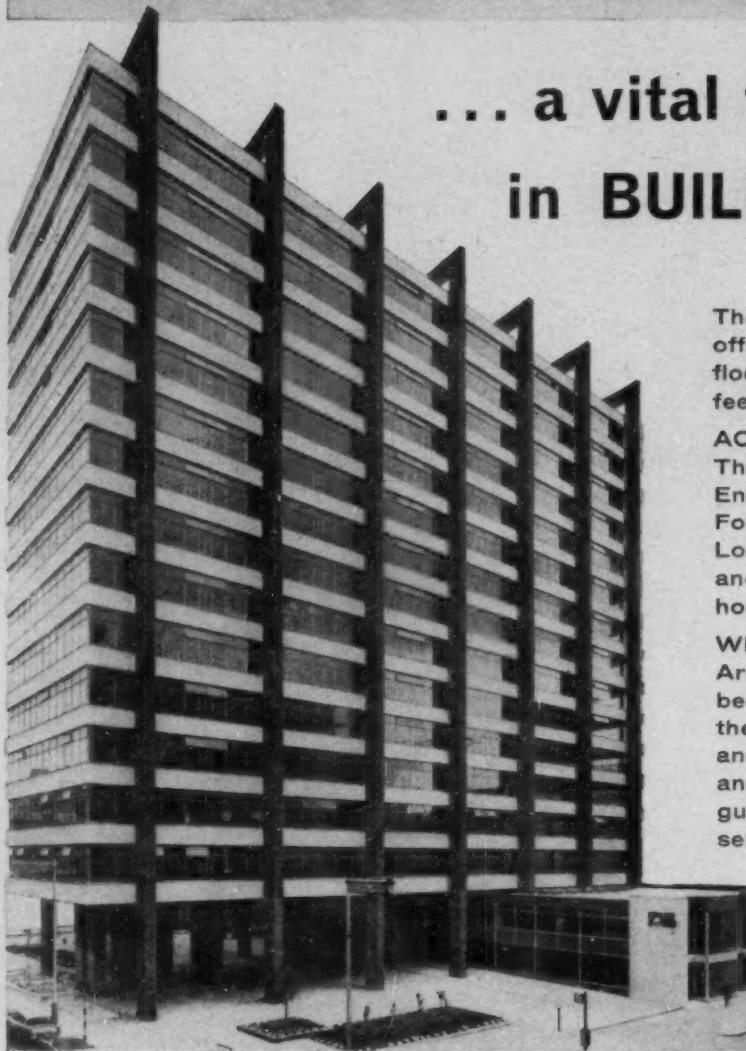
Ask your secretary to send for a free manual to Dept. 38

COLT VENTILATION LIMITED SURBITON SURREY TELEPHONE: ELMBRIDGE 0161



ACMEFLOORING

... a vital factor
in BUILDING TODAY!



The new State House block of modern offices in High Holborn has ACME flooring throughout its 225,000 square feet of floor space.

ACME'S many other contracts include The House of Commons, The Bank of England, Marks and Spencers Ltd., Ford Motor Co. Ltd., London Guildhall, London County Hall, City Livery Club and hundreds of Britain's leading houses.

When planning new buildings to-day, Architects look to ACME for flooring because they know it is the finest in the world—long-lasting, hard-wearing and requiring the minimum of maintenance. And it's backed by the ACME guarantee and a technical advisory service that is second to none.

Architects:
Trehearne & Norman Preston & Partners.

ACME SOLVES ALL YOUR FLOORING PROBLEMS

IMMOVABLE ACME HARDWOOD FLOORS

ACMEPAVING FACTORY FLOORS

ACMETYLE SOLID P.V.C. TILES & SHEET

ACMELYNO LINOLEUM

ACMECORK TILES

ACMETRED RUBBER FLOORING

ACMEPYLE FITTED CARPETS

ACME FLOOR RENOVATION SERVICE

Please write for full details and Technical Brochures to:

ACMEFLOORING

ACME FLOORING & PAVING CO. (1904) LIMITED, RIVER ROAD, BARKING, ESSEX

Flooring Specialists for 100 years

Rippleway 2771 (P.B.X.)



Problem:

FUMES

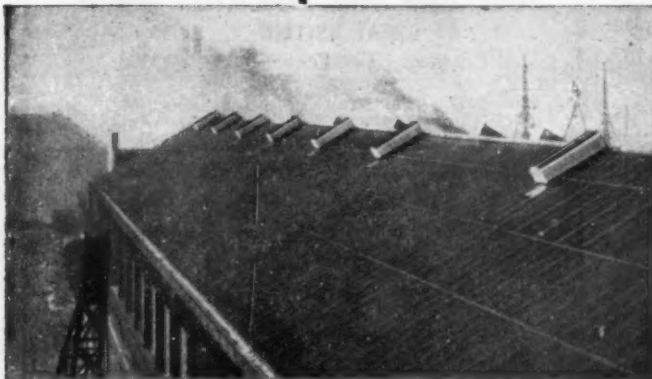
Solution:



Ventilation

Place:

**ARTHUR GUINNESS SON & CO
Pomona Docks, Manchester Region.**



Exhaust gases from fork lift trucks and lorries were once a major problem in this storage shed. Colt experts were called in to make a scientific analysis and on their recommendation a series of Colt S.R.C./3080 High Duty Extract Ventilators was installed. Fumes no longer bother anyone.

In providing a permanent solution to this ventilation problem Colt have added yet another chapter to their record of success—success which has brought repeat orders from many world-famous concerns.

Ask your secretary to send for a free manual to Dept. '38



COLT VENTILATION LIMITED SURBITON SURREY TELEPHONE: ELMBRIDGE 0161



When invert levels are the problem

Pitch fibre pipes are often the answer. Why? Because pitch fibre pipes have a smooth inner bore and close concentric joints. There's nothing to obstruct the flow of liquid. So you can plan for flatter gradients—knowing your material will not vary, because all pitch fibre pipes conform to British Standard 2760/56. This is only one of the advantages you get with pitch fibre pipes. The full story is told in the manual 'Pitch Fibre Pipes'. A special section is devoted to Hydraulic Flow Capacity. Write for your free copy now.

Pitch Fibre Pipes

ISSUED BY THE PITCH FIBRE PIPE ASSOCIATION OF GREAT BRITAIN

27 Chancery Lane, London WC2. Telephone: CHANCERY 6001

THE KEY ENGINEERING CO LTD · TEMPLE TUBES LTD · UNION FIBRE PIPES (GREAT BRITAIN) LTD · FLEXPIPE LTD

TGA P46

PITCH FIBRE PIPE ASSOCIATION OF GREAT BRITAIN

27 Chancery Lane, London WC2

Please send me your manual 'Pitch Fibre Pipes'.

NAME

POSITION

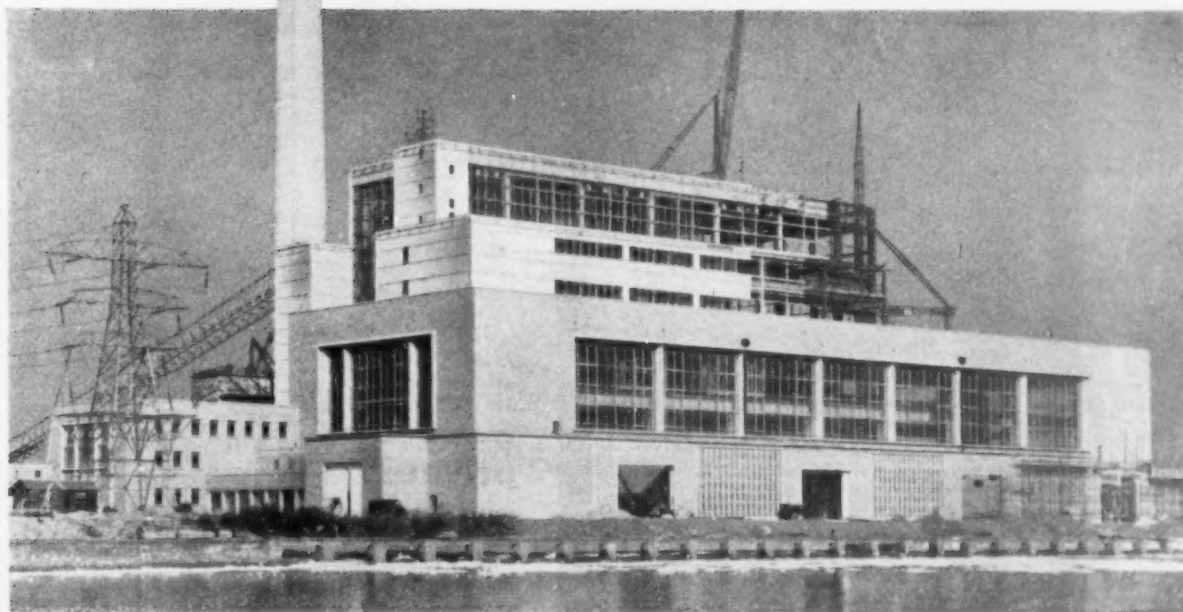
ORGANISATION

ADDRESS

A16



POWER PLUS



STAYTHORPE 'B' POWER STATION

For: Central Electricity Generating Board, Midlands Group.

Consultant Architects

Cecil Howitt & Partners, D.S.O., O.B.E.,
St. Andrews House, [F.R.I.B.A.,
Mansfield Road,
Nottingham.

Consulting Engineers & Contractors

Messrs. Balfour Beatty & Co. Ltd.

Acknowledgements to

Chief Project Engineer,
Mr. R. R. Maddock, B. Eng., A.M.I.E.E., A.M.I.
[Mech. E.,
C. E. G. B. Midland Project Group.

With the aid of **FEBSPEED PLUS CEMENT FROSTPROOFER** bricklaying work proceeded on this contract throughout the 1958/59 winter. During the months of January and February, work continued with frequent cycles of freezing and thawing occurring, the lowest recorded working temperature being 28°F., falling at night to 17°F.

IT SAVES TO USE

FEBSPEED PLUS

THE PLASTICISING FROSTPROOFER



(GREAT BRITAIN) LTD.

DHB/7703

102 Kensington High Street, London, W.8.
WESTern 0444

Albany Road, Chorlton-cum-Hardy, Manchester, 21.
CHOrlton 1063

from

LEISURE

a self-contained

SHOWER CUBICLE

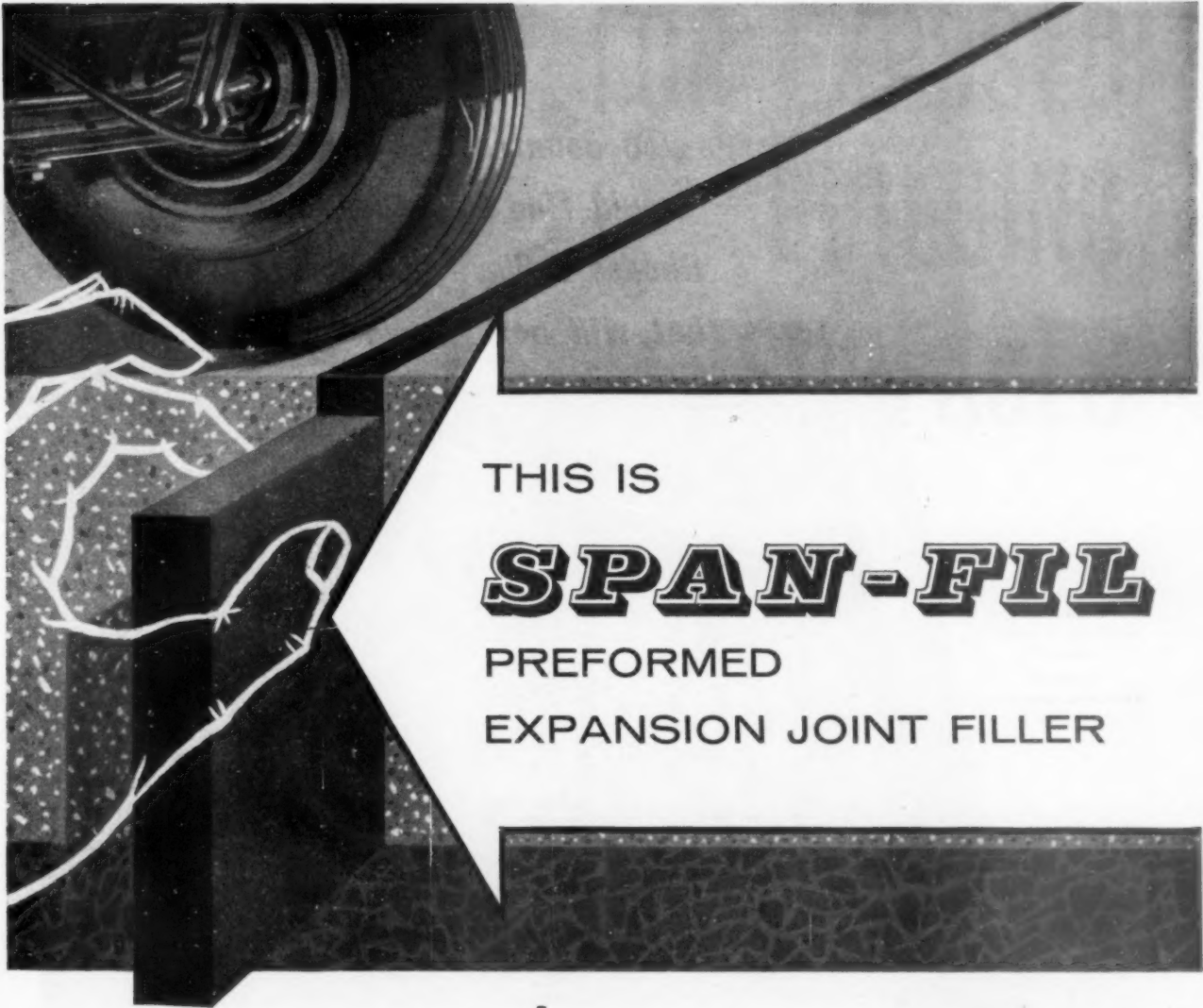


**a space-saving
private bathroom
within the reach of
all your clients!**

The Leisure Shower Cubicle has been designed to stand anywhere without structural alterations of any kind. It is particularly useful in flatlets, where space is so precious. What does the Leisure Shower Cubicle offer? An attractive shower curtain seals off the gleaming white and black enamel interior from the outside room. The spotlight glass panel, set into the roof, provides plenty of light. A twist of the anti-scald mixer tap gives instant hot or cold showers. The chrome flexible pipe can be transferred to the washbasin, which together with the mirror and glass holder is an optional accessory. The Leisure Shower Cubicle is soundly constructed in pressed steel, and is easy to install. Prices have been kept to a minimum so that all can benefit from this unique piece of home equipment. Display the Shower Cubicle prominently in your showroom—and get set for brisk sales this summer!

PRICES FROM £43.4.6 (undrilled)
TO £58.3.3 (complete with all accessories)

THE LEISURE SHOWER CUBICLE IS MADE BY LEISURE KITCHEN EQUIPMENT LTD
NOTTINGHAM ROAD · LONG EATON · N^r NOTTINGHAM · A DIVISION OF  ALLIED IRONFOUNDERS



THIS IS

SPAN-FIL

PREFORMED

EXPANSION JOINT FILLER

- * Thicknesses up to 1"
- * Does not extrude—recovers after compression
- * For roads, runways, floors or walls
- * In over 200 different sizes from 4ft x 2" x $\frac{3}{8}$ " up to 10ft x 48" x 1"

Due to its scientifically designed construction SPAN-FIL can be placed in position and the concrete then cast directly up against it without distortion. Special shuttering to protect the material is thus eliminated.

SPAN-FIL is unaffected by road or runway grades of sealing compounds and conforms to Air Ministry Specification 201/58 Part III Clause 606.

Every expansion joint needs SPAN-FIL

EVOMASTIC

AN ASSOCIATE COMPANY OF **EVODE** OF STAFFORD

* **SEND FOR LITERATURE EVOMASTICS LTD., STAFFORD. Telephone: 2241 (8 lines)**

London Office: 82 VICTORIA STREET, S.W.1 Telephone: ABBey 4622 (3 lines)

if

**you counted these windows you
would find that there are 752
Rhodes Pulleys and Safety Sash Chains
that will never need renewal**

Architects:
T. P. H. & E. Braddock,
F./A.R.I.B.A., M.I. Struct. E.,
London, S.W.1.

Contractors:
Token Construction Co. Ltd.,
London, W.1.



The beauty of the traditional double-hung sash is once again a focal point in many of the new designs from leading architects . . . beauty and service go together when they specify Rhodes Chains and Pulleys.

Once fitted, Rhodes Safety Sash Chains provide a smooth-running lifetime of service. No broken sash cords, with possible injury from falling sashes or damage to window frames caused by frequent removal of beadings for replacement purposes.

Unaffected by climatic conditions, Rhodes Chains and Pulleys, fitted more than 50 years ago, are still giving service throughout the world.

Rhodes Sleeve Bearing Pulleys and Rustproofed Steel Sash Chain were specified for 13/15 Portland Place and 10 Duchess Street, W.1, illustrated above.



Rhodes No. 644 patent
Sleeve Bearing Pulley
with No. 44 Sash Chain.

Write today for fully illustrated literature on Rhodes Pulleys and Sash Chains

RHODES CHAINS LIMITED

CARLISLE HOUSE, 8 SOUTHAMPTON ROW, LONDON, W.C.1

Telephone: CHAncery 9377

Telegrams: 'Rhodespaca', Norphone, London.

FOR EXPOSED BUILDING SURFACES



The Palace Hotel - Southend Painting Contractors: Ernie Bayliss Ltd., London, S.W.1.

**Direct application
to new Concrete,
Cement Renderings,
Asbestos Cement,
Brick, etc.**

Tretolin Paint

The Palace at Southend-on-Sea, Essex, has been a landmark for generations of Londoners - and seafarers of all nations - standing as it does high above the Thames Estuary, the gateway to the World's greatest Port. When it was decided to give the Old Palace a new look, Tretolin was used - a wise choice for any building, especially in exposed coastal regions or industrial environments. Developed specifically for DIRECT use on new and old concrete, renderings and asbestos cement - Tretolin lasts years longer, cutting maintenance costs to a minimum. Send now for details, attractive colour range and specifications.

TRETOL LTD., Head Office: TRETOL HOUSE, THE HYDE, LONDON, N.W.9. Telephone: Colindale 7223

Associated Company: Tretol (Scotland) Ltd., 65 Renfield Street, Glasgow, C.2. Telephone: Douglas 6133

Architect's THREE-WAY TEST proves effectiveness of

SPOSS FLOOR SEAL

A practising London Architect wrote to us:—

- 1 "I have treated two small lino-tile floors with the Floor Seal and Polish. Now that they have been in use for nearly two months I am glad to be able to report that the results are far better than from any other materials I have used before and will have no hesitation in specifying their use where similar finishes are required."
- 2 "Similar treatment was given to quarry tiles, with very good results, so good that I intend to recommend the treatment as a finish to such floors in future."
- 3 "I have used the Floor Seal on untreated Oak and completed the treatment with Floor Dressing, with really fine results. In fact from my tests on various materials, it does appear that the combination of these two materials gives uniformly excellent results."

THESE AND MANY OTHER FAMOUS NAMES USE SPOSS FLOOR PRODUCTS

Royal Institute of British Architects,	Glamorgan C.C.,
George Wimpey & Co. Ltd.,	Lanark C.C.,
Limmer and Trinidad Lake Asphalt Co. Ltd.,	Ministry of Works,
Rowan & Boden Ltd.,	Ministry of Supply,
	The Royal Navy,
	The Royal Air Force.

SPOSS PRODUCTS INCLUDE:

Sposs Floor Seal, Sposs Non-Slip Floor Dressings, Sposs Gymnasium Seal, Sposs Wax Clean, Sposs Dri-Bright Resin Wax Emulsion, Octim Cleaner etc.



MORE INFORMATION?

New floors should be treated immediately with SPOSS Floor Seal to preserve, protect and enhance their appearance.

ECONOMICAL: Sposs Floor Seal provides exceptionally good coverages. One gallon will seal 150-200 sq. yds. When comparing the price of different Floor Seals this is a very important factor.

PERMANENCE: Once a floor has been sealed with Sposs it is protected throughout its life. Subsequent maintenance with Sposs Floor Dressing is all that is required—further applications of seal are quite unnecessary.

PENETRATION: The Seal penetrates the surface and combines with the top fibres of the floor, forming a hard, waterproof skin which protects and preserves porous surfaces.

FINISH: Although not in itself a polish, Sposs Floor Seal will dry with a pleasing gloss. An application of Sposs Floor Dressing will combine with the Seal to produce a brilliant, non-slip and easily cleaned surface.

SPECIAL PROPERTIES: Sposs Floor Seal is quick-drying (four to six hours, or less, according to weather). It is available in Light Oak, Dark Oak, Red and Natural colours. Can be used to revive old floors with an open grain.

TO SPOSS PRODUCTS LTD 10 SOVEREIGN STREET LEEDS 1
Please send full details of SPOSS Floor Seal

NAME _____

ADDRESS _____

A.J./16/2/61

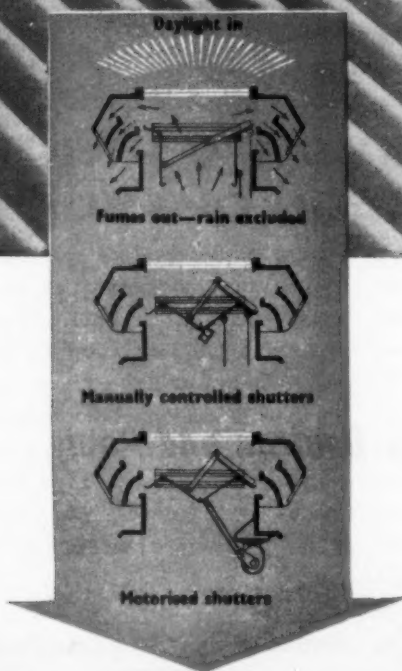
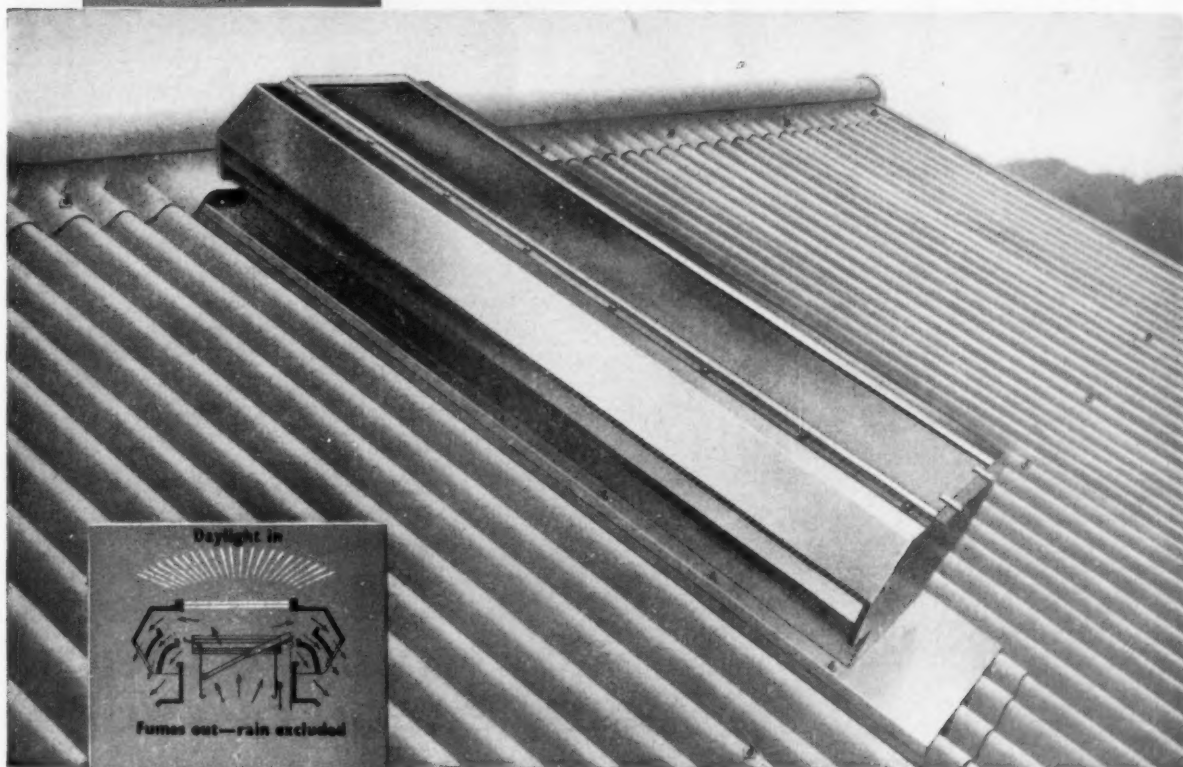
made by **SPOSS** the first name in specialised floor maintenance products

CONSULTANTS TO ARCHITECTS, THE BUILDING TRADE & COMMERCE.

NEW!

WITH GREENWOOD-AIRVAC'S
GLAZED TOP
ROOFLINE EXTRACTOR

Ventilation plus *extra* daylight



Greenwood-Airvac's new Glazed Top Roofline gives you natural lighting and natural ventilation—permanent or controllable—in one good looking unit. It is suitable for both flat and sloping roofs.

It removes fumes and vitiated air by efficient stack action through a large fully weathered free ventilation area. Well made in hardened aluminium, the Roofline is light in weight and only 14½" high. Where control shutters are fitted to conserve heat, they are made of fibreglass.

The Glazed Top Roofline is fully patented and is the latest addition to the well proved Greenwood-Airvac range.

Write today for the new
technical leaflet RE3/1



Greenwood Airvac ventilation

GREENWOOD'S AND AIRVAC VENTILATING COMPANY LTD

ESTABLISHED 1879.

PATENTEES, DESIGNERS AND MANUFACTURERS OF
NATURAL AND MECHANICAL VENTILATING
EQUIPMENT.



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



Joinery

by Boulton and Paul

High Quality Standard Joinery obtainable in a wide range of types and sizes. Manufactured from selected timber, with heads and cills out of the solid. First-class workmanship throughout. External Joinery treated with 100% lead priming paint carefully applied by brush. Write for a copy of the latest illustrated Catalogue or ask our local Representative to call.

Boulton and Paul Limited NORWICH LONDON BIRMINGHAM

J49



BOLT-FIXINGS BEFORE YOU POUR—NO HOLES TO BORE!

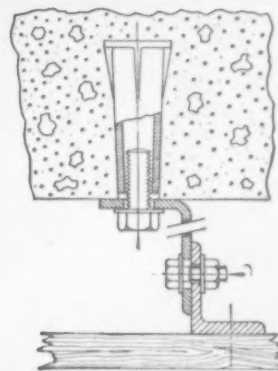
When bolt-fixings are required in concrete, and their location is known before the pour, Rawlplug Cement-in-Sockets will save you a great deal of time and trouble. The Cement-in-Sockets are attached to the inner face of the shuttering prior to pouring. When the concrete has hardened, the shuttering is struck leaving the Cement-in-Sockets in predetermined positions.

KEYED FOR STRENGTH

Rawlplug Cement-in-Sockets are made

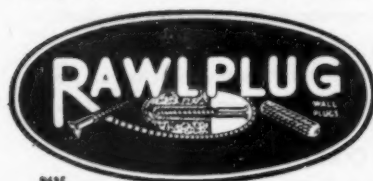
of malleable iron and shaped with four side fins and flanged base to ensure a strong permanent fixing. The key thus provided is so efficient that the strength of the fixing is determined by the strength of the concrete itself! Rawlplug Cement-in-Sockets are available for Whitworth bolts or set screws diameters from $\frac{1}{4}$ " to 1".

Write now for full details of Rawlplug Cement-in-Sockets. Advice as to their application to your special needs gladly given without obligation on your part.



SOME IMPORTANT USES FOR RAWLPLUG CEMENT-IN-SOCKETS

- when moulding post or pre-tensioned concrete members.
- when pouring floors to which false ceilings are to be fixed.
- for providing ready-made bolt-fixings for partitions, pipe runs, ventilating ducts, heating units, handrails, cable racks, etc., when constructing lift shafts, stairways, bridges, tunnels, sea walls, etc.



CEMENT-IN-SOCKETS

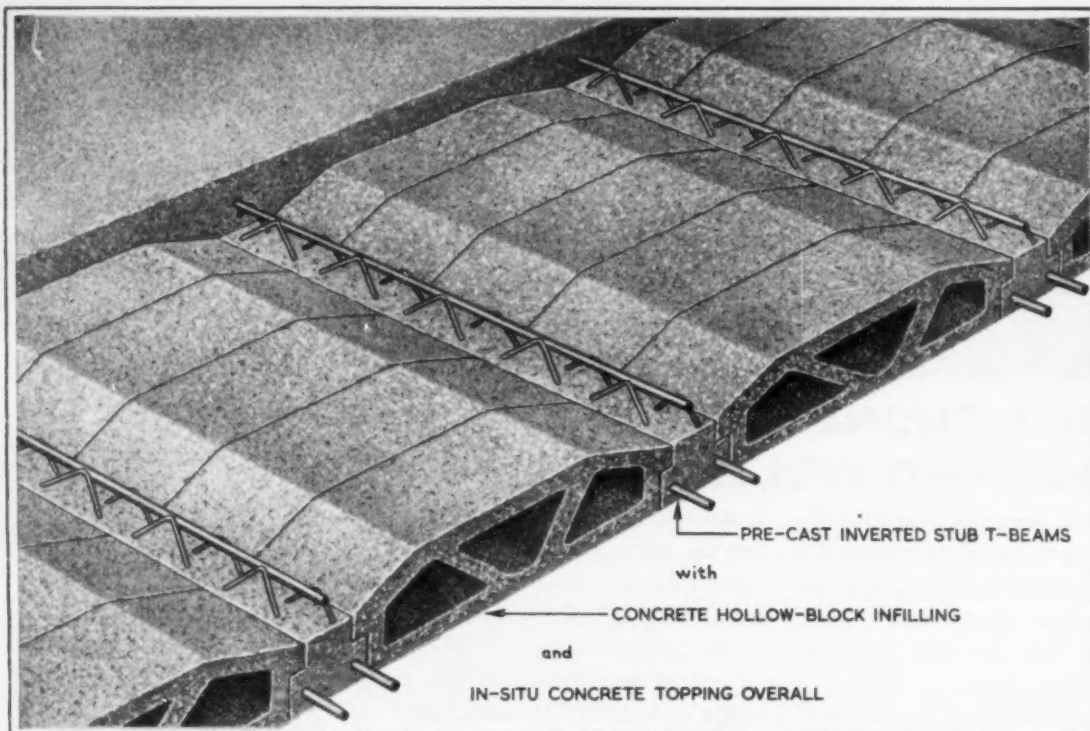
one of the 23 different types of Rawlplug Fixing Devices for speed and strength

THE RAWLPLUG CO LTD · CROMWELL ROAD · LONDON SW7

THE TRIAD

FLOOR

of light weight, simply and quickly erected,
and combining the best features of
in-situ and pre-cast concrete construction



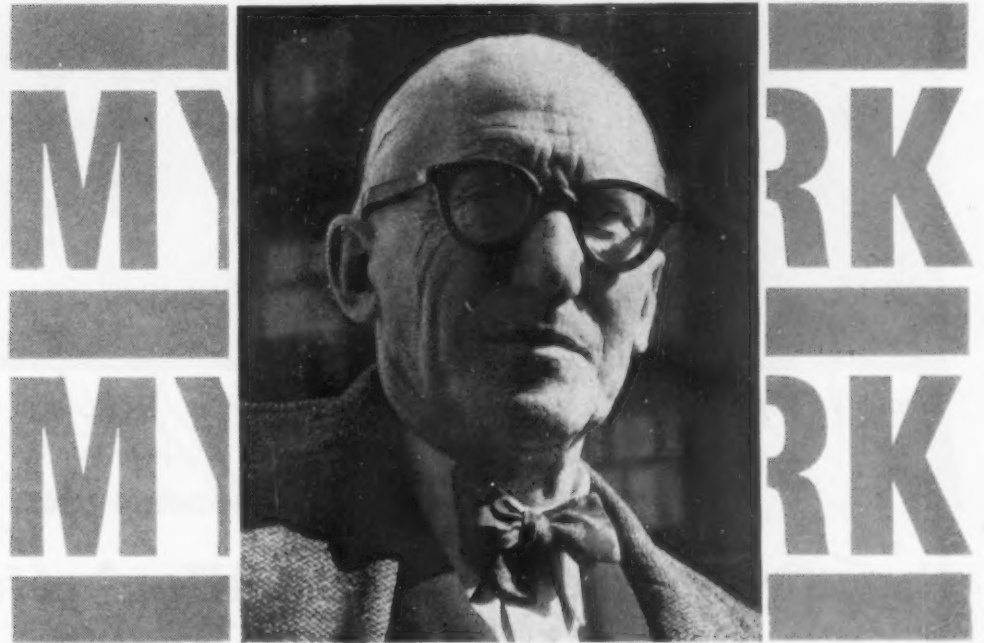
ADVANTAGES:

1. No shuttering; minimum of temporary propping; ample room below for following trades.
2. The in-situ concrete topping ensures a more homogeneous slab than one composed solely of pre-cast units, better able to distribute imposed loading, and so avoiding the possibility of cracking in floor and ceiling finishes due to differential deflection in individual units.
3. A slight increase in the thickness of concrete topping provides for embedding conduits, etc., without the addition of a separate screeding for that specific purpose.
4. The uniform concrete soffit provides an ideal key for plaster.
5. If required, T-beams and hollow-blocks can be supplied for erection by the General Contractor.

Fully detailed literature forwarded on request: **THE KLEINE COMPANY LIMITED,**
9-13 GEORGE STREET, MANCHESTER SQUARE, LONDON, W.1 :: Telephone: Welbeck 9131

his most important book since Towards a New Architecture

MY WORK



MY WORK

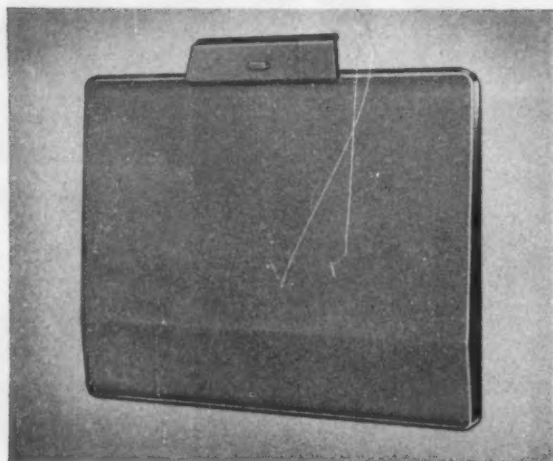
Le Corbusier

The record of a life's work—architecture, painting and sculpture—**written, illustrated,** and **designed,** by the world's most eminent and controversial architect. 84s.

Just Published

The Architectural Press, 9-13 Queen Anne's Gate, S.W.1.

A new face on a well known product...



Neater in appearance.

Smooth, easy action.

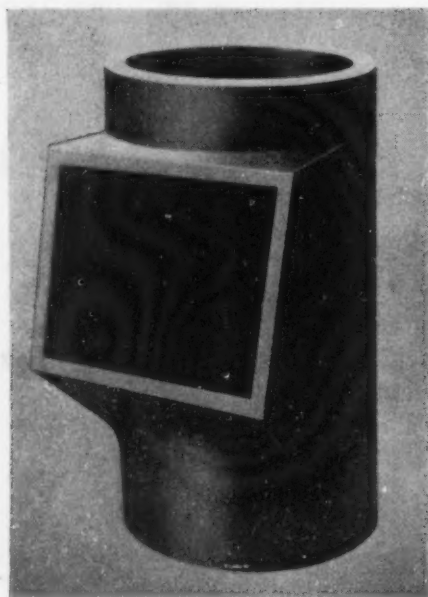
Reduces operational noise.

Seal designed to make Hopper odour-proof.

A HOPPER DESIGNED ON MODERN LINES

New development on 'multiflor' refuse chute

Patent No. 680132

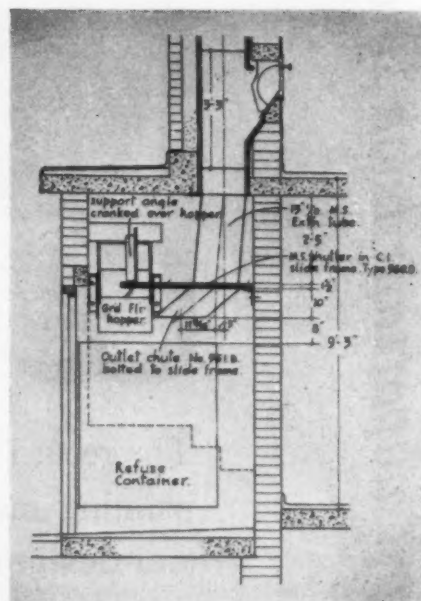


Inlet Unit on 18 inches diameter.

In accordance with the recommendations of the B.S.I. committee we are now in a position to supply the Multiflor Disposal System in 18 inches diameter.

All components can be supplied to suit individual requirements and the Technical Service associated with the Multiflor Disposal System is available to all specifying Authorities.

No. 572 Taper Unit is available for use where 15" and 18" diameters are to be combined.



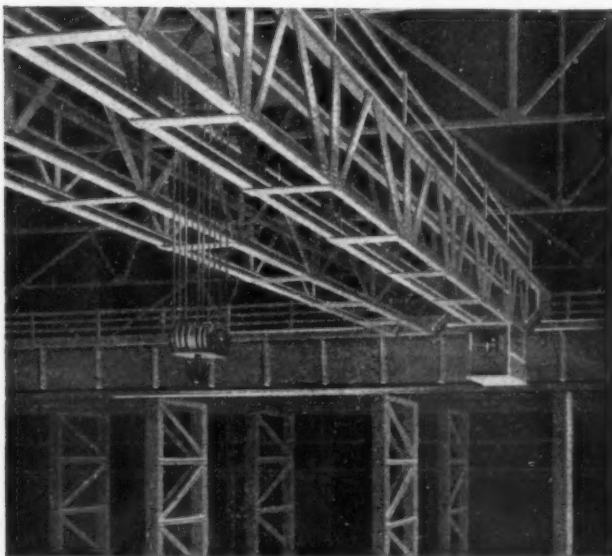
BROADS

MANUFACTURING CO. LTD.

4, SOUTH WHARF, PADDINGTON, LONDON, W.2

Telephone: PADddington 7061 (20 lines)

Anti-Corrosive measures ?



Sometimes, iron and steelwork can be protected against corrosion before it is erected. At other times it is necessary to carry out this work in situ. Either way, the most effective and simplest measure is the use of METAGALV, Expandite's cold-galvanising process applied by brush. It may be used either as a primer or as a self-finish.

In addition, EXPAFLEX Chlorinated Rubber Coating (available in twenty colours), and GEWI* all-purpose protecta-tape, for protecting pipes, steelwork and machinery, are two other invaluable aids in the battle against rust.

Contact Expandite Limited, manufacturers of sealing and jointing compounds, on all matters relating to corrosion. We offer practical solutions in the form of effective products and sound advice (given without obligation) on anti-corrosive treatments, based on our many years of experience in this field.

*GEWI—manufactured under exclusive licence to
N. V. Technische Handelssonderneming J. V. Meijer-Soest, Holland.

**EXPANDITE
LIMITED**

CHASE ROAD, LONDON, N.W.10 Telephone: ELGar 1551 (10 lines) Telex: 25420

Trafford Park Road, Manchester, 17 Telephone: Trafford Park 1285/6

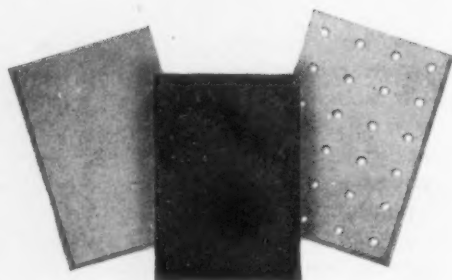
36 Great North Road, Newcastle-upon-Tyne, 2 Telephone: Newcastle 23992

Eire: EXPANDITE (IRELAND) LTD. Greenhills Road, Walkinstown, Dublin Telephone: 501512

ASSOCIATES AND DISTRIBUTORS THROUGHOUT THE WORLD



are you familiar
with
PANDA
?



Whether you already know **PANDA** or are meeting it for the first time, you will always find this all wood-fibre hardboard reliable.

Press Sizes: 4' x 18' and 5' 7" x 16'
(Door sizes without restriction).

Thicknesses: $\frac{1}{8}$ " and $\frac{3}{16}$ ".

Finishes: Natural colour and ivory-faced, plain or perforated.

Supplied in the improved packing. And now there is **WISABOARD**, melamine plastic faced PANDA BOARD in a wide choice of colours and patterns.

From the producers of the largest range of wood-based sheet materials in Europe!

Look for this trade mark!



Samples and literature will be sent on request by the sole agents for U.K. and Ireland:

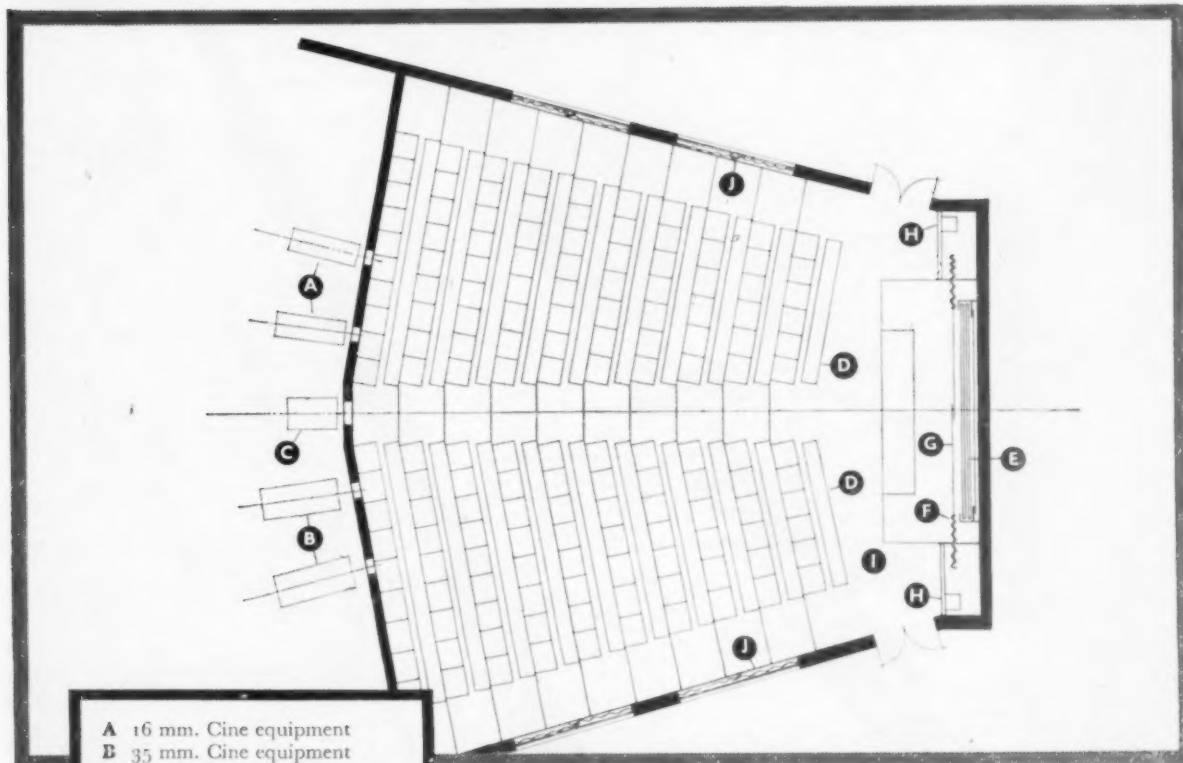
PHARAOH'S PLYWOOD CO. LTD.

ADELAIDE HOUSE, LONDON BRIDGE, LONDON, E.C.4. Tel. MANsion House 5351 (6 lines)

Manufactured by:

OY WILH. SCHAUMAN AB, JYVÄSKYLÄ, FINLAND

Everything for the Lecture Theatre...



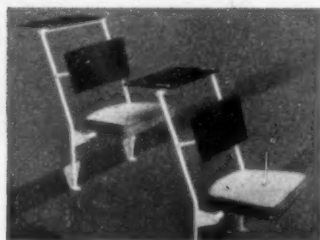
- A 16 mm. Cine equipment
- B 35 mm. Cine equipment
- C Slide Projector, Epidiascope
- D Seating with built-in writing tops
- E Electrically operated Chalkboard/Cine Screen unit
- F Electrically operated Stage Curtains
- G Curtain tracks
- H Sound re-inforcement system
- I Floor Coverings; Linoleum, Rubber, Carpet
- J Electrically operated black-out curtains and blinds

... from ONE source

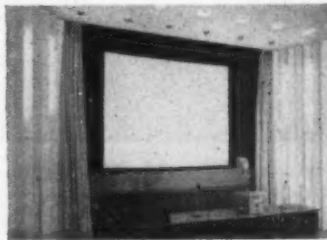
As experts on this highly specialized subject, G.B-Kalee can offer you excellent technical advice—together with a comprehensive, co-ordinated range of seating, furnishings and modern visual aid equipment.

When it comes to equipping a new lecture theatre or modernizing an existing one, you'll find many advantages in dealing with this one efficient source.

Write now to G.B-Kalee for further information and/or illustrated lists.

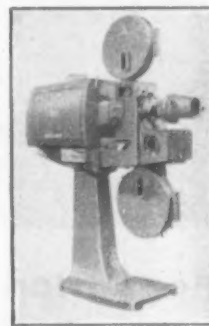


Gaumont-Kalee Lecture Theatre chair type 2563



Gaumont-Kalee electrically operated Chalkboard/Screen unit

Gaumont-Kalee Sound Projection Equipment



RANK PRECISION INDUSTRIES LTD

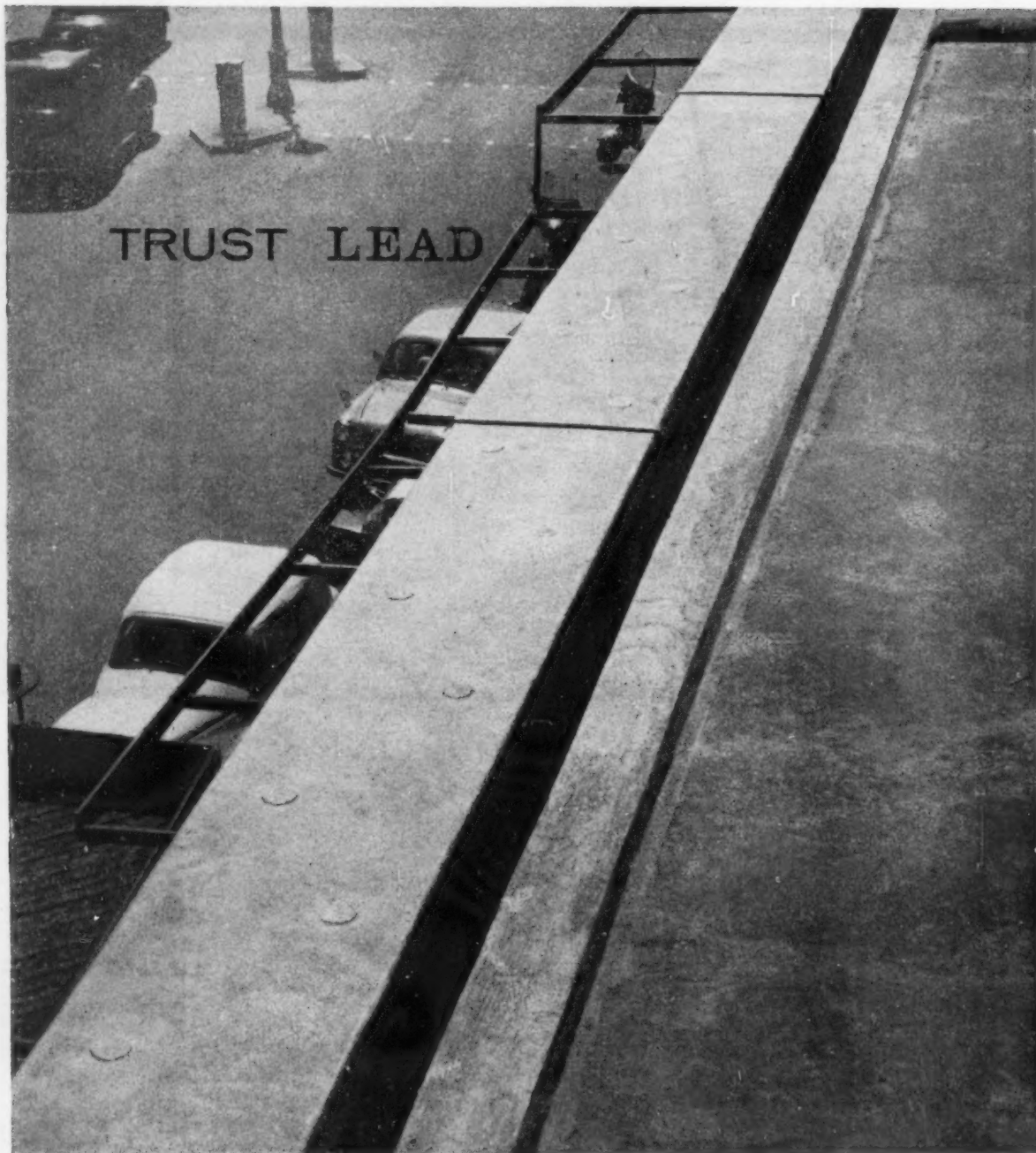
G.B-KALEE DIVISION · WOODGER ROAD, LONDON, W.12 · TEL: SHEPHERDS BUSH 2050

BRANCHES: BELFAST, BIRMINGHAM, CARDIFF, GLASGOW, LEEDS, LIVERPOOL, LONDON, MANCHESTER, NEWCASTLE.

By Appointment to
Her Majesty The Queen



For quality in flashings and weatherings . . .



For advice on the use of lead in building work . . .

Most of the many uses are detailed in the Association's publications, and in addition the Bureau's technical officers are always glad to give individual assistance.

THE LEAD SHEET AND PIPE TECHNICAL INFORMATION BUREAU

Lead Development Association, 18 Adam Street, London, W.C.2

Telegrams: Leaddevop, Lond. Telephone: WHitehall 4175

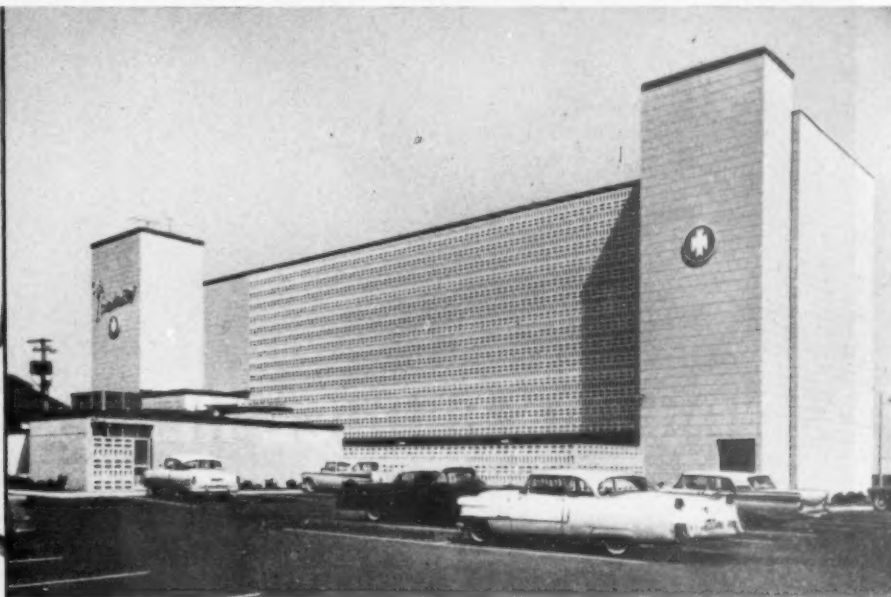
h

TL2

Build better with Du Pont ELASTOMERS



Preformed neoprene gaskets for curtain wall construction are simply installed, seal effectively, outlast conventional glazing compounds. They cut costs and speed construction.



Weatherproof coating of "Hypalon" over concrete provides colourful exteriors . . . lasting protection against sun, weather and ozone attack.

The Du Pont elastomers — neoprene, and Hypalon* synthetic rubber — make for better buildings by assuring utmost quality and longest life in a variety of building products. Du Pont neoprene and "Hypalon" have proved outstanding in resistance to sunlight, heat, extremes of climate and weather, oil and grease, stress and strain, and other deteriorating influences which

quickly destroy ordinary rubbers. "Hypalon" is unique in being completely immune to ozone attack — a chief cause of cracking in many other types of elastomers. In addition, "Hypalon" is available in an unlimited range of colours, including pastels, making this versatile elastomer highly decorative as well as functional.

LOOK FOR DU PONT NEOPRENE OR HYPALON* IN:

COATINGS—protective and decorative, for roofs, floors, exterior and interior walls; can be used over many types of substrates, including masonry. They can be combined with grit to form non-skid surfaces.

FLOORING—durable floor tile of "Hypalon" retains its colour, will not shrink, much more stable dimensionally, resists heat, flame, cigarette burns, permanent indentations, and strong oxidizing chemicals.

GASKETS & SEALS—extruded, preformed gaskets of Du Pont neoprene are the standard of quality for permanently sealing or glazing curtain wall panels on high-rise structures the world over.

ADHESIVES—based on Du Pont neoprene for bonding curtain-wall sandwich panels, applying plastic laminates, installing tile, wallboards, ceilings.

. . . and many other items, such as caulking compounds, structural bearing pads, roof-vent seals . . . belting, hose and other key parts on construction equipment.

See your local supplier or send coupon below for more information on these and other products made from Du Pont neoprene and "Hypalon"

*Hypalon is Du Pont's registered trade mark for one of its synthetic rubbers.



NEOPRENE-HYPALON*

BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY

Du Pont Company (United Kingdom) Ltd.,
76 Jermyn Street, London, S.W.1., ENGLAND.

Please send me further information on
neoprene and "Hypalon" coatings ()
"Hypalon" floor tiles ()
neoprene based adhesives ()
neoprene gaskets and seals ()
tick as appropriate

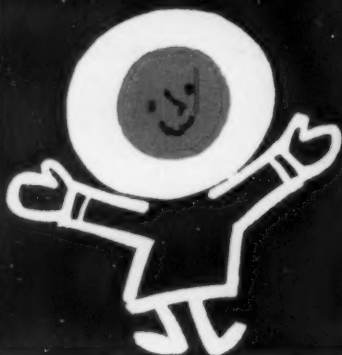
Architects' Journal 2/61

NAME.....
POSITION.....COMPANY.....
ADDRESS.....
CITY.....COUNTRY.....

YOU CAN REDUCE HEAT LOSSES BY

60%

WITH THERMALON



EVERY THERMALON INSTALLATION CARRIES A WRITTEN 2 YEAR GUARANTEE

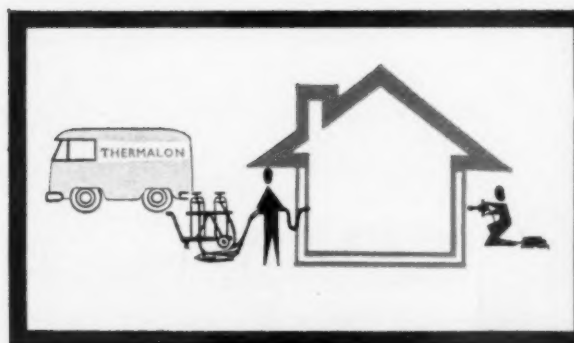
THERMALON offers Architects, Builders and Heating Engineers a unique plastic foam insulation system for either existing dwellings or new buildings under construction.

THERMALON achieves unprecedented heat savings because the insulating qualities of the external structure are increased by over 300%. With over 40,000 buildings already completed we are now able to place our unrivalled experience at your disposal for 1961 contracts.

Send coupon **NOW** for technical brochure.

70%

PLASTIC FOAM INSULATION SYSTEM



THERMALON LTD. (Dept. AJ1) 75 Grosvenor St., London, W.1

Please send full details of Thermalon Plastic Foam Insulation to:—

NAME _____

ADDRESS _____

THERMALON LIMITED 75 GROSVENOR STREET LONDON W1
Tel. No: HYDe Park 9261 (8 lines)

BRANCHES AT: BRIGHTON · HULL · LIVERPOOL · MANCHESTER · MOTHERWELL · NEWCASTLE · NOTTINGHAM

Prestressed
spun concrete

BYWAY 'X'

lighting column

with the

PHOSWARE P.142

fluorescent lantern

Ideal for all Group 'B' lighting and
selected for the Council of
Industrial Design South Bank Exhibition.



Approved by the C.O.I.D. and
carries the B.S.I. Kite Mark.

CONCRETE UTILITIES LIMITED

WARE • HERTS. • Telephone: WARE 3151

Works at: WARE, LIVERPOOL, HIRWAUN, NEWCASTLE





DO FLOORS DRIVE YOU UP THE WALL?

Floors get so much more wear-and-tear than walls. And they have to look just as smart. But do they get the same detailed specification for finish as walls? **NO.** Yet in a matter of weeks, a floor that's not been properly treated can spoil a whole project.

LET FTL SPECIFY AND SUPERVISE FLOOR TREATMENT—FREE OF CHARGE

Floor Treatments Ltd. is one of Britain's largest manufacturers of floor maintenance products—including the revolutionary liquid floor seals. Only FTL offers this free 3-stage service to Architects: and this is what we mean by Service.

STAGE 1 An FTL man will call on you at planning stage. He will discuss type of floor, finish required, nature of expected traffic and suitable treatments.

STAGE 2 On the building site: FTL will advise on treatment and supervise its application.

STAGE 3 FTL will advise the owners of the building on floor maintenance and keep in touch to ensure that the full benefit is derived from FTL floor service.

It's a wise move to contact FTL right at the start of a new project. The result? A satisfied client, a floor that lives up to the rest of the building and more bouquets for you.

Contact **FTL Advisory Service** (Dept. A)

FLOOR TREATMENTS LTD.

Lloyds Bank Chambers, High Street, High Wycombe, Bucks. Tel: High Wycombe 4214

Also at: Norwich Union Bldg., City Sq., Leeds, Tel: 23188 and Nicol Place, Leith, Edinburgh, Tel: Leith 39166



...but
bevelled panels
keep you

THAT'S EASILY ANSWERED—simply because Celotex Bevelled Panels provide just about the finest form of interior thermal insulation obtainable today. Insulation for any kind of ceiling in almost any kind of building: insulation against the loss of heat in winter and excessive outside heat in summer: the efficient insulation that only Celotex cane fibre can ensure. Three different types: Natural, Highlight and Flame-resistant surfaces provide a variety of finishes suitable for all applications. Whichever type is preferred, Celotex Bevelled Panels permit dry construction to give a crack-free modern ceiling plus thermal insulation and an attractive textured base for further decoration if desired.

Consult **CELOTEX** at ceiling level

Two important free Celotex services—the Celotex Acoustical Advisory Service and the Celotex Technical Advisory Service—are both at your immediate disposal for discussion and advice at the planning stage. Whatever your ceiling problem, Celotex can solve it. There is, of course, no obligation, simply phone London, Elgar 5717.

Information can also be given regarding the complete and extensive range of Celotex products for every type of building construction. Phone as above or write to Celotex Limited, North Circular Road, Stonebridge Park, London, N.W.10.

CELOTEX* CEILINGS

THE WORLD'S MOST

how can
possibly
warm?



WIDELY USED INSULATION

Other
CELOTEX insulation
products

INSULATING BOARD

Manufactured from long tough sugar cane fibre, Celotex Insulating Board is the perfect material for wall, roof and ceiling linings. Supplied with either Natural or Highlight finish, it can be erected in its original state or given further decorative treatment.

FRIB

Celotex Flame Resistant Insulation Board is manufactured from closely woven sugar cane fibres, faced on both sides with asbestos. This combination provides exceptional thermal insulation qualities and flame resistance. In the BS 476 surface spread of flame test—FRIB (rated class 1) showed no spread of flame whatsoever.

ROOF INSULATION

Permanent insulation for every type of roof decking can be provided by Celotex roof insulation board. Tough, light in weight, this low density cane fibre board cuts fuel and heating plant costs. Its naturally rough-textured surface provides a strong bond with bitumen.

SARKING

With a thermal insulation value *three times greater* than that of wood sarking, this Celotex product is the ideal material for use where complete roof insulation is required. It is produced from closely woven Celotex cane fibres and top-surface treated with a compound with high water repellent qualities.

METAL FIXING SYSTEMS

Celotex has available a metal fixing system for every type of Celotex insulating material. Each system is designed for a specific purpose. Speed, low cost and versatility are the outstanding features.

SERVICE

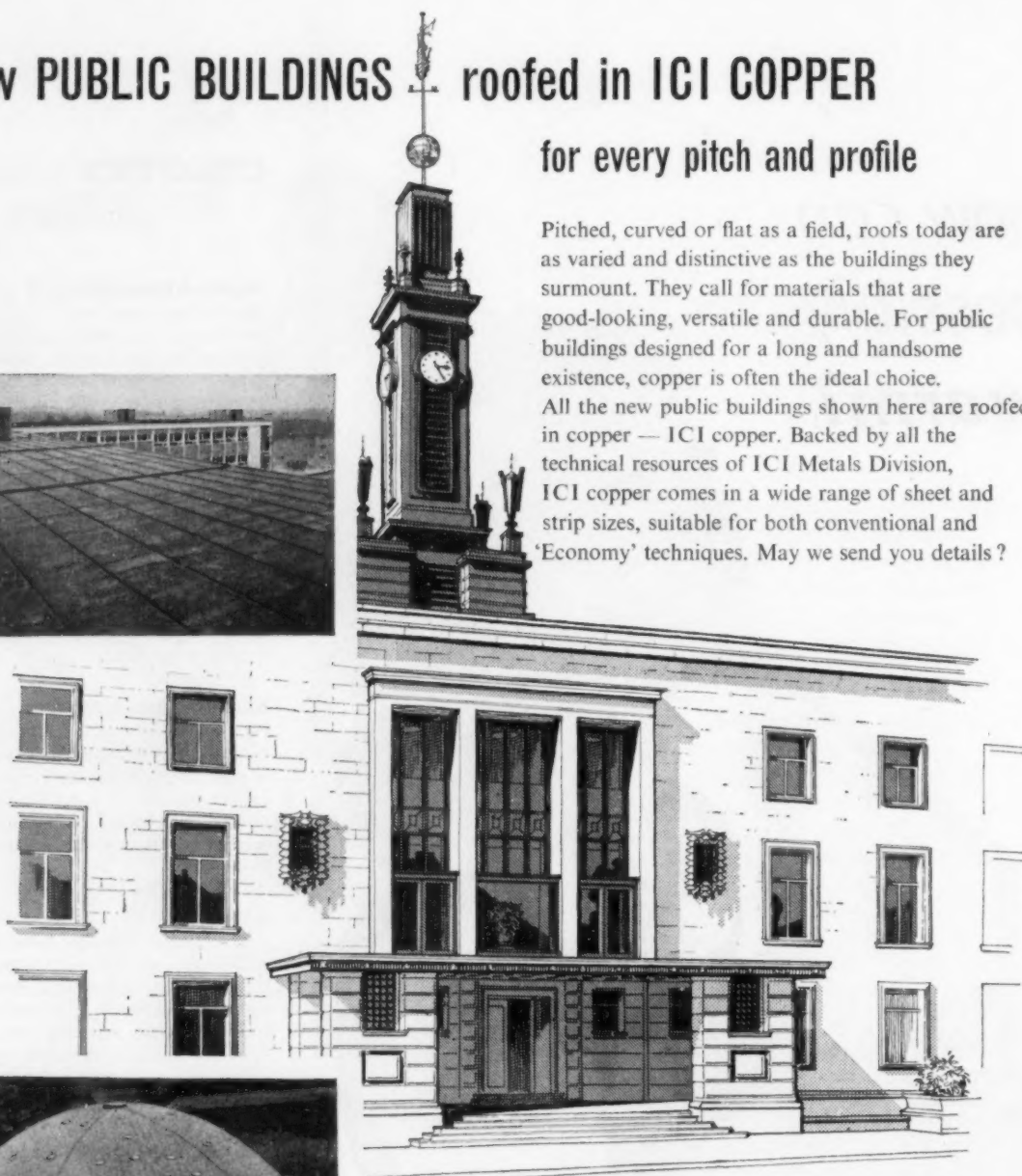
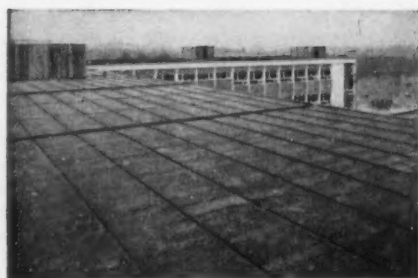
Installation of Celotex materials is carried out by highly skilled specialist contractors operating throughout the United Kingdom.

* CELOTEX is a registered trade mark

New PUBLIC BUILDINGS roofed in ICI COPPER

for every pitch and profile

Pitched, curved or flat as a field, roofs today are as varied and distinctive as the buildings they surmount. They call for materials that are good-looking, versatile and durable. For public buildings designed for a long and handsome existence, copper is often the ideal choice. All the new public buildings shown here are roofed in copper — ICI copper. Backed by all the technical resources of ICI Metals Division, ICI copper comes in a wide range of sheet and strip sizes, suitable for both conventional and 'Economy' techniques. May we send you details?



Engineering College Assembly
Hall, Rangoon
Roofing Contractors:
Fredk. Braby & Co. Ltd.

Corby Police Station
Architects:
Northamptonshire County Council
Roofing Contractors:
Fredk. Braby & Co. Ltd.

Above:
New Municipal Buildings, Kirkcaldy
Architects: Messrs Carr and Howard
F/R.I.B.A., F/R.I.A.S.
Roofing Contractors:
Fredk. Braby & Co. Ltd.

Top left:
Manor Guild House, Coventry
Roofing Contractors:
Builders Iron and Zincwork Ltd.



ICI COPPER

sheet and strip for roofing, flashings and weatherings

IMPERIAL CHEMICAL INDUSTRIES LIMITED, LONDON, S.W.1
C24

STEEL REINFORCEMENT

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

FRAME MESH—High Tensile Welded Fabric to B.S. 1221 1945, Part A, supplied in Rolls and Flat Sheets. M.S. & H.T. Bars to B.S. 785, bent, bundled and labelled, delivered to site ready for fixing. No loss of time in checking and sorting material.

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, Middlesax. Treorchy, Glam.



THIS IS THE HOUSE THAT JACK BUILT



Jack's house is insulated with Fibreglass.

Fibreglass in the attic and between cavity walls stops heat escaping, and keeps it inside where it belongs. The cost is small—practically speaking negligible—in comparison with the cost of a house. But the difference it makes is far from negligible. It is one of the simplest and most certain contributions an architect can make to his clients' comfort. Not only in winter but in summer. Insulation works both ways, keeping heat out as well as in. In fact it is now recognised that insu-

lation is not a luxury but a necessity. We feel sure that you will agree that it should be standard practice and we hope that you agree that it should be Fibreglass. If you don't perhaps you will drop us a line and allow one of our technical people to put the facts before you.

for comfort's sake insulate with

FIBREGLASS

FIBREGLASS LIMITED · ST. HELENS · LANCASHIRE · TELEPHONE ST. HELENS 4022



Warehouse, 100 ft. span. Roof Pitch 12°. Alford & Alder (Engineers) Ltd.

Architects:—W. Leslie Jones.

CLEARSPAN buildings are used by many leading industrial concerns including:—

ATOMIC ENERGY COMMISSION • BRITISH EUROPEAN AIRWAYS LTD
DE HAVILLAND ENGINE CO • ESSO PETROLEUM CO. LIMITED
IMPERIAL TOBACCO CO. LTD • IMPERIAL CHEMICAL INDUSTRIES LTD
J. LYONS & CO. LTD • MINISTRY OF WORKS
NATIONAL COAL BOARD • SHELL MEX & B.P. LIMITED
SOUTHERN ELECTRICITY BOARD • GEORGE WIMPEY & CO LIMITED

CLEARSPAN

the most comprehensive and attractive range of standard buildings ever produced.

Spans up to 150 ft.
Roof slopes 6° 12° 17°
Cranes up to 50 tons
Variations to order

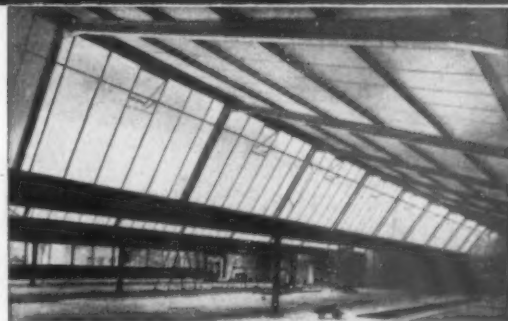


CONDER pioneered the **NEW LOOK** in steel construction—elegant, efficient and economical. Now CONDER is even further ahead with the most advanced **NORTHLIGHT** designs. The clear portal frame construction ensures more light and is virtually maintenance-free. An exceptionally wide range of grids is available.

GRIDS UP TO 120' x 40'

Cloth weaving shop.

Architects: Vallis & Bird, Frome, Somerset



CONDER ENGINEERING CO LTD WINCHESTER HANTS Tel: 5095
CONDER ENGINEERING CO (MIDLANDS) LTD PEEL WORKS BURTON-ON-TRENT Tel: 5411



THIS IS THE HOUSE THAT JACK BUILT



Jack's house is insulated with Fibreglass.

Fibreglass in the attic and between cavity walls stops heat escaping, and keeps it inside where it belongs. The cost is small—practically speaking negligible—in comparison with the cost of a house. But the difference it makes is far from negligible. It is one of the simplest and most certain contributions an architect can make to his clients' comfort. Not only in winter but in summer. Insulation works both ways, keeping heat out as well as in. In fact it is now recognised that insu-

lation is not a luxury but a necessity. We feel sure that you will agree that it should be standard practice and we hope that you agree that it should be Fibreglass. If you don't perhaps you will drop us a line and allow one of our technical people to put the facts before you.

for comfort's sake insulate with

FIBREGLASS

FIBREGLASS LIMITED · ST. HELENS · LANCASHIRE · TELEPHONE ST. HELENS 4022



Warehouse, 100 ft. span. Roof Pitch 12°. Alford & Alder (Engineers) Ltd.

Architects:—W. Leslie Jones.

CLEARSPAN buildings are used by many leading industrial concerns including:—

ATOMIC ENERGY COMMISSION • BRITISH EUROPEAN AIRWAYS LTD
DE HAVILLAND ENGINE CO • ESSO PETROLEUM CO. LIMITED
IMPERIAL TOBACCO CO. LTD • IMPERIAL CHEMICAL INDUSTRIES LTD
J. LYONS & CO. LTD • MINISTRY OF WORKS
NATIONAL COAL BOARD • SHELL MEX & B.P. LIMITED
SOUTHERN ELECTRICITY BOARD • GEORGE WIMPEY & CO LIMITED

CLEARSPAN

the most comprehensive and attractive range of standard buildings ever produced.

**Spans up to 150 ft.
Roof slopes 6° 12° 17°
Cranes up to 50 tons
Variations to order**



CONDER pioneered the **NEW LOOK** in steel construction—elegant, efficient and economical. Now CONDER is even further ahead with the most advanced **NORTHLIGHT** designs. The clear portal frame construction ensures more light and is virtually maintenance-free. An exceptionally wide range of grids is available.

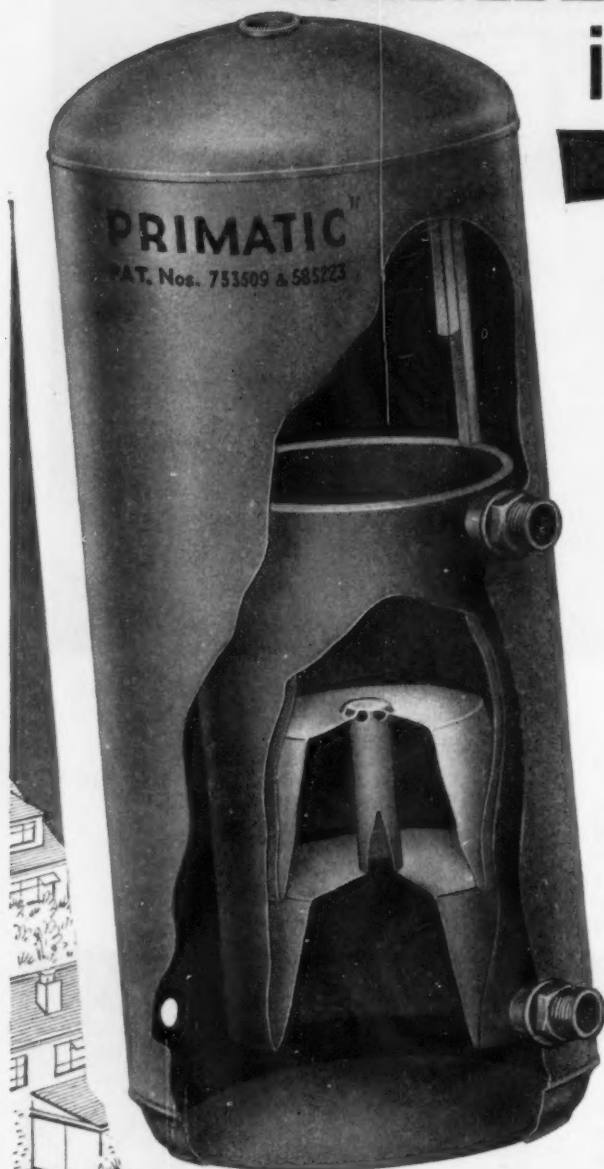
GRIDS UP TO 120' x 40'

Cloth weaving shop.

Architects: Vallis & Bird, Frome, Somerset

CONDER ENGINEERING CO LTD WINCHESTER HANTS Tel: 5095
CONDER ENGINEERING CO (MIDLANDS) LTD PEEL WORKS BURTON-ON-TRENT Tel: 5411

THE PRIMATIC COPPER SBP TYPE indirect cylinder



FOR SMALL BORE HEATING & DOMESTIC HOT WATER

Small Bore Pipe Heating requires an indirect cylinder.

The PRIMATIC Copper indirect cylinder is outstanding for this purpose.

ECONOMICAL for a new installation because it requires only one cold feed tank which means:-

LESS PIPEWORK, LESS FIXING
LESS SPACE and LESS COST.

PERFECT when altering an existing system from direct to indirect heating because it requires PRACTICALLY NO ALTERATION TO THE PIPEWORK.

An immersion heater can be operated in the primary circuit if required. This prevents scale deposit on the heater in hard water areas.

In soft water areas an immersion heater may be fitted in the Secondary System.

Manufactured from Copper Sheet to B.S.899.

All Copper Bosses.

Zinc free silver alloy brazed.

Immune to attack from dezincification.

Conforms to B.S.S. 699

Accepted by British Waterworks Association.

RANGE BOILERS LTD.

(AND SUBSIDIARY COMPANIES)

STALYBRIDGE · CHESHIRE

TEL. STALYBRIDGE 3353 GRAMS. CYLINDERS, STALYBRIDGE

HARDWOOD FLOORS

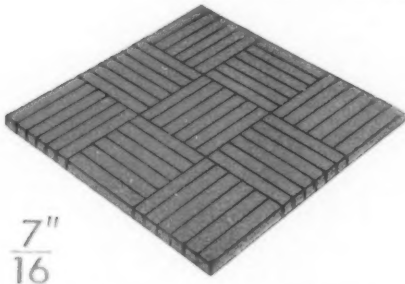
with a difference!

BY

HOLLIS



MOSAIC PARQUET



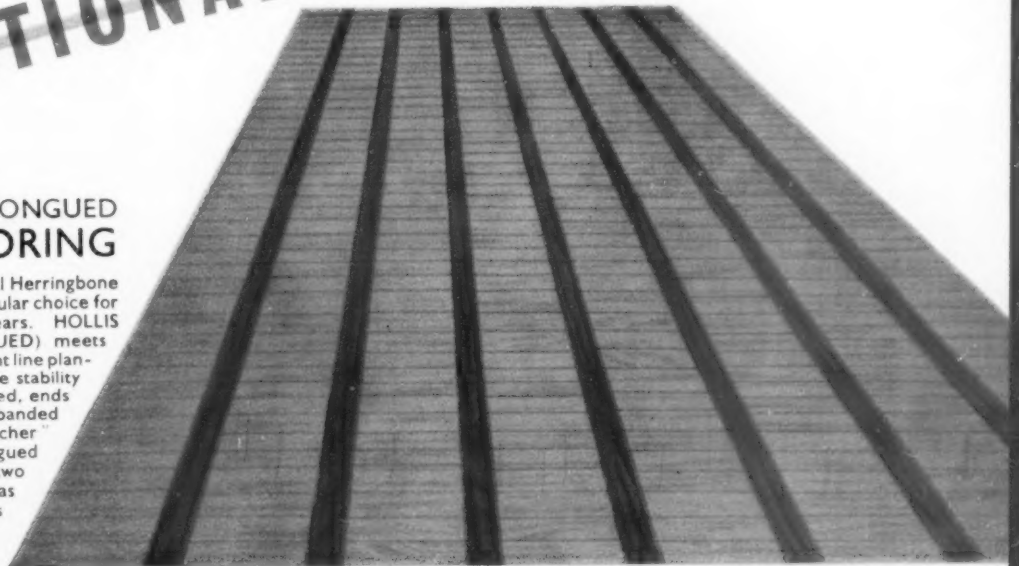
7"
16

Note extra thickness—for increased stability and wear.

DIRECTIONAL

SOLID TONGUED BLOCK FLOORING

A departure from the traditional Herringbone Pattern, which has been the popular choice for wood block floors for many years. HOLLIS DIRECTIONAL (SOLID TONGUED) meets the present trend towards straight line planning without detracting from the stability of the floor. The double tongued, ends matched dividing strips are banded securely to the grooved "stretcher" blocks, thus ensuring a solid tongued and grooved floor. The use of two woods of contrasting colour, as illustrated, further enhances the appearance and emphasises the linear effect.



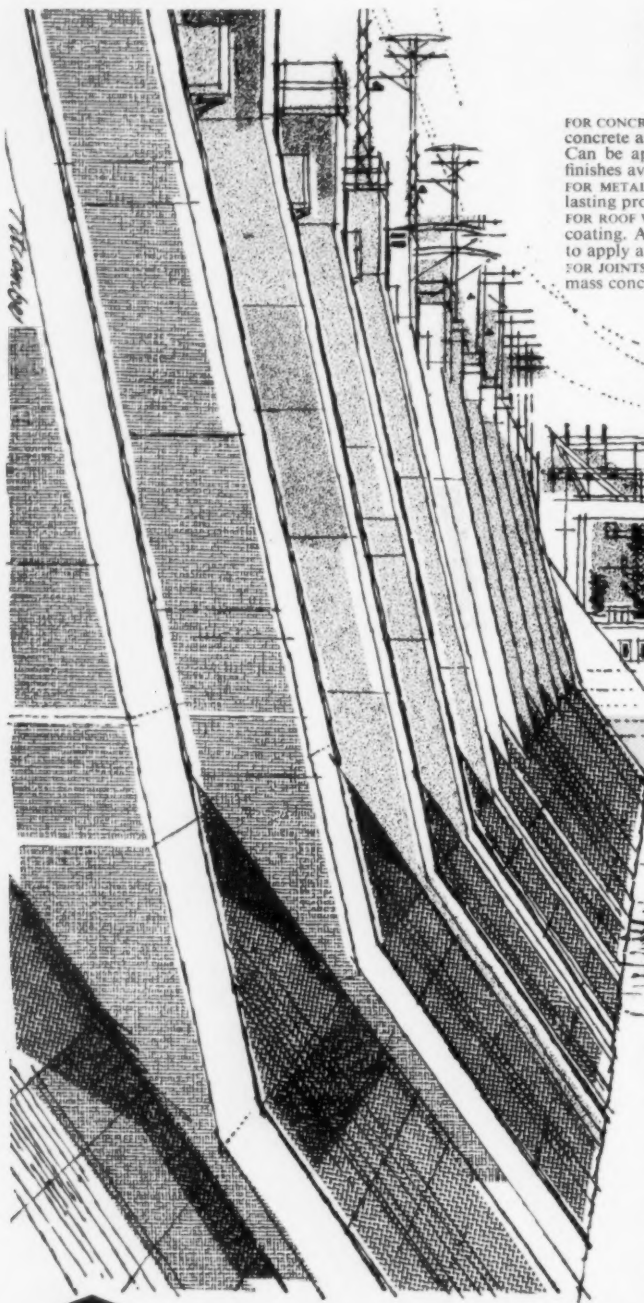
Available in a choice of attractive and dependable hardwoods imported from all parts of the world and providing a floor of unfading beauty, improving with age—easy to maintain, warm and quiet to the tread.

Precision manufactured in our own plant, the whole process is handled from the importation of the hardwood, seasoning, kiln drying and machining, using the most modern equipment.

TIMBATILE can be installed on most sound, smooth and level surfaces, including boarded floors and cement screeds.

HOLLIS BROS LTD

LEICESTER HULL LONDON BIRMINGHAM



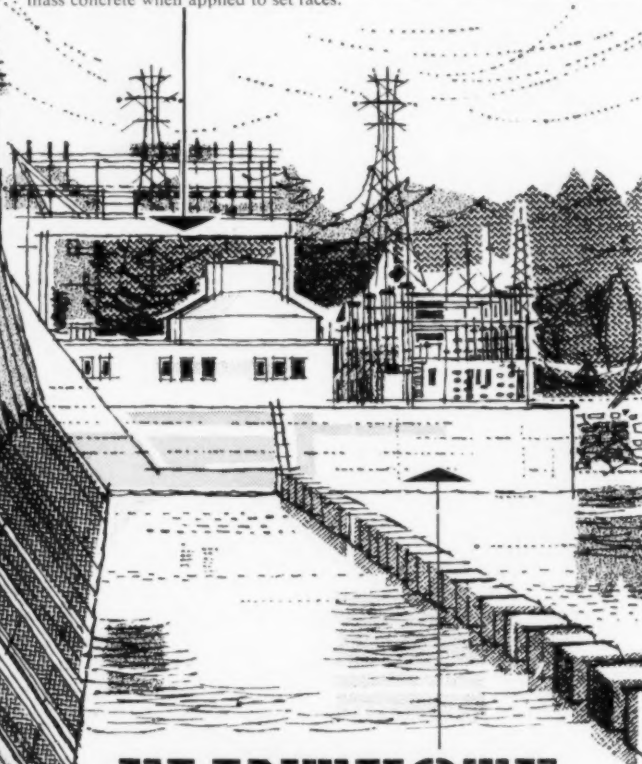
FLINTKOTE HERE

FOR CONCRETE PROTECTION—provides a first-class protective coating and seal on concrete and other surfaces exposed to acidic water, frost action and weather. Can be applied to damp concrete, durable and simple to apply. Decorative finishes available. Widely used on Hydro-electric schemes.

FOR METAL PROTECTION — forms a thick, tough bitumen coating giving long-lasting protection against corrosion.

FOR ROOF WATERPROOFING — provides a firmly-adhered, flexible and impervious coating. Applied cold and reinforced to withstand normal movement. Simple to apply and satisfactory in any climate.

FOR JOINTS IN CONCRETE—forms an effective waterproof seal between pours of mass concrete when applied to set faces.



FLINTKOTE THERE

These are but a few of the many uses for various Flintkote Products — we should be pleased to tell you more.

Whatever the country, it is probable that Flintkote Products will be available there from stock and that "on-site" technical advice can be given. The advantages of these facilities will be readily appreciated. Every building needs Flintkote — somewhere.

The Flintkote range includes products for :
Roof Waterproofing · Industrial Floor Surfacing · Metal Protection · General
Waterproofing and Damp-proofing · Tanking · Thermal Insulation Protection
and other specialised applications.

...FLINTKOTE

Regd

ALMOST EVERYWHERE



Scotland. THE GLEN SHIRA HYDRO-ELECTRIC SCHEME. Concrete surfaces of the main dam, lower dams, and main tunnel are all FLINTKOTE — protected from attack by acids in the peaty water.



THE FLINTKOTE COMPANY LIMITED

Adam House, One Fitzroy Square, London W.1

Telephone: EUSon 7224.

HIGGS AND HILL
LIMITED

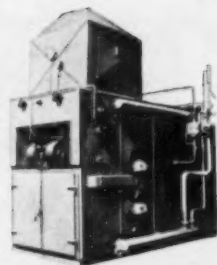
LONDON

LEEDS

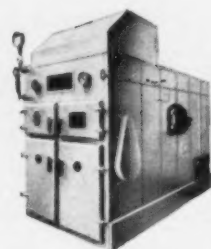
COVENTRY

★ for **LOW-COST**
automatic **HEATING** and **HOT WATER**:
★ **Solid fuel COOKERS** ★ **Heating STOVES**

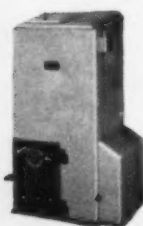
Modernise with
**HARD
COKE**



Redfyre "EMMA" coke-fired automatic boiler for Central Heating and Indirect Hot Water supply. In sizes from 240,000 to 8,000,000 B.T.U.'s.



"TELCOMATIC" coke-fired automatic boiler for Central Heating and indirect Hot Water supply. In sizes from 500,000 to 10,000,000 B.T.U.'s



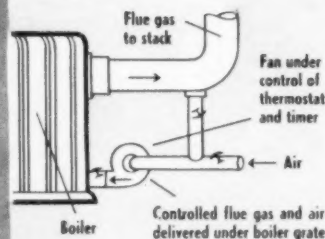
"TRIANCO" coke-fired automatic boiler for Central Heating and indirect Hot Water supply. Available in sizes from 250,000 to 10,000,000 B.T.U.'s

SEND FOR INFORMATION SHEET NO. 4 which gives full details of the most modern methods of providing the high standards of heating demanded today in hotel and catering establishments. It deals also with hot water supply, cooking, space heating in lounges and bars. A valuable section shows how older heating equipment can be modernised at low cost to provide automatic firing with higher efficiencies.

Solid fuel equipment is less costly to install than any other fuel system. It costs less to run and is no less efficient. What is most important about solid fuel appliances in general is they are **TROUBLE-FREE** and do not need constant and frequent servicing.

WHY USERS PREFER HARD COKE

Hard Coke is the main product of the Coking Industry (processed coal, not a by-product), and is carefully prepared for the market from the crushing, washing and blending of the coal to the grading after manufacture. Consistent in quality, containing no stone or shale, it is a slow-burning type of coke especially suitable for banking for long periods, and for coping with variations in heating load. It is, and will remain, in ample supply.



G.A.P. Conversion Unit fitted to a sectional boiler for Central Heating. Thermostatically and time controlled it raises efficiency and lowers fuel costs



"ESSE" AUTOVECTOR heating stove incorporates a fuel hopper and thermostatic control. For heating lounges, bars and reception rooms



"AGA" E free-standing heat storage solid fuel cooker with four ovens and full hot-plate facilities

* TOUGHENED Glass? In the North?

in sizes up to 92" x 62"

BRADFORD GLASS CO. LTD. ANNOUNCE
THAT THEIR NEW GLASS TOUGHENING PLANT
IS NOW IN OPERATION.

* **PERMA**
plate - TOUGHENED PLATE GLASS

* **PERMA**
tuff - TOUGHENED SHEET GLASS
TOUGHENED ROUGH CAST GLASS
AND TOUGHENED BLACK GLASS



Enquiries for all kinds of toughened
glass are invited. Quick delivery to the
site by our own vans throughout the
North is a feature of our B.G. service.



Bradford Glass

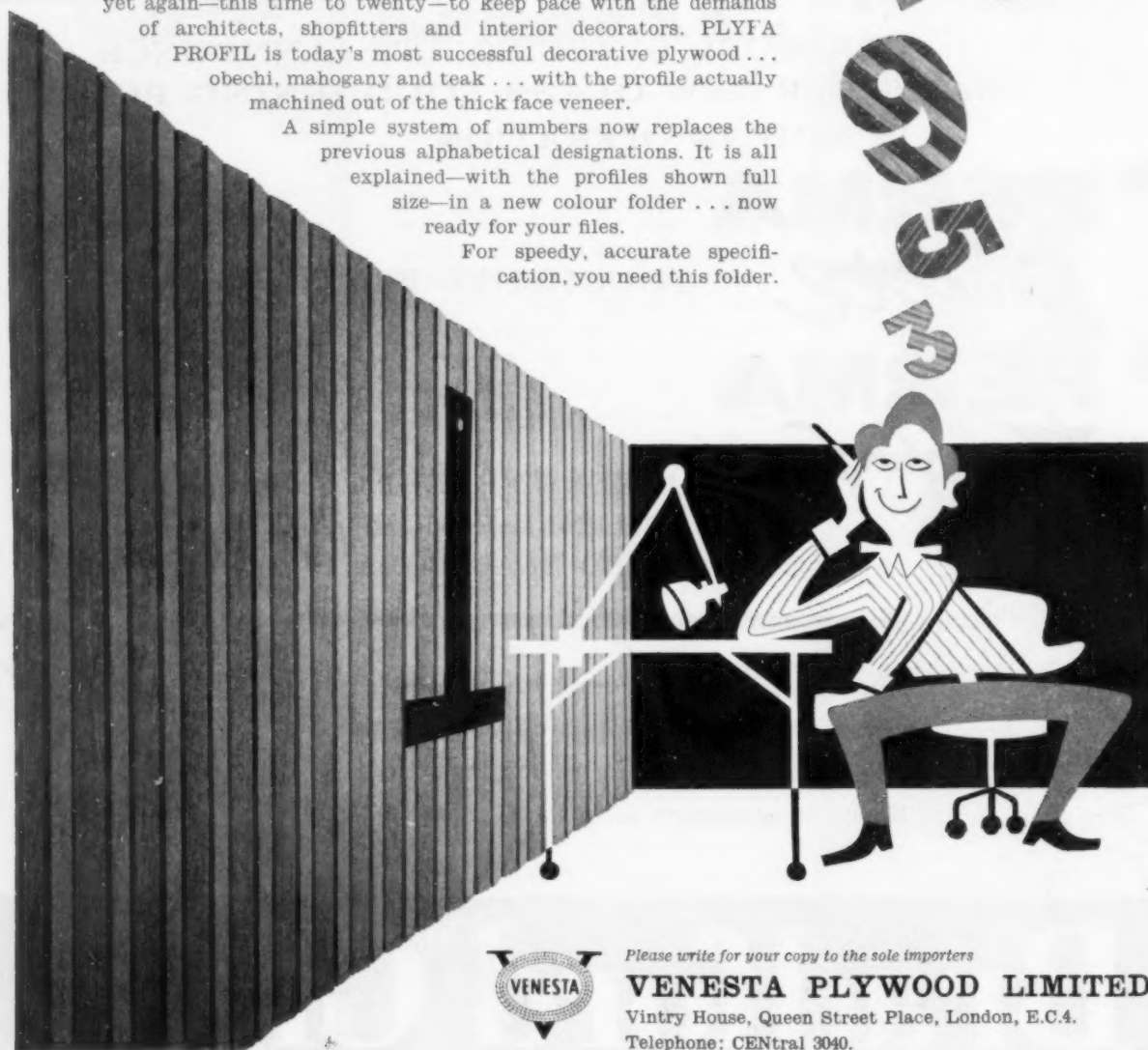
BRADFORD GLASS CO. LTD., SPRING MILL WORKS, BRADFORD 5. Telephone 26386 (5 lines)

a wider range
than ever
of
PLYFA *Profil*
for beautiful interiors

The choice of profiles in PLYFA PROFIL has had to be increased yet again—this time to twenty—to keep pace with the demands of architects, shopfitters and interior decorators. PLYFA PROFIL is today's most successful decorative plywood... obechi, mahogany and teak... with the profile actually machined out of the thick face veneer.

A simple system of numbers now replaces the previous alphabetical designations. It is all explained—with the profiles shown full size—in a new colour folder... now ready for your files.

For speedy, accurate specification, you need this folder.



Please write for your copy to the sole importers

VENESTA PLYWOOD LIMITED

Vintry House, Queen Street Place, London, E.C.4.

Telephone: CENTRAL 3040.

TA 4973

**The floor of this food preparation plant has withstood
continuous heavy wear since it was laid 10 years ago
—and it is still as good as new.**

WHEATLY triton 9" x 9" x 1½" Blue Lockjoint
Quarries at the Express Dairy, Drayton.

All Wheatly 'triton' Quarries are produced to British Standard 1285: 1945 (Type 'A') and we recommend that they be fixed to Code of Practice 202: 1959.



Tile Fixers: Carter & Kernahan

WHEATLY



triton

*Specimens of Wheatly 'triton' floor quarries and air bricks
may be seen at the Building Centres in London, Manchester
and Glasgow. Other products include single lap roofing tiles,
ridge tiles (blue and red) and briquette fireplaces.*

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

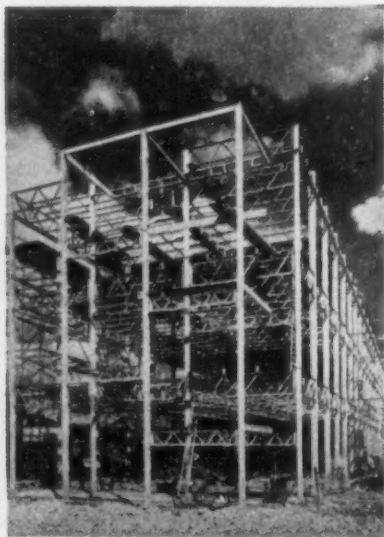
SPRINGFIELD TILERIES, TRENT VALE, STOKE-ON-TRENT

Tel : NEWCASTLE (STFFAS) 66251/66252

Grams : WHEATLY TRENTVALE
WH103

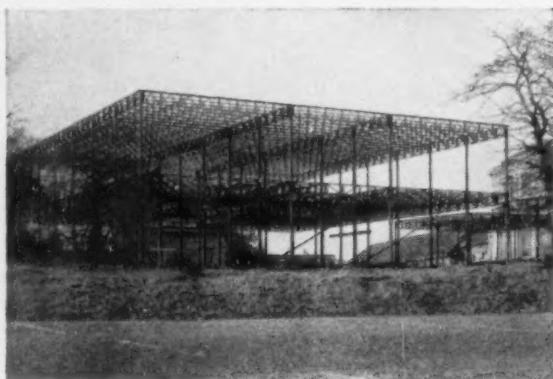
structural steelwork

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.



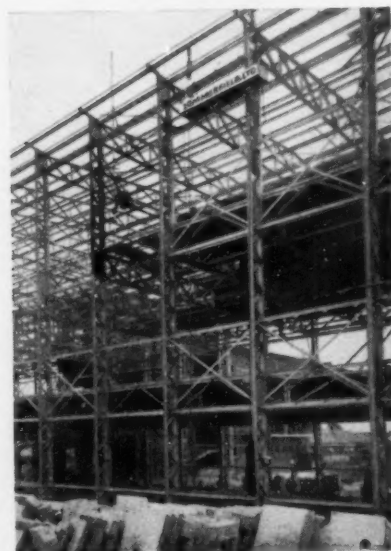
YORK. For the City of York a Grammar School, Sommerfelds designed the Steelwork on a 3 ft. 4 in. modular grid allowing complete freedom for the Architect to use curtain walling and internal arrangements.

Architect: E. Firth, F.R.I.B.A., A.M.T.P.I., City Architect.



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.



I.C.I. For I.C.I. a Laboratory Block. A multi-storey building with a height to eaves of 44 ft. and uninterrupted spans of 50 ft. 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.

Head Office WELLINGTON SHROPSHIRE Tel: 1000
LONDON Office 167 VICTORIA ST. S.W.1. Tel: 8843 and 1000

WEATHERFOIL for the Architect

Many of the most eminent architects in the country entrust their heating problems to Weatherfoil. They know they can rely on the Weatherfoil design team for the closest co-operation at every stage of the project. Result—a heating system perfectly suited to its purpose at the lowest possible cost.

Some of the 555 flats and maisonettes, incorporating Weatherfoil heating at the London County Council housing project, Brandon Estate, Southwark. Architect to the Council, Hubert Bennett, F.R.I.B.A.



Metered Heat

for Multiple Housing

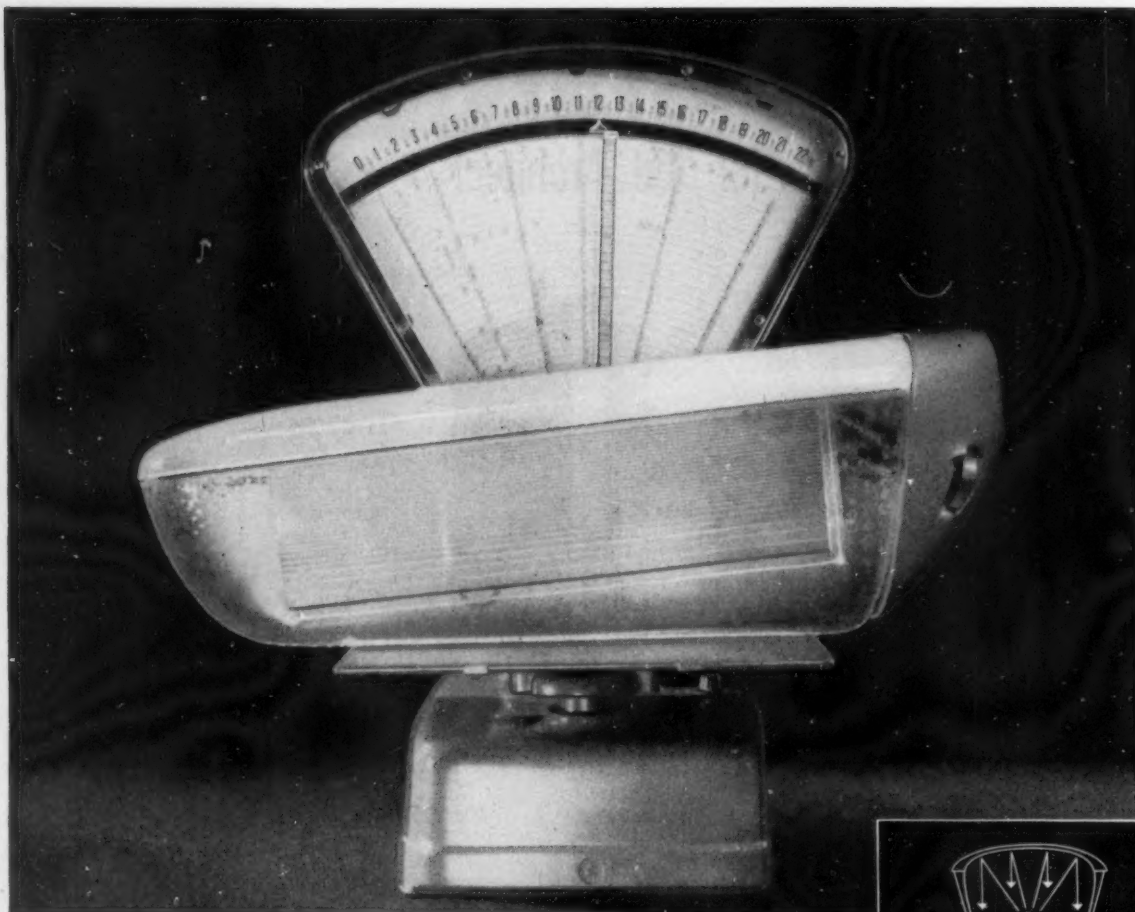
Tenant pays a standing charge included in the rent, which covers capital costs and maintenance, and a measure of background heat. Charge for full heating is registered by a meter, and may be as low as a 1d. per hour. Heater thermostat is set by tenant and can be switched off when not required.

- Low cost installation
- Economical running
- Temperature and on/off control in each dwelling
- Tenant pays by meter

WEATHERFOIL Metered Heat

Write for details to:

WEATHERFOIL LTD., Head Office: 185 BATH ROAD, SLOUGH, BUCKINGHAMSHIRE. TELEPHONE: SLOUGH 25561
BROADGATE HOUSE · COVENTRY · WARWICKSHIRE · TELEPHONE: COVENTRY 40116



Revo street-lighting lantern made by The Revo Electric Co. Ltd., Tipton, Staffs., with bowl and canopy shaped by Wokingham Plastics Ltd., Wokingham, Berks.

'Perspex' gives light with lightness

THIS Revo street-lighting lantern weighs only 12 lbs, yet it is over two feet long. It is designed for use with 140-watt sodium lamps and both the bowl and the canopy are made from 'Perspex' acrylic sheet.

Clear 'Perspex' is used for the bowl, slightly patterned to obscure the fittings inside. On each side, areas have been left unpatterned and refractor plates cemented to them. The plates are machined from 'Perspex' and designed to give the most efficient light distribution.

The efficiency of the lantern is completed by its canopy, which is made from a dense grade of Opal 'Perspex' and reflects more than eighty per cent of the light falling on it. This high reflectivity, together with the general optical efficiency of 'Perspex', is maintained throughout a very long life—ensuring the trouble free service over many years which is so essential in street lighting fittings.

Acrylic materials are unique in combining very light weight, optical efficiency and an almost complete immunity to weather. 'Perspex' acrylic sheet and 'Diakon' acrylic polymer offer these properties to the lighting fitting designer in a form that is both good looking and easy to work.

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

'PERSPEX'

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



FP76



Reflection from Opal 'Perspex' canopy — over 80%.



Transmission through base of clear 'Perspex' bowl — 90%.



Refraction by machined 'Perspex' refractor plates designed to give most efficient light distribution.

SEABOARD FIR PLYWOOD IN ACTION!

A huge section of Canadian fir plywood shuttering being removed on a building site in South London. Below, newly-formed concrete hardens. It's smooth, even surface will require a minimum of finishing.

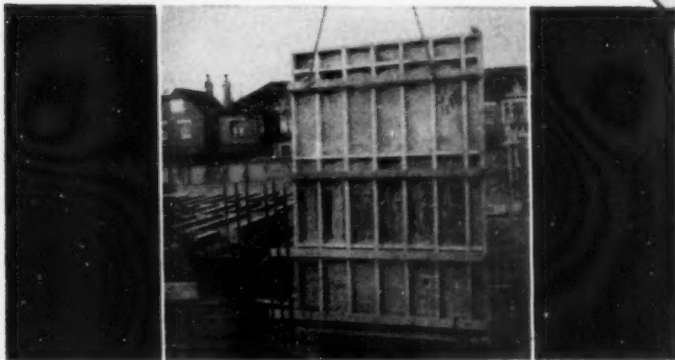
Seaboard fir plywood shuttering can be re-used many times . . . given reasonable care. It's tough, split-proof and, most important, waterproof glue-bonded.

For roof sheathing, floor underlay or shuttering, Seaboard fir plywood makes good sense. Large, but easy to handle, 32 square foot panels save cutting, avoid waste and do the work of heavier, more cumbersome materials.

Standard Panels 8' x 4' (longer and wider panels also available).

Standard Thicknesses $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ " and $\frac{3}{4}$ ".

(also available $\frac{7}{8}$ ", 1", $1\frac{1}{8}$ ", $1\frac{1}{4}$ ").



N. R. M. Marison Esq.,
1-3 Regent Street, London S.W.1

Please send me a free copy of Seaboard Fir Plywood Handbook (L11) describing your full selection of Douglas Fir Plywood.

Name

Address



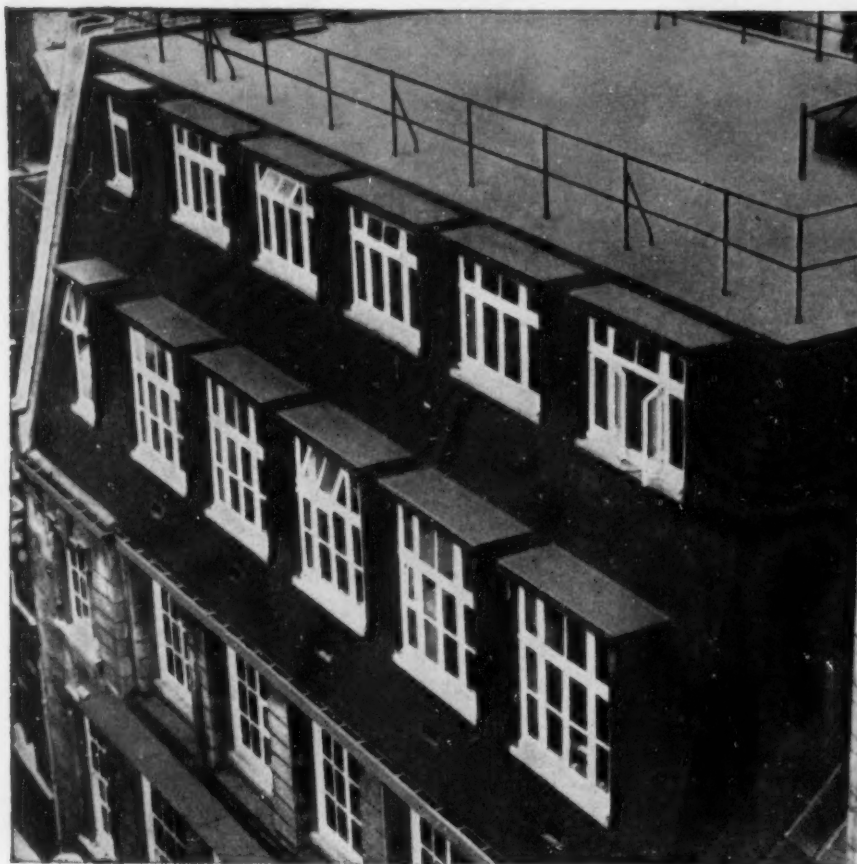
SEABOARD

CANADIAN DOUGLAS FIR

PLYWOOD

UK 60-39

Seaboard Lumber Sales Co. Ltd. Seaboard House, Vancouver 1, Canada.



*Another
Quality
plus
Economy
Specification*

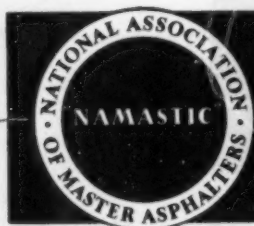
'NAMASTIC'

The Association has a membership made up of the following:—

ASSOCIATED ASPHALT COMPANY LTD.
THE BIRMINGHAM ASPHALT & PAVING CO., LTD.
BOLTON & HAYES LTD.
WILLIAM BRIGGS & SONS LTD.
CAMBRIDGE ASPHALT CO. LTD.
COVERITE (ASPHALTERS) LTD.
DAVIES BROTHERS (ASPHALTERS) LTD.
DURABLE ASPHALTE CO., LTD.
DURASTIC LTD.
EXCEL ASPHALTE CO., LTD.

In the construction of this important office building, everything had to be of outstanding quality. The choice of 'NAMASTIC,' which is made from British materials with manufacturing tolerances much closer than those demanded by British Standard Specifications, emphasised this need while ensuring the added advantage of lower costs.

Specify



ROOFING · FLOORING

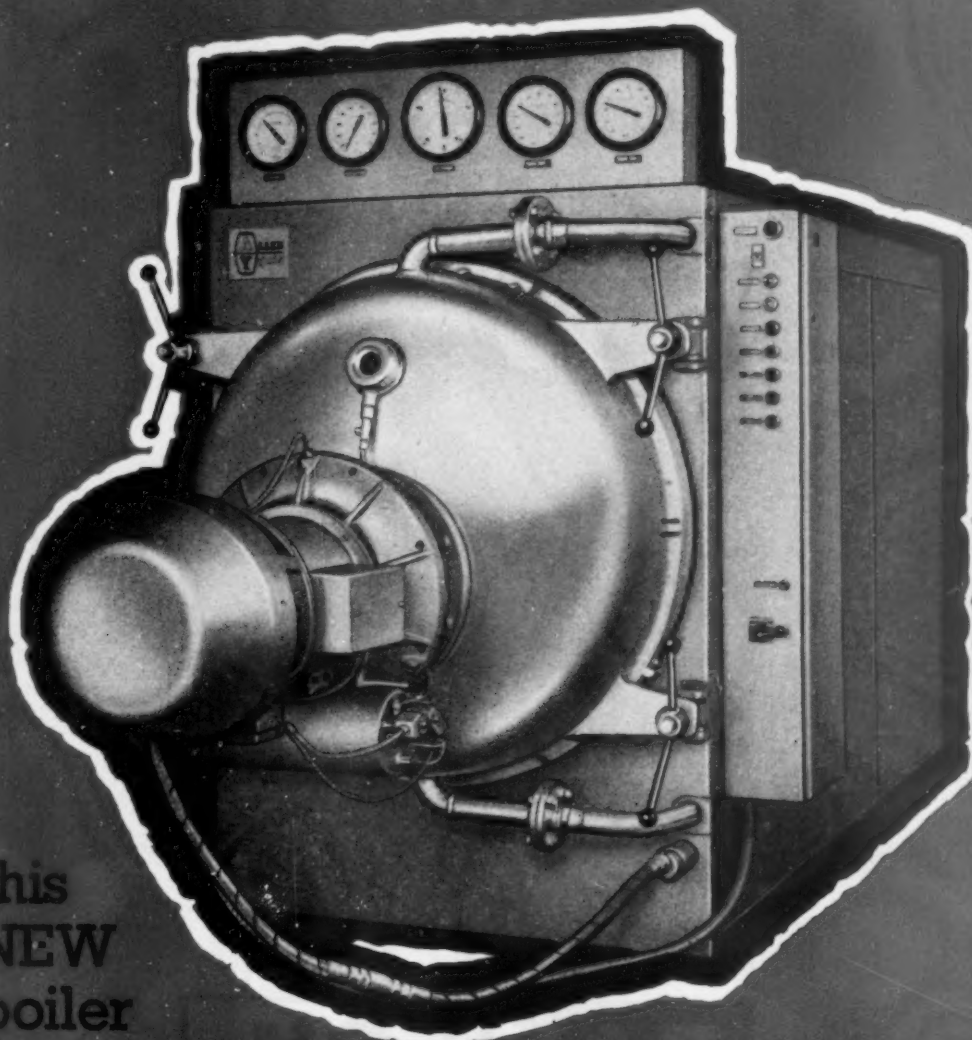
— THE STANDARD ASPHALT FOR BUILDING

TANKING

FALDO ASPHALTE CO., LTD.
FIELD & PALMER LTD.
THE IMPROVED ASPHALTE CO., LTD.
MOUNTFIELD JUNIOR
NATURAL ROCK ASPHALTE CO., LTD.
THE OXFORD ASPHALT CO.
C. PASINI (IPSWICH) LTD.
PERMANITE LTD.
THE ROCK ASPHALTE CO., LTD.
J. TAYLOR & SONS (ASPHALTERS) LTD.
UNITY ASPHALT (LONDON) LTD.

For full information about N.A.M.A. and free technical advice on asphalt for Building apply to the Secretary:

NATIONAL ASSOCIATION OF MASTER ASPHALTERS, 9 CLARGES STREET LONDON W1
TELEPHONE: GROSVENOR 5333 ESTABLISHED 1933



this
NEW
boiler
gives **MAXIMUM OUTPUT**
and takes **LESS SPACE** to do it



OIL FIRED BOILERS

SAVES SPACE · STRUCTURE · CAPITAL

Less area required for boiler rooms. Smaller Chimney.

Minimum weight eliminates expensive construction. Cross section of chimney 70% less than usual.

Building costs reduced. Lower running costs. More available working or living space for given site area.

Manufactured by W. G. ALLEN & SONS (Tipton) LTD. under licence from YGNIS LTD. LUCERNE

SOLE
CONCESSIONAIRES

FLEXAIRE

Bulletin A.Y.10 giving dimensions
and specifications will be sent on
request.

LIMITED 268-270 VAUXHALL BRIDGE ROAD, LONDON S.W.1 VICTORIA 2006/8

A MEMBER OF THE W. G. ALLEN & SONS (TIPTON) LTD. GROUP OF COMPANIES

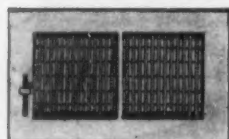


NO PIPES, NO RADIATORS IN THIS **BAXI-OIL** HOUSE

WARM AIR CENTRAL HEATING SYSTEM

If there were a radiator behind these curtains, you'd see its outline. Then you'd think about all the heat channelled uselessly up to the ceiling or out of the window.

But in a BAXI-OIL house, this can't happen. For there are no radiators. No pipes, either. Nothing to leak, nothing to suffer frost damage, nothing to get in the way of furnishing and decoration. Just wonderful whole-house warmth; fresh, lively warmth with never a hint of stuffiness.



This grille—flush-fitted in wall or ceiling—is the only visible part of the BAXI-OIL system.

THE BAXI-OIL WARM AIR CENTRAL HEATING SYSTEM FILLS THE HOUSE WITH WARM, FRESH AIR—NOT WITH PIPES OR RADIATORS.

... and for cosy, open-fire comfort



The BAXI Patent Fire is ideal for adding the comfort and companionship of an open fire to a centrally heated home—for the BAXI is as easy to run as central heating itself.



FREE,

comprehensive brochures give full details of both BAXI-OIL and the BAXI Patent

Fire. Use enquiry service or write to:
BAXI (AJ/7) CHORLEY, Lancashire
Telephone: Chorley 2808 (3 lines)

TECHNICAL SUMMARY

Air, directly heated in a compact 32,000 B.t.u./hr. heat exchanger, is ducted to adjustable grilles, up to eight in number and unobtrusively flush-fitted in ceilings or walls. The heat exchanger need occupy no living floor space. It can be installed in a cupboard 25in. by 25in. or placed in a garage or outhouse. A 8,000 B.t.u./hr. boiler, mounted on the heat exchanger base plate but functionally independent of it, eliminates the wasteful practice of running a central heating boiler below its economic output for summer hot water.

- ★ **No leaks**—because there is no water in the heating system
- ★ **Constant freshness**—air is recycled about three times an hour
- ★ **Cool in summer**—fan system can circulate unheated air
- ★ **Selective heating**—all grilles continuously adjustable
- ★ **Easy maintenance**—fan is only moving part
- ★ **Easy installation**—bends in lightweight ducting can be fabricated on site
- ★ **Attractive price**—£200-£250 retail, if installed during building



when a flush door attracts

ten
to
one it's
a

Leaderflush

BRITAIN'S FINEST FLUSH DOOR

There is a quality in LEADERFLUSH Flush Doors which is unmistakable. It is a quality which is not only apparent on the surface but which goes right through. LEADERFLUSH Flush Doors are made for long, lasting service, always stable always good to look at. Site finishing is reduced to a minimum (doors specified for varnish, lacquer or polish are 'VELVET-SEAL'ed, only one coat of finishing agent is then required). Maintenance costs are non-existent. The quality is right, the price is right.

*Architects and Builders
are requested to send
for quotations and
also to make use of
our advisory service*

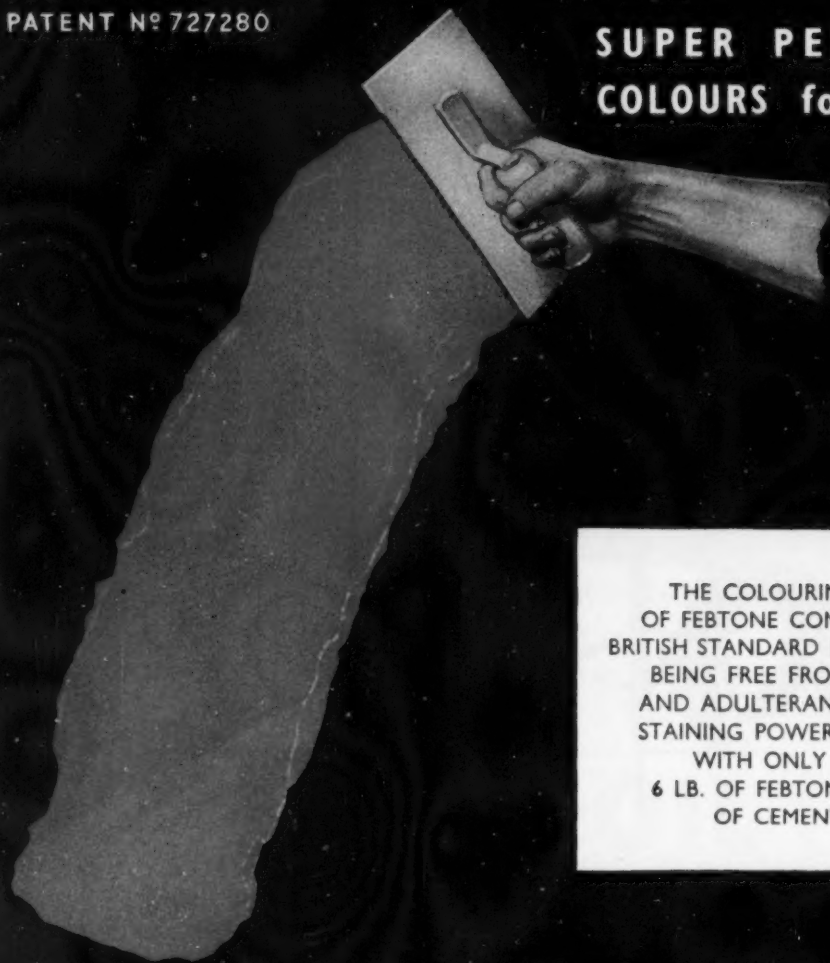
LEADERFLUSH (Doors) LTD, TROWELL, NOTTINGHAM. Telephone: Ilkeston 4111 (6 lines)

LONDON OFFICE: BUSH HOUSE, ALDWYCH, LONDON W.C.2 Tel: COVent Garden 2243

FEBTONE

PATENT N° 727280

**SUPER PERMANENT
COLOURS for CEMENT**



THE COLOURING MATTER
OF FEBTONE CONFORMS WITH
BRITISH STANDARD 1014-1942, TYPE A.
BEING FREE FROM IMPURITIES
AND ADULTERANTS, MAXIMUM
STAINING POWER IS OBTAINED
WITH ONLY 3 LB. TO
6 LB. OF FEBTONE PER CWT.
OF CEMENT USED

FEBTONE IS SUPPLIED IN 6 LB. CARTONS, EACH CARTON CONTAINING
TWO 3 LB. PACKETS—ONE OR TWO 3 LB. PACKETS BEING USED PER
CWT. OF CEMENT ACCORDING TO THE SHADE REQUIRED. THUS
THERE IS NO WEIGHING OR MEASURING OUT, AND AS FEBTONE
HAS A SELF-MIXING ACTION, NO CHANGE FROM NORMAL MIXING
PROCEDURE IS NECESSARY.

USED FOR COLOURING CONCRETE AND CEMENT WORK
FEBTONE ALSO—

PLASTICISES • WATERPROOFS • FLOOR HARDENS • RAPID HARDENS
AND INCREASES
COMPRESSIVE AND TENSILE STRENGTHS

**Write for
Technical Brochure**

102 KENSINGTON HIGH STREET
LONDON, W.8 Phone: WES 0444



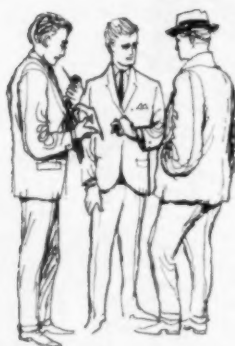
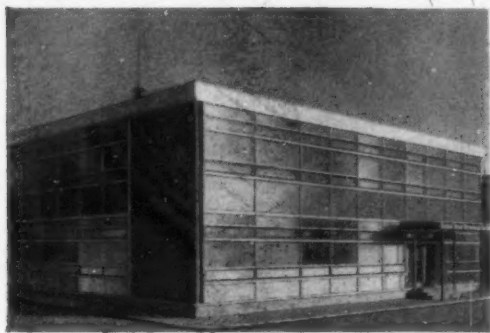
(GREAT BRITAIN) LTD

ALBANY ROAD, CHORLTON-CUM-HARDY
MANCHESTER, 21 CHO 1063

**A SIGNIFICANT
ADVANCE
IN NEW BUILDING
TECHNIQUES**

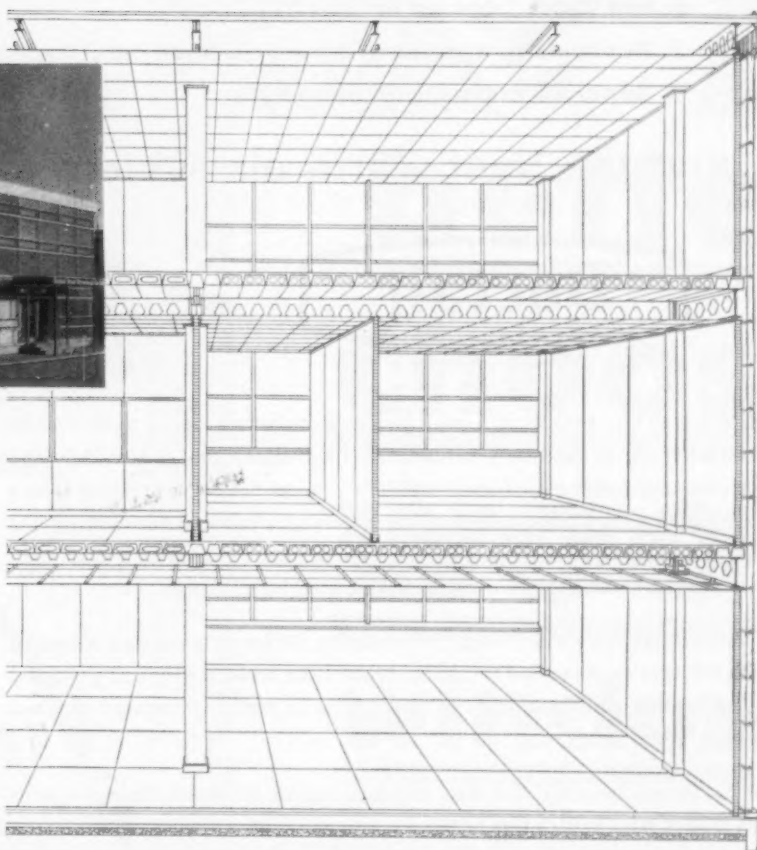
The ARCON MULTIFORM is the latest addition to a wide range of simplified methods of construction using standardized components. This type of building, with planning grid of 4' 0" is designed for buildings up to four storeys high and is suitable for flats, schools, office-blocks, hospitals and hotels. Full specification brochure available on request.

ARCON MULTIFORM



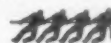
THE OWNER
THE ARCHITECT
THE BUILDER

ALL AGREE . . .



SIMPLIFIES BUILDING

TAYLOR WOODROW (ARCON) LIMITED
41 WELBECK STREET · W1 · TEL: HUN 6666



*The sponsor companies forming the Arcon Group are: IMPERIAL CHEMICAL INDUSTRIES LTD · STEWARTS AND LLOYDS LTD
THE UNITED STEEL COMPANIES LTD · THE CRITTALL MANUFACTURING CO. LTD · TAYLOR WOODROW (ARCON) LTD*

Warm air heating for MULTI-STOREY FLATS

has these advantages:-

- * Low plumbing and installation costs
- * Moderate capital outlay
- * Very low operating costs
- * Hot water "thrown in"
- * Separate temperature control to each flat
- * Separate metering to each flat

...and the best warm air system is

Ductair

The DUCTAIR 22 unit consists of a small insulated cabinet containing a water-to-air heat exchanger and an electrically driven fan. In multi-storey flats the heat exchanger may be connected either to individual CIRCULYN C.70 gas heaters or to piping from a central boiler system. The gas heater can be fitted with a balanced flue or connected to a Se-duct. Space and water heating services can be metered for each flat even when the DUCTAIR heat exchangers are connected to a central boiler system.

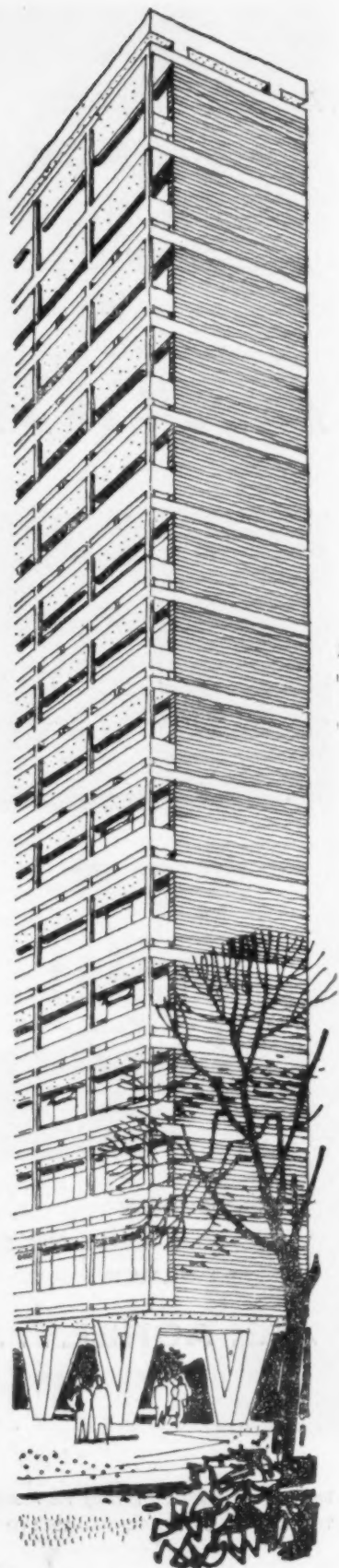
Costs naturally vary widely with the installation. However, assuming a 600 sq. ft. flat with 8 ft. ceilings the capital cost would probably be between £165 and £180, and the operating cost with gas at 13d. to 21d. per therm would be between 10/- and 16/- a week.

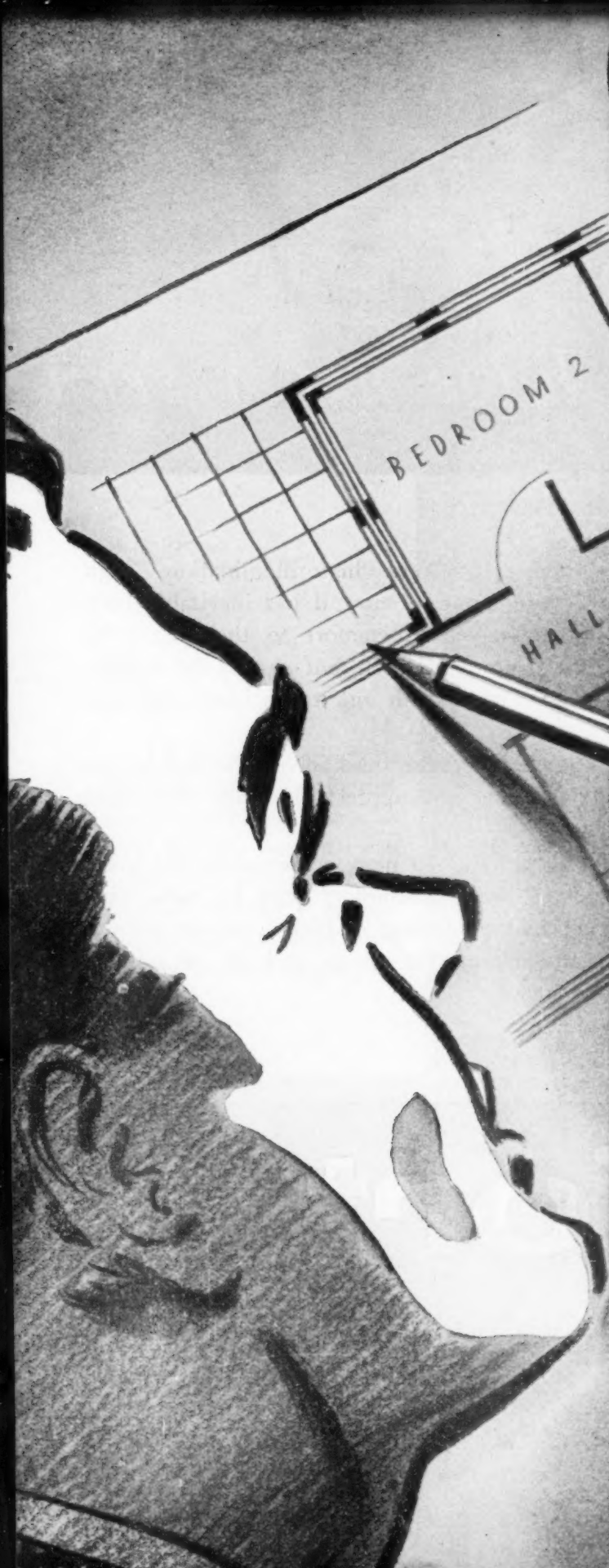
It has already been said that these low costs include hot water. Perhaps a point of even greater value in high flats is the ease with which the warm air can be used to provide a drying cupboard to cope with all the wash.

Write for data sheets and full technical information about Radiation DUCTAIR—the system that pioneered domestic warm air heating in this country. With our ten years' working experience we believe we have a unique service to offer anyone concerned with better heating for better buildings.

WRITE TO:

BRATT COLBRAN LIMITED • 10 MORTIMER STREET • LONDON, W.1 A Radiation COMPANY





better choose WOOD windows

Wood windows are ideal in every way for Houses, Flats, Schools, Hospitals, Offices, Factories. Wood is functional, lasting, economical to install and maintain, and provides maximum flexibility of expression. Furthermore, wood windows reduce heat losses, sound transmission, condensation. Remember, too, with wood windows you are ensured a quick delivery. Advice on wood windows suitable for all types of buildings gladly given to all architects and surveyors.

THE ENGLISH JOINERY MANUFACTURERS' ASSOCIATION (INCORPORATED)

(with which is associated the Scottish Joinery and Door Manufacturers' Association)

SACKVILLE HOUSE • 40 PICCADILLY • LONDON, W.1

Telephone: REGENT 4448/9

cm/ev/s

You'll be glad you chose WOOD windows!

you have never seen

The trend in lighting today is towards high illumination. High illumination is an excellent thing in itself, but until now it has inevitably been accompanied by excessive glare with consequent discomfort to the eyes. This discomfort glare, caused not only by the light source itself, but also by the fittings, results in the increased light becoming instead of an aid to efficiency, the very reverse, an actual distraction.

Look at the picture. The office is more than adequately lighted, yet the light fittings themselves are not emitting any appreciable glare. The light source is, in fact, *unobtrusive*.

This is G.E.C. comfort in lighting—a new technique in which the G.E.C. has gone a long way towards removing discomfort glare by using high illumination in conjunction with low brightness fittings of high luminous output, sometimes called “dark” fittings because by correct design and use of suitable materials, they actually appear to be dark.

comfort in

high-level illumination without discomfort glare

lighting like this before ...

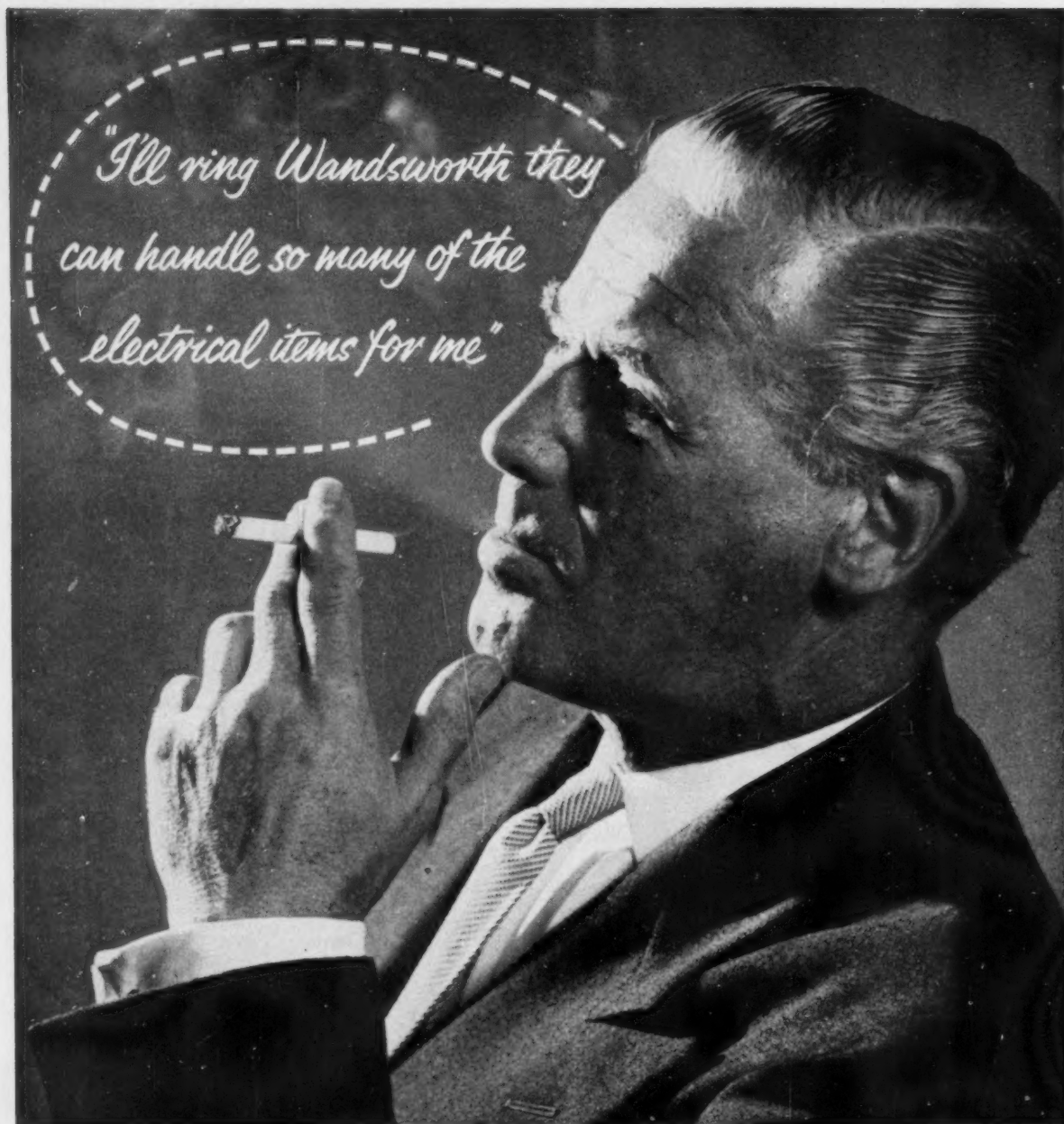
You have never seen lighting like this before and no advertisement can hope to make clear to you its remarkable superiority over conventional methods. It takes 40 pages of a new G.E.C. publication No. F4695, to do this, and a copy will be sent to you on request.



lighting

G.E.C.
LIGHTING DIVISION

THE GENERAL ELECTRIC CO. LTD.,
MAGNET HOUSE, KINGSWAY, LONDON, W.C.2



AT THE ELECTRICAL specification stage of planning it is reassuring to know that the Wandsworth representatives can help to decide so many details at one briefing.

Is the task a hospital with special bedhead units, and with the tricky problem of sparkless switches for operating theatres?—is it a school where robustness and reliability are paramount?—are incinerators for surgical or hygienic disposal a part of your problem?

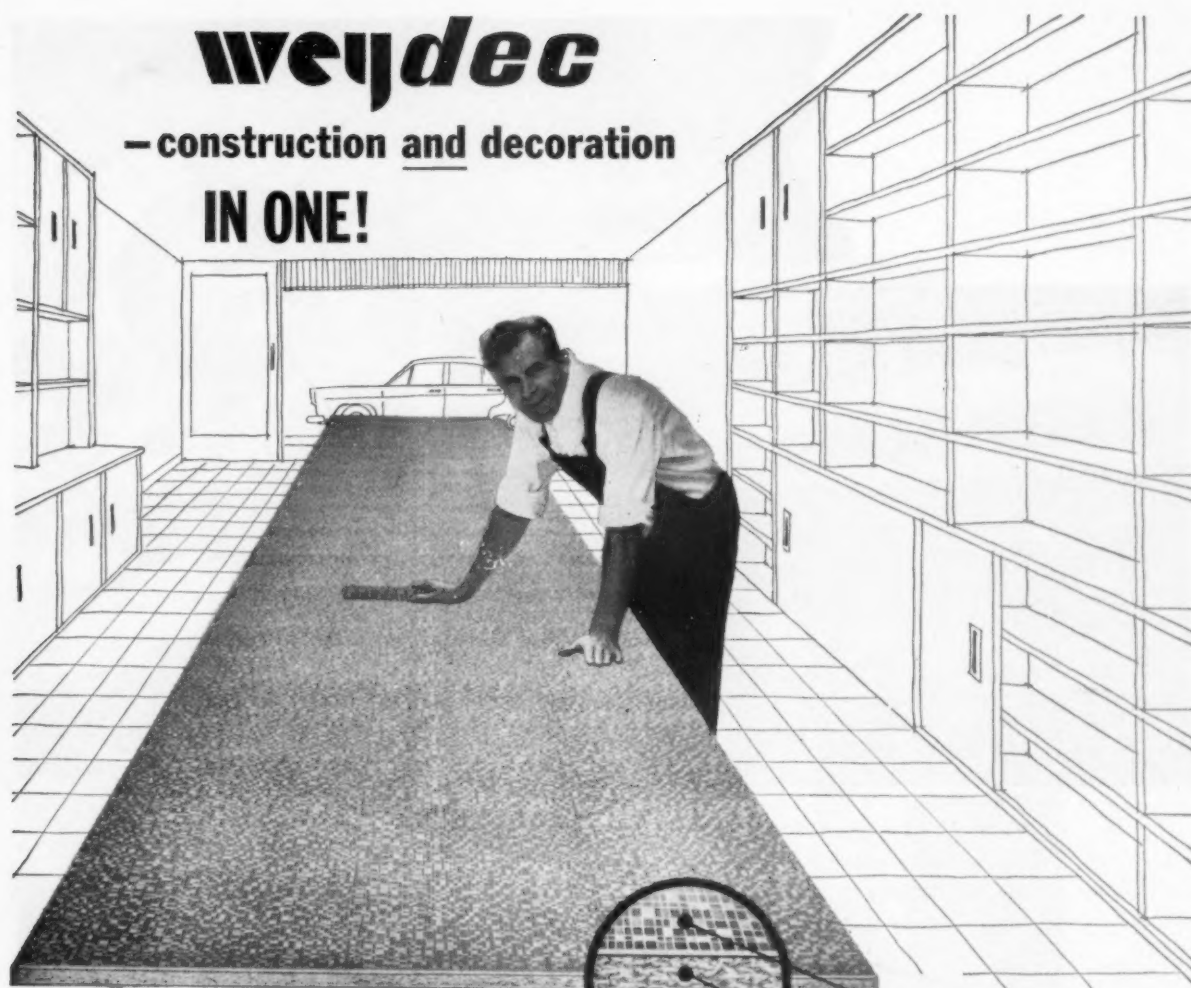
All these and many other question marks can be erased by the Wandsworth representatives. Whether you are concerned with getting the right equipment for a specialist job or wish to be certain of the quality of units needed for a huge contract you can safely leave it to the experience and resources of Wandsworth.

Write for the Wandsworth catalogues which contain hundreds of products needed in electrical planning today.

Wandsworth

THE WANDSWORTH ELECTRICAL MANUFACTURING
COMPANY LIMITED

(Dept. AJ31) Albert Drive · Sheerwater · Woking · Surrey
Telephone: Woking 3708



weydec

— construction and decoration
IN ONE!

*This design is one of the
Weydec surfaces.*

*The Weyroc core
($\frac{1}{2}$ " or $\frac{3}{4}$ " nominal).*

*Non-decorative plastic
balancer on reverse face.*

No wonder Architects, Shop-Fitters and Builders are so enthusiastic about using WEYDEC. These cost-cutting boards—with their colourful plastic surface *factory-bonded* to a core of famous Weyroc wood chipboard—are *constructional and decorative at one and the same time!* A ready-bonded plastic-surfaced material like this costs less than buying the board and surface separately, so WEYDEC saves money. And, by doing away with complicated gluing, WEYDEC saves on time and labour, too. Whatever plastic-surfaced unit you want to specify or make in hard-wearing WEYDEC, you'll find the choice of colours and patterns can be considerably varied outside the standard range. Ask your WEYDEC Distributor for full details—*today!*

CUT COSTS WITH

weydec

MELAMINE SURFACED WEYROC

Write for free sample to: THE AIRSCREW COMPANY & JICWOOD LTD • DEPT. A • WEYBRIDGE • SURREY
W.P.S. 20

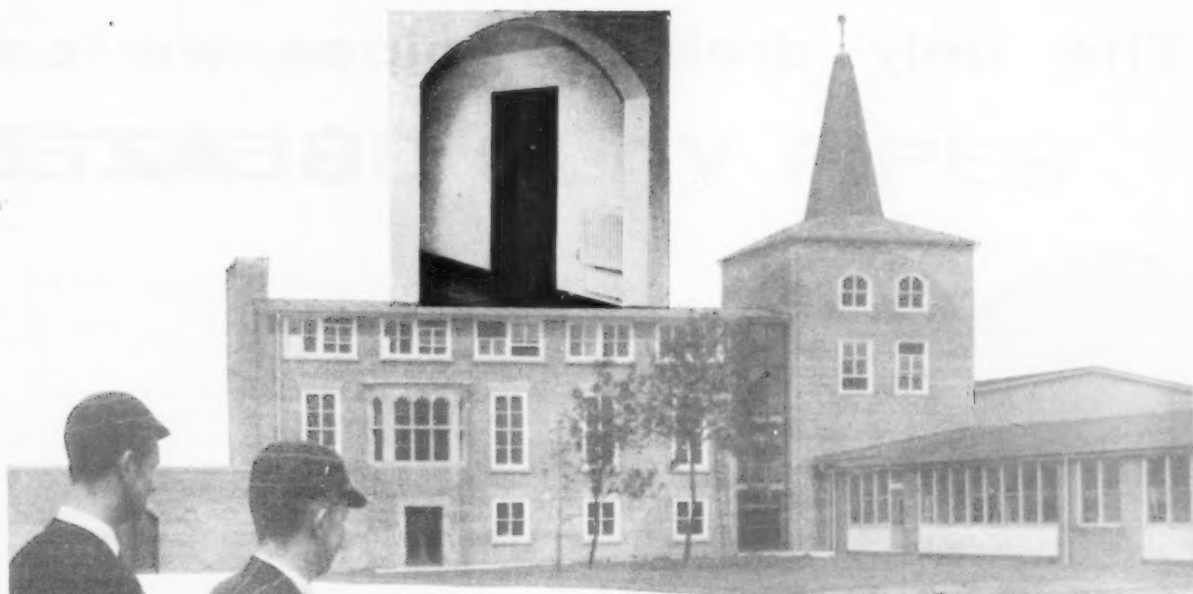


*DOUBLE BAY WAREHOUSE
Each Bay 100 ft. wide
using Portal Trusses
to give maximum headroom*

IS SPACE *Your Problem*

- Single clear spans 40ft. to 150ft.
in 5 ft. increments or multispan
- Mass produced for competitive price
- Prices by return
- Guaranteed completion dates
- Send for brochure

WARD BROTHERS (Sherburn) LTD. Allison Works, SHERBURN, MALTON, Yorks.
Telephones and Telegrams Sherburn 355 and 356

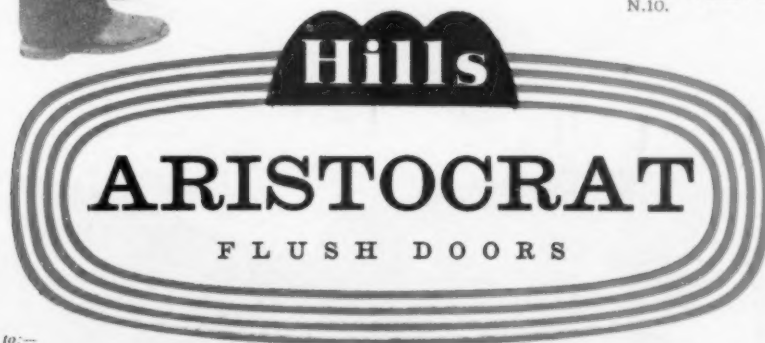


'Aristocrat' doors— a tradition

Old institutions—great traditions. New buildings—new schools of thought. But Hills "Aristocrat" Flush Doors are appropriate to traditional or contemporary styles of building, made to the dimensions specified by you, and skilfully match-veneered with the veneers of your choice. For all public buildings of distinction it is traditional that discerning architects choose Hills "Aristocrat".



Photographs by courtesy of:—The Head Master, The King's School, Chester.
Architect—
Donald H. McMorran, A.R.A., F.R.I.B.A.
14 North Audley Street, London W.1.
Contractor—
H. Fairweather & Co. Ltd.,
Hyde Works, St. James Lane, London N.10.



For full details write to:—

F. HILLS & SONS LIMITED NORTON ROAD STOCKTON-ON-TEES • Telephone: 67141
LONDON OFFICE: WINDSOR HOUSE KINGSWAY LONDON WC2 • Telephone: CHAncery 9251
Telex in operation at both offices

P5218

We cannot take risks!
The only drainage pipes we can
GLAZED



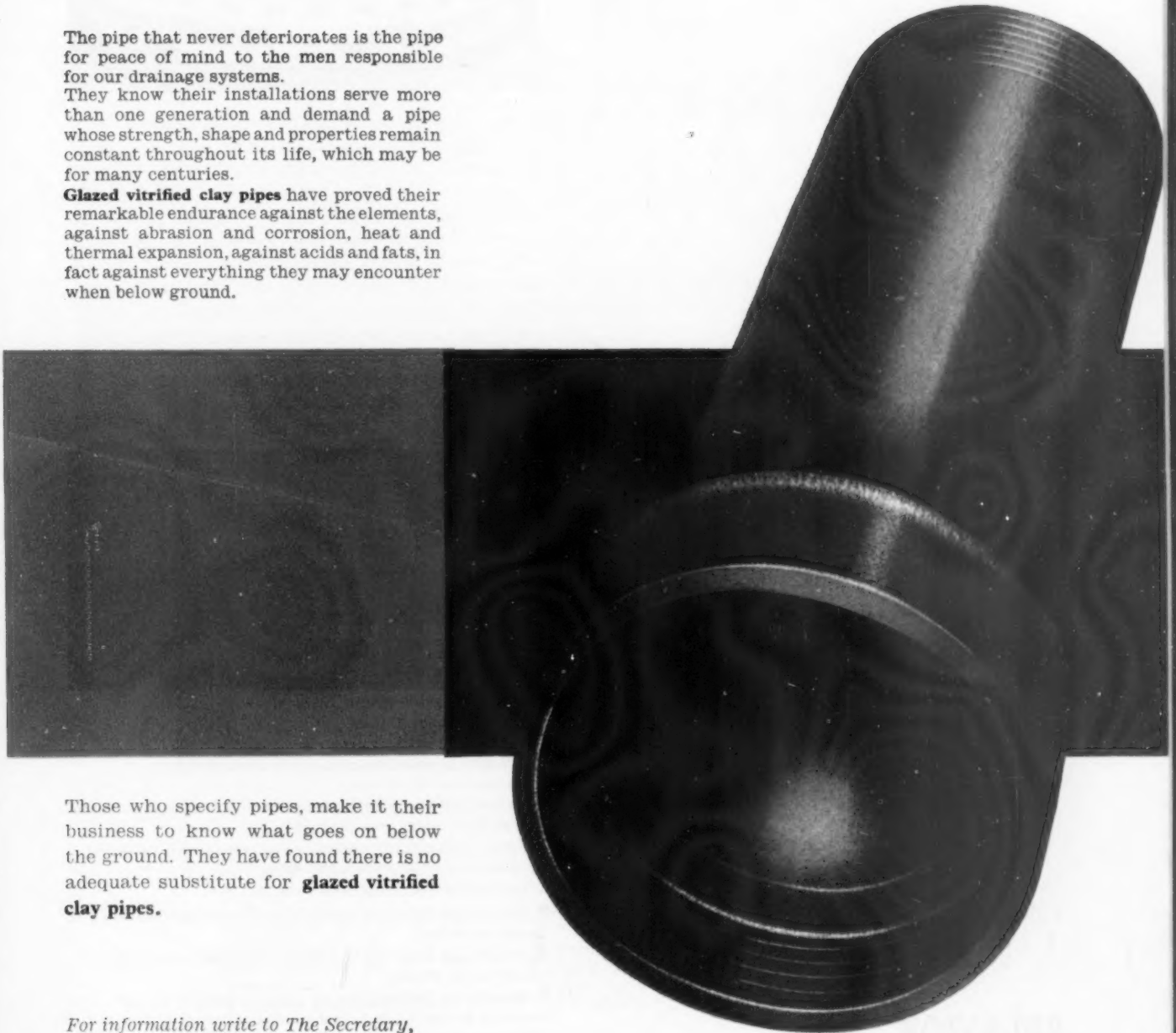
**says the Drainage Engineer,
really trust are . . .**

VITRIFIED CLAY PIPES

The pipe that never deteriorates is the pipe for peace of mind to the men responsible for our drainage systems.

They know their installations serve more than one generation and demand a pipe whose strength, shape and properties remain constant throughout its life, which may be for many centuries.

Glazed vitrified clay pipes have proved their remarkable endurance against the elements, against abrasion and corrosion, heat and thermal expansion, against acids and fats, in fact against everything they may encounter when below ground.



Those who specify pipes, make it their business to know what goes on below the ground. They have found there is no adequate substitute for **glazed vitrified clay pipes**.

For information write to The Secretary,

THE NATIONAL SALT GLAZED PIPE MANUFACTURERS' ASSOCIATION

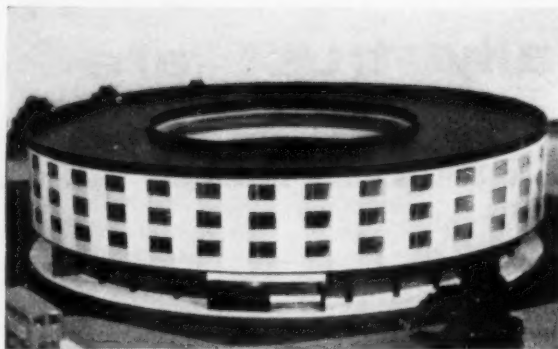
Hanover Court, Hanover Square,

LONDON W.1.

Telephone : MAYfair 0364



New
BRI-NYLON
Shildon
for the new
Ariel Hotel



Britain's first circular hotel is new in concept and a showroom of ideas and new materials.

Outstanding among these is BRI-NYLON SHILDON floor-covering—softer, more luxurious and longer lasting than any conventional carpet. BRI-NYLON SHILDON consists of closely-woven nylon fibres, giving a short, tough glossy pile, built on to a foam rubber underlay. SHILDON'S built-in underlay insulates against sound and damp and ensures longer, harder wear than any traditional carpet. The many lustrous, nylon-fast colours give a wide range of designs, and after many years of wear, BRI-NYLON SHILDON floor-covering looks as fresh and new as the day it was laid.

100% BRI-NYLON FOR LONG WEAR

PURE FOAM RUBBER FOR DEEP LUXURIOUS TREAD

Why the designer chose Bri-Nylon Shildon

- BRI-NYLON SHILDON outwears all ordinary carpets—replacement costs disappear.
- BRI-NYLON SHILDON has deep luxurious tread, because it has its own foam-rubber underlay built-in.
- BRI-NYLON SHILDON defies stains, including tea, coffee and food stains; even ink washes off readily.
- BRI-NYLON SHILDON never fluffs.
- BRI-NYLON SHILDON colours are nylon-fast, the lustrous beauty permanent.
- BRI-NYLON SHILDON is moth-proof and damp-resisting and impervious to mildew.
- BRI-NYLON SHILDON has no laying problems at all. Our Advisory Service is free to your usual suppliers, or Shildon can arrange to measure, make and fit on a nation-wide basis.

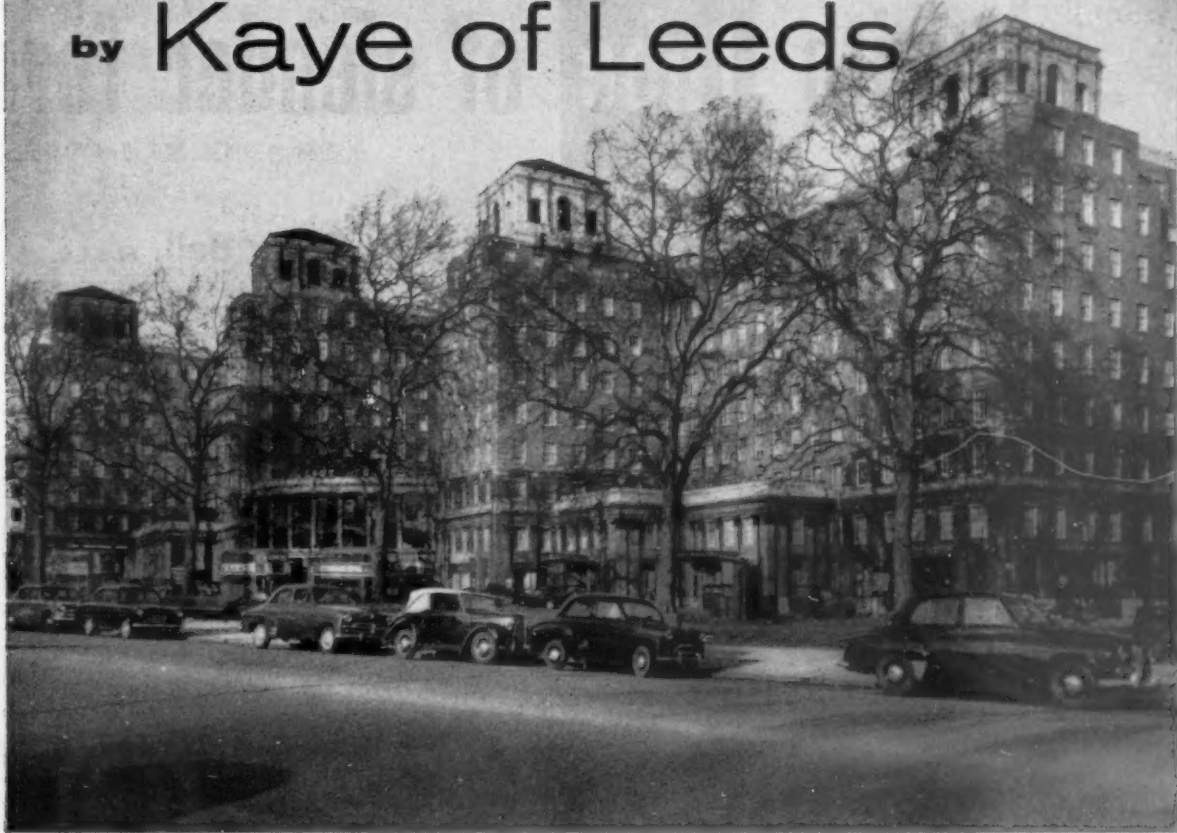
Architects to the Ariel Hotel: Russell Diplock Associates; Consultants, F. L. Wills & Son

Bedroom Interior Design: Russell Diplock Associates in conjunction with J. Marshall F.I.B.D.

BRI-NYLON
Shildon
THE NEW, MODERN FLOOR-COVERING

SHILDON, 60 BERNERS STREET, LONDON, W.1. Tel: LAngham 0471 BRI-NYLON is the Regd. Trade Mark of British Nylon Spinners Ltd.

1,000 rooms, 1,020 locks and 3,084 keys by Kaye of Leeds



Grosvenor House's requirements for locks with master, sub-master and servant keys were satisfactorily fulfilled by Joseph Kaye & Sons Ltd. Specify Kaye Locks and Door Furniture for quality finish and robust traditional craftsmanship. They have nearly a century's experience behind them.

FOR EVERY APPLICATION

- Hotel Locks
- Mortice Locks
- Sliding Door Locks
- Emergency Door Fittings
- Padlocks
- Latches
- Rim Locks
- Cupboard Locks
- Stabilisers
- Drawer and Desk Locks

TECHNICAL PERFECTION

- 4 Lever Locks
- 750 Differs off Levers
- Differs from Levers and Wards are almost unlimited
- Followers are of hard resistant Brass
- Forends are of hard resistant Brass
- Phosphor Bronze Springs to Levers
- The 'K' design, four lever Lock is for greater security
- The Locks can be made in suites with Sub-master and Master Keys



Illustrated literature is available on request

Joseph Kaye & Sons Ltd.,

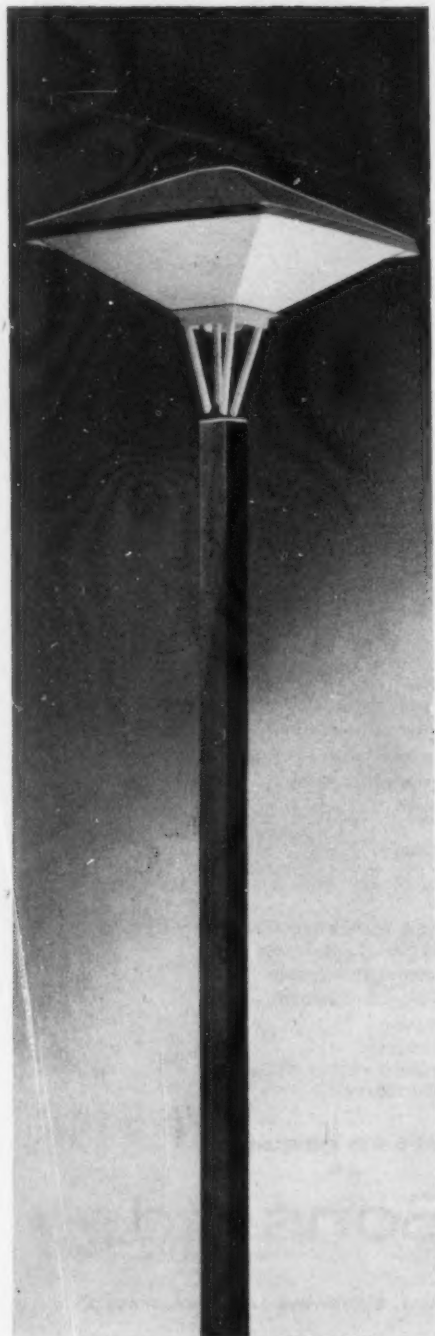
Established 1864

Lock Works, Leeds 10. Telephone : 20887

London Office : 1-5, New Bond Street, London W.1. Telephone : HYDe Park 2956.

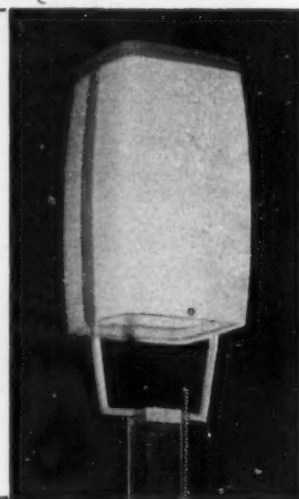
Area Lanterns new in shape with **tube** of slender form

**Two new designs by Peter Bell, M.S.I.A.
with square section steel tubes**



◀ **E 6820 for 200w Lamp**
with 24" square coral "PERSPEX"
canopy. Overall height 12 ft.

E 6810 for 200w Lamp ▶
with 11" square coral "PERSPEX"
canopy. Overall height 12 ft. 6 ins.



This illustrated leaflet giving
full specification and price
available on request ▶



Hume Atkins & Co. Ltd.

163 Victoria Street, London, S.W.1
VIC 2766/7

Works: Icknield Way, Letchworth,
Herts. Letchworth 2011/2

MCN 3487

Note the compact nature of this heavy stanchion composed of a Universal column with extremely thick flanges and web. The end of the stanchion and the slab surface are milled at our works on the latest type of end-milling machine.



Banister,

Walton

build in steel

BANISTER, WALTON & CO. LTD

STRUCTURAL STEEL ENGINEERS AND STOCKHOLDERS
MANCHESTER 17 · TRAFFORD PARK

Tel.: TRAFFORD PARK 2361

LONDON, S.E.11. · SOUTHBANK HOUSE

Tel.: RELIANCE 6786

BIRMINGHAM 18 · 61/63 WESTERN ROAD

Tel.: NORTHERN 4518

E 63

HH

SWITCH AND PLUG UNIT

Introducing a new 60-ampere 550-volt switch and plug unit capable of working continuously at full load in heavy industrial conditions.

Ask for pamphlet 1308

SPECIFICATION



SWITCH: The latest Reyrolle HH design rated at 60 amperes 550 volts and capable of making and breaking current-surges of up to 360 amperes at 0.3 P.F.



PLUG AND SOCKET: A new addition to the Reyrolle "Easigo" range for industrial duty, available for D.P., T.P., or T.P. & N. service with scraping-earth connection.



INTERLOCKS: The switch cannot be closed with the plug withdrawn or the plug removed while the switch is 'ON'.



PROTECTION: An interlocked fuse-unit can be added if required.

Other switch-and-plug units of up to 300-ampere rating are also available.

Reyrolle

A. Reyrolle & Company Limited - Hebburn - County Durham - England



Room to **EXPAND...**



Kent County Council
Visual Aids Centre, Maidstone.
Reproduced by kind permission of
E. T. ASHLEY SMITH Esq., F.R.I.B.A.
County Architect for Kent.



A reception room at Wrightington
Hospital, near Wigan.
Reproduced by kind permission
of the Management Committee.

The demountable building keeps pace with modern needs

Authorities and industries throughout the country who have to cope with rapid expansion find the answer in Hall's Demountable Buildings. Almost endless permutations of length, variety of width and partitions allow for growth as the need arises. Prefabrication saves time and money and permits easy removal from site to site, while Hall's erection service can normally offer "from foundation to occupation in six weeks". The outstandingly handsome clear grade Western Red Cedarwood of Hall's

Demountable Buildings need no paint, creosote or preservatives, so saving all maintenance costs.

Hall's expert advisory staff will be glad to discuss your particular needs. Free Brochure available on request.



Immediately available for

**OFFICES • SPORTS PAVILIONS
CANTEENS • CHURCH HALLS
HOSPITALS • CLASSROOMS
RECREATION HALLS ETC.**

* **SEE THE COLOUR FILM.** A 16 mm. 30-minute documentary colour film which shows in detail the erection sequence and the adaptability of Hall's Demountable Buildings for varying sites available on request.



HALL'S

OF PADDOCK WOOD

ROBERT H. HALL & CO. (KENT) LTD.
33 Paddock Wood, Tonbridge, Kent Phone: Paddock Wood 561

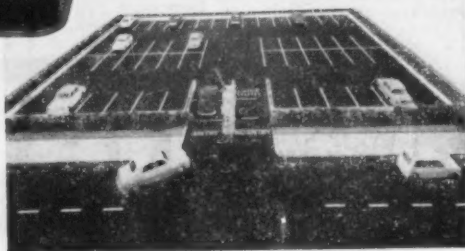
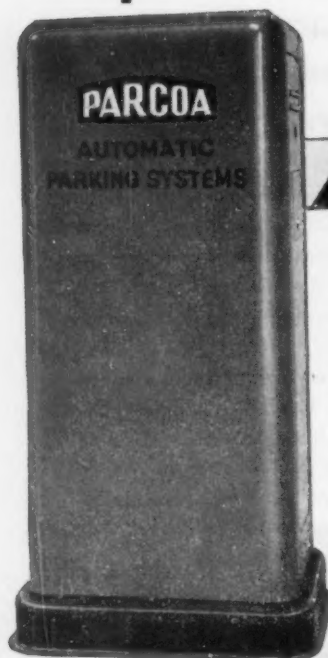
ONE OF THE AUSTIN-HALL GROUP OF COMPANIES



Where do I park this thing ?

STOP PARKING CONTROL PROBLEMS WITH

PARCOA **AUTOMATIC PARKING SYSTEMS**



PARCOA automatic parking systems provide the complete mechanical answer to trouble-free control. This well-proven system can be relied on to handle traffic smoothly, safely, efficiently and economically in *any* parking facility.

THE MAIN ADVANTAGES

CUTS OPERATING COSTS

Eliminates Payroll Expenses, Shift Working and Revenue Losses. Avoids problems of labour procurement and supervision. Amortised over a few years—costs much less than labour.

CONTROLLED CAPACITY

With PARCOA there can be no overcrowding. No customers looking for spaces that are not there.

FLEXIBLE OPERATION

Your choice of exclusive card-keys, coins, tokens, automatic ticket dispensers, or any combination to fit your specific needs.

PROTECTS REVENUE

Assures 100% collection, and includes self-locking cash vault with four-way lock.

EXCLUSIVE U.K. DISTRIBUTORS

PARKING DEVELOPMENTS LTD., 2/4, CRANMER ROAD, LONDON, S.W.9. RELiance 5192

TOUGH LAMPS FOR A TOUGH JOB—

AND NO SPECIAL WEATHER PROTECTION NEEDED



PHILIPS PRESSED GLASS LAMPS

—a simple system of all-weather illumination

Philips Pressed Glass Lamps are the outcome of a revolution in lamp-making. Thanks to their unique construction, they not only give greater directional light intensities than standard reflector lamps of equal wattage: they can also be used in all weathers without special protection. In fact, for all floodlighting jobs these new Pressed Glass Lamps from Philips offer new standards of illumination, greater simplicity, and economy of operation.

For full specification and details of how Philips Pressed Glass Lamps can give low-cost, high-efficiency floodlighting, please complete and post the coupon below:



150 watt Spotlamp



150 watt Floodlamp



To: Philips Electrical Ltd.,
Lamp & Lighting Group,
Century Hse., Shaftesbury
Avenue, London, W.C.2.

Please send me full information
about Philips Pressed
Glass Lamps.

Name

Company

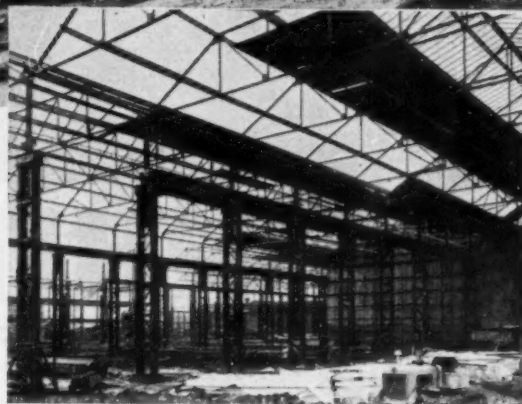
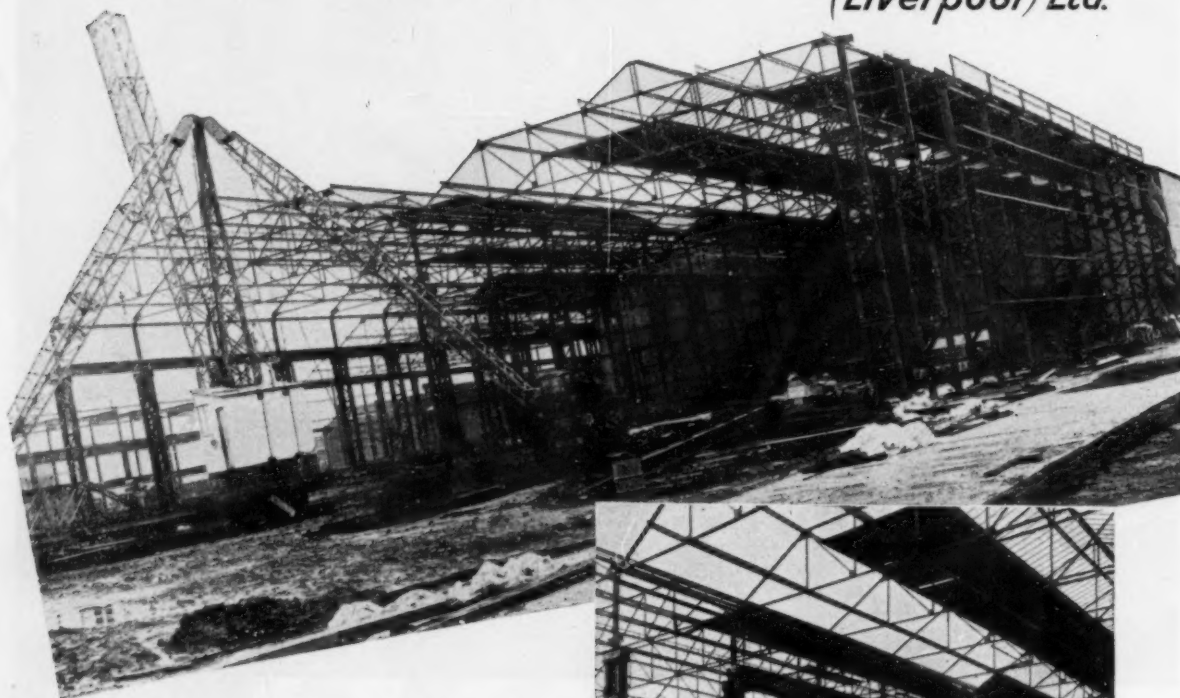
Address

PHILIPS

LEAD THE WORLD IN LIGHTING

PAJ/5

NEW Press Shop for Messrs. STANDARD-TRIUMPH (Liverpool) Ltd.



Steel framed building for Messrs. Standard-Triumph (Liverpool) Ltd., Edwards Lane, Speke, Liverpool.

Comprising one bay 84 ft. span x 360 ft. long; two bays 84 ft. span x 540 ft. long; one bay 100 ft. span x 540 ft. long including basement (for press floor beds and boiler pit) of two spans 84 ft. x 240 ft. long and one span 100 ft. x 100 ft. long and a mezzanine first floor 100 ft. span x 280 ft. long.

Each 84 ft. span bay fitted with gantries for 15 ton E.O.T. Cranes. Height of building to eaves 37 ft. 6 ins.

Also annexe building 320 ft. long and 36 ft. high comprising three floors; and boiler house 80 ft. long x 40 ft. wide x 22 ft. high.

CLIENT: The Industrial Estates Management Corporation for England, Western Division, Exchange Buildings, Derby House, Chapel St., LIVERPOOL 2.

QUANTITY SURVEYORS: Franklin & Andrews, 173-175 Fleet St., London, E.C.4.

CONSULTANTS: Standard-Triumph Group Services Ltd., Fletchamstead, COVENTRY.

BUILDING SURVEYOR: G. L. Goulden Esq., A.M.Inst.C.E., A.M.I.Struct.E., A.M.I.Mun.E., Reg. Architect, Liverpool City Building Surveyor, LIVERPOOL.

EXECUTIVE ARCHITECTS: Hellburg & Harris, F.F.R.I.B.A., Chartered Architects, 13 Queen Victoria Rd., COVENTRY.

MAIN CONTRACTORS: Sir Alfred McAlpine & Son Ltd., Hooton, Little Sutton, Wirral, CHESHIRE.

2,620 tons of steelwork being fabricated and erected

by

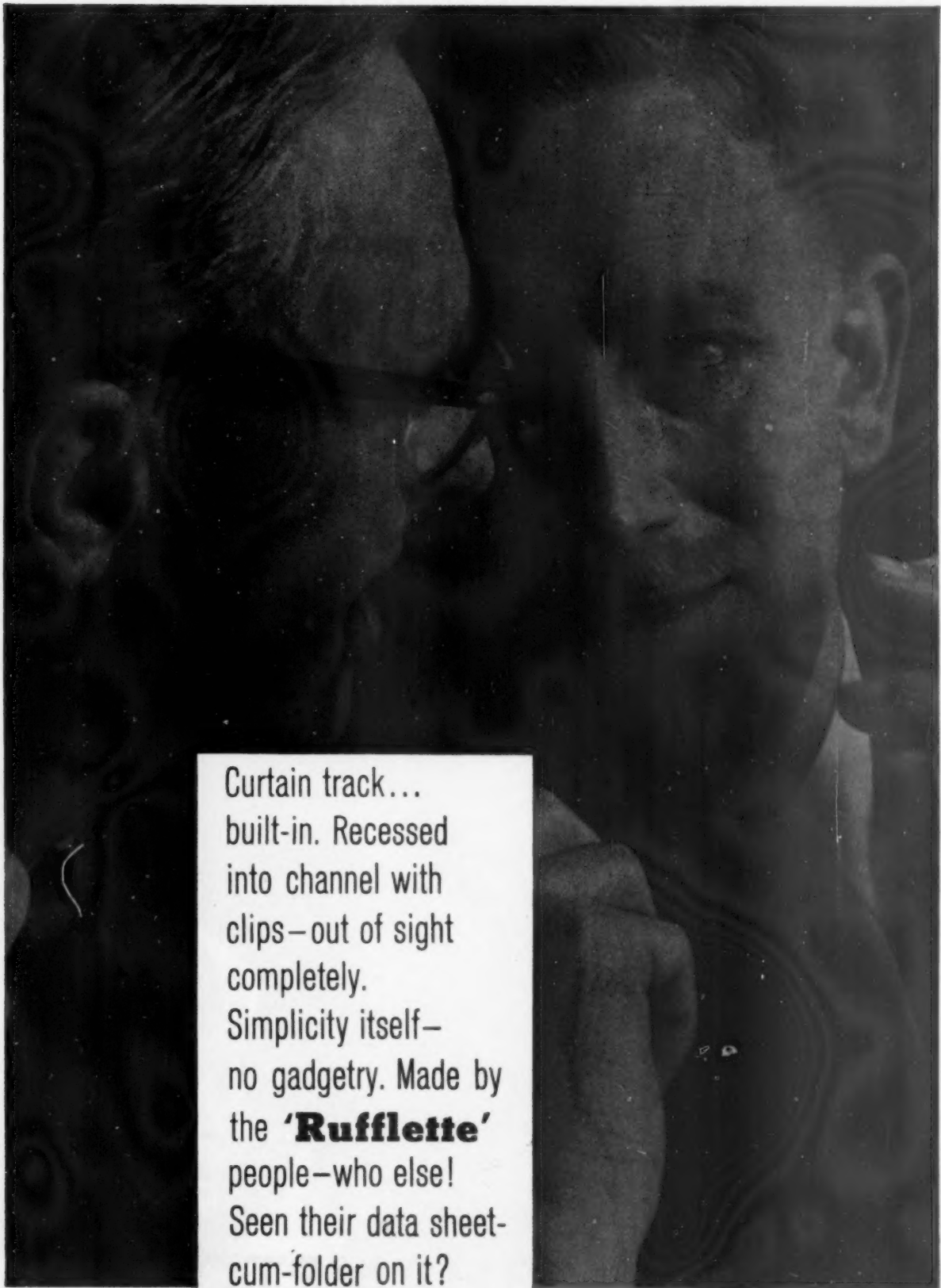
RUBERY OWEN

RUBERY OWEN & CO. LTD.

STRUCTURAL DIVISION, P.O. BOX 10, DARLASTON, WEDNESBURY, STAFFS.

Technical Bureaux: London, Birmingham, Coventry, Southampton

Member of the Owen Organisation



Curtain track...
built-in. Recessed
into channel with
clips—out of sight
completely.
Simplicity itself—
no gadgetry. Made by
the '**Rufflette**'
people—who else!
Seen their data sheet-
cum-folder on it?

'Rufflette' has the right ideas on curtain suspension

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

T.K.106.

COSELEY

buildings

WOLVERHAMPTON

COSELEY BUILDINGS LTD., LANESFIELD, WOLVERHAMPTON, Tel: BILSTON 41927

Do they cut them to different lengths then?

Oh yes, we roll them by the mile as you can see,
but this particular section becomes the top boom of
one of our nailable joists so it will be cut to a
definite joist length. Metsec joists can be made in
any length the builder needs, right up to 60 ft. or more.
Fill in the coupon for your copy of our
comprehensive nailable open web joists catalogue.

METAL SECTIONS LTD



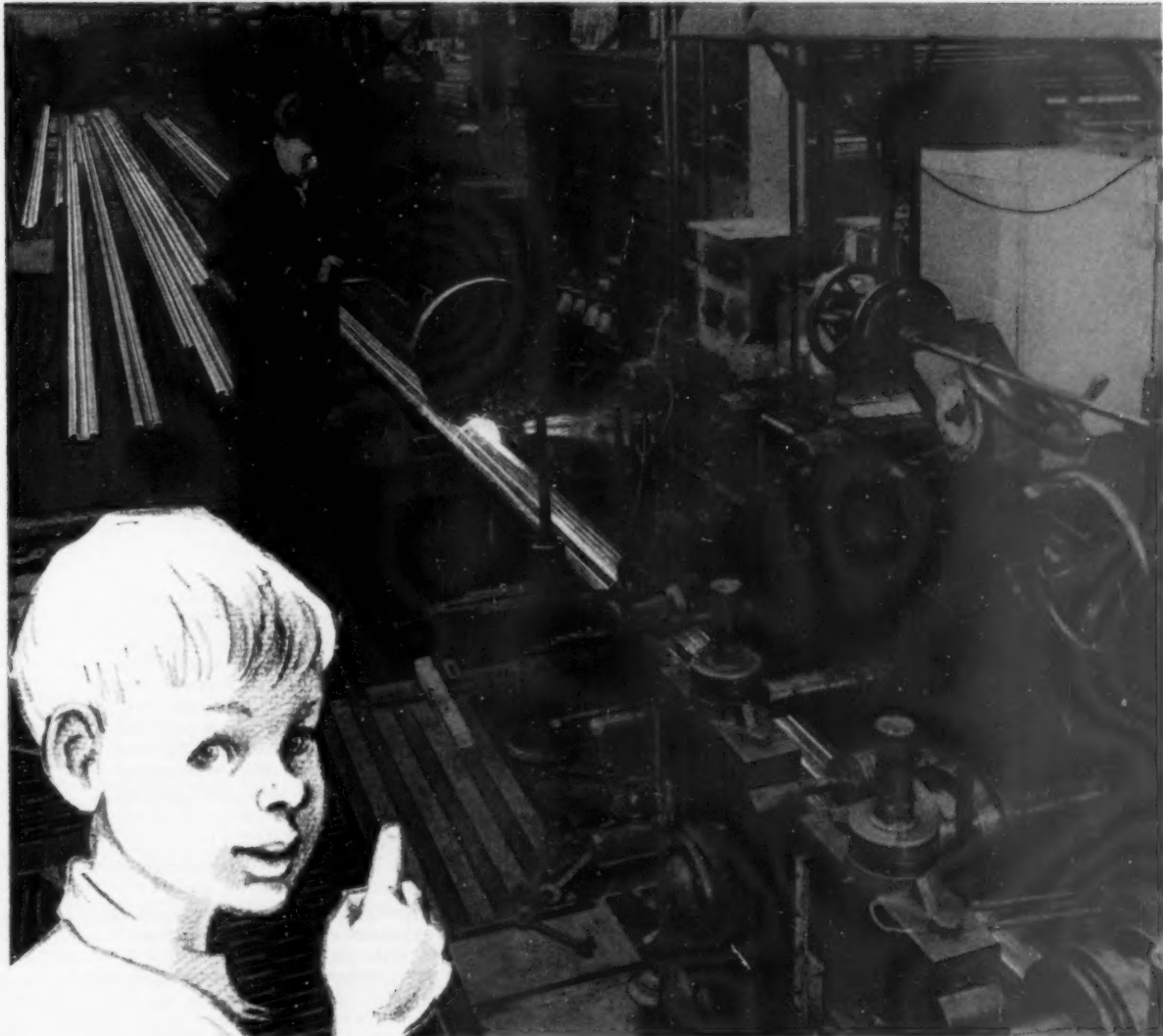
OLDBURY • BIRMINGHAM Tel: BROadwell 1541

- ☐ Please send me Joists Catalogue
☐ I am also interested in your publication on
DIFULITE Cellular Sub-ceilings.

Name _____

Position _____

Company Address _____





"Your call to
CMC, Sir!"

“He’s a pleasure to work for now, and I’m sure it’s because he’s dealing with Blue Circle. Take this call to their technical department for instance. He’d never been able to get such helpful service so fast from any other firm. He says there isn’t much they don’t know about cement up at Blue Circle. I’m no judge of that but I’m glad they know how to keep all their customers happy!”

The Blue Circle group of companies spends over £350,000 annually on research alone. Theirs is one of the most advanced and best equipped laboratories in the world. They have geologists, physicists, engineers and chemists investigating raw materials, plant operation, cements of all possible kinds and other products based on cement. The effect of all this is that there aren't many cement problems for which they can't give an answer.

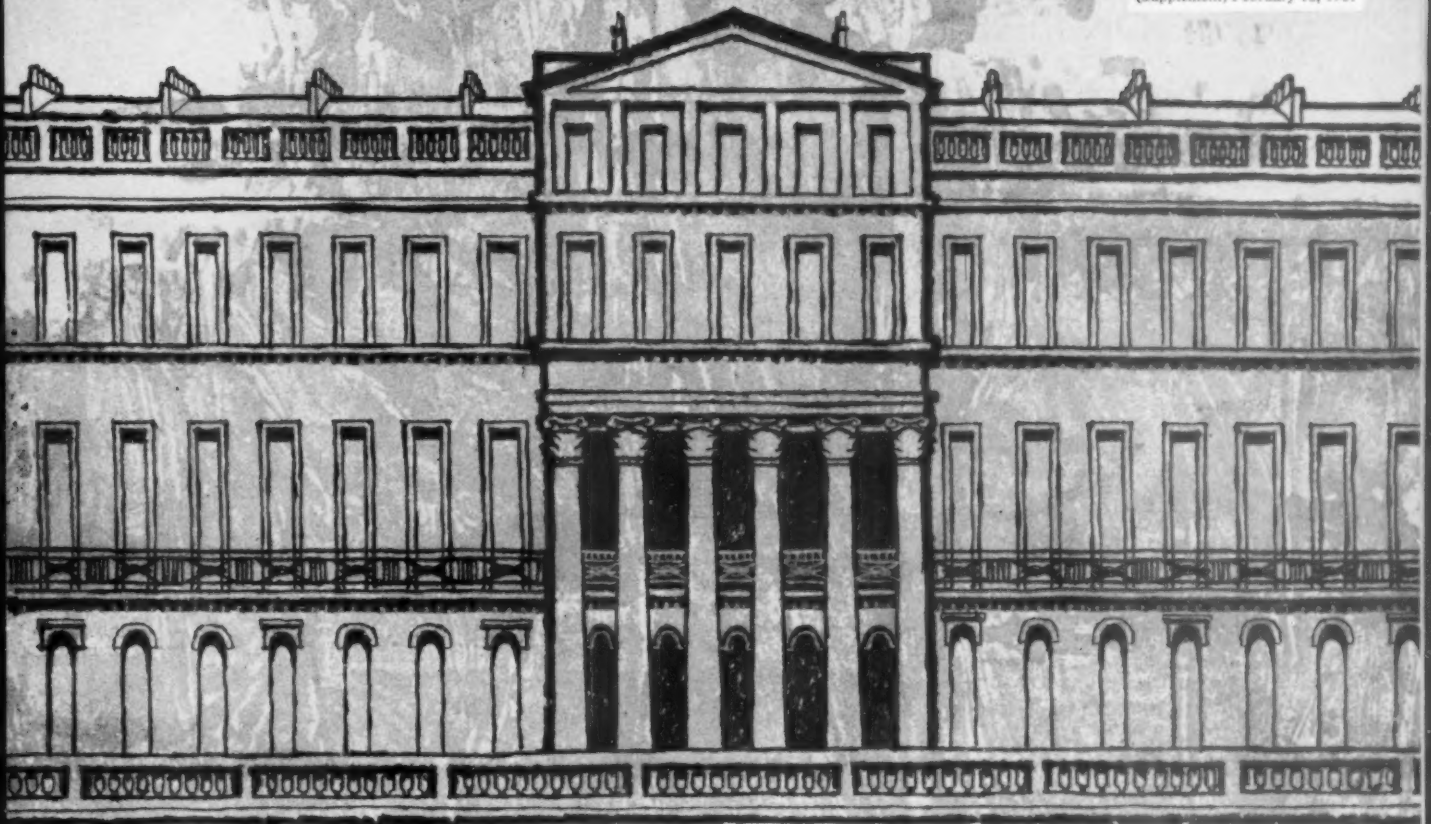
See **CMC** about Cement!

Make use of our technical service. For all information please write to:

THE CEMENT MARKETING COMPANY LIMITED, PORTLAND HOUSE,
TOTHILL STREET, LONDON, SW1 • Telephone: ABBey 3456

G. & T. EARLE LIMITED, HULL • Telephone: HULL 26121

Selling Organisations of the Associated Portland Cement Manufacturers Ltd.



John Nash - Architect to the Regency

Portraits of John Nash depict him as snub-nosed and proletarian, more suggestive of an ostler or a bookie than a famous architect and a boon-companion of Royalty, as he ultimately became. His origins were somewhat obscure, and certainly humble. His phenomenal success as an architect was partly due to his professional ability, but equally to his skilful exploitation of a beautiful wife—the third party in this amiable triangle being "Prinny", the Prince Regent, (afterwards George IV). Nash had some early education of a sort, and then entered the office of Sir Robert Taylor (a leading architect of the day in London) in a minor position, perhaps as an office boy. In 1778, an uncle left him £1,000, thus enabling him to leave Taylor and venture upon independent practice as an "architect and builder". Bankruptcy ensued in 1783, whereupon he migrated to Carmarthen and started afresh, his first commission being the installation of a bathroom (then regarded as a miracle) in a house there. Returning to London in 1796, he restarted practice, this time with Humphry Repton, the landscape-architect. He designed several country-houses including Southgate Grove, Middlesex, (c.1797), Sundridge Park, Kent, (1799), and a "castle" for himself in the Isle of Wight (c.1798).

The last item shows that by 1798 he was well-established, even wealthy, and in that year he married Mary Anne Bradley at St. George's, Hanover Square, twenty years his junior and evidently a beauty. Even before that date, she is supposed to have attracted

the roving eye of "Prinny". Farington describes visits to Mr. and Mrs. Nash at East Cowes "castle" and at 28 Dover Street, London, where they entertained expensively from 1800 onwards. In 1806, the contacts with "Prinny" began to bear fruit, and Nash was appointed Architect to the Commissioners of Woods and Forests. In that capacity, it fell to him to furnish designs in 1811 for the lay-out and "development" of the large rural estate known as "Marylebone Farm". Eventually his schemes embraced the whole area from St. James' Park and Carlton House on the south to St. John's Wood on the north, including Carlton House Terrace, Regent Street, All Souls Church (but not Portland Place, then already developed), Park Crescent, Park Square, and several of the handsome terraces surrounding "The Regent's Park", as well as its admirable lay-out and lake.

In 1817, "Prinny" instructed him to rebuild or remodel Henry Holland's charming Royal Pavilion at Brighton, with the astounding mock-oriental results that we see to-day. Money was lavished on its exotic decoration; and then Nash's royal patron ordered the remodelling and redecoration of Buckingham Palace, carried out at vast expense between 1825 and 1829. His work there is largely obliterated externally by later alterations, but many features of Nash's gorgeous interior remain. This financial frolic was stopped by the stern hand of the Duke of Wellington in 1829, and Nash died at East Cowes Castle in 1832, heavily in debt. Hewas the chief exponent of "Regency" architecture, and of stucco.

Nowadays architects are finding that so far as structural flooring is concerned the quickest way to translate good design into sound construction is to consult SIEGWART. Technical advice is freely given.

SIEGWART PRECAST FLOORS & ROOFS

Sieewart Floor Company Ltd.
Gable House, Rickmansworth,
Herts.
Telephone Rickmansworth 2266.
Berkeley House, Hagley Road,
Birmingham 16.
Telephone Edgbaston 3960.
Carlton House,
Blythswood Square, Glasgow, C.2.
Telephone City 5156.

LOOK FIRST AT NAIRN FOR OFFICE FLOORING

You see here four different offices where the architects have specified Nairn linoleum—all with obvious success. The installations vary: sometimes linoleum is used for dramatic effect, sometimes as a quiet background. In one case it is on the stairs, and it even appears on the wall. But every picture tells the same story: Nairn linoleum is the unchallenged best in smooth, hard floorcoverings . . . and for at least six reasons.

REASONS WHY

For a start, Nairn linoleum makes a *comfortable* floor. It's easy on the feet, and warm and quiet. Then, it's extremely *hardwearing*: properly laid, the right gauge of Nairn linoleum can last up to twenty years and more. This is because it's *tough*, with the *resilience* to meet the tramp of a million feet. Yet compared with many similar floorings, Nairn linoleum is very *economical*. When it comes to maintenance costs, Nairn linoleum can save you up to one-third as against thermoplastic floors.

Most architects choose Nairn linoleum for yet another reason: it offers a superb range of *colours*. Nairn are now making new ranges of linoleum to match the British Standard Ranges of Decorative Paints which the RIBA has recommended. This means that designers can now integrate the floor colour with that of the walls and ceiling, with obvious advantages in effect.

WHAT YOU GET

You get a lot for your money when you specify Nairn linoleum. You get good looks with long life; you get economy with versatility; you get colour with strength. That's why it pays to look first at Nairn linoleum for office flooring . . . or, indeed, any other.

HOW NAIRN HELPS THE ARCHITECT

You can quickly get skilled advice and information on anything about floorcovering services—not only linoleum—from your nearest Nairn technical representative. Just telephone, call or write.

NAIRN

MICHAEL NAIRN & COMPANY LIMITED
London • Birmingham • Manchester • Glasgow • Kirkcaldy



left SANDERSON'S SHOWROOMS

On this staircase at Sanderson's showrooms W.1., is Blondwood linoleum for the risers and black for the treads. The Blondwood suggests lightness, the black suggests strength. Each step is clearly visible, and the wallpaper quietly echoes the design. The linoleum is Nairn's 6.7 mm black marble and 3.2 mm Blondwood. Architect: Slater and Uren, FRIBA. Flooring contractor: E. J. Elgood Ltd.

right ABC CHANGE-RINGING

At the Golden Square offices of Associated British Cinemas, the architects rang the changes by putting Nairn Linoleum on the walls. The effect is sane and quiet. The linoleum is Nairn's 2.0 mm in Cardinal Red and Lavender. Architect: Alexander Leifer, ARIBA. Flooring contractor: Lino-Installations Ltd.

TOUR DE FORCE

This is the Reading office of the General Accident Assurance Co., Ltd., and it shows just what a good flooring craftsman can do: the symbol is all linoleum. The rest of the floor is mainly Nairn 4.5 mm in Gunmetal. Architect: Sainsbury and Chamberlain, Reading. Flooring contractor: Heelas Ltd., Reading.

COSTAIN FOYER

An interesting *trompe l'oeil* design at the offices of Costain, the contractors. This floor was laid six years ago. The linoleum is Nairn's 6.70 mm in plain grey, with plain black, blue, and white lacing strips. Architect: Campbell-Jones & Sons. Flooring contractor: E. J. Elgood Ltd.

LOWER COST CONVERSIONS

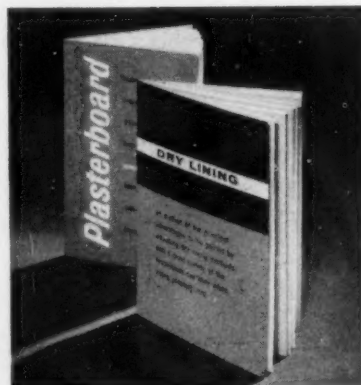
Thermal Insulation and Fire Resistance

Gypsum plasterboard helps you to meet current thermal insulation needs without increasing fire hazards.

Because it meets Class 1 requirements, B.S. 476, Spread of Flame Test, without additional treatment, it is economical in both time and labour. It is available at a low cost . . . averaging 2/6d. per sq. yd. on bulk consignments.

INTERESTING BOOKLETS AVAILABLE

Booklets prepared for both technical and non-technical readers, give comprehensive information on the use of plasterboard in conversions. Write for your free copies to . . .

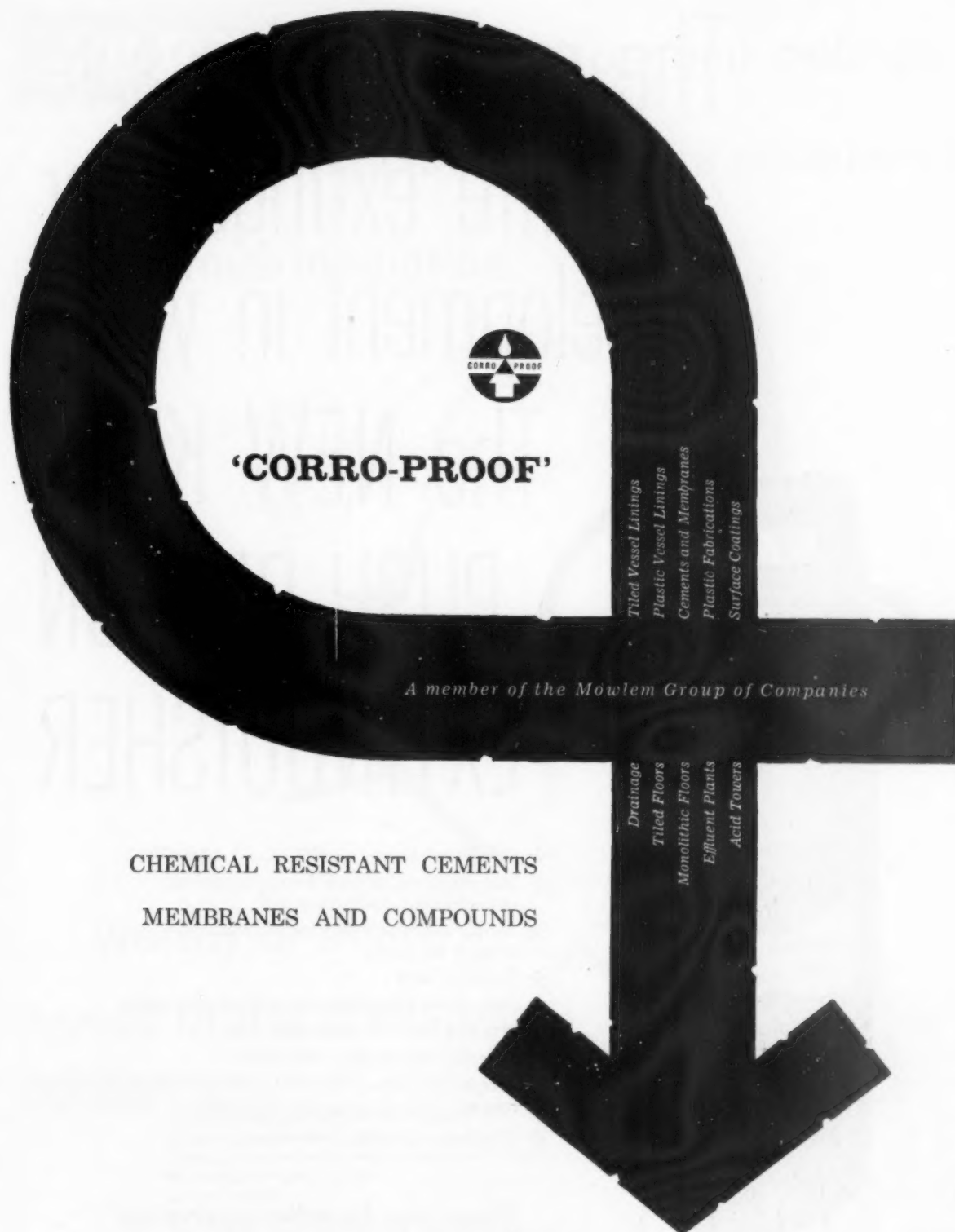


THE GYPSUM PLASTERBOARD DEVELOPMENT ASSOCIATION

An Association for the promotion, encouragement and development of the proper use of gypsum plasterboard. Plasterboard made by members meets the highest standards, and Association technicians are always prepared to give first-class after-sales service.

G.P.O. Box No. 321, London, N.W.1.

CON. 2



CHEMICAL RESISTANT CEMENTS
MEMBRANES AND COMPOUNDS

CORROSION TECHNICAL SERVICES LIMITED

SUNLEYS ISLAND · GREAT WEST ROAD · BRENTFORD · MIDDLESEX

Telephone: ISLEWORTH 8445 (5 lines)

Telegrams and Cables: CORROPROOF · BRENTFORD · HOUNSLOW

The most progressive
 fire extinguisher
development in years

The NEW Kidde PUSH-BUTTON EXTINGUISHER



- * Cost of re-charging is NIL (Do it yourself)
- * Has simple on/off push button operation, or continuous discharge at will
- * Simple indicator shows instantly that it is ready for action
- * Easier to carry
- * Only water is expelled—no acid solution stains
- * Has long hose for under-floor fires
- * No safety clip or pin is necessary
- * Weighs less than a water/CO₂ extinguisher
- * Overfilling or overcharging impossible
- * Minimum operating instructions

*Those who have the experience
to judge the best buy Kidde*

THE WALTER KIDDE COMPANY LTD., Northolt, Middlesex. Tel: VIKing 6611



GYPSTELE suspended ceilings

and wall linings for fire resistance
and thermal insulation



... worthy of the
hands of the craftsman

GYPROC

products include:

GYPROC WALLBOARD - LATH - PLANK
GYPROC PLASTERS
GYPSTELE ROOF AND WALL LININGS - SUSPENDED CEILINGS
PLAXSTELE SUSPENDED CEILINGS
GYPUNIT PANELS
GYPTONE ACOUSTIC TILES
GYPLITE READY-MIXED LIGHTWEIGHT AGGREGATE PLASTERS
GYPELITH WOOD WOOL SLABS

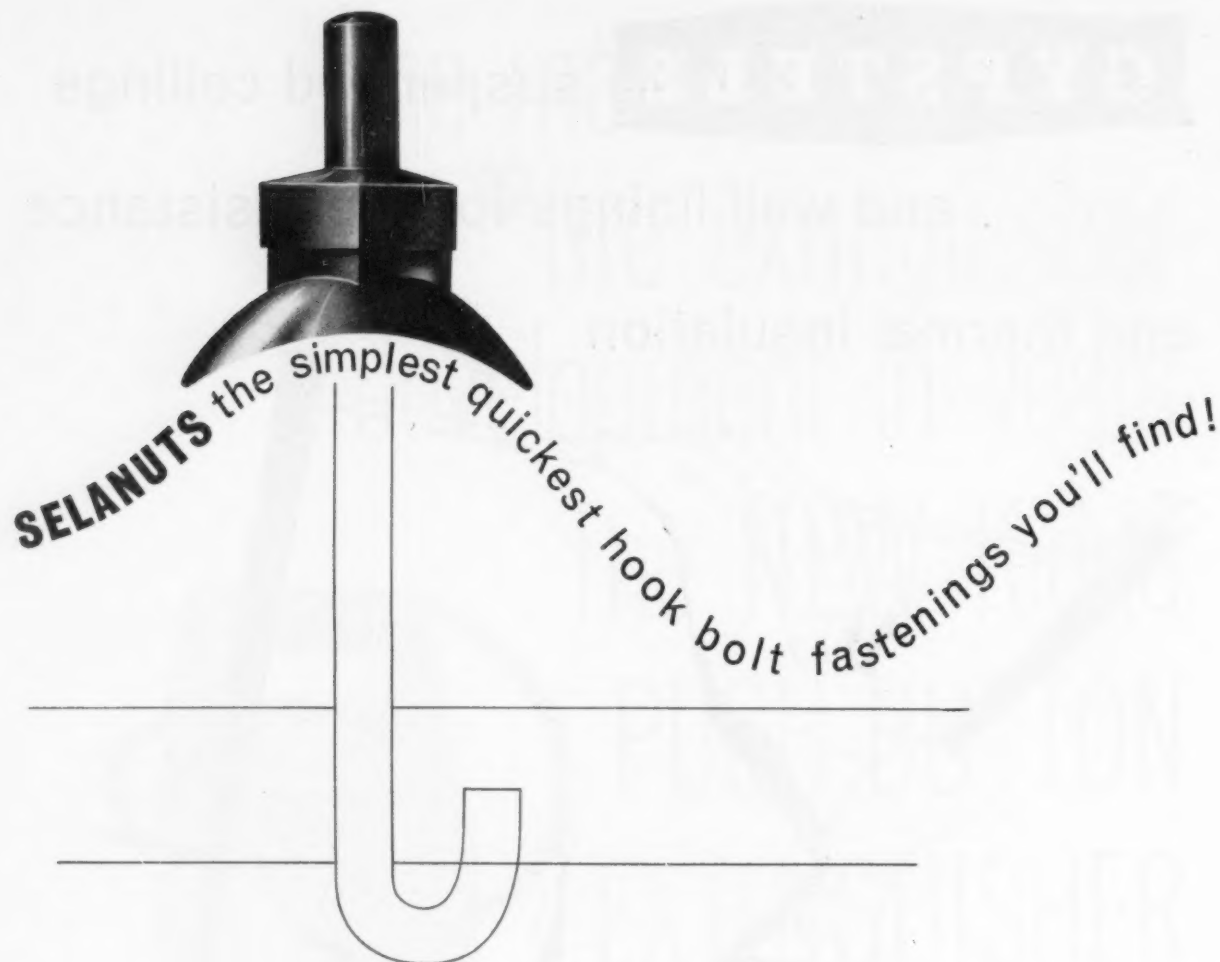
Free technical literature will be sent on request

GYPROC PRODUCTS LIMITED

Head Office: Singlewell Road, Gravesend, Kent, Gravesend 4251/4 · Glasgow: Gyproc Wharf, Shieldhall, Glasgow, S.W.1. Govan 2141/3

Midlands: 11 Musters Road, West Bridgford, Nottingham. Nottingham 82101 · London: Ferguson House, 15/17 Marylebone Road, N.W.1. Hunter 4031/4

G.S.A.

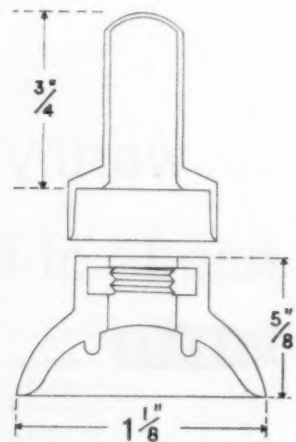


Simple, quick, lasting. These are only three of the benefits of using Selanuts and Selacaps. Flexible plastic Selanuts, supplied with the widest range of hook-bolts, will "mould" themselves to any corrugated or flat surface.

The protruding bolt end is given protection from corrosion by the Selacap, even under the worst possible weather conditions, thus keeping the roof sheets free from rust stains.

Both Selanut and Selacap will give years of good service, without attention.

Further details will be sent with pleasure by The British Screw Company, the leading manufacturers of roofing fittings.



THE BRITISH SCREW CO. LTD.

153 KIRKSTALL ROAD, LEEDS 4. Tel: 30541 (4 lines) Grams: Angel Leeds 4



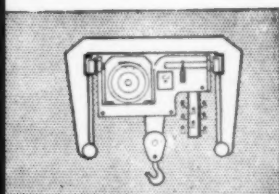
Manufactured under licence from Ferrand & Frantz Ing. Villeurbanne. British Patent No. 705, 148

MODERN FACTORIES NEED

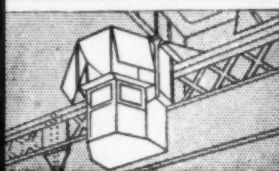
RÉEL ABOVE ALL ELSE

**TO SAVE SPACE AND GIVE
INCREASED HEIGHT OF LIFT**

-with reduced building costs!



The underslung crab unit allows a highest hook position approaching close to the building height.



The driver's cage, glazed or open, is arranged to give maximum possible visibility in all directions.

Réel is the only modern overhead crane specially created to meet modern industrial demands for higher mobility and efficiency. The unique Réel design carries the crane to within inches of the roof, giving maximum height for lifting. Enclosed girder construction combines lightness with great strength, allowing more economical running and maintenance. There are capacities to suit all requirements. Handling of goods is faster, safer and more economical with Réel—why not contact us now for full information.

THE BRITISH
"RÉEL"

**overhead
travelling
crane**

BRITISH INDUSTRIAL
ENGINEERING COMPANY (STAFFS) LIMITED

CORONATION WORKS • HAINGE ROAD • TIVIDALE • TIPTON • STAFFS

Telephone: TIPTON 1222/3/4

INSU double glazing

Pilkingtons' "INSULIGHT" Double Glazing Units—the modern way of installing window insulation—practically halve heat losses of single windows and so cut the cost of heating both by reducing expenditure on plant and on fuel consumption. In addition to the calculable benefits there are many more in double glazing with its freedom from down draughts and elimination of condensation.




'U' value of single windows 1,000 B.t.u./sq. ft. h deg F



LIGHT

halves heat losses

Pilkingtons' "INSULIGHT" Double Glazing Units—backed by a five year warranty—are subjected to rigorous individual tests. These tests ensure that every unit leaving the factory is sound and will give years of trouble-free service when properly glazed in suitable frames.

'U' value of 'Insulight' Double Glazed Unit— $\frac{1}{4}$ " space 0.58 B.t.u./sq. ft.  h deg F



Pilkingtons' 'Insulight' Double Glazing Units—carry a five years' warranty

"Insulight" is a registered trade mark of Pilkington Brothers Ltd. For further information write to the Technical Sales and Service Department Pilkington Brothers Limited, St. Helens,

Lancashire (Tel: St. Helens 4001), or London Office, Selwyn House, Cleveland Row, St. James's, S.W.1. (Tel: Whitehall 5672-0). Supplies available through the usual trade channels.



***More evidence
of the remarkable
versatility of***

STRAMIT

**TWO-INCH THICK
STRUCTURAL
INSULATING SLABS**

***-the economical
dry-construction
roof-decking material***

Here are five roof constructions in which STRAMIT has proved to be an ideal and economical roof-decking material. STRAMIT dry-construction slabs are also well suited for use in flat, north-light and mansard roofs. STRAMIT slabs are strong, rigid and durable. They can be used with all types of weather-proofing, with or without a sub-ceiling. Excellent U-values are provided, meeting statutory insulation requirements with something in hand. They carry the physical and thermal load with great efficiency and true economy.

★
STOCK SIZES: 4ft. wide by 6, 8, 9, 10 and 12ft. long.
Special sizes made to order.

★
***Send for details of this unique
dry-construction material NOW***

Please send full details of Stramit slabs

AL 2

COMPANY.....

ADDRESS.....

For the attention of

**STRAMIT BOARDS LTD., COWLEY PEACHEY,
UXBRIDGE, MIDDXX :: Phone: West Drayton 3751 (10 lines)**



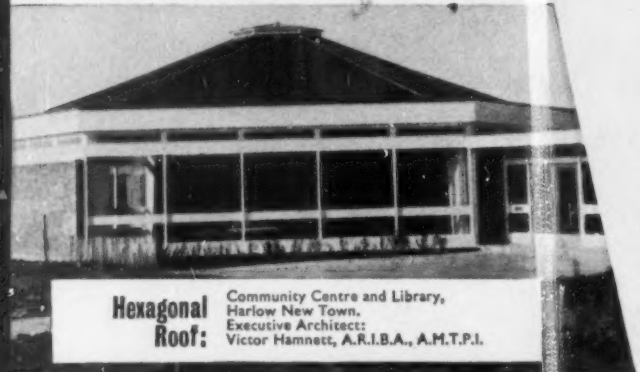
**Low-pitch
Roof:** Transair Ltd., Hangar & Offices,
Gatwick Airport.
Architects: Clive Pascall, A.A. Dip., F.R.I.B.A.,
and Peter Watson, Dip. Arch., A.R.I.B.A.



**Barrel-vault
Roof:** John Perring Ltd., furnishers,
Crawley New Town. Chief Architect:
A. S. Howgrove-Graham,
A.R.I.B.A., A.M.T.P.I.



**Monitor
Roof:** Tunbridge Wells Technical College.
Architects: E. Mayorcas, F.R.I.B.A.,
in collaboration with E. T. Ashley Smith,
F.R.I.B.A., County Architect.



**Hexagonal
Roof:** Community Centre and Library,
Harlow New Town.
Executive Architects:
Victor Hamnett, A.R.I.B.A., A.M.T.P.I.



**Parabolic
Roof:** Maidstone Masonic Temple.
Architect: Clifford Worthington,
F.R.I.B.A., F.R.S.A.



IBECO

WATERPROOF PAPER

IN BUILDING AND CONSTRUCTION

For concrete underlays, curing overlays, or other temporary purposes: IBECO No. 40 to BS 1521/1949 Class B.

For structural concrete or covering screeds: IBECO No. 60 or 80 depending on the stresses involved.

For preventing draughts and penetration of moisture in walls and roof structure: IBECO No. 80.

For insulation work and reduction of heat losses: IBECO foil laminates.

We will gladly send samples of these on request or a technical representative to discuss their application to your particular problem.

Neat, practical, economical answer to many problems of lining, proofing and insulation, IBECO has advantages no other product of its kind can offer . . . In IBECO the proofing is part of the paper itself, integrated with the paper's fibres while these are still fluid. Result: A paper waterproofed *throughout its substance*, with no 'free' bitumen to harden, crack, leak or sweat out. You can fold IBECO, crease it, trample it—it stays waterproof. Additionally, it's light in weight, small in bulk, easy to transport and handle on site, and very reasonable in price. Where there's building, there's a job for IBECO.

Davidsons Paper Sales Ltd. Head Office: Mugiemooss Mills, Bucksburn, Aberdeen.

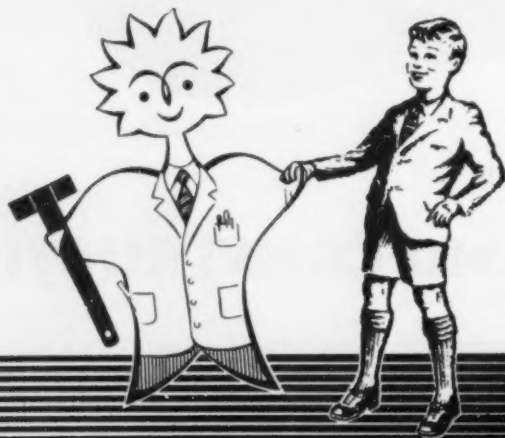
LONDON: 82/84 St. John St. E.C.1. LIVERPOOL: 31 North John St. 2. LEEDS: 9 Albion St. NEWCASTLE: 42 Corporation St. GLASGOW: Laird Place, Bridgeton, SE. EDINBURGH: Boroughloch Square. ABERDEEN: 4 Trinity Quay. DUNDEE: 24 Lamb's Lane.

it's his future...

...backed by MR. THERM who Burns to Serve architects and

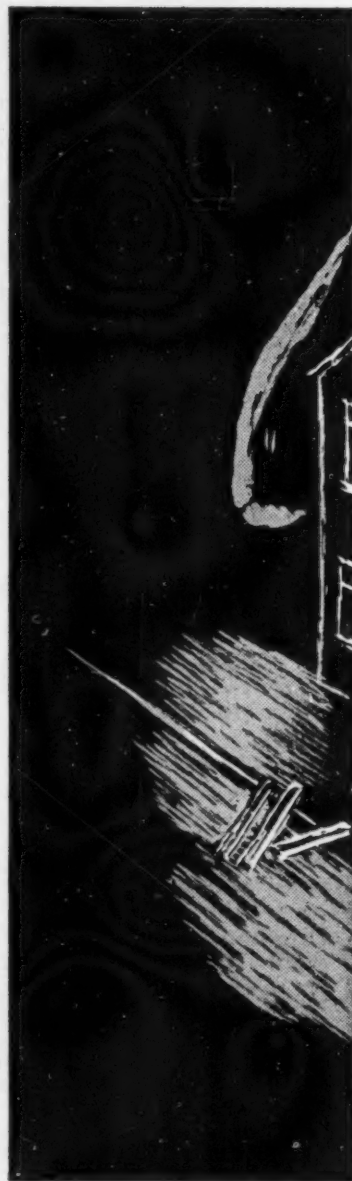
... in all ways. He will grow up with Central Heating—yes gas central heating, for gas central heating has become increasingly popular in the home ... for only gas central heating offers no fuel delivery upsets, no wasted fuel storage space, complete automatic control—and—'buy out of income' facilities at only 5% interest up to 5 years with no deposit. Through the twelve Area Gas Boards, the Gas Industry offers an unrivalled free advisory service on 'Perfect Central Heating' to Architects and Builders.

Write or 'phone your problem to your Gas Board NOW



Today architects and builders can keep up to date with new technical data on gas and coke appliances and their installation. The sections comprise 1 and 2 (Domestic Space Heating), 3 (Domestic Water Heating), 4 (Gas Flues), 5 (Coke), 6 (Gas Appliances and Flues in Tall Buildings), 7 (Domestic Kitchen), 8 (Catering), 9 (Installation) and 10 (Commercial Laundries).

ISSUED BY THE GAS COUNCIL



builders always ...



Improved 'BRITON'

Door Closer MK III

The Inside Story The "Briton" Door Closer is well known.

For years it has been the best in the World. Now, with the introduction of new features it is even better. Better because:

Rubber "O" rings are used

These are housed in a groove which creates an air chamber. This breaks capillary attraction and prevents oil from creeping up the spindle.

Check regulator recessed

This improves the appearance of the Closer, and removes all possibility of damage either before or after it is fitted to the door.

Bearing lengthened

This improves the stability and alignment of the spindle, and provides a seating for a new method of oil sealing.

Adjustable arm covered

This covering conceals the screw thread on the arm and improves the appearance of the Closer.

All details can be found in the 'Barbour' Index, File No. 53

'BRITON'

DOOR CLOSER

The prevention of draughts and banging doors is in your hands. Specify "Briton" and you eliminate both. It fits right and left hand doors without alteration, and the spring can be regulated to six different strengths by finger tip control. Doors are closed both smoothly and silently. When a "Briton" Door Closer is fitted it can be relied on. It is guaranteed for *ten years*!

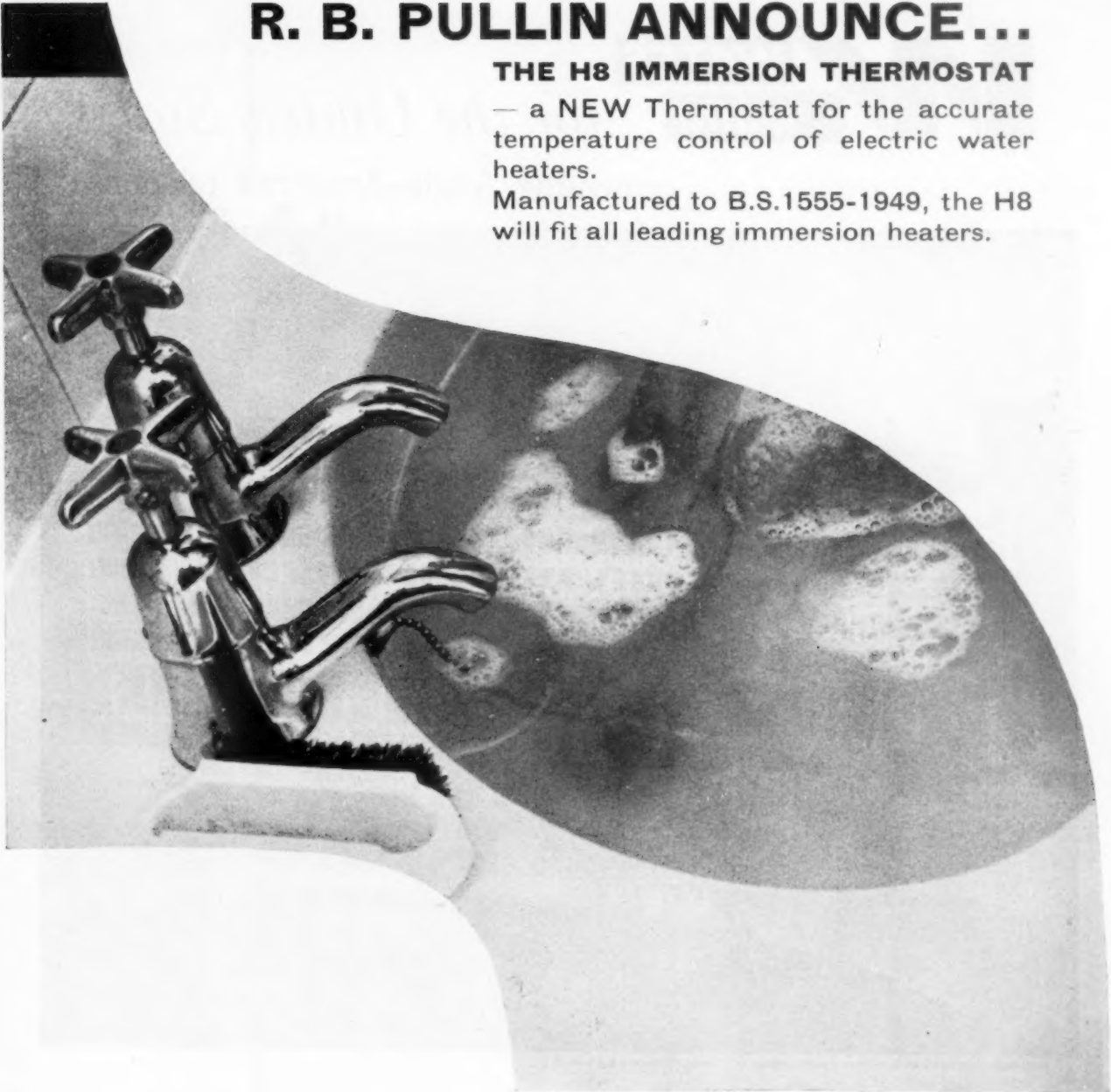
WILLIAM NEWMAN & SONS LTD. HOSPITAL STREET BIRMINGHAM 19

R. B. PULLIN ANNOUNCE...

THE H8 IMMERSION THERMOSTAT

— a NEW Thermostat for the accurate temperature control of electric water heaters.

Manufactured to B.S.1555-1949, the H8 will fit all leading immersion heaters.



**H8 IMMERSION
THERMOSTAT**

Write for technical leaflet to

R. B. PULLIN & CO. LTD.

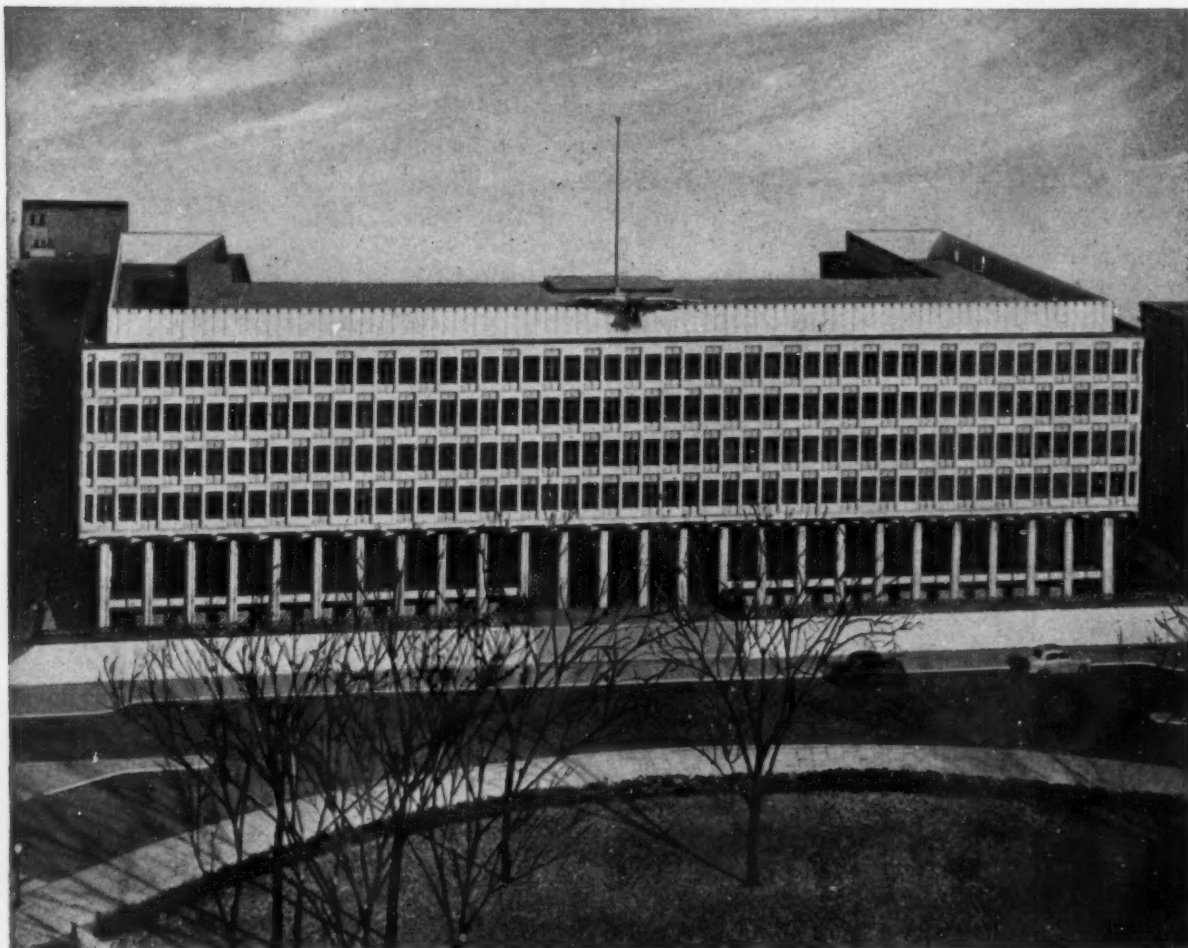
Thermostat Division, Phoenix Works, Great West Road, Brentford, Middlesex.

Telephone: ISLeworth 1212 Cables: Pullinco Wesphone London



for the United States

... cementing Anglo-American relations!



Architects: Eero Saarinen & Associates in conjunction with Yorke, Rosenberg & Mardall

THE reinforced concrete foundations and framework of the new United States Embassy in Grosvenor Square make a fine, firm perch for the great American eagle which spreads its wings above the building's gleaming, white façade. Wates not only prepared the site, laid the foundations, and erected the complex framework; their subsidiary, the Modular Concrete Co. Ltd., supplied most of the pre-cast concrete. Wates are proud to have been associated with this fine building.



WATES LIMITED, 1260 London Road, Norbury, London, S.W.16 POLIards 5000



36"

This is only one of the diameters which are drilled by our modern mobile plants for deep foundations to depths of 100 feet. Our technical staff is at your service to advise you on the most economical solution of your foundation problems. Send your enquiries to Peter Lind and Company Limited at Romney House, Tufton Street, London, S.W.1 or Tel : Abbey 7361

OGRO

New beauty in Door Furniture

Distinctive and beautiful design is the keynote of Ogro door furniture. Created by internationally famous designers, its fine proportions and strength in construction reflect the grace and elegance much in demand by the architect of today. Made from a non-corrosive aluminium alloy and treated by a modern scientific process which produces a guaranteed long lasting silver white finish. The bush used in the construction of the Ogro door furniture comprises ease of action and hard wearing qualities. Available in a variety of designs and range of pleasing colours. The name Ogro, backed by almost a century of experience, is your guarantee of sound workmanship and the highest possible standard of design.



The No. 9001 door handles illustrated above are supplied with bolt hole centres, size 16½in. to suit standard "Armourplate" glass doors.

The new OGRO Spindle, patent pending, for lever furniture is now available—would you like details?



GROUP SALES LIMITED

Offices and Warehouses (Ironmongery), Bromells Road, London, S.W.4. Tel: MACaulay 6222

OGRO STOCKIST/DISTRIBUTORS

LONDON AND SOUTHERN AREA
H. & C. Davis & Co. Ltd., 1, The Pavement,
London, S.W.4.

WALES AND WEST COUNTRY
The Metal Agencies Co. Ltd., Box 136,
Avon Works, Winstersoke Road, Bristol 3.

NORTHERN AREA
Neville Watts & Co. Ltd., Quality House,
8-10, Fitzwilliam Street, Sheffield 1.

MIDLAND AREA
Mountford Bros. Ltd., 24/30, Northwood Street,
Birmingham 3.

SCOTLAND AND IRELAND
Bell Donaldson & Co. Ltd., 81, George Street,
Edinburgh 2

extending the range...

Now, to carry the principle
of 'building with insulation'
a step forward, we offer you...

THERMALITE YTONG

**LARGE SPAN LIGHTWEIGHT ROOFING,
EXTERNAL AND PARTITION WALL UNITS**

Thermalite Load Bearing Insulating Building Blocks have become standard practice throughout Britain. Now, alongside these, a new range of roofing and wall panels have been developed and perfected. To satisfy the demand and ensure good delivery a separate manufacturing unit has commenced production.

Like Thermalite Blocks, these units are manufactured from cement, sand, pulverised fuel ash and steel reinforcement adequately protected. They have a dry density range of 30-40 lbs./cu. ft. and a low 'U' value.

Speedier erection

The units will be delivered and erected by trained Thermalite teams.

"Made to Measure"

Units of correct span and thickness made to specific requirements.

No need for screeding

Superior fire resistance.

Ease of fixing

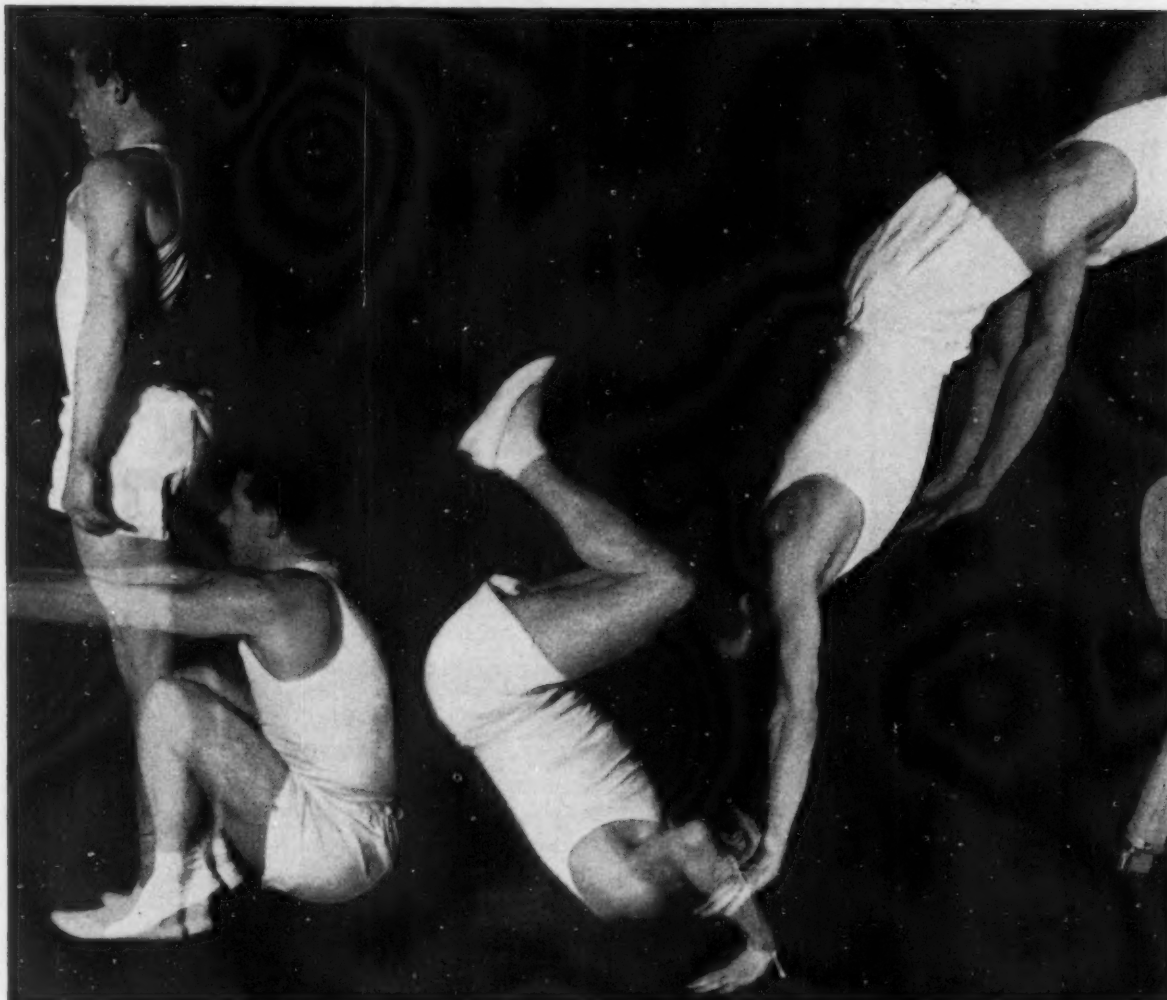
Units have a smooth surface and can be left undecorated, but should finish be required this can be easily applied.

A **LAING** COMPANY

For full technical details please write to:-

THERMALITE YTONG LIMITED

Hams Hall, Lea Marston, Sutton Coldfield, Warwickshire.
Telephone: Coleshill 2081



RAPID RECOVERY

EVEN after periods of intense activity NIFE Steel Alkaline Batteries instantly recover their voltage and are ready for more work.

This is a tremendous advantage in switching, starting and emergency applications where batteries have to provide heavy discharges either simultaneously or in rapid succession.

NIFE batteries will hold their charge during long periods of inactivity. They do not deteriorate when standing by, but deliver full power whenever it is demanded.

High rates of charge and discharge will not harm them.

Since they need so little attention, and require no separate battery room, NIFE batteries reduce building, installation and maintenance costs.

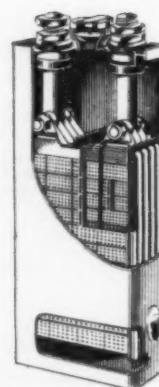
Far-sighted engineers specify them for SWITCH CLOSING • SWITCH TRIPPING
EMERGENCY LIGHTING • STANDBY POWER FOR AUXILIARIES AND CONTROL CIRCUITS
PORTABLE SAFETY LAMPS • TELECOMMUNICATIONS

FIT FOR A LONG LIFE

NIFE

STEEL ALKALINE BATTERIES

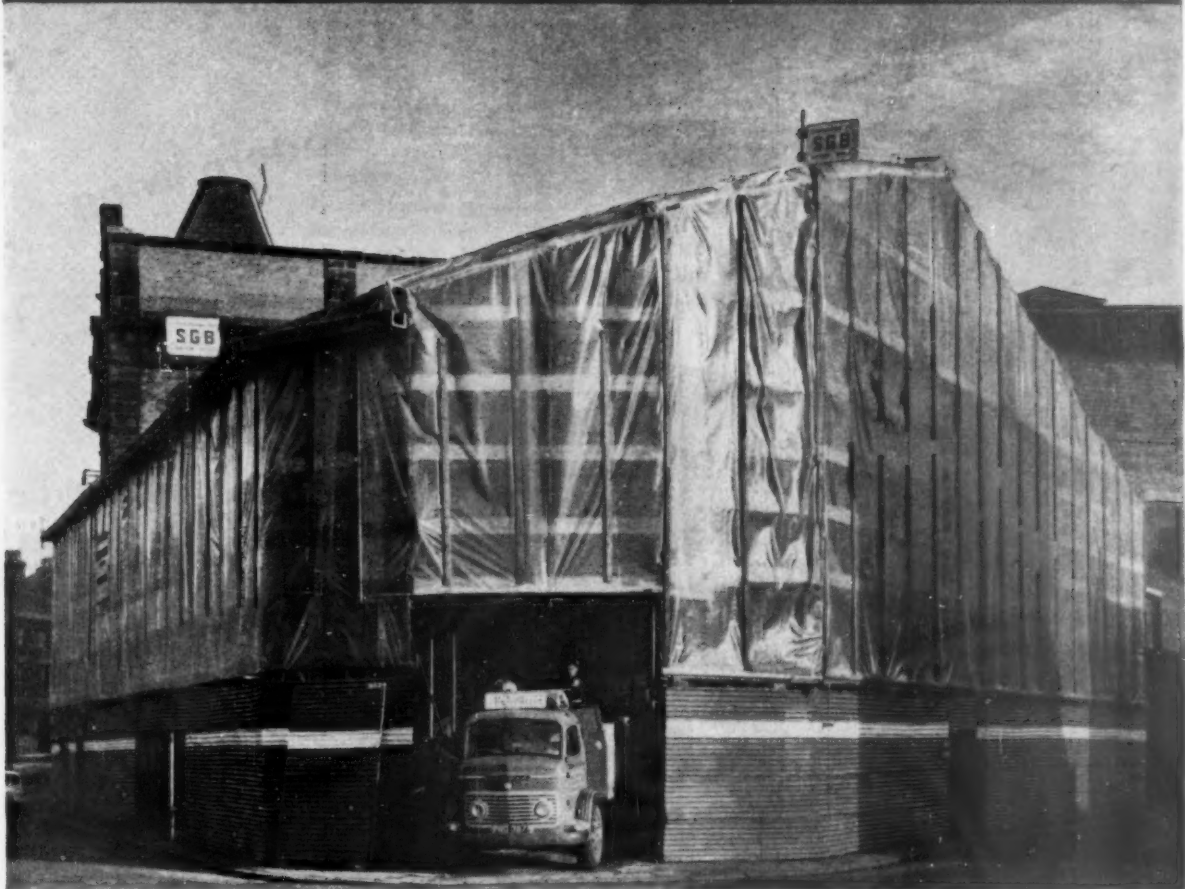
NIFE BATTERIES • REDDITCH • WORCESTERSHIRE



TGA N152

'Visqueen' quickens tempo on Mecca Ballroom extension

(F.E.G.D.)



*A temporary weatherproof structure clad with 'Visqueen' polythene building sheet over extensions to the Locarno Ballroom, Liverpool, for Mecca Ltd.
Contractors: James Crosby & Sons Ltd.
Tubular Framework: Scaffolding (Gt. Britain) Ltd.*

Transparent 'tent' advances completion date by six weeks

During alterations and extensions to a Mecca Ballroom in Liverpool, a 'Visqueen' tent was erected over the site to enable work to proceed independent of the weather and in full daylight.

This structure successfully protected materials and operatives from driving rain, which was carried away by guttering fixed to the eaves.

At night, internal illumination lengthened working hours, and gave added publicity to the whole project.

'Visqueen' is readily adaptable to varying site conditions. This structure was made by fixing timber members horizontally to scaffolding, placing the 'Visqueen' in position and battening it to the supporting timbers by nailing through at regular intervals to distribute the tension on the sheeting evenly.

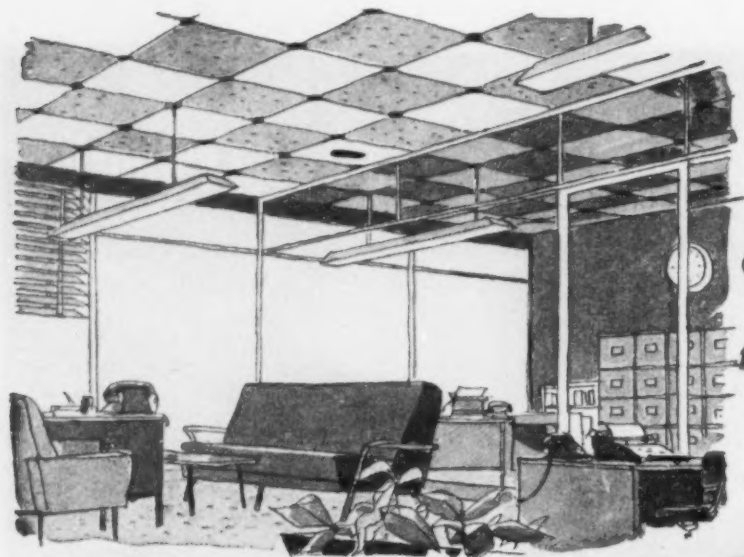
6 ft. corrugated iron sheeting was placed at the base of the walls where mechanical damage was most likely to occur.

For the name of your nearest stockist, samples, prices and an illustrated booklet, write now to:

BRITISH VISQUEEN LTD

SIX HILLS WAY, STEVENAGE, HERTS. TEL: STEVENAGE 1310

A SUBSIDIARY COMPANY OF IMPERIAL CHEMICAL INDUSTRIES LIMITED



Gay new ideas
for modern living

BLUE HAWK

Varitiles

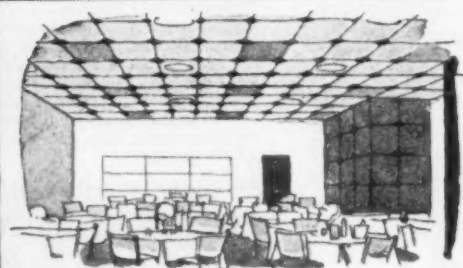
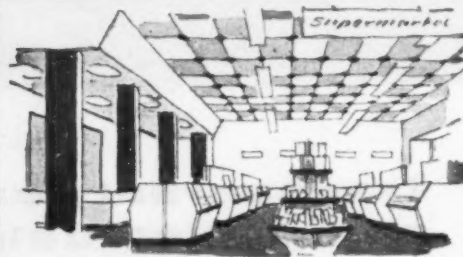
sparkling, plastic-covered ceiling and wall tiles

Bright colourful ceilings . . . gay attractive walls . . . patterns that can be arranged and re-arranged at will . . . Blue Hawk VARITILES bring extra depth and warmth to every room.

Simple to fit—just screw in runners, slide in tiles and the job's done; fully insulating and fire-resistant; padded and plastic-covered—VARITILES can be fitted to new or existing ceilings and need only a wipe to keep clean.

VARITILES have many varied applications and are ideal for ceiling and wall decoration in offices, schools, cinema and theatre foyers, shops and stores, restaurants and cafes, homes etc.

Send for leaflet giving full details of VARITILES



THE
BRITISH PLASTER BOARD

(Manufacturers) LTD

PURDON HOUSE, 15-17 MARLBOROUGH ROAD, LONDON, W.2. TELEPHONE: HYDER 444

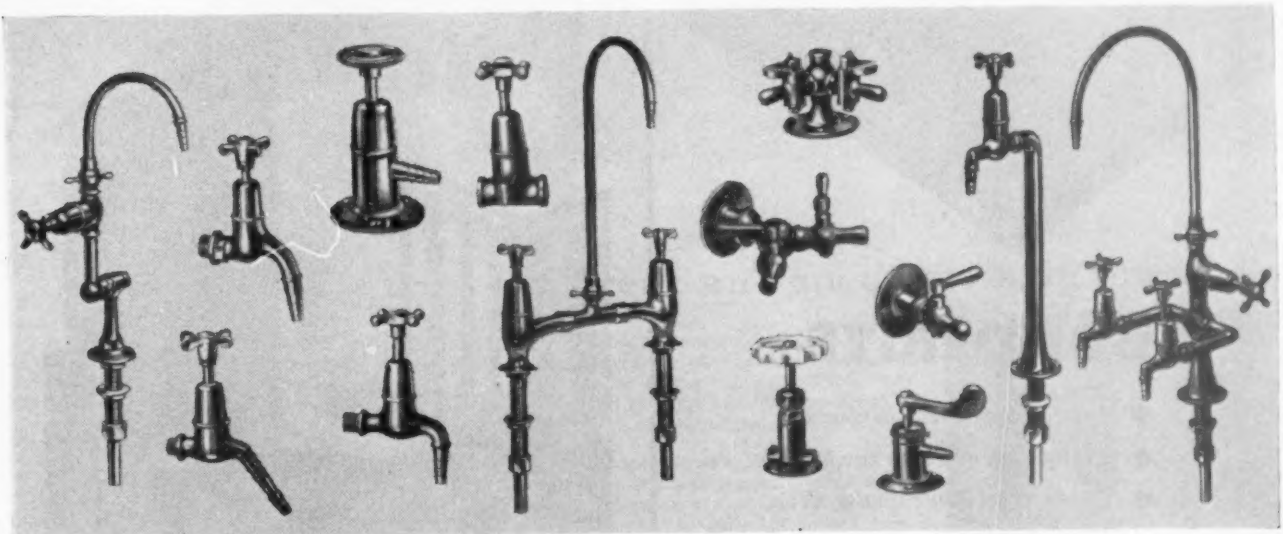


EVERED equipment for the modern laboratory

The chemist is, of necessity, a perfectionist and expects his equipment to be up-to-date and efficient.

Evered Catalogue 364 is fully comprehensive and illustrates every type of laboratory valve; single and multiple outlet for water, gas, compressed air, steam and other services. All water fittings conform to B.S.S. 1010/1953 and are stamped accordingly.

Technical representatives are at your service to discuss installations—on site if you wish.



Evered

AND COMPANY LIMITED *Established 1809*

Surrey Works · Smethwick 40 · Staffs.

Telegrams: 'EVERED' B'HAM

Telephone: SMethwick 0881



BONDERITE

- Protects unpainted aluminium
- Provides an excellent key for paint
- Produces a coloured finish for unpainted surfaces

Either as attractive finishes in their own right, or as a key for paint, Bonderite surface conversion processes provide effective protection for aluminium.

THE PYRENE COMPANY LTD METAL FINISHING DIVISION

GREAT WEST ROAD · BRENTFORD · MIDDLESEX Tel: ISLeworth 4131

**Safe choice
in every climate**

**SUB-ARCTIC COLD:
EQUATORIAL HEAT:**

Proven in virtually every atmospheric condition. METALLIC Conduit Tubes and Fittings are a sound choice for electrical installations in all conditions. Corrosion preventive finishes provide sure and lasting protection:—

Stove Enamelled, Hot Galvanised, Sheradised, Extra-SAFETY, too:

Made to B.B.S. 31/1940

For details of our range of Conduit Fittings write for illustrated catalogue No. F 459.

METALLIC
CONDUIT & FITTINGS

THE METALLIC SEAMLESS TUBE CO. LTD.
Ludgate Hill, Birmingham, 3.

Also:
London, Newcastle-on-Tyne, Leeds, Swansea and Glasgow



UNISTRUT solves fire break and space division problems

Partitioning constructed from Unistrut and Asbestolux for Henry Wiggin's new factory not only substantially cuts fire risks but answers the modern need for light, flexible and removable space division.

For the 2,000 ft. run of 35 ft. high partitioning required, Unistrut proved simple to erect and its light weight eliminated the need for foundations. Its erection interfered little with productivity, and the Asbestolux panels and Rocksil in-fillings provided a good acoustic barrier.

The Unistrut system accommodates movement and expansion occurring under fire conditions within the framework of a partition. These partitions can be erected 50 ft. high with lateral support at 16 ft. lifts. For fire ratings up to two hours, $\frac{1}{2}$ in. panels

of Asbestolux can be used, whilst for a one-hour rating a $\frac{1}{4}$ in. panel would be adequate. A four-hour rating can be achieved with additional internal foil. The finish can be adjusted to individual requirements.

Where space division rather than fire prevention is the prime consideration, the Unistrut framing system can be used with any type of in-fill—glass, hardboard, fibreboard, etc. For fast construction, economy, and adaptability in a wide variety of applications, choose the Unistrut system.

(Right) Unistrut used for partition framework. Here, Asbestolux cladding was used to form a fire-resistant partition, but any type of in-fill can be used for the purpose of space division only.



UNISTRUT STEEL CHANNEL FRAMING SYSTEM

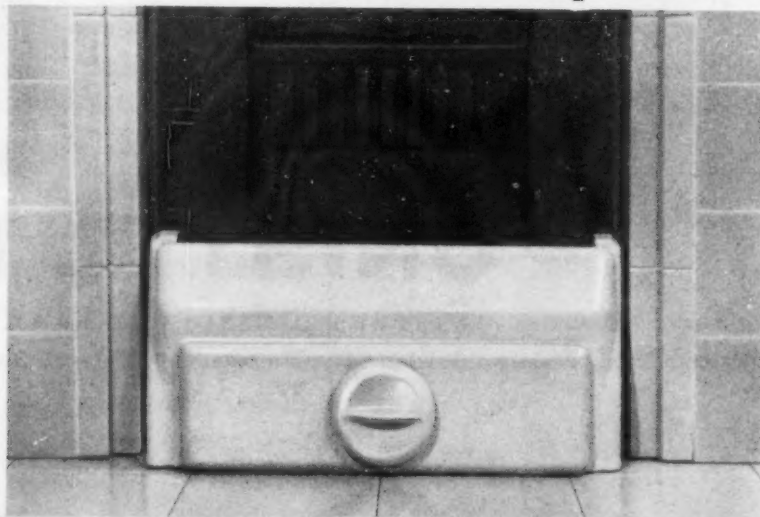
UNISTRUT DIVISION OF SANKEY-SHELDON LTD.

43/45 Broadwater Road, Welwyn Garden City, Herts. Tel: Welwyn Garden City 6321 (4 lines)





A Redfyre Bacboiler adds value to every house you build.





Specify Redfyre, and you specify all the charm and comfort of a beautiful open fire . . . you specify the convenience of cheap hot water for kitchen and bathroom . . . and you specify the extra bonus of partial central heating. Yet for all this, Redfyre is inexpensive and easy to install; running costs are very very reasonable; and maintenance costs virtually non-existent.

There are now three Redfyres with Bacboilers for you to choose from—all well-known to the public. The Hearth Redfyre with underfloor airfeed and the famous low-cost Redfyres, the 55 and 60. All these models are controlled burning fires, are Ministry-approved and are suitable for use in smokeless zones.

May we send you full details of these fires in our specially-bound Architect's Handbook?

NEWTON CHAMBERS & CO LTD, REDFYRE PRODUCTS, THORNCLIFFE, SHEFFIELD





LOOK UP....

LOOK DOWN



Under the tiles, Zylex Slaters' Felt,
the most reliable secondary roof
known: standard, reinforced or aluminium foil surfaced.
Not only protection, but insulation as well.
And at dampcourse level, Astos, the *supreme* dampcourse,
with the gold band every eight feet for easy
identification on site.
Whichever way you look, complete protection.

ZYLEX SLATERS' FELT

.....
ASTOS ASBESTOS DAMPCOURSE

Full technical information available. Write or telephone

THE RUBEROID COMPANY LIMITED, 48AB COMMONWEALTH HOUSE, 1-19 NEW OXFORD STREET, LONDON, W C.1. HOLBORN 8797 AND 9501

Janitor

OIL-JUNIOR BOILER

fitted with

NU-WAY model ZL2

★ An oil-fired boiler of 60,000 B.t.u./h capacity.

★ Produced to satisfy the vast "smaller house" domestic market.

★ The best in automatic oil-firing by combining Janitor boiler efficiency with Nu-way experience.

Janitor provides 80% nett thermal transmission efficiency. ★

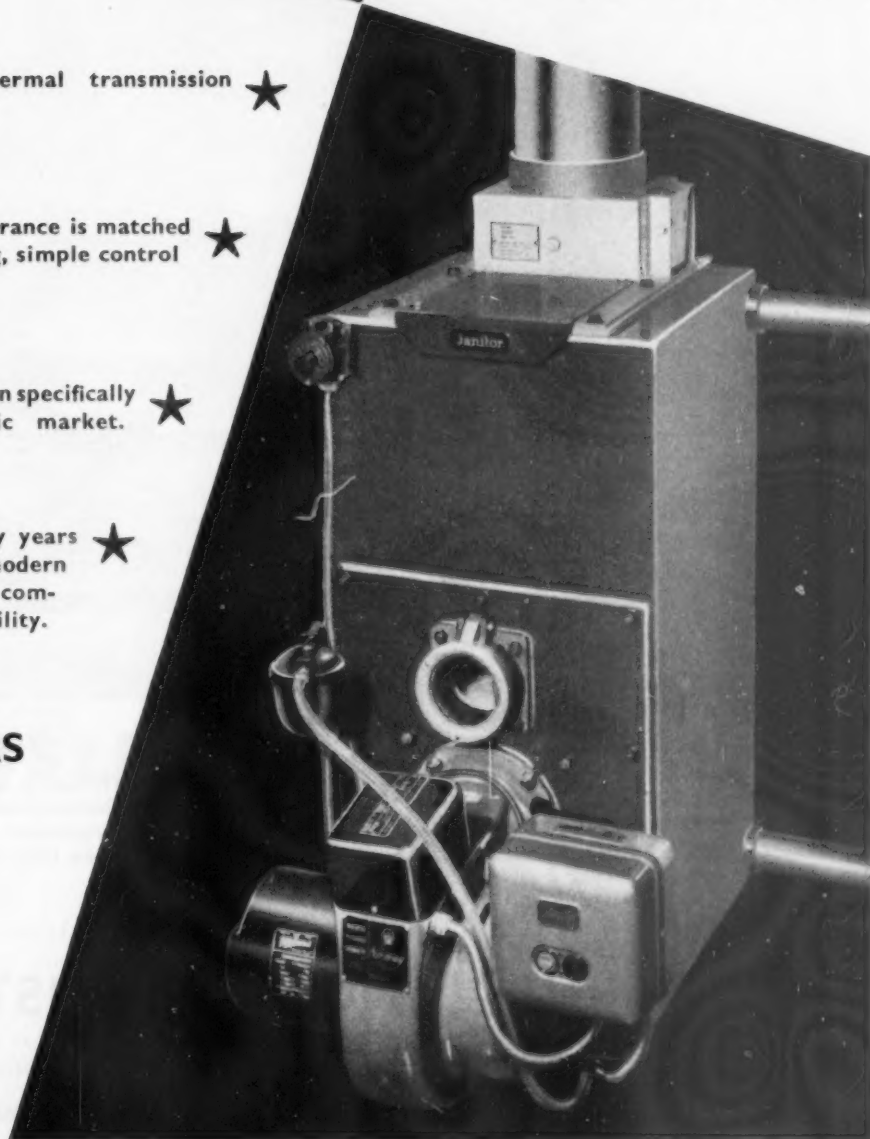
Janitor modern attractive appearance is matched by clean operation, quiet running, simple control and minimum running costs. ★

Nu-way burner model ZL2 has been specifically designed for today's domestic market. ★

Nu-way ZL2 is backed by forty years experience and although most modern in design incorporates well-tried components to ensure absolute reliability. ★

**JANITOR BOILERS
LIMITED**

Camberley . . . Surrey



Put the sun into your ceilings



Display Warehouse and Offices, Birmingham, for
Messrs. Richard Lunt & Co. Ltd.
Architects:
Messrs. Essex, Goodman & Suggitt.
Consulting Engineers:
Messrs. Hoare, Lea & Partners.
Heating Engineers:
Messrs. Hopes Heating & Engineering Ltd.

Efficiency with comfort
Plaster Undersurface-tiled or in-situ
Decorative and acoustic
Uses low temperature hot water

RADIANT HEATING & ACOUSTIC CEILINGS

STRAMAX CEILINGS (G.B.) LIMITED

19 Rea Street South, Birmingham, 5. Telephone: MIDland 4674 London Office: 170/172, Falcon Road, Battersea, S.W.1. Telephone: BAT 2587.

Does **anyone** make Ceramic Tiles
in **British Standard Colours**?



RICHARDS **DUROSILK** SERIES

has been selected and tabulated to accord with B.S. 2660,
(Colours for Building and Decorative Paints),
the appropriate B.S. serial number being shown in each case.

This range of colours was developed in co-operation with

THE BUILDING RESEARCH STATION

(whose help we gratefully acknowledge) and, we are happy to say

THE ENTIRE RANGE HAS BEEN ACCEPTED BY THE
COUNCIL OF INDUSTRIAL DESIGN

for inclusion in

DESIGN INDEX

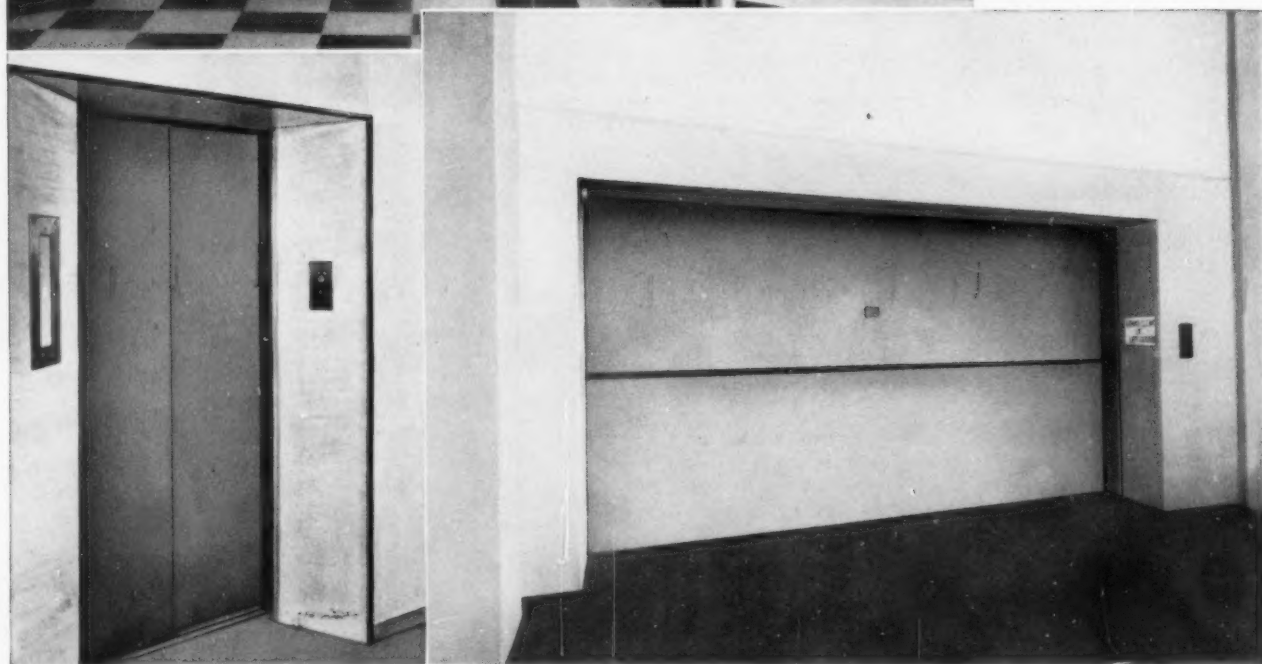
We should welcome your enquiries—please ask for Folder B.101

RICHARDS TILES LTD., STOKE-ON-TRENT, ENGLAND





BOLTON





There's a BOLTON DOOR for every type of Lift



Bolton Lift Doors cover every requirement and now include radial doors for lift cars or landings, two-speed doors, bi-parting doors with either horizontal or vertical action, shutter doors and multi-leaf doors.

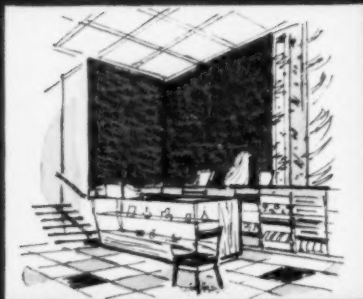
All these doors may be had in a wide variety of finishes.

Our latest leaflet, reference AJ .352 describes and illustrates the range of doors and their applications.

BOLTON GATE COMPANY LIMITED BOLTON LANCs

Branches at :- London, Glasgow, Birmingham and towns throughout the country

Ⓒ BG 352



The quiet revolution

Whilst modern interior design has been making its unparalleled strides of recent years, a minor revolution has been taking place quietly in the background. This is the swing to vinyl as a wall covering. Now, with the introduction of Muralionide, this movement has gained rapidly in momentum. Muralionide is the first range of P.V.C. coated fabrics in the country to include patterns on large modular scales designed specifically for use as a wallcovering. It is most durable. Kicks, scratches and general wear and tear make little impression on its tough P.V.C. surface. Fabric-backed, Muralionide is chip-proof, peel-proof and washable. And the colours, fused in under high temperature, are resistant to fading. Yet practical as it is, Muralionide, with its matt finish and thick embossed texture, has the look and feel of luxury.

London: H. J. Gentry
Birmingham: H. J. Gentry
Manchester: H. J. Gentry
Cardiff: H. J. Gentry
Glasgow: H. J. Gentry

Edinburgh: H. J. Gentry
Sheffield: H. J. Gentry
Blackburn: H. J. Gentry
Leeds: H. J. Gentry
Nottingham: H. J. Gentry
Southampton: H. J. Gentry
Wolverhampton: H. J. Gentry
Wrexham: H. J. Gentry

MURALIONIDE

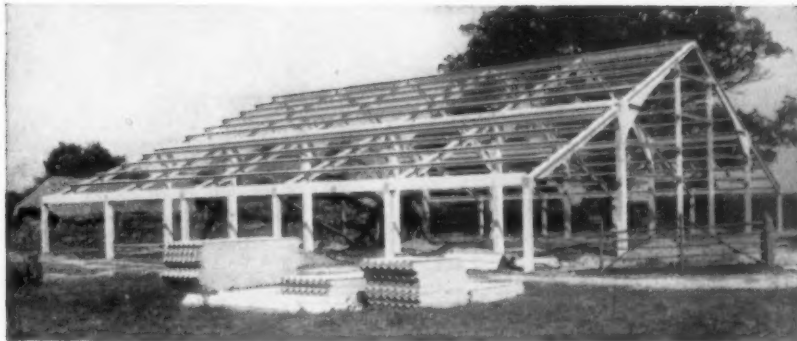
vinyl wallcovering

Muralionide, the world's first modular scale vinyl wallcovering, is made from a special type of vinyl which is resistant to wear and tear. It is a new type of wallcovering which is designed to last for many years. It is a new type of wallcovering which is designed to last for many years. It is a new type of wallcovering which is designed to last for many years.

For further information please write to:-
 JAS. WILLIAMSON & SON LTD LANCASTER

PRECON

INDUSTRIAL BUILDINGS

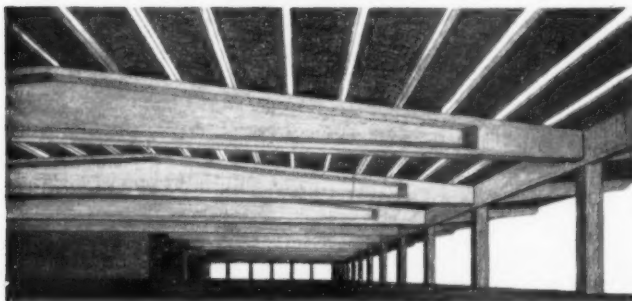


PORTAL FRAMES up to 50 ft. span $22\frac{1}{2}^\circ$ Pitch. Lean-to's up to 30 ft. span.

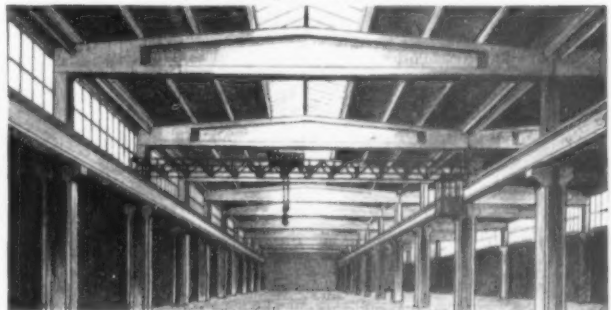


MULTISPAN PORTAL FRAMES Any Combination of Spans.

LONG SPAN BEAM CONSTRUCTION 40 ft. and upwards.



LONG SPAN BEAM CONSTRUCTION
40 ft. and upwards. 4° Pitch.



That extra few thousand square feet, that new canteen, that covered store, that garage, that new drawing office—you can have them at small cost and very quickly with a Precon building.

Precon make the finest precast concrete buildings—buildings to be proud of—permanent buildings which require no maintenance, are fire resistant and can easily be added to.

Full erection service, foundations, frames, roofing, including insulation.

Write or 'phone today with brief details to find out just how quickly and cheaply you can get your next building.

FOR ECONOMY AND SPEED

PRECON LIMITED

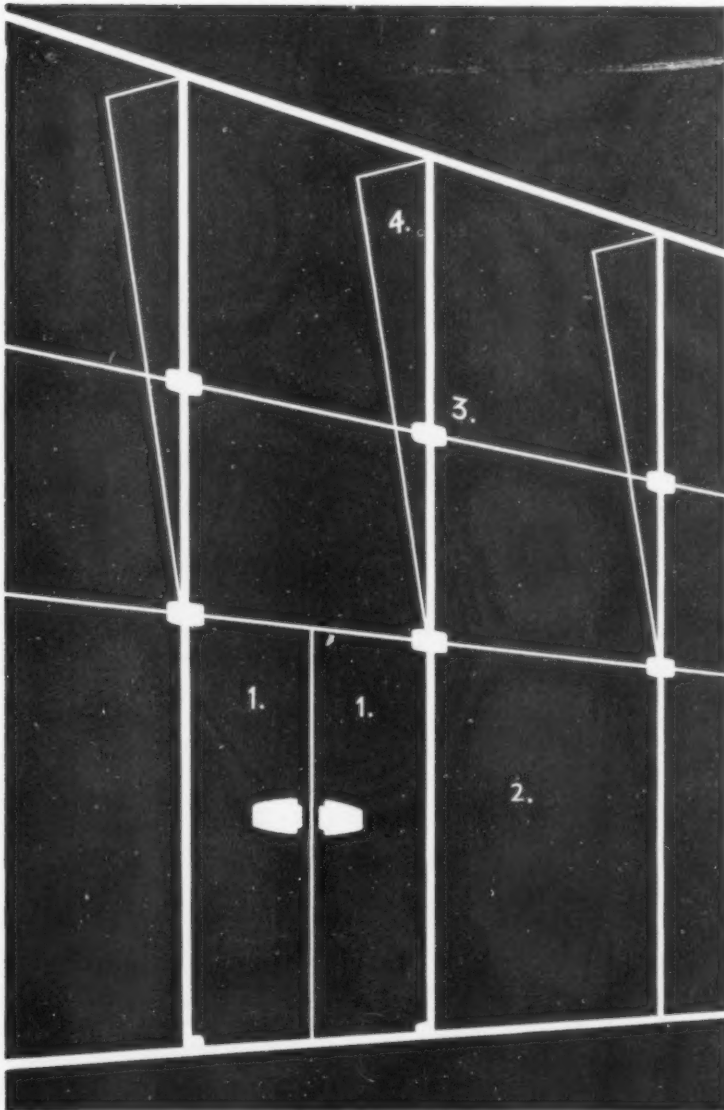
HARBOUR ROAD • RYE • SUSSEX • RYE 3003



This showroom front, based on an idea by Edward D. Mills, F.R.I.B.A., exemplifies the opportunities for erecting imposing all-glass assemblies using Pilkingtons' "ARMOURPLATE" Glass Doors and Panels.

Expansive Elegance

Pilkingtons' "ARMOURPLATE" Glass Doors and Assemblies



Now, the inviting elegance of "ARMOURPLATE" Glass Doors can be expanded to include the whole frontage. For full details of Pilkingtons' "ARMOURPLATE" Glass Assemblies and fittings—which make possible uninterrupted expanses of glass, two storeys high—write to the manufacturers, Pilkington Brothers Limited.

- 1 Pilkingtons' "ARMOURPLATE" Glass Doors (guaranteed five years) are available in standard sizes up to 96" x 36". Non-standard sizes made to order.
- 2 "ARMOURPLATE" Glass fixed panels and transoms are available in sizes up to 164" x 60".
- 3 "ARMOURPLATE" Assemblies require no metal framing. Small patch fittings link and secure the separate panels.
- 4 Rigidity is ensured by interior "ARMOURPLATE" Glass fins.



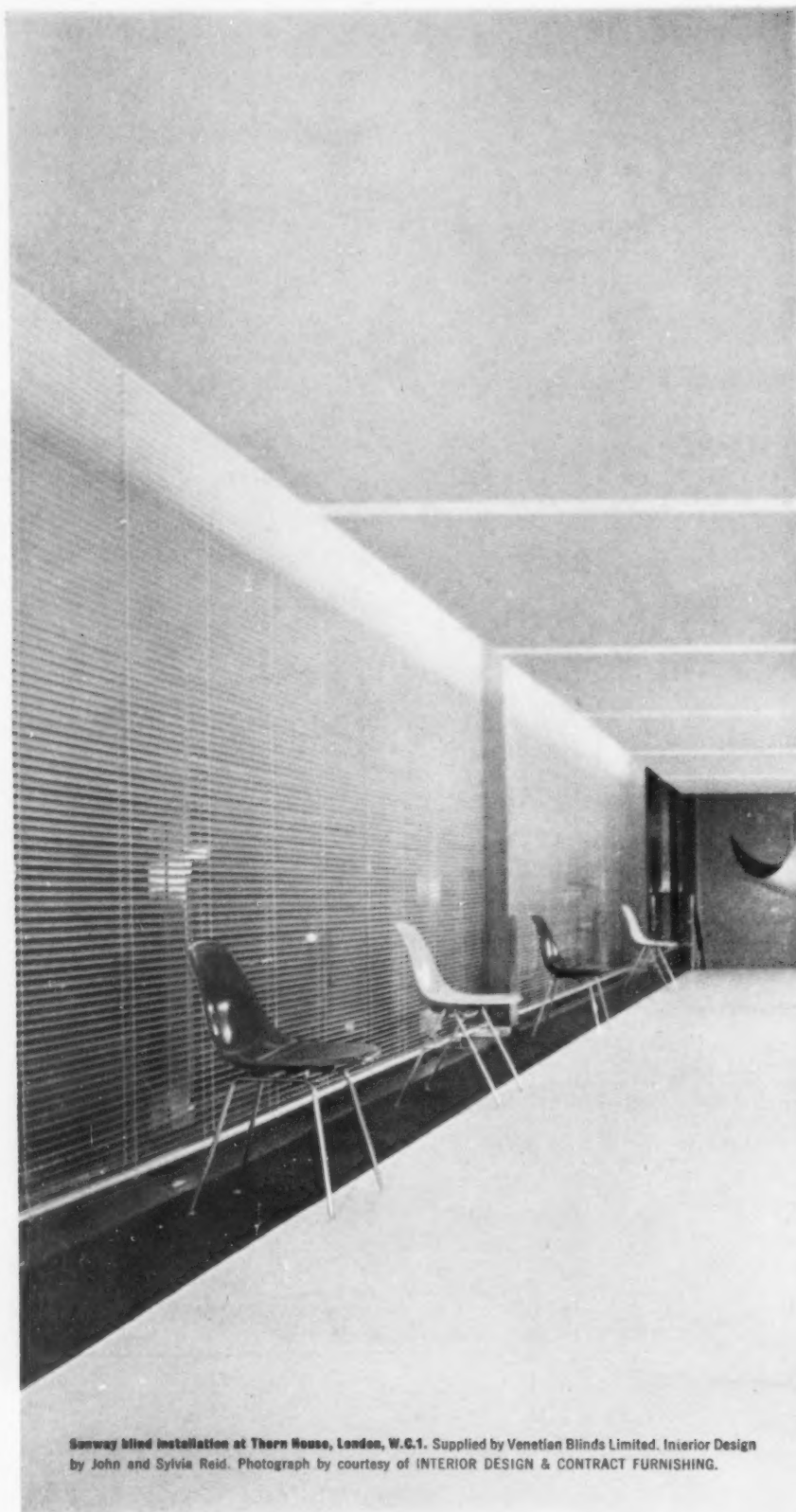
PILKINGTON BROTHERS LIMITED

HEAD OFFICE: ST. HELENS, LANCASHIRE (TEL: ST. HELENS 4001)

LONDON OFFICE: SELWYN HOUSE, CLEVELAND ROW, ST. JAMES'S, S.W.1 (TEL: WHITEHALL 5672-6)

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





Sunway blind installation at Thorn House, London, W.C.1. Supplied by Venetian Blinds Limited. Interior Design by John and Sylvia Reid. Photograph by courtesy of INTERIOR DESIGN & CONTRACT FURNISHING.

The
blinds,
of
course,
are

SUNWAY
REGD

- * 3 slat sizes
(2", 1 $\frac{3}{8}$ " and 1" wide)
- * 21 slat colours
- * 'Terylene' Minivisible web

VENETIAN
VOGUE
LIMITED

Slough · Bucks · Slough 26611 (10 lines)

LEAD that is Good²
with a capital G!

G **LYNN**

Glynn Brothers Limited have a capital reputation for their milled lead sheet and strips to B.S.1178/1944, for building purposes... lead pipes to B.S.602/1956... chemical lead sheet and pipe to B.S.334/1934 for use mainly in chemical plant or where acid-resisting receptacles and laboratory plumbing are needed.

Silver, copper, lead alloy pipes to B.S.1085/1956, and B.N.F. Ternary alloy No. 2 lead pipe to B.S.603/1941 can also be supplied speedily to all parts of the country.

GLYNN BROS. LTD.

PARK ROYAL ROAD, LONDON N.W.10. Telephone: Elgar 7011
Other Works: TRAFFORD PARK, MANCHESTER 17 & BILSTON, STAFFS. Telephones: TRAFFORD PARK 1444 and BILSTON 41615
SOUTH WALES WAREHOUSE: PENARTH ROAD, CARDIFF (TEL: 22502)

Manufacturers of LEAD SHEET AND PIPE. SOLID DRAWN COPPER TUBES. STEEL TUBES AND FITTINGS. STEEL TUBE FABRICATIONS. MALLEABLE TUBE FITTINGS.



The Architects' Journal

No. 3435. Vol. 133. February 16, 1961

9-13 Queen Anne's Gate, London, S.W.1. Whitehall 0611

Subscription rates: post paid, inland £2 15s. 0d. per annum; abroad £3 10s. 0d. per annum. Single copies, 1s.; post paid, 1s. 6d. Special numbers are included in 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 17s. 6d.; carriage 2s. extra.

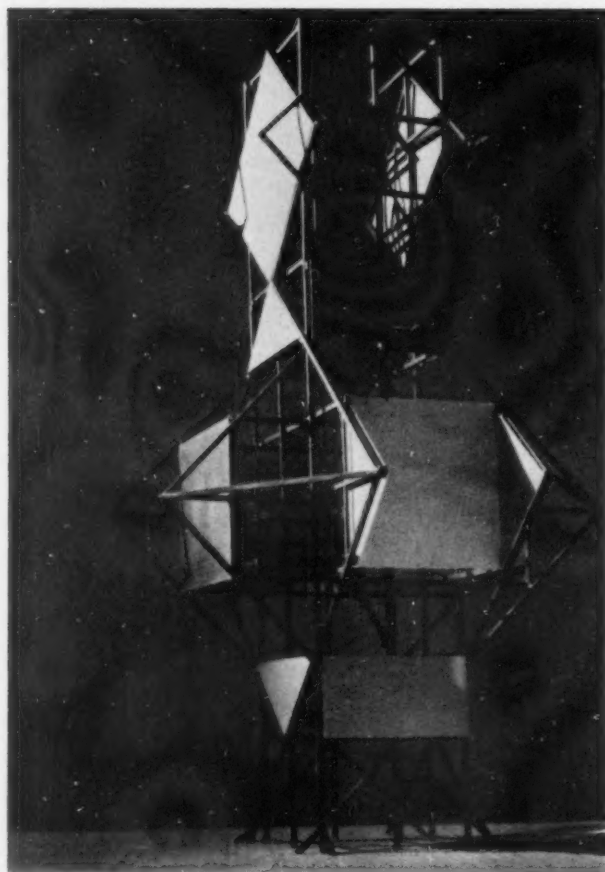
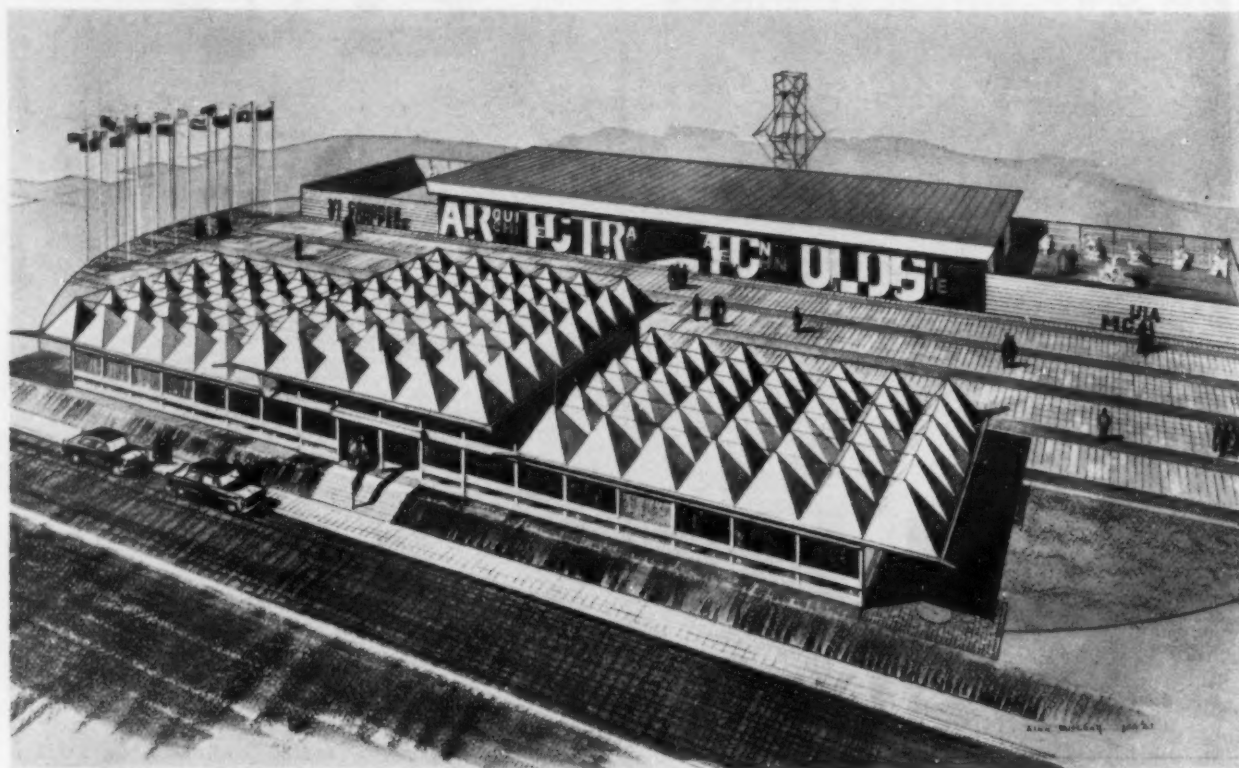
NOT QUITE ARCHITECTURE

A Genuine Shambles

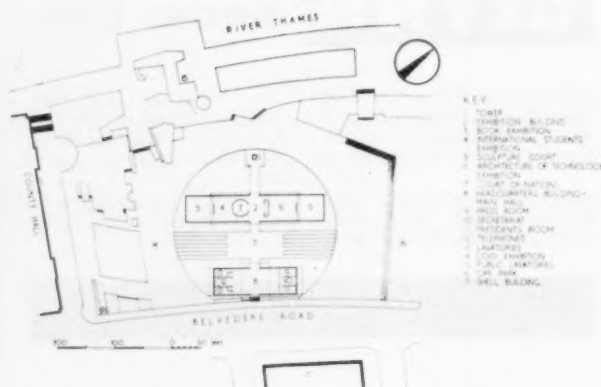
The British Museum has just staged an exhibition of *Forgeries and Deceptive Copies*. I use the words "staged" and "exhibition" only after taking legal advice: I am assured that they are not libellous, though less accurate than some such form of words as "... dumped a lot of old junk in the middle of the Print Room." It is difficult for anyone who has not seen this extravaganza to imagine that such a shambles could be committed in one of the world's greatest and most respected museums, but there it is: it looks almost as if the BM, realising that it might have a popular success on its hands, has set out to prove the truth of Sir Mortimer Wheeler's recent accusations.

At the door of the Print Room the visitor is greeted by a notice which appears to imply that this isn't the forgery show at all. However, clearly visible just inside the door is that noblest of all fakes, the BM's own "Etruscan" sarcophagus, which has, for some reason, a large brown paper parcel crammed under it, between the sarcophagus legs. The prints, drawings and watercolours, being already mounted, are more or less proof against bad display, though it can hardly be said that they are seen to their best effect, and many visitors will have left the show marvelling at the uncanny accuracy of what are, in fact, a group of *genuine* Turners that are part of another exhibition in the same room! Three-dimensional exhibits are not so lucky—even where some care has been taken to ensure that they are visible, as with the "mediaeval" stuff, the arrangement often fails to juxtapose the real and the fake properly, but the Natural History objects, housed like everything else in the sort of glass case that backward provincial museums wouldn't be

Temporary Buildings for the IUA Congress



These buildings, shown above in perspective and in plan below, designed by Theo Crosby, are to be erected on the South Bank for the IUA Congress in July, on the old site of the 1951 Dome of Discovery. On the left is the model for a 42-ft. tower, designed by John Ernest, using asbestos cement panels supplied by Turners Asbestos Cement Co., one of the many added features, chiefly murals, which are integral elements of the scheme. The buildings, described more fully on p. 424, promise to be a stimulating temporary counter to the growing dreariness of the South Bank.



seen dead with, are shown in a complete jumble and, to look squarely at the X-ray of one of the "Mermaids" properly, you would have to get inside the case with Piltown Man.

The catalogue is in keeping, containing a number of genuine misprints, but failing to list the exhibits in detail, or in such a way that you can refer to it for information. Its mental pitch is effectively established by the following dull splodge of deathless prose: "As a former distinguished member of the staff said, when given a preview of some of the exhibits: 'what fun it is when someone takes an enormous amount of trouble to be really naughty'."

The catalogue also contains the following impressive statement: "Mr. J. A. D. Skillen; Mr. W. M. Akehurst; Mr. H. E. Porter; Mr. J. M. Brennan; Mr. H. J. Hussey; Mr. R. Ralph; Mr. P. H. T. Shorer; Mr. P. C. van Geersdaele; Mr. L. W. Lea; Mr. W. G. White; Mr. J. Andrews; Mr. D. Reardon; Mr. B. Levy; Mr. W. Osborn; Mr. F. Eldred; Mr. D. Dudley; Mr. L. R. Langton; and Mr. C. A. Bateman have given much time and thought to the presentation and lighting of the exhibits. . . ." All one can say to that is "Congratulations, gentlemen; you loused it up real good!"

The whole thing is a doubly bitter disappointment: bitter because it is in the Print Room gallery, which is one of the great good places of London, where you are more than likely to stumble on a fabulous show of Turners or Japanese prints or Mannerist drawings or some such; bitter, also, because the stuff in the exhibition is fascinating and disturbing. Fascinating because here, for instance, is the whole weird story of the bust of Flora by "Leonardo da Vinci"—a yarn too good for Saki—or some choice examples of the art of Thomas J. Wise, top bibliophile and master forger, who proved that literary men have glass eyes by getting away with forgeries in which the type-faces are not only different from the originals, but different on succeeding pages! Disturbing not only for the usual van Meegeren reasons, but because the "Etruscan" sarcophagus seems to have lost nothing in being revealed as a fake; if anything it has gained an extra aura because of the admiration it inspires that a couple of Roman layabouts should have managed to imbibe so much of a culture that archaeologists still find mysterious and rather inaccessible. Disturbing, too, because the means of detection is still hunch, flair, taste, or what have you. As old Helmut Ruhemann used to say to us at the Courtauld: "First must come the artist and the critic, who *knows* that this is not right, and then afterwards can come the scientist and *prove* that it is not right." Or in other words, scientists are so culture-stunned that they wouldn't dare to scrape a piece off a van Meegeren for analysis until some critic had told them it didn't matter because it wasn't a Vermeer anyhow. What a shower of creeps! Start scraping the *Virgin of the Rocks* now. Everything is fake until proved genuine.

REYNER BANHAM

The Editors

PICCADILLY CIRCUS: THE NEXT STEP

VERY wisely, the L.C.C. have now allowed Holford's stimulating proposals for the future of the Piccadilly Circus area to be published (see page 238). These show that he has had to work within a revised traffic pattern which is uninspiring, but despite this he has produced a quite brilliant tentative scheme for the redevelopment of the area, with its central feature a large pedestrian piazza, above which rises a new London Pavilion, a series of shimmering hexagons for pedestrian circulation, cafes, bars and the like, interlaced with a weaving pattern of advertisements. Despite the radical and forthright character of the winning schemes in the students' competition (see page 255) which were not limited by the stodgy lack of ideas of M.O.T., they cannot equal the refinement and sophistication of this concept.

Already these proposals have gone to the various property owners concerned, and now serious discussion can begin. The future of the Monico site itself, of course, is now much more encouraging since the Cotton-Clore group appointed Gropius and Llewelyn Davies as architects for the project. There is also the fact that the lease of the London Pavilion site will fall due to the L.C.C. in 1965. But the fate of the rest of the scheme depends very critically upon the acceptance by the owners concerned of Holford's ideas for the Trocadero block to the east, and the Criterion Theatre block on the south side of the Circus.

The negotiations that follow in the next few months will decide the fate of the scheme. The L.C.C. deserve the fullest congratulations for having commissioned Holford, and it would be tragic indeed if this initiative were now wasted. Everyone concerned, not least the Government, must bear in mind that this has now become a test case as to whether the general public good can prevail in the reshaping of such prestige areas. The Monico inquiry showed how near disaster the situation could go. As Colin Buchanan said in his report on the inquiry, it is very likely that the original Cotton scheme would now be under construction if it had not been for the publication of the famous perspective (Snap Plom for Vigour). Having made such excellent progress in retrieving the situation, the L.C.C. should not hesitate if necessary to use compulsory purchase powers and do the redevelopment themselves. This would undoubtedly require considerable courage and vast sums of money, plus Government backing. But in this area, bearing particularly in mind the potential revenue from advertising, the economic success of such a venture could readily be assured. And if the L.C.C. as we know it is to disappear under the Royal Commission proposals, such a step would be a fitting climax to all its post-war architectural achievements.



MORO AND TOMORROW

Since you read my note in last week's issue you may have assumed from your newspapers that all is now well with the ingeniously planned Nottingham civic theatre (by Peter Moro, in consultation with Dr. Richard Southern). This project—a hot political issue—scraped past the city council last week on the casting vote of the Labour Lord Mayor, after narrowly escaping defeat at two earlier committees and nearly being thrown out because of shortage of money. The Nottingham Theatre Trust, who are transferring their repertory playhouse from an old and dilapidated building, came to the rescue with £60,000. But even so Mr. Moro may have to make a few savings. They will not be made, he says, on dressing room accommodation. He may have to eliminate a covered way leading to the main entrance.

It is still possible, however, that the theatre will be eliminated altogether. The Conservatives have said they will stop work on the building if they win control of the city council in May. This, it is said, would cost the city £100,000 in fees, compensation to contractors, materials and site clearance. Apart from the Theatre Trust's contribution the capital cost is to be provided from a "city improvement fund"

which, it is estimated, would be replaced in 17 years. If the Conservatives have a chance of carrying out their childish threat they will either lose £100,000 from their fund or—and this may be compulsory—find the money out of the rates. As the Conservatives' main complaint against the proposal to improve the city's successful cultural activities is the quite erroneous one that rates might be affected, it is difficult to see what they are getting at. Maybe their civic pride is a little swollen.

WIND OF CHANGE ON THE HEATH

You may have read this week's funny architectural story, in the *Observer*, about the LCC's decision that Span should be banned from Blackheath. If not, let me tell you briefly that the Council has written to the Ministry of Housing saying that although Eric Lyons' designs are "of a high quality" they should be opposed in future because future developments of this kind "might have a serious effect on the character of the area."

The *Observer* accompanied this hilarious story with a picture of Blackheath which asked, quite clearly, "What character?"—a picture showing pre-war Tudor, detached, pre-war vogue "reproduction" flats, post-war Georgian and genuine Georgian. By the time you read this Span Developments will, I hope, have twisted the tail of the LCC at a local inquiry at Greenwich Town Hall. The subject of the inquiry is not—of course—whether or not the ban should be imposed. It is a joint Ministry/Council hearing of two appeals by Mr. Lyons in respect, as they say, of three planning applications the Council has been sitting on since August.

Principal opponents to modern development in Blackheath include Greenwich Borough Council and the Blackheath Society. They both raise objections to one of the proposed buildings—a four-storey block of 12 flats in Morden Road—by saying they don't object to redevelopment in principle. The Council says it is "out of keeping with the positive architectural character"; and the Society says it is "disruptive of the general architectural unity." This might sound quite con-

vincing if you didn't know Morden Road. Here are some useful statistics on road frontages. *Pre-1840 housing*: 130 ft. *Housing from 1880-1920*: 175 ft. *Inter-war housing*: 745 ft. *Post-war housing*: 640 ft.

Isn't it time the LCC was a bit more careful about making itself look silly in public? You would have thought that no-one in his senses would take such a curious attitude to a type of housing which a previous inquiry inspector had described as suitable for the site because it was sensitively detailed. Even the Minister himself has praised it for not being "another dim repetition of outdated types."

AA TO LCC

None of the candidates I heard of for the post of principal of the Central School of Arts and Crafts was better qualified for it than the man who has got it, Michael Patrick.

It is particularly interesting that a school that doesn't include architecture among its courses has now an architect at its head, and the breadth of Michael Patrick's interests and experience will equip him well to take on the job. His efforts to get the AA to co-operate in the LCC's college of building project came to nothing through no fault of his own. Now he will have the opportunity to experiment with integrated education in a rather different field.

Congratulations both to the LCC and to Michael Patrick, whose friends in Bedford Square will be pleased to know he is moving only a few blocks farther east.

OUTSIDE THE PAIL

A letter in the *Guardian* has welcomed the news that progress is being made in extending the Royal Festival Hall building. The writer hopes the distinguished architects involved will not fail to repeat one of the most unusual backstage refinements to be found in the existing building. "The soloist who wishes to wash his hands in the artists' room there has only to push aside a screen in the corner, and he will find a charming piece of period furniture rather like a school desk. Lifting the desk lid he will discover a capacious



The LCC has said that further designs by Eric Lyons for Span Developments (example on right) "might have a serious effect on the character" of Blackheath. Something of the character—prefabs and police flats—is shown above. (See "Wind of Change on the Heath.")

basin, and nearby a handsome jug from which to fill the basin with water. Nor is this all: the basin is provided with a plug and when he removes this the dirty water will run freely away into a bucket beneath."

*

The writer adds that this striking apparatus is, in his experience, unique among our major concert-halls, and must surely create a lasting impression of British architectural and plumbing skill in the minds of all the eminent soloists who have made use of it.

HOUSING ENGINEER

Berkhamsted Urban District Council insist that they are leaving the design of 150 houses in the hands of their engineer and surveyor. They say this in spite of protests from some of the councillors that the best professional man should be employed to get the best results. There has also been a protest from the Berkhamsted Citizens Association, one of the amenity societies under the wing of the Civic Trust. But the parochial attitude of self-satisfaction and counting the pennies prevails. It is said that the engineer and surveyor have already completed plans, quickly and proficiently, for an extra storey over the council chamber. Nevertheless some of the residents are still very dissatisfied. They dislike the engineer-designed housing built since the war and were hoping for a better standard of housing to improve the district.



EXCHANGE NO ROBBERY?

Although you can charge clients for such items as extra copies of drawings and for travelling time, one of the things not mentioned in the RIBA scale as a possible extra which you can pass on to the client is the telephone bill. In my experience architects use telephones more often, and for longer, than any other profession, and the new method of charging is likely to be something of a menace.

*

Or is it? If you apply Parkinson's theory about work expanding to fill the time available for it you'll realise that one of two things can happen. Either you will spend just as much making ten times as many phone calls to fill in the time when you're not still on the phone to people you have dealt with quickly. Or you will have so much time off the telephone that your extra man-hours will earn you the money you could have spent on longer phone calls.

WHO WERE YOU WITH LAST NIGHT?

The public relations people in the Shell Organisation have been ordered to carry out a gradual indoctrination of the public on the facts and aesthetics of their new headquarters building on the South Bank. It seems that Shell realise the new building will invite comment, but they comfort themselves by saying there is "no absolute in architecture and design." For the time being the firm plans to avoid publicity as much as possible, but says it "should . . . begin now to speak more freely to bona fide inquirers with sufficient background information to instil reason into such comment as they wish to make." A series of questions and answers have been drawn up to guide the Shell staff in showing how far they may go in answering inquiries; these include such questions as "what will it be like to work in?" and "is your building really necessary?"

ASTRAGAL

Holford's Plan for Piccadilly

Sir William Holford last Friday presented his first, tentative but highly stimulating scheme for the development of Piccadilly Circus to the local property developers and the national press. He presented it in the form of two models demonstrating alternative methods of developing the London Pavilion site—but otherwise identical—which in Sir William's scheme becomes the linch-pin of the new Piccadilly, the focus of attention at night, when it becomes bright with new-style, three-dimensional skysigns, and the means of attracting the pedestrian population up the escalators to enjoy all the various amenities to be provided up there, combining restaurants and cafés with lively views of the life that whirls round this hub of London (and will be able to whirl a good deal faster when the traffic reorganisation of the area is complete).

Piccadilly remains the centre of a traffic roundabout, and Holford made clear that it must do so for a very long time ahead, until the Ministry of Transport reaches much more fundamental conclusions about London's main traffic routes. But the essence of the scheme is to push the traffic roundabout back, stage by stage, from the hub, linking the pedestrian piazza directly to the new buildings to the north and east and raising the new London Pavilion building above the traffic flow.

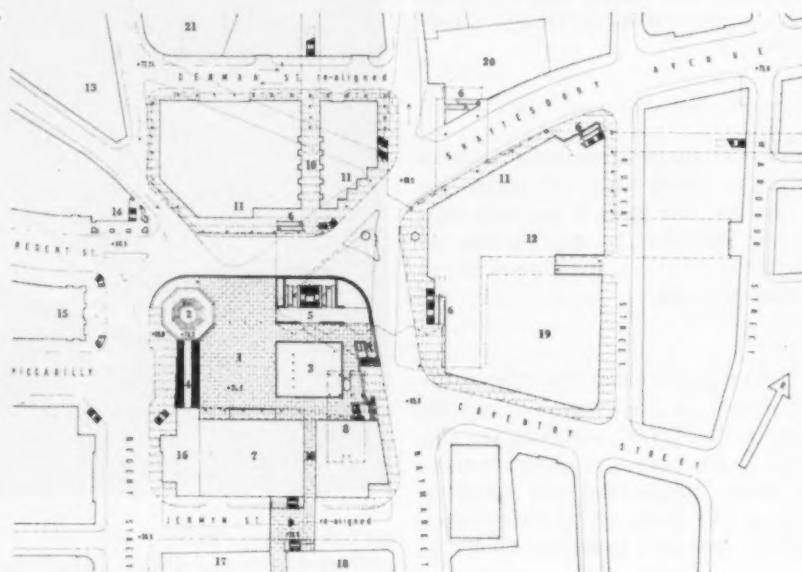
To achieve this, Holford has proposed three-level pedestrian circulation: a central piazza raised seven feet above road level—with Eros duly on point duty, but mounted on top of a flower shop; an extended Underground concourse, linked to the piazza above by escalators, and an upper deck flowing round and through the pleasure domes—jolly, if not stately—of the London Pavilion, and towards Soho to the north and Leicester Square to the east. There remains one pedestrian crossing of the traffic road, from Swan & Edgar's pavement, for the use of hardy souls, and leading on to the encircling ramp of the piazza. This

crossing, which Holford admitted was far from being an ideal solution, forms a necessary, ground-level link with the bottom of Regent Street and with Piccadilly, where no fundamental redevelopment is likely in the foreseeable future. It was wise to leave all the buildings on the west of the Circus unaltered, for though undistinguished in themselves they have the great virtue of being on the original Nash alignments.

Covered escalators will link the underground concourse with the piazza: a subway into the Monico and leading to Soho, another into Shaftesbury Avenue, a third linking the Criterion site on the south, while the traffic stream would pass under the new

London Pavilion into Shaftesbury Avenue and through Great Windmill Street, widened and aligned with the Haymarket, from which it would reach Piccadilly and Regent Street via a widened Jermyn Street outside the Circus proper.

The Monico building, realigned as the plans make clear, would not be taller than the County Fire Office to the north, housing shops and a department store with a restaurant above, and backed by a high block of offices. The detailed design of this building, however, Sir William has very properly left to Mr. Jack Cotton's architects, Gropius and Llewelyn Davies, merely suggesting the possibility of a roof top car park, concealed



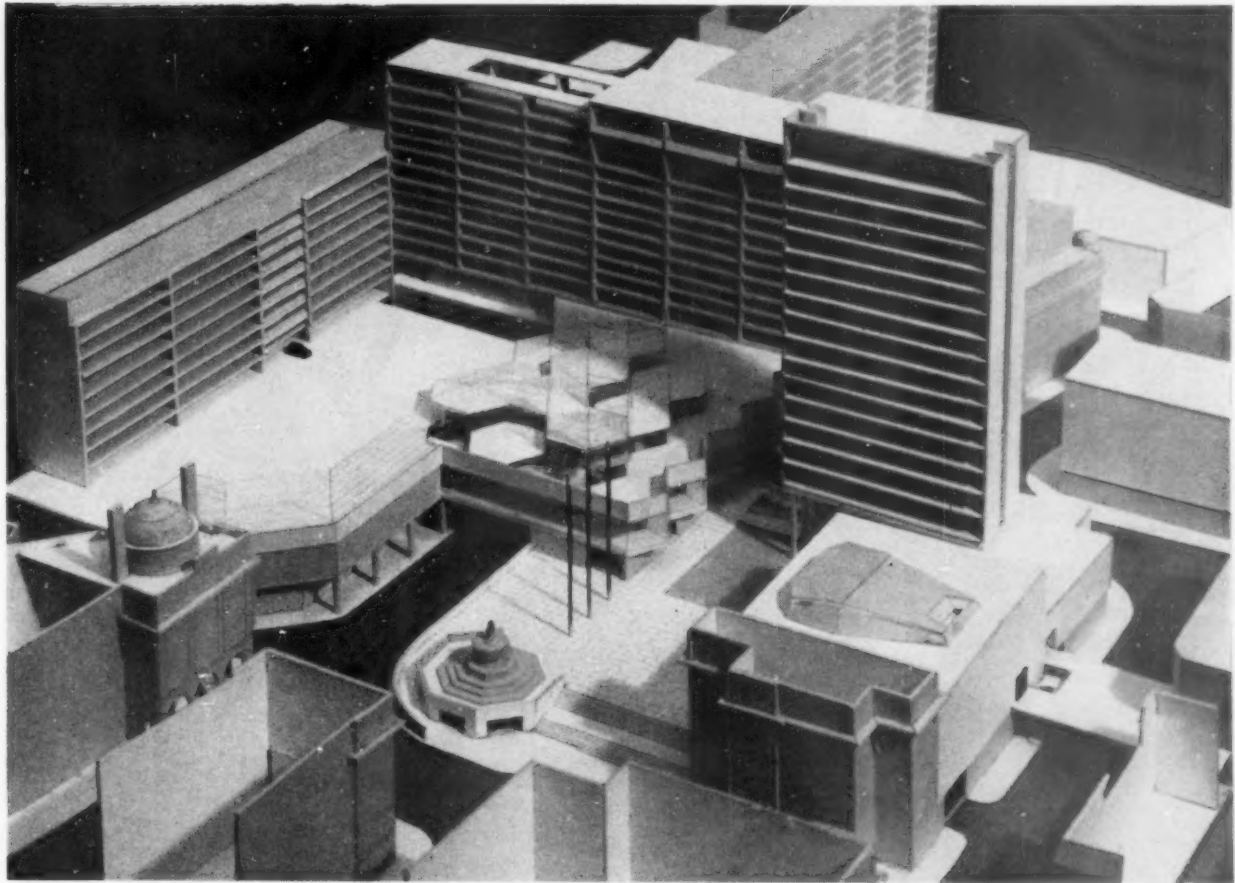
Plan at the platform deck level, with extensions beyond the new London Pavilion over Denham Street into Soho, and eastwards over Rupert Street towards Cambridge Circus

Plan at piazza level, showing the realignments proposed, and the continuation for pedestrians over Jermyn Street

KEY

1. Raised piazza
2. Eros (with flower shop below)
3. Shallow pool (with fountain jets)
4. Broad flight of steps
5. Main stairs and escalators connecting concourse, piazza and platform levels
6. Escalators connecting platform to street level
7. New Criterion Theatre
8. Tower of offices, with luxury flats above
9. Pedestrian bridge over Jermyn Street
10. Shopping arcade
11. Shop fronts
12. New hotel
13. Regent Palace Hotel
14. County Fire Office
15. Swan & Edgar
16. Lillywhites
17. Croydon Tea Centre
18. Gaumont Cinema
19. Lyons' Corner House
20. Lyric Theatre
21. Piccadilly Theatre
22. Existing Underground concourse
23. New concourse
24. Access for car parking and servicing below ground
25. New pedestrian subways
26. Men's lavatories
27. Women's lavatories
28. GPO telephones
29. Platform (pedestrian deck and "new London Pavilion")
30. Cafés
31. Bars
32. Restaurant
33. Hotel foyer and entrance to public rooms
34. Offices over
35. Raised pedestrian way
36. Shops or departmental store





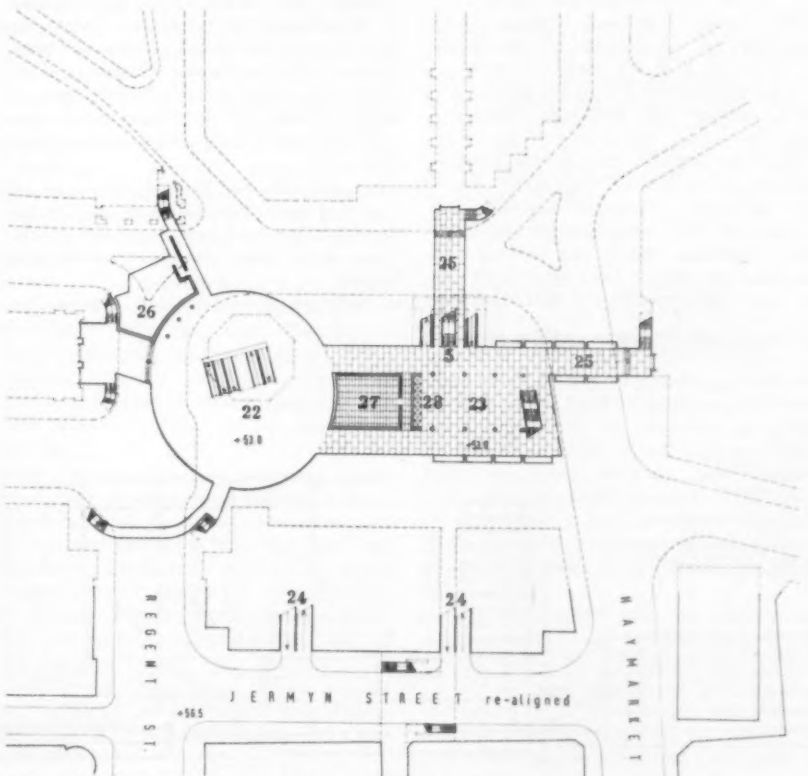
Model of scheme B (to which plans refer), a second version, with a lower and more horizontal design for the new London Pavilion

behind a fence of skysigns, and that the pedestrian upper deck could be carried from the London Pavilion to link with the Monico site, either as part of the Monico development or as that of the LCC.

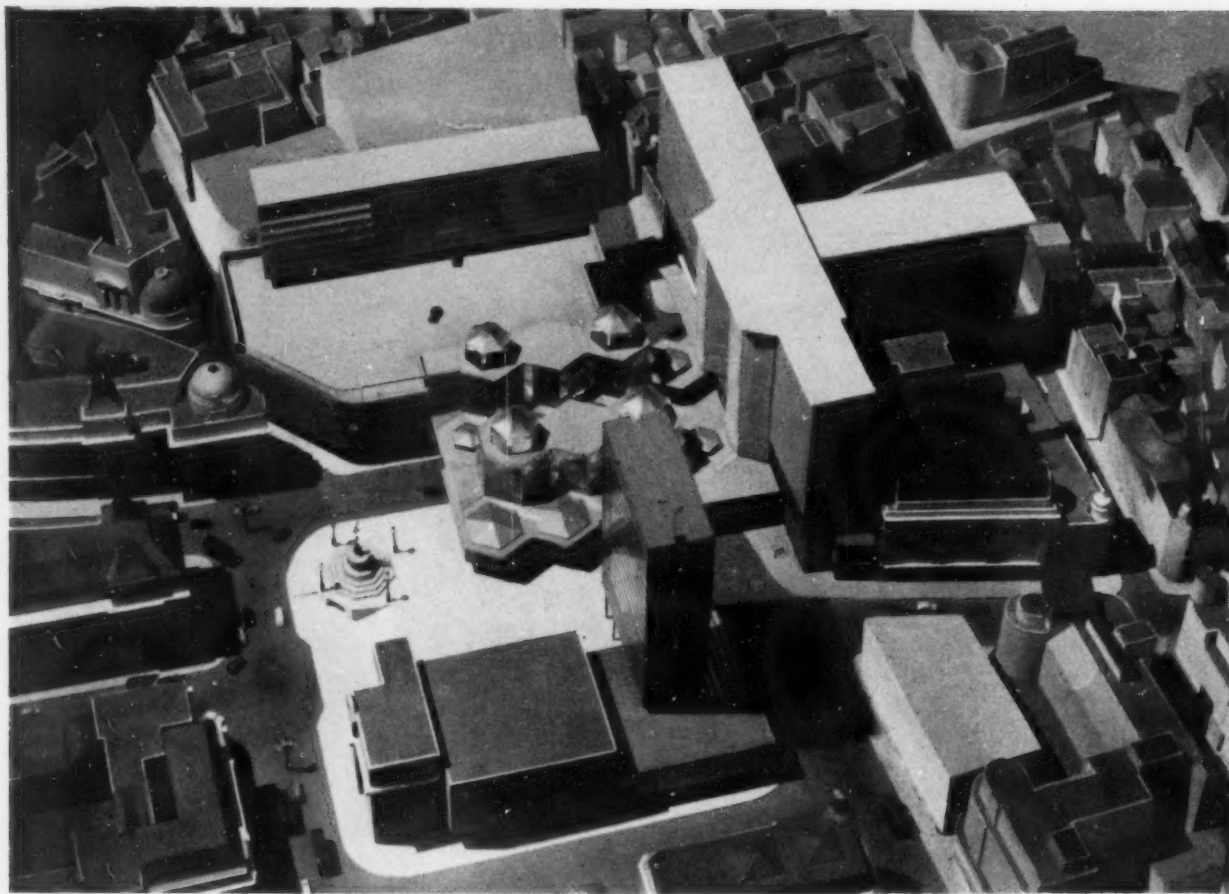
Most exciting is undoubtedly the proposals for the London Pavilion development, which Holford sees as "a sort of Crystal Palace": scheme A a building of light structure and transparent materials, lit up gaily from within and without, and supporting a number of illuminated signs which show infinitely more imagination than the advertising experts have ever displayed. Alternatively, Holford envisages a lower type of building here, scheme B, lending itself to "much more amusing illuminations than the conventional ones," set at angles to each other so that different facets are revealed as one moves on and around.

Sir William defended the idea of upper level shops and restaurants confidently. "People say that people will not go upstairs to shop," he said. "I don't believe it. It's done in Stockholm, and in fact we are forced to do it here." Of course people would not use escalators if all they found at the top of one was the top of another, leading down again. "There must be something attractive at the top," he said.

The whole scheme is designed, said Sir William, to create a sense of enclosure, and to fill that enclosure with the gaiety and bustle of a great city centre. He believed it would work and would pay. If the



Plan at underground concourse level, showing the new extensions to the east



Model of scheme A, the first prepared, showing the pavilion type of development proposed for the pedestrian deck

LCC took on the comprehensive development of the Pavilion site and the hotel it would provide additional revenue which would pay for the scheme and such necessary parts of it as the escalator system. "I am only concerned with the cost of the public elements and not with developer's costs," he said, "but I believe we could provide the revenue through the London Pavilion site to pay for the public costs." The developers concerned had met Sir William and LCC representatives before the press conference, but it was too soon to give their reactions. "They must work out the economic feasibility," said Holford,

before expressing their opinions.

And the time schedule? Given agreement on the general outlines of the scheme, he said work on the Monico site could begin at once, and the London Pavilion and its upper deck could begin when the present building's lease falls in in five years' time—"unless the lease were extinguished earlier."

The south side, said Holford, was more of a guess. Development could be quick if the developers involved saw its advantages. If it was worth doing, the only problem was financial.

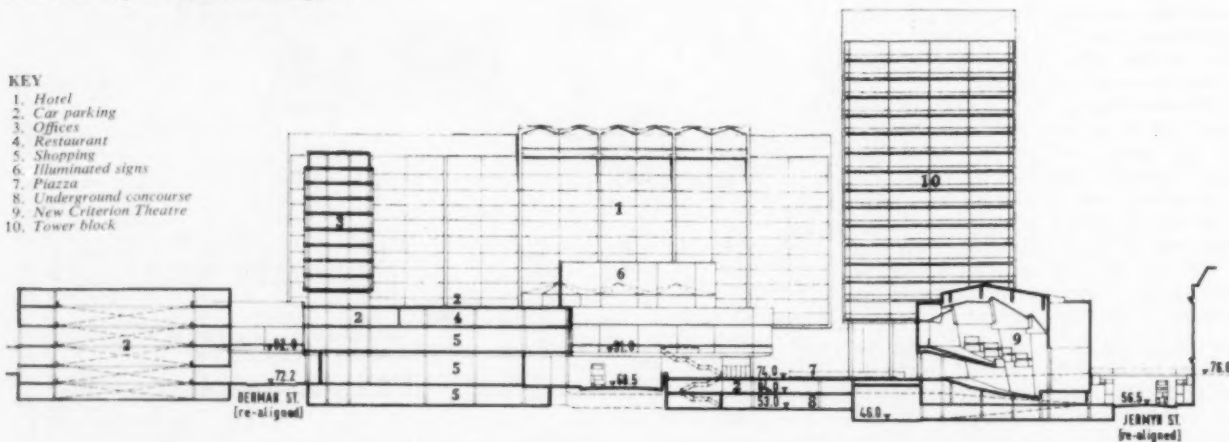
He went on to explain that in producing

the scheme, he and the LCC had more or less adopted the Ministry of Transport's plans for London traffic in the foreseeable future. "We had to assume that Piccadilly could not be bypassed for a long time," he said, "it is the West End's biggest traffic intersection. Eventually we hope for complete pedestrian segregation: as it is, this scheme would give about 80 per cent. segregation. We have met the Ministry of Transport, we are meeting them again about difficulties, such as the position of bus stops. But we can't produce an ideal scheme with an underpass—dearly though I should have liked to."

Section through the Circus looking east

KEY

1. Hotel
2. Car parking
3. Offices
4. Restaurant
5. Shopping
6. Illuminated signs
7. Piazza
8. Underground concourse
9. New Criterion Theatre
10. Tower block



NEWS

RIBA

Evidence to the Pilkington Committee

The RIBA believes that television could do much more both to raise the standard of efficiency in the building industry and to create an informed public opinion about architecture which would help to banish ugliness from towns and cities, and it states its case confidently in the evidence submitted to the Pilkington Committee on the future of sound broadcasting and television, published last week.

Both the BBC and the commercial companies are criticised for not devoting more time and thought to popular programmes on architecture, building and the physical environment in which we live, and the RIBA contrasts this lack of concern with the immense effort to make the most difficult scientific problems intelligible.

Looking ahead to new broadcasting channels, the RIBA urges that these should not be dependent upon commercial advertising, but should be publicly controlled and primarily used for educational and cultural programmes, designed for minority audiences, some of which might be run, it is suggested, by universities.

The Report begins by pointing out that the Institute has a Sound Broadcasting and Television Sub-Committee, of which Sir Hugh Casson is chairman, and which aims to offer suggestions for programmes to the BBC and the commercial television companies. (One would have liked to know of some of the suggestions which have been made and not adopted, and what suggestions produced successful programmes.)

"There are three reasons for the RIBA's interest," the Report points out: first, that the RIBA is a learned society concerned with the advancement of art and science and an educational body responsible for the control of architectural education. "The second is that the quality of our physical environment . . . is of immense and growing importance. The third is that the efficiency of the building industry, in which architects play a key role, fundamentally affects our national prosperity."

Expanding these three points, the Report points out that our "unrivalled heritage of beauty . . . is today overshadowed by the grim legacy of ugliness and inconvenience inherited from the industrial revolution, by the congestion of town centres, and by the vast, sprawling squalid mess known as Subtopia that has been allowed to proliferate in recent years. . . . The reconstruction of large parts of our existing towns and cities to make them function efficiently and to provide an environment for a good life is possibly the greatest single domestic task facing the British people in the next 40 years. Yet the public is only dimly aware of this facet. . . .

"All experience shows that good architecture . . . depends to a large degree upon a sympathetic and understanding public. The RIBA is convinced that if the nation is to succeed in the challenging task of banishing ugliness, inconvenience and inefficiency from our towns and cities its architects need an informed and critical public opinion, not merely to support architects but to criticise them intelligently, and above all to demand something far better than people are now prepared to accept. There is no more powerful medium than television for creating this informed and critical public."

Turning to the state of the building industry, the Report shows that building is Britain's most important industry, and one of the least efficient. Output of new construction in 1959 amounted to £1,641 million, which was almost double the output of the motor industry, yet, despite, the high efficiency of some leading firms, "there are deeply rooted conservative attitudes, particularly among small firms and an urgent need for a fuller understanding of the advantages of modern techniques. The RIBA is convinced that television is an unrivalled medium for stimulating the interest of the entire building industry and of the public in better building and better methods."

Turning to what TV and sound broadcasting could do, the Report charges the BBC with some honourable exceptions (such as the "Tonight" programmes), of regarding architecture as a difficult if not impossible subject. "This attitude, we believe, springs mainly . . . from two factors: one is that some programme directors and producers share the misunderstandings and indifference of the public (the mistaken idea, for instance, that architecture is *only* concerned with the appearance of a building is widespread); the second is that programmes at popular viewing times are directed at mass audiences, for which television programmes on architecture are deemed insufficiently interesting." Even "Monitor," the RIBA points out, rarely deals with architecture. "Architecture, moreover, suffers from the fact that it straddles both art and science, and tends to be ignored in the planning both of art and science programmes. In reality it is precisely because architecture is the master art embracing both science and art that it offers a bridge of understanding between the two." The Report suggests that the "Building Matters" sound programmes could well make stimulating television, if backed with resources on the scale the BBC puts into its agricultural film unit.

Finally the Report urges that there should be "much stronger representation of those concerned with the appearance of things" on the regional councils of the BBC and commercial companies. There are, it points out, advisory committees for religion, music, agriculture, science and schools broadcasting, but none for architecture or any of the visual arts, and "No architect is included in the 489 members of these councils or committees or in any of the advisory committees of the Independent Television Authority."

NFBTE

Building Costs and Wages

The possibility that there could be a rise of about 4 per cent in building costs this year was foreseen by Mr. D. E. Woodbine Parish, president of the NFBTE when he spoke at a meeting of building contractors in London on January 31.

The recent wages settlement had, he said, been "accepted as a statesmanlike solution" but there had been "considerable debate on the extent of the ability of building firms to lessen the impact of the wage increases next October on building costs generally."

"Extracts from statements by employers' leaders, sometimes contradicted by the operatives' leaders, have obviously resulted in some misunderstanding of a situation which in any case must remain obscure until October," he said, "when it will be possible to begin to measure the full implications of what has been described as a 'package deal' on hours and wages."

"The two obvious imponderables will be the rate of increasing productivity after October and the precise impact of the new refreshment break rule. Results are likely to vary in different parts of the country." Besides the new agreement, Mr. Woodbine Parish pointed out, builders are being faced with wage increases in some allied trades, in some material and transport costs, and also with higher National Insurance contributions.

MOHLG

Housing Returns 1960

Housing Progress Reports issued by the Ministry on January 31 show that 297,818 permanent houses were completed in Great Britain during 1960, compared with 276,674 in 1959. Of these, 129,189 were built by local authorities (including the Scottish Special Housing Association) and 168,629 by private builders.

LONDON'S ROADS

LCC's New Appointment

The LCC at its February meeting agreed to establish a new Traffic Engineering Division and to appoint F. M. Fuller in charge of the work under the Chief Engineer. Mr. Fuller was senior divisional engineer, and becomes deputy chief engineer (roads) with the responsibility for carrying through the LCC's £10-million-a-year road improvement programme, which means virtually doubling the work.

One of Mr. Fuller's first jobs will be to recruit the increased staff necessary to do the job, and to push ahead with the widening of the Embankment at Millwall, the conversion of Kingsway tram tunnel into a traffic underpass, and to reorganise the intersection of Old Street and City Road.

RIBA

Dr. Banham faces the future

If architecture has a teenagers' idol then it would appear to be Dr. Reyner Banham, whose paper "The History of the Immediate Future" packed the Henry Jarvis Hall at the RIBA last week. To call Dr. Banham an idol is perhaps to put a shinier gloss on him than he deserves, and to describe the audience as "teenagers" is certainly an exaggeration. One doesn't want to flatter Messrs. D. Gibson, H. Bennett, R. Matthew, H. Casson, J. M. Richards and company, who helped pack the hall. But predominantly youthful the audience was, and beards and black sweaters marked the presence of the student body *en masse*. Banham, of course, deserved his audience. He gave them their money's worth.

What was the paper all about? It would be cheating to tell you in one or two sentences, though that is about all it needs. The message was very simple, though no less worth saying and did not suffer from the Banham treatment. But first, what did the Banham treatment involve? So far as the speaker was concerned it involved a good deal of extrapolating.

Yes, extrapolating. It is not giving Banham away to say that I think he got the idea from a certain recent Reith lecturer (no, not Wind). This fellow has done a lot of extrapolating on and off over the years and Banham, no doubt, reckons that a bit of healthy extrapolation among architects would do them a power of good (*extrapolation: n. the calculation from known terms of a series of other terms which lie outside the range of known terms*).

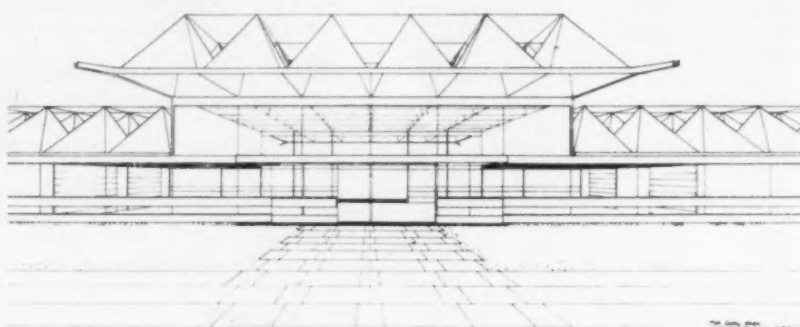
History, we were told, is our only guide to the future. The history of the immediate past has shown pretty conclusively that the art of architecture can no longer be regarded as a major mental discipline. This was an awful warning against architects' architecture. With a few noble exceptions in recent years (Pirelli, Istituto Marchiondi at Baggio, Hunstanton) we have been doing too much of it and we didn't oughta do it. So, where do we go from here? Our speaker had the answer and, judging by the tumultuous applause he got at the end, most of us were with him. He said (and I hope he forgives the free interpretation) that architects must look to the real needs of their clients, i.e. the users of their buildings, in designing those buildings, and he quoted no less an authority than Denys Lasdun to support him. He then proceeded to tell us—and this was the point of the whole exercise—how to go about establishing what the real needs of our clients are. "I think it is quite clear," said Dr. Banham, "that the human sciences are here to stay in architecture . . ." and he went on to say that we ought to be making use of them and that, furthermore, if we didn't we were sunk.

And there you have it.

One or two members of the establishment (architectural) present, although they swallowed the medicine which the Doctor had prescribed, made a sour face. Professor

Matthew wanted to know just what contribution the science of biology could make and Donald Gibson (CLASping the opportunity) said that cost planning is important too. But the best patient (though he sounded at first as though he just wasn't going to take the medicine) was Roger Walters, who reminded Dr. Banham that the human sciences formed a part, but only a part, of a larger pattern and that the process of design was equally dependent on an under-

standing of building technology, and building management and that we needed to make the process of building more predictable. He also persuaded the Doctor to take some of his own medicine by promising that if we proceeded, from now, to take account of the fruits of research in the human sciences in designing our buildings then *he*, as a critic, would take them into account in judging our buildings. This Dr. Banham solemnly promised to do.

*IUA Buildings on View*

The designs for the two temporary buildings which are to be built on the old Dome of Discovery site to accommodate the IUA Congress Exhibition and the Congress Headquarters, had a Press review at the RIBA on February 9. These are illustrated in a bird's eye view on the frontispiece (page 234) and a further drawing of the Headquarters building is shown on this page. A photograph of a model of the Headquarters building was shown in the JOURNAL of January 19. The architect to both buildings is Theo Crosby.

The Exhibition building is a temporary structure in the conventional sense of the word, being composed wholly of materials which have been loaned by industry and which can be reused afterwards. The roof is a space frame made of tubular steel and standing on tubular steel uprights. The floor is of concrete paving blocks, the roof of polythene sheeting, the enclosing walls of scaffold boards and internal walls of glazed concrete blocks. The building is being put up and taken down free of charge by Taylor Woodrow Construction.

The Headquarters building is a much more ambitious project. It owes its existence primarily to three manufacturers, Cape Building Products, Pilkingtons and British Aluminium, who, when they heard of the difficulties of the organisers in getting headquarters accommodation, suggested that British industry should show their interest in the subject of the Congress ("New Techniques and Materials—Their Impact on Architecture") in this very practical way. Other manufacturers also contributed materials and labour and Taylor Woodrow Construction once more undertook to erect and dismantle.

It was the desire of the sponsors that the building should be "a sophisticated and aesthetically integrated structure." The most

striking part is, of course, the roof which is a stressed skin aluminium grid structure composed of 8 ft. sq. pyramids. This was designed by Dr. Z. S. Makowski, the British Aluminium's Research Department, and Frank Newby of F. J. Samuely and Partners. The walls are almost wholly enclosed in different varieties of Pilkington's glass. All unglazed wall surfaces and partitions are of Asbestolux and this material is again used for a number of constructional wall murals. These last are an important part of the environment and have been designed by a group of artists who worked with Theo Crosby on the "This is Tomorrow Exhibition" at the Whitechapel Art Gallery in 1956: John Ernest, William Turnbull, Anthony Hill and Kenneth and Mary Martin, Edward Wright is doing the typography.

There will be three exhibitions. The main one is of photographs of buildings illustrating "The Architecture of Technology." These photographs will be chosen by Theo Crosby from material submitted by all the IUA member countries. The second is of students' designs for a Demountable Travelling Theatre. Every school of architecture in all IUA countries was given this subject and was invited to send in two entries for the exhibition. The third exhibition is of books dealing with the Congress theme.

DIARY

"Brazilian Architecture" by Henrique E. Mindlin, Lethaby Professor of Architecture at the Royal College of Art: three lectures at the RIBA, at 5 p.m.

FEBRUARY 15, 20 and 22
"Building and Civil Engineering Overseas," Films and Lecture, the Building Centre, 6.30 p.m.

FEBRUARY 20

See how

MARlith

**wood wool building slab
does the job better, quicker,
and at lower cost**

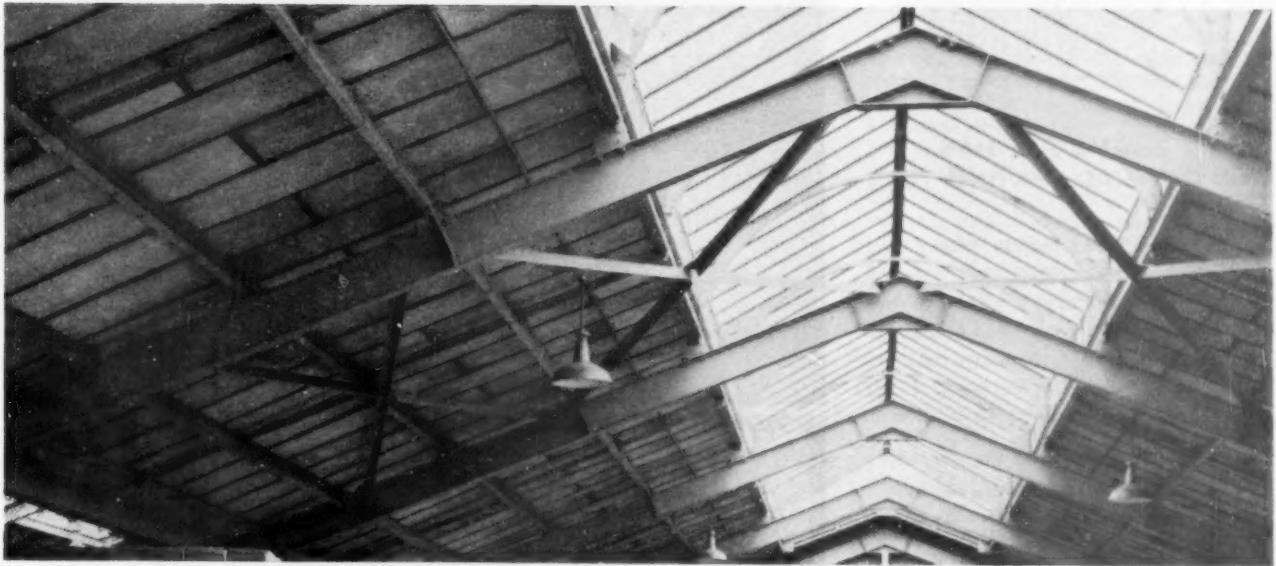


Illustration: Factory storage with textured Marlith on inverted Tee.

Marlith Wood Wool Building Slab has so many advantages over other structural materials. It has great structural strength while being extremely light in weight. It can be used in roofs, floors, walls and ceilings reducing fuel consumption and costs, maintaining internal temperatures at a comfortable level, winter and summer. Marlith slab is fire and moisture resistant, vermin and fungus proof. It consists of intertwined wood fibre, chemically impregnated, cement bound and formed under pressure. It can be used with perfect safety in conjunction with any other building materials. Standard sheet size: 6' x 2' in thicknesses: 1" 1½" 2" 2½" 3"

TECHNICAL DETAILS

British Standard 1105: 1951. Thermal Conductivity (K) 0.58 (N.P.L. test). Thermal Resistivity (1/k) 1.72. Weight Average 25 to 30lb per cu. ft. all thicknesses. Sound Absorption of 60% over the middle cycles (N.P.L. test).

For all these reasons and many more—it's safer to specify MARLITH

MARLITH IS ALSO AVAILABLE WITH:
ALTERNATIVE TEXTURED FINISHES.

METAL CHANNEL REINFORCEMENT ALLOWING GREATER SPAN WITH LESS STRUCTURAL SUPPORT.

INVERTED TEES IN VARIOUS GAUGES TO SUIT SPAN.

*For full details post
this coupon to:*

MARLEY

Marlith Division • Chantry
Lane • Storrington • Sussex
Tel: Storrington 2322.

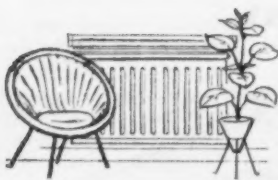
London Showrooms: 251 Tottenham Court Road, W.1.

Name _____

Address _____

(AJ)

Hot water never runs cold on her!



AND SHE HAS CENTRAL HEATING TOO!

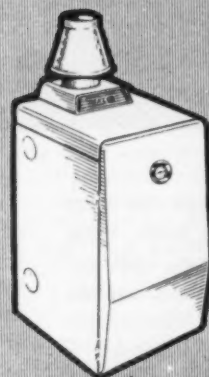
Valor oil-fired boilers reheat water quicker than any other system. That's efficiency! Valor oil-fired boilers look after central heating too — more cheaply than any other oil-fired boiler. That's economy! And they are streamlined to look handsome in any kitchen.

- ★ No fuss! No smell! No smoke!
- ★ No attention needed. Looks after itself.
- ★ Perfect safety. Built-in oil control valve with anti-flooding safety device.
- ★ Thermostat maintains boiler temperature between 140°-180° F.
- ★ Maximum economy. Minimum servicing.

Valor OIL-FIRED BOILERS AND RADIATORS

VALOR GAS BOILERS TOO!

For further details please contact:
THE VALOR COMPANY LTD.
Bromford, Erdington, Birmingham 24
Tel: Erdington 6151



MODEL SA45

suitable for up to 220 sq. ft. of radiators and 40 gallons of hot water. Price £95.

MODEL SA35

suitable for up to 150 sq. ft. of radiators and 30 gallons of hot water. Price £80.

MODEL SA25

suitable for 50 sq. ft. of radiators and 30 gallons of hot water. Price £65.



LETTERS

Robert Harling,

Architectural Correspondent, Sunday Times

Walter Segal

N. Keith Scott,

A.R.I.B.A., A.M.T.P.I.

Peter Scher, A.R.I.B.A.

C. C. Judson,

B.Sc. (Eng.), Assoc. M. Inst. C.E., M. Inst. Mun. E.,
A.M.I.W.E.

Too Many Masters

SIR: In your issue of January 26 you say that mine was a curious statement in *The Sunday Times* about "Sir William Holford serving too many masters in Piccadilly." To my mind it is the fact that is curious rather than my statement.

How can any truly comprehensive development take place in such an area without a comprehensive ownership? All the major developments in this country which we rave about as comprehensive developments were comprehensively owned—from Georgian Squares to brave New Towns.

And here, for the record, is the paragraph which was originally in my piece and which had to be cut to allow two architectural artists to have a go at their interpretation of Sir William's script:

"Isn't the answer for the LCC to acquire these five acres for London and then to ask Sir William for his suggestions for a logical redevelopment of the whole area? Far too costly, the LCC will say. But will this really burst the purse of one of the greatest and richest cities in the world? Doesn't the LCC ever save anything from the rates it levies? And shouldn't the present LCC be doing all it can for London in A.D. 2060?"

And may I add how entertaining I find ASTRAGAL!

ROBERT HARLING

Sunday Times.

Load-bearing Architect

SIR: Like others I studied your New Year's Alphabet and while I was depressed by "V" for Aluminium, which shows what a sculptor will do to a structural concept, I was cheered by "L" for Loadbearing Brickwork.

I am using in a small practice fairly extensively both C.P. 111 (now under revision) and by-laws 3.12 and 5.17-5.20 (1952) of the London Building Acts and it is every time with some bewilderment that I resign myself to the application of the assumptions, definitions and regulations of both sets of rules to my structural problems. I shall never with an easy mind accept:

(a) that the crushing strength of bricks to be used in calculated walls should be based

on the aggregate performance of twelve bricks under stress. This seems to me a democratic approach but it tends to increase unnecessarily safety factors since, with many types of bricks, there is within the same kind a considerable divergence of individual performance under stress. Thus safety factors must be such as to provide safeguards against hazards which might occur in confined parts of structure like narrow piers where, due to the limited number of bricks used and with considerable variation of individual performance, the actual crushing strength may be well below the average aggregate performance of the test bricks. It is like throwing 50 at poker dice or picking a sequence of winning cards. I wonder whether it might not be possible to introduce selective classification of brick types for calculated walls, to establish maximum permissible variation ratios in the relative crushing strength of bricks to be admitted and to redefine safety factors which then would no longer have to be used to control undesirable and uneconomical variations of individual performance;

(b) why a definition and application of slenderness should be in use which does not take proper account of the non-homogeneous structure of brickwork.

(c) that those fortunates like Mr. Pooley who are allowed to use C.P. 111 with the law's blessing can get the best out of today's maximum permissible stresses, as "L" for Loadbearing Brickwork clearly shows, whereas his Metropolitan competitors are hamstrung by by-law 5.17 of the London Building Acts. This by-law is an anomaly, which takes away most of the structural sense of calculated brickwork controls, irrespective of the existence or non-existence of lateral restraint, the total height of walls by their thickness, and thereby drastically curtails the useful application of the existing definition of slenderness ratios (5.18). The result is that a Metropolitan designer could not possibly compete with Mr. Pooley: with 9-in. walls he would have to stop at the fourth floor whereas Mr. Pooley can add smilingly another seven floors. This does not seem to make sense, or does it?

In parentheses I should add that in order to win at least a breather against this *ceinture misérable* the Metropolitan designer must aim for relatively wide-span structures if he does not want to fritter away the slender advantages to be gained by calculation;

(d) the matter is not improved by going on; but it seems such a pity that the engineering prospects of an indigenous material which may be with us for yet some time are held down so low by unsympathetic legislation whereas in this field more than in any other Britain ought to have an easy lead.

WALTER SEGAL

London, N.6.

Two Tiers

SIR: I have read with interest the increasing volume of comment and opinion in this and other journals on the issue of "two-tier" profession. Since, as your leader pointed out (26.1.61), the profession must

reach a weighty conclusion on the subject this year, it follows that as many views as possible should be aired and since I disagree with both your editorial viewpoint and that represented by Mr. Beecher—I offer another. Firstly, I deplore the notion that there is any stage at which the architect can stop in the design process and let a non-qualified man take over. The creative act finds its fullest expression when its light probes to the innermost recesses of its creation. As other minds make decisions affecting it, so will its clarity be dimmed and its homogeneity dissipated. True, the sewer in Mr. Beecher's example marks the nethermost recess, but where does he stop? and in tight financial projects even, how is the architect to know (if he has left the drains to another) whether this work below ground is economic or whether alterations might win him 9d./sq. ft. which could alter his whole approach to the joinery details? The client also is entitled to an answer to that question. It could mean tiles in his lavatory or some hardwood floors. To this extent, I agree with your leader; the "doodling maestro" is antipathetic to the modern architecture you envisage. For examples one need but turn to the work of the precious few acknowledged men of great stature in our profession. They are where they are because their unique talents have illuminated every detail. One recalls watching Wright toil at a balcony profile with an assistant, seeing prints of working drawings covered with Neutra's red pencil corrections, hearing how Seavinen will use up a 10 in. offset in one evening in an attempt to resolve a problem. The result when they relax these methods is second class building: Aalto's Baker House at MIT is a brilliant idea carried through in detailing by other men to produce a (for him) tepid building. Sjöyönsalo was not done that way.

That mediocrity in architecture is paramount in England today is in my opinion partly the result of this type of delegation. I take this view to the length of objecting to delegating work to other qualified men. Because this is so frequently done in England, discerning clients go elsewhere for the designer of a university college. They know that Jacobsen himself will work on every aspect of the job and his will be the final product in totality: if necessary, he will reject other more lucrative commissions which would distract him, and this we know he has already done. I object equally, therefore, to design by committee. The creative act cannot be consummated in this way, and here I begin to deviate from your leader because I sense in your eulogy of M of E and CLASP the thought that here is the modern architecture for which we search. I cannot agree with this, for while the first two Vitruvian concepts are admirably met, I do not think "delight" is, or ever will be, fully achieved under their system of working.

To illustrate my own view of the two-tier system, I would like to draw for illustration from two diametrically opposed methods.

The first is an American office in which I

worked. There the designers were in one room, the WD and Spec men in another. Each job passed through each department and, the worth of the design apart, the final result always looked only half as good as it should have done from its original promise. On the credit side, however, the jobs were competently handled and the clients well satisfied. The WD men were all unqualified, were mostly in their mid-forties and had long since come to terms with the fact that they were not destined to be FLW's or le Corbusiers. On the other hand, having been trained for their work, they were not frustrated architects but very proud technicians who were each determined to be the best WD man in town. The chief weakness of the system was that they were completely out of touch with the designer. The creative act of architecture was a closed world to them: we all know offices in England like this.

My second illustration is from my present office which has taken the view that tier systems are iniquitous, and has therefore insisted that all staff be qualified. This has resulted in some good work, but the financial rewards have not been as high as hoped due to inefficient use of top class labour and to inadequate information "feed back" systems. In my own experience of three large jobs in the past five years I have had three young newly qualified assistants, each of whom naturally lived for the day when they had their own jobs. This they have now done, but their knowledge of the way in which I tend to detail in a given situation is now lost to me and hence to the firm, because they are allowed to develop along their own lines when entrusted with their own jobs. (We have no "house style" in the office.) The whole process of training a new man has to be gone through on nearly every big job—unless the morale of the office is so high that occasionally fully qualified experienced men are willing to subjugate themselves to another designer's wishes for a few weeks or months. Happily this often occurs, but I still feel the principle to be wrong.

Recently (and here, at last, I come to my own view) we have, as an experiment, taken on one or two joinery craftsmen who have specialised in "setting out" in their shop. To date, this has been an outstanding success. Psychologically, these men are not frustrated architects; they regard themselves as very fortunate joiners. Practically they know timber and its problems far better than we ever could and they quickly become very rapid and accurate detailers. Their value to us as architects lies in their fund of experience and in the fact that we can sit down with them, thrash out a detail, and leave them to full size it far better and more to the requirements of the contractor than we can. We do not consider that we have "stopped" and let them carry on in the sense implied by Mr. Beecher, yet they are working at another or second-tier status such as your leader does not appear to grant the validity of at any level.

Furthermore, these men are always available to us for future jobs. They become

valuable repositories of information, and thus assist the feedback process. They tell you what other designers in the firm did in similar situations, and they recall what you did on previous jobs and do not have to be told all over again. There seems no reason why this principle should not be carried through to other trades such as sanitary or metal-window specialist draughtsmen, and we intend to experiment in this way. It cannot be too strongly emphasised that they are not employed to take over design work, but that they are consultants to and implementors of the architect's creation and he remains solely responsible for the entire design.

This type of second-tier man cannot, of course, be trained within the profession at the present time, but this contribution is concerned with fundamental moral and aesthetic principles rather than educational details.

Preston, Lancs.

N. KEITH SCOTT

SIR: Although entitled "The Need for Technical Assistants in the Profession," the Allied Societies' Memorandum seems concerned only with the medium and small private office where "commissions of £25,000 value and over are exceptional." A need of this group is not necessarily a need of the profession. It is alarming that members of Allied Societies who work in local authority or other public offices have allowed the principals of economically insecure private practices to dominate them. Now that the RIBA is at last learning to make surveys and obtain relevant information before deciding on policy, this document is a long step backwards. Unsupported by statistics or figures of any kind its conclusions can only be regarded as biased opinions.

Publication of the memorandum marks the end of a ten-year surplus of qualified architects. During this period the small practices have drawn their assistants from qualified students fresh out of architectural schools. Thirsty for experience they accepted low salaries in return for running small jobs usually directly under a principal and usually solo.

This seemed a fair transaction, but most qualified students work energetically and learn rapidly and after a year or two deserve and expect a higher salary. While the surplus lasted, however, an assistant could only get this by changing his job, whereupon a new fledgling at the low salary was obtained from the uncontrolled output of the schools.

Thus the small firm, if it selected assistants carefully, was exploiting a very favourable situation. Now that there is a shortage of architects it cannot or will not afford the salaries demanded, hence the idea of the "second-tier."

Apart from the fact that it is representing the interests of only a small group in the profession the memorandum contains two other big red herrings. First, the fact that the "second-tier" will have less responsibility means nothing since the principal always was and always will be ultimately responsible for all the work done by his

office. Second, the use of the words "technical" and "technician" carries the absurd implication that the "architect" does not require or use technical knowledge or skill.

The point of the "second-tier" is its income-ceiling and its status-ceiling, and these will be fixed by the "first-tier" to protect its own income and status. It is very difficult to see why a qualified architect needs an unqualified technical assistant on the one-off less-than-£25,000 job.

What is most surprising is that no one appears to have stated a case on purely technical grounds for a "second-tier" of assistants on large projects (say £250,000 and over). Take the large housing scheme, university building, hospital, industrial centre or office block. The sheer drudgery involved here is enormous; there may be ten to twenty similar but not identical floor plans to be drawn; there are schedules of windows, doors, sanitary fittings, etc., with several hundred items each, to be compiled and checked. Here if anywhere is the need for a "second-tier" technical assistant, not on small jobs.

I would add that I am *not* pleading that case. This drudgery can be eliminated in design if architects are able and willing to do so. For example with low space allowances and cost targets architects have to resort to ingenious, "tight" planning requiring special detailing which is not "functionally" necessary; services are crammed into ducts and ceiling spaces so small that every run and bend has to be thought-out in three-dimensions and drawn-up in time-wasting detail; irrational briefs differentiate accommodation which is basically undifferentiated (office suites, where each individual or grade has a different room size and finishes) increasing the work-load of trivial detailing.

Much of this can be eliminated if space and cost limits are set *enabling* architects to simplify designs. (The duffle coat approach, proposed by John Weeks, as opposed to the tailored suit.) Further drudgery can be eliminated if the architect is *willing* to design with this aim; if he designs deliberately seeking simplification, standardisation and the economic advantage which ought to ensue in the building process.

There will always remain *some* technical drudgery however, and the question is whether or not it should be done by assistants whose opportunities for professional and economic advancement are deliberately suppressed.

London, S.W.16.

PETER SCHER

Not Quite . . .

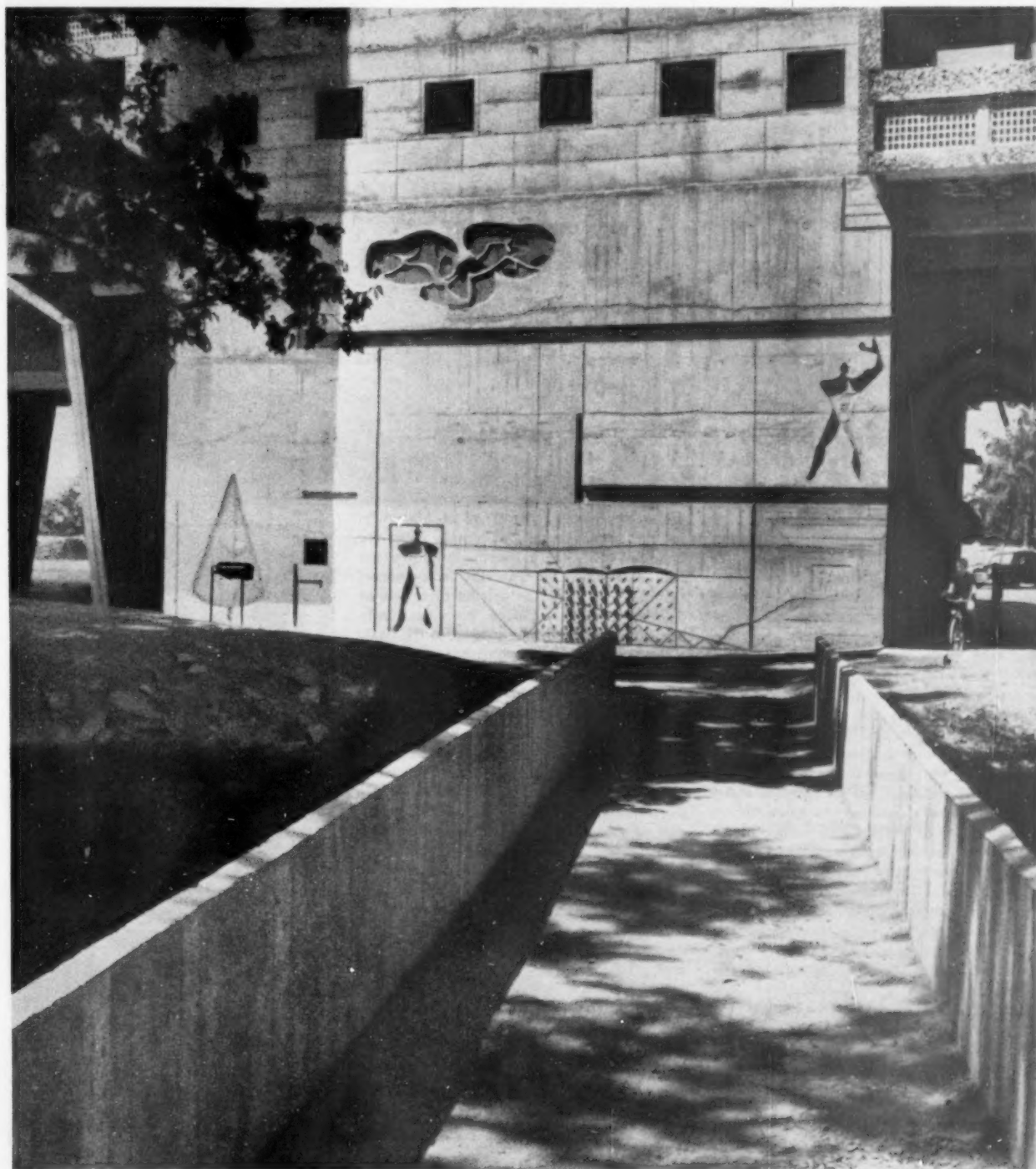
SIR: I have shown your contributor's remarks regarding "My Husband and I" (ARCHITECTS' JOURNAL, January 26, page 127), to a number of people, each of whom agrees with me that these remarks are in extremely bad taste and I venture to suggest that the great majority of your readers will think likewise. I challenge you to publish this letter.

C. C. JUDSON

(Surveyor and Water Engineer)
Malvern Urban District Council

Le Corbusier

The six-foot-wide bridge by which the fourteen hundred people living in the flats at Nantes-Rezé approach the block (see book review over)



Book Review "My Work" by Le Corbusier (Architectural Press, 84s.)

Le Corbusier can justly claim to be sadly misunderstood. It is now some 35 years since the explosive force of such events as the *Esprit Nouveau* exhibit at the 1925 Paris exhibition, and the publication of *Towards a New Architecture*. In that treatise, of course, he set out the purist argument that the everyday objects produced by the machine could be shown to be in accordance with the classic laws of design, and that therefore architecture should fall into line. That this message should have so often been misunderstood, in Britain at least, is very much the result of the difficulties and errors of translation. In fairness, it is doubtful whether the powerful clarity of Corb's French, with its undertones of secondary meanings, can ever be adequately expressed in English. To take the simplest example, probably Corb's most often repeated words, *La maison est une machine à habiter*, are usually given as "the house is a machine for living in." But in everyday French the word *machine* is also just a thing, or a contraption. So in much more simple terms this phrase also means "the house is a thing to live in"—something quite different. This constant difficulty of dual meaning is only matched in the translation of his early writings by careless and even wilful distortion. Why, for instance, should the very title *Vers une Architecture* be turned into "Towards a New Architecture," which completely alters the whole meaning and purpose of the book? Beyond mere words there is the more insidious error of judging his buildings in a superficial way, usually only from photographs. Based on this, and taking the thing a stage further, is the superficial imitation of his buildings, by applying white rendering and horizontal windows to conventional brick houses in the 20s and 30s, or the current use of rough concrete and water spouts from Ronchamp and elsewhere.

But one single fact constantly re-emerges from his work. The straight line drawn across the map, the carefully developed functional planning, the superb integration of form, structure and lighting, and most importantly, the consummate sculptural quality of the space defined within and around his buildings, are all features which are the endlessly repeated characteristics of the triumphs of French architecture of all periods. In the very best sense of the word, therefore, Corb is a traditionalist. Indeed, it would be astonishing if he were not. Although technically, of course, Swiss by birth, Corb is inevitably steeped in the still essentially renaissance French culture, that has as its objective the nurture and development of the individual, so that within a pre-arranged order he can be free to develop and express his own particular philosophy.

In such circumstances there is, of course, little room for anything approaching British modesty, which would be regarded as a hindrance to self-expression, if not highly suspect as mere play-acting. With this in mind there is little surprise at the

appearance of this book, which except for the introduction has been entirely written and prepared by Corb himself. It is largely retrospective, and apart from the omission of his pre-1918 houses, gives a complete survey from the earliest excitement of *L'Esprit Nouveau* to the most recent achievements of Chandigarh, La Tourette and Meaux. The book is therefore, in a purely practical way, a most useful and compact record of Corb's activities.

In a more fundamental sense, however, the basic virtue of this publication is the convincing way in which it demonstrates the enduring consistency of his output through the years. On the one hand there is the strong link between his current work and the earliest houses. On the other is the close affinity between buildings, sketches, painting, sculpture and the written word. A secondary pleasure with this book, with its very sensitively written portrait of Corb in the introduction by Maurice Jardot, followed by his own biographical notes and the pithy marginal comments that accompany the illustrations (all in the third person), is that it provides a much closer and more intimate understanding of the paradoxical character of the man himself. Here, of course, is a man who can and does shout his achievements loud enough for all to hear, who can never forget the attacks made upon him, or the failings of friends who are now friends no more. Here equally is a man who can in desperation shut himself away from the rest of the world in his little hut on the Mediterranean coast, or seek relief from the realities of the adult world by going to the *Unité* at Marseilles to do group mural paintings with the children from the nursery school on the roof. But behind these actions there emerges through this book the driving force within Corb's personality which has incessantly urged him on from one project to the next, a constant restlessness which has perpetually driven him on in his own private search for truth. His words, his sketches, his paintings, his very buildings emerge as being merely a means to this end. Realising this you are much more tolerant of the apparent inconsistencies, of the lack of refinement that repeatedly occurs.

Corb himself is obviously very conscious of this; in a passage which perhaps might have been better translated, he examines his own position by analogy: "An acrobat is no puppet. He devotes his life to activities in which, in perpetual danger of death, he performs extraordinary movements of infinite difficulty, with disciplined exactitude and precision . . . free to break his neck and his bones and be crushed. Nobody asked him to do this. Nobody owes him any thanks. He lives in an extraordinary world, of the acrobat. Result: most certainly! He does things which others cannot. Result: why does he do them? others ask. He is showing off; he's a freak; he scares us; we pity him; he's a bore."

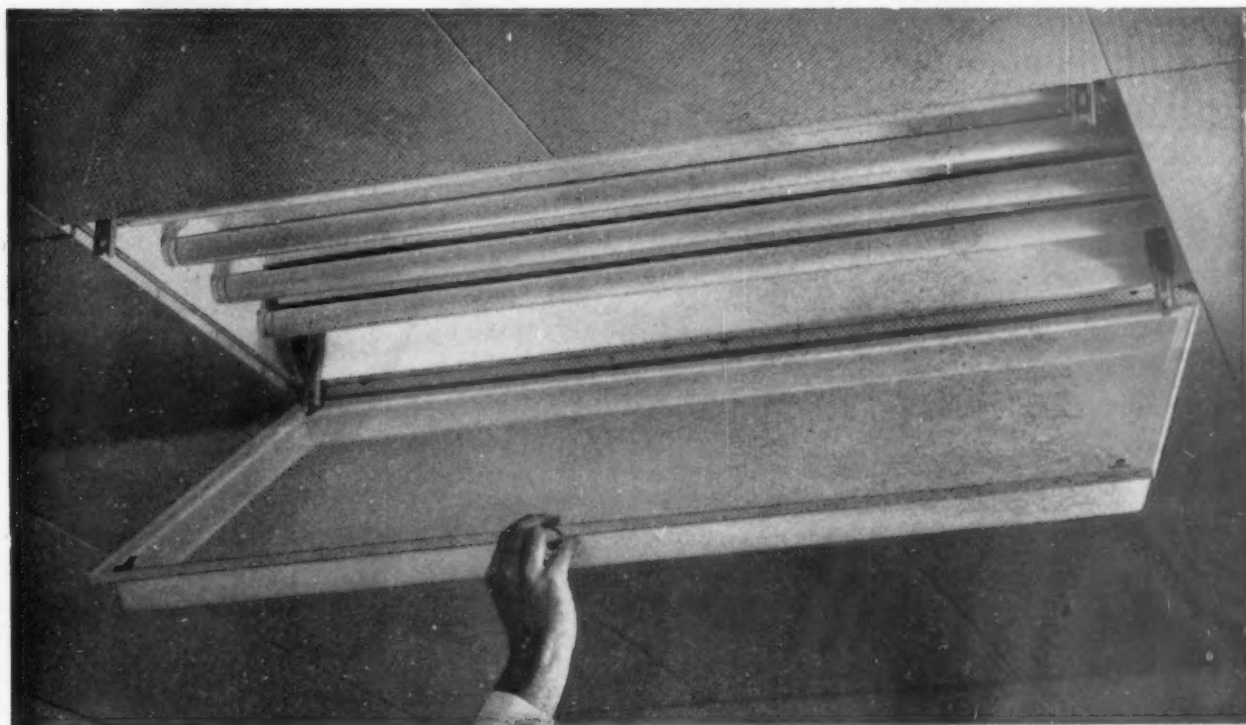
MICHAEL KEYTE



ALLOM

HEFFER

AND COMPANY LIMITED



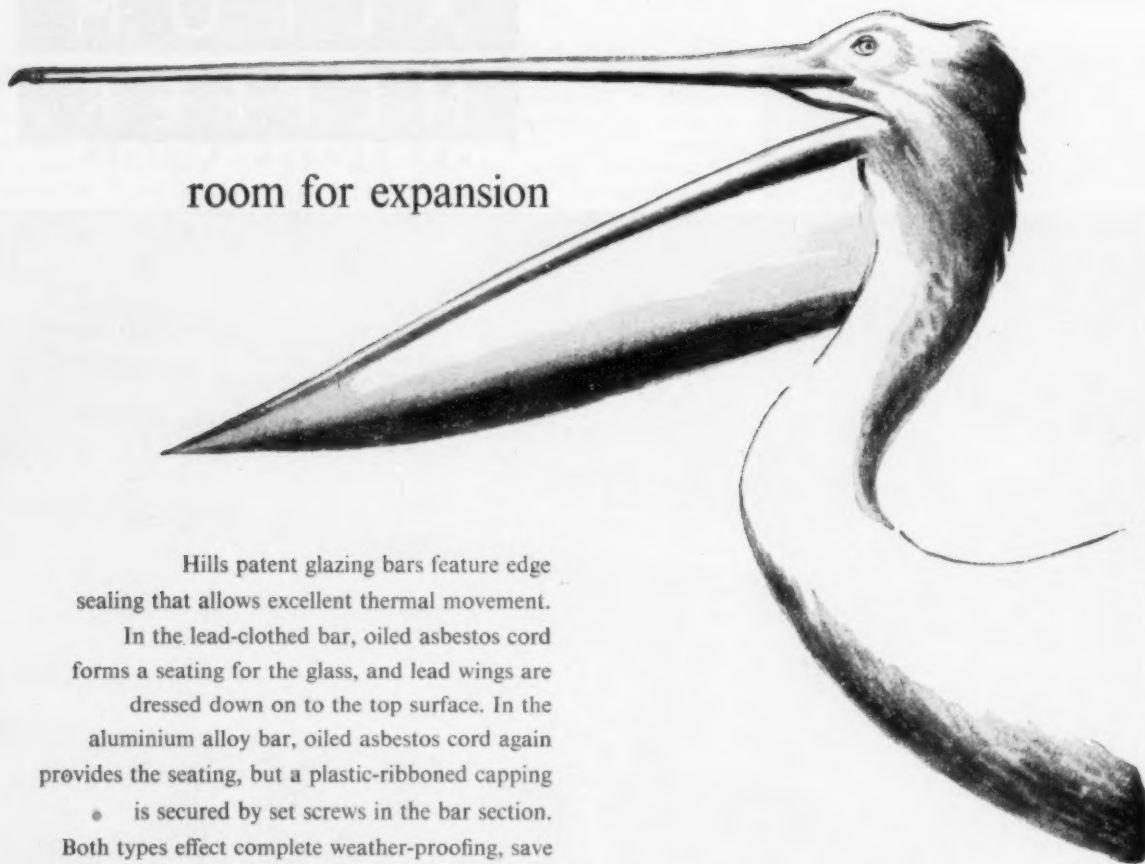
The recessed fittings illustrated are made in various sizes and incorporate a completely new method of securing simple maintenance by means of the Allom Heffer patent locking device (Patent Application No. 32933/59) which provides:

- A positive method of opening and shutting on a pull-push principle.
- Hinging on either side of the fitting when fully clear of the ceiling.
- Complete detachment of the diffuser when required.

Apply for Brochure series 707



17 MONTPELIER STREET · KNIGHTSBRIDGE · LONDON · SW7 · TELEPHONE KNIGHTSBRIDGE 6897-8



room for expansion

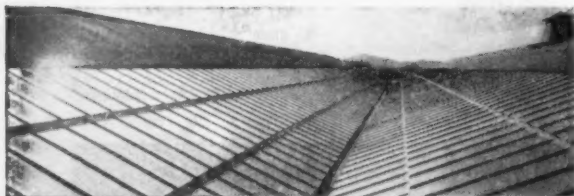
Hills patent glazing bars feature edge sealing that allows excellent thermal movement.

In the lead-clothed bar, oiled asbestos cord forms a seating for the glass, and lead wings are dressed down on to the top surface. In the aluminium alloy bar, oiled asbestos cord again provides the seating, but a plastic-ribboned capping

is secured by set screws in the bar section.

Both types effect complete weather-proofing, save time in fitting and cost in maintenance.

For full information on Hills patent glazing please contact our Technical Department.



The Lilleshall Co. Ltd., Oakengates, Shropshire.



Spondon Power Station.
Architects: Cecil Howitt and Partners, Nottingham.
In collaboration with the Midlands Project Group of
The Central Electricity Generating Board.

HILLS (WEST BROMWICH) LIMITED



ALBION ROAD, WEST BROMWICH, STAFFS.

Telephone: West Bromwich 1811 (15 lines).

London: CHAPONE PLACE, DEAN STREET, W.1.

Telephone: GERRard 0526/9.

Branches at: Manchester, Bristol, Newcastle-on-Tyne, Glasgow.

THE INDUSTRY

This week Brian Grant describes kitchen furniture, internal communications, a split spigot coupling for tubular structures, and plastic rainwater goods.

Kitchen Furniture

The illustration on the right shows some of the new range of Karoline kitchen cabinets, which are now completely finished in melamine plastic, and have top hung sliding doors with aluminium track and nylon runners; drawers run on nylon guides, and the doors on corner units slide and fold in half. Prices seem very reasonable. (K. L. Cobb, Ltd., Bridge Wharf, Bishops Bridge Road, London, W.2.)

Internal Communications

There is now on the market another new radio personal call system by Westrex. Like others, the system is based on a central transmitting station, a small network catering for 16 receivers, the large for up to 120, though even larger types can be provided to order. The standard transmitter will cover an area up to 500,000 square feet, the aerial being run on walls or in false ceilings, with the transmitter operated from various control positions such as the telephone switchboard or manager's office. The receivers can be arranged to give a small bleep noise, or flash a light, after which a spoken message can be transmitted, though the receiving sets (perhaps deliberately) do not allow for answering back. Installations

can be bought outright, or installed on a lease and maintenance basis which the manufacturers say works out at about 2s. per receiver per week. I know of one or two hospitals which have installed systems of this kind, and they seem to work very well. In large offices there will obviously be lots of opportunities for one-upmanship, with the new boys on the circuit flaunting their bulging pockets at the unradiowanted. You've heard of the tycoon who found his best enemy had just installed a GPO-connected car radio? So he had one himself, and promptly called the enemy's car. "William?" . . . Sorry sir, this is the chauffeur speaking, would you mind hold-on a minute? Sir William's on the other line." (Westrex Co., Ltd., 152, Coles Green Road, London, N.W.2.)

Structures in Tube

Tubular structures, whether used for exhibition stands, storage racks, or for simple handrailing, must as a rule either be welded, built up with threaded pipe and fittings, or with plain pipe and couplings with grub screws. Access Equipment have now evolved another method which employs coupling fittings made with a split spigot, the two halves of the spigot being squeezed together with a spanner or toggle action pliers, the tube then being tapped on with a hammer. The joints have considerable structural strength, and give a neat and smooth finish (see illustration) without any threads or grub screws. At the moment a full range of fittings is produced for use with 1½ in. outside diameter welded steel pipe with 16 gauge wall thickness, fittings for 1 in. pipe will follow in April, with other sizes later on. It should perhaps be pointed out that the joints are not intended for conveying liquids. (Access Equipment Ltd., Maylands Avenue, Hemel Hempstead, Herts.)

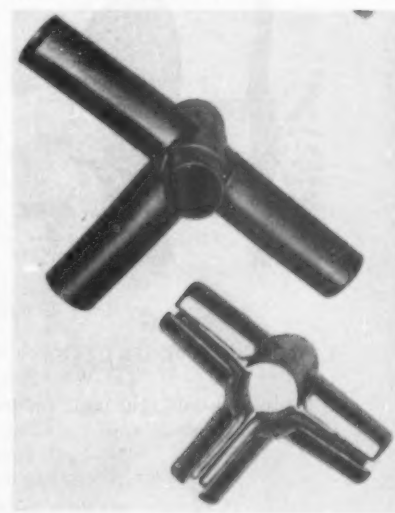
Vinyl Rainwater Goods

A leaflet from Marley illustrates the firm's range of rainwater goods, which are made in grey, black and cream, and of course need no painting. Gutters are made in 4, 4½ and 5 in. sizes, downpipes, including swan-necks and branches in 2½ and 3 in. For the gutters a new flexible joint system has



Karoline kitchen cabinets

Spigot coupling for tubes



recently been introduced. A sealing compound in strips 2½ in. wide and ¼ in. thick is applied to the socket end of the gutter and the spigot of the next length is bedded in the compound within the socket. To complete the joint a vinyl strap 1½ in. wide is hooked over the socket and spigot edges at the back (against the fascia), and then sprung over the front edges, thus compressing the sealing compound in the joint, and holding all firm. Angles, outlets and stop ends are fixed in the same way. The joints are quick to make and allow ¼ in. end movement, so that there is no risk of one joint moving farther than another. (The Marley Group, Sevenoaks, Kent.)



"Palette" designed by William Gear. M.1067 shown to scale.

A new collection of machine printed wallpapers has just been compiled by the London Office of The Wall Paper Manufacturers Limited 19/21 Mortimer Street, W.1. and is now available through wallpaper suppliers. Many prominent designers are associated with this collection among them Lucienne Day, Jacqueline Groag, Terence Conran, Joyce Storey and William Gear.

Modus wallpapers, because machine printed, are moderate in price, and in order to increase their usefulness to Architects and Interior Designers all these papers have been treated with a special protective coating.

YOU ARE INVITED TO VISIT THE EXHIBITION OF THESE WALLPAPERS AT
MORTIMER STREET (FIRST FLOOR)



MODUS

19/21 MORTIMER STREET LONDON W1

technical section

SIB No.

A

UDC No.

711.58

6. PLANNING: SOCIAL AND RECREATIONAL

radburn planning: a reassessment, 9 radburn schemes now under way in Great Britain

Paul Ritter ends his series of articles* by considering Radburn schemes now under way in this country. Taking as his starting point the first Willenhall scheme at Coventry (completed in April last year), he shows that these new schemes differ from the earlier British schemes illustrated in their greater comprehensiveness (i.e. more amenities reached by footpath only) and in their acceptance of the underpass.

Willenhall Wood 1, Coventry. Scale 1:3,000

Dotted line shows where an underpass should have been built

644 dwellings

20 dwellings per acre

70 habitable rooms per acre

Willenhall Wood, Coventry

The first Willenhall Wood estate (City Architect Arthur Ling. Job Architect Derek Lyddon) at Coventry† in one respect marks the end of an era in the history of Radburn planning in this country and in another respect it marks the beginning of a new one. It marks the beginning of a new era in that the school in the centre of the estate (opened in April 1960) was the first school in this country to be sited in the middle of a superblock, with safe access, therefore, for all children living within the superblock. The factor which links this estate to the older schemes is that it lacks an underpass at a point where this is badly needed (see dotted crossing on plan) and as a consequence of this about a third of those living within the estate have to cross the road to get to the

* Previous articles in this series were as follows: The classic objections, November 10, 1960; Footpath or road access?—a social enquiry, 1, November 17; Footpath or road access?—a social enquiry, 2, November 24; Comparative costs, December 8; design principles, 1, January 12, 1961; Design principles, 2, January 26; Foreign examples, residential areas, February 2; Foreign examples, urban applications, February 9.

† Statistical data for this estate were given in the fourth article in this series (December 8, 1960, page 838). Unfortunately the drawing used with this data was of the second Willenhall Wood estate.



technical section

centre. It is interesting to note that the higher standard of safety achieved by this estate has made the inhabitants very critical of the danger of this crossing.

Since the first Willenhall Wood estate, the principle of the underpass has been generally accepted and on all the schemes illustrated underpasses are used. If we include with them the LCC's Huntingdon scheme illustrated in the fifth article (January 12, 1961, page 53), these comprise all the Radburn schemes under way in this country.†

In Willenhall Wood the garage provision is well over 50 per cent. and the problem of giving privacy to the back gardens was seriously faced. Some of the culs-de-sac are too complex for smooth traffic flow, but the internal path system both works and looks well.

Ilkeston Road, Beeston

The Ilkeston Road estate at Beeston (Housing Architect Frank Hayes, Job Architect H. Chadwick) is the first scheme in Great Britain to show the intelligent use of an underpass in a Radburn layout (though it is still

in doubt whether MOHLG will permit it). This underpass, which is designed to cut beneath the road at a point where the road is already on an embankment, connects the shopping area on the estate with the open space. The estate has a garage provision of only about 20 per cent.

Apart from this, Beeston are the first authority to pass a resolution that in future all their housing is to be laid out on the Radburn principle.

Jackman's Estate, Letchworth

Jackman's estate, Letchworth (Williams Barnes, Leonard Brown, Martin Priestman, architects; Paul Ritter, consultant) is to have 100 per cent garage provision and underpasses at all points where main paths cross busy roads. Centres, open areas, schools and old people's dwellings are well connected with the path systems, but the shops on the loop are not.

† Publicity was recently given in the national Press to a Radburn estate at Hull, but enquiries of the City Architect reveal that only a small part of the estate is designed on Radburn principles and then only partly so.

Ilkeston Road, Beeston. Scale 1:3,000

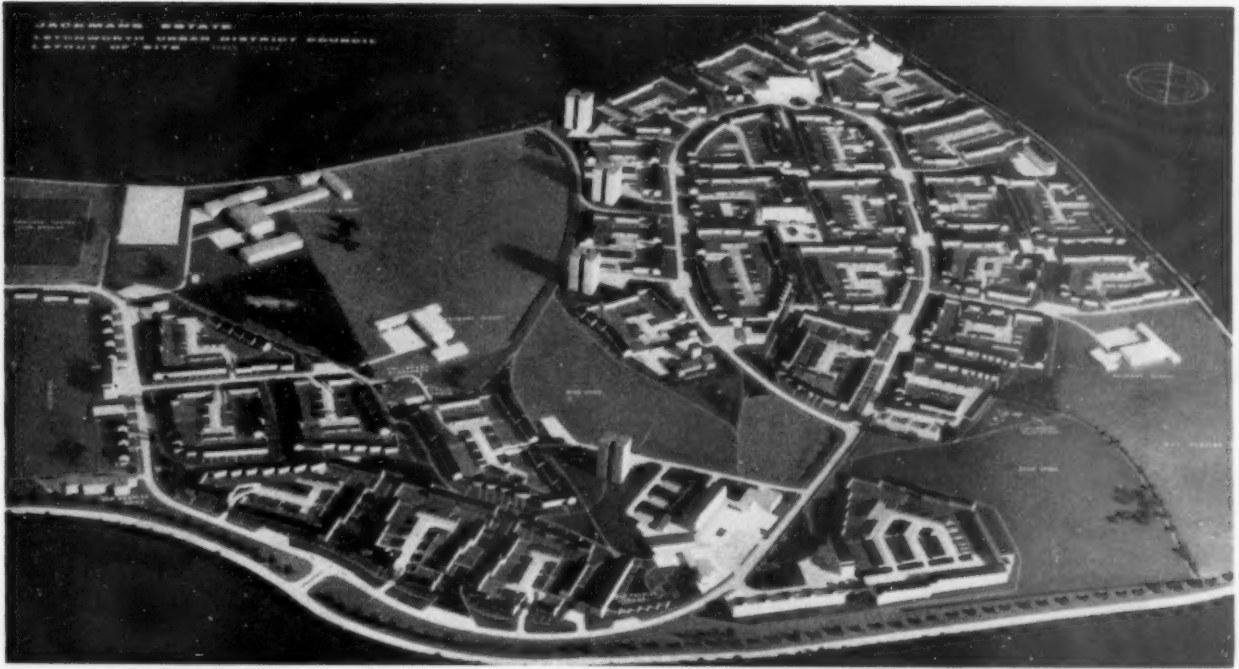
476 dwellings

18 dwellings per acre

64 habitable rooms per acre



technical section



Jackman's Estate, Letchworth. Photograph of model

Part of Jackman's Estate, Letchworth. Scale 1: 3,750

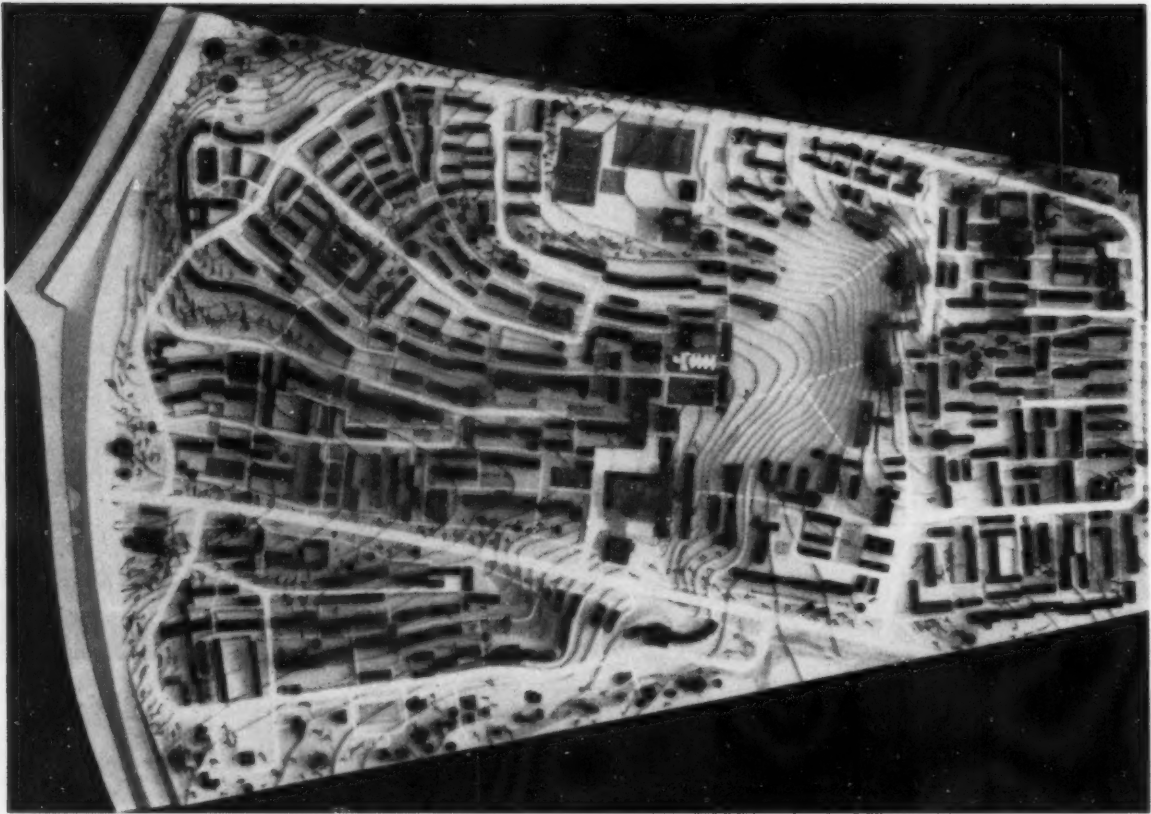
1,641 dwellings

14 dwellings per acre

61 persons per acre

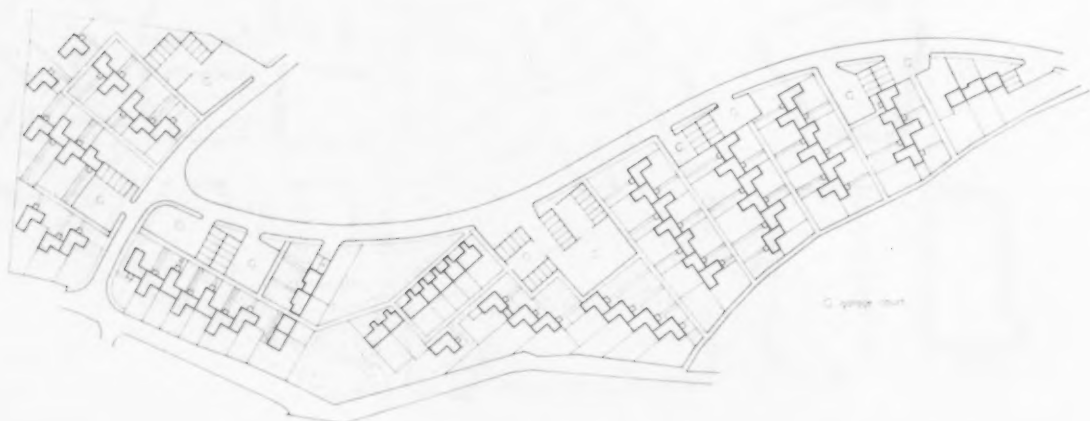


technical section



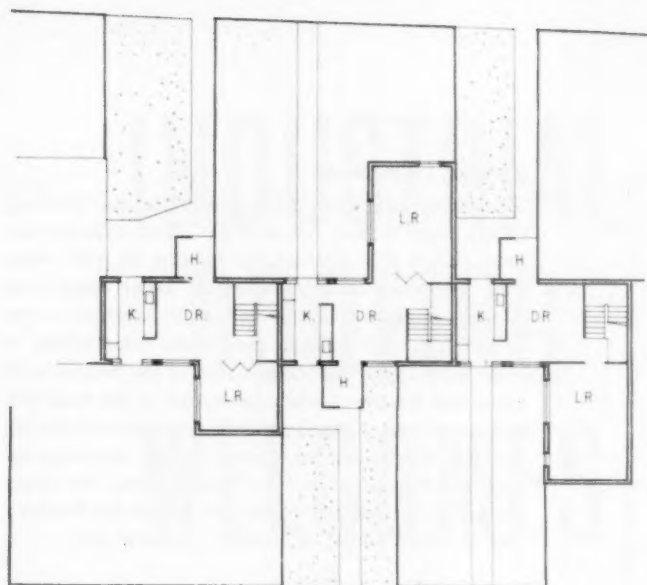
Photograph of model of Rise Farm Development, Nottingham. Scale approximately 1:6,000. White dotted lines represent footpaths

Fox Hill Development, Burton Joyce, Nottingham. Scale 1:2,000



Pin Green Neighbourhood, Fairlands, Stevenage

Stevenage is the first of the Mark I new towns to implement traffic segregation in a residential area. This part of the Fairlands sector (Chief Architect Leonard Vincent, Job Architect R. Taylor) marks the beginning. Owing to a ban on access from the main ring road on the east, main culs-de-sac are impossible and have been replaced by a winding road. This is crossed in many places by main paths leading to the shops and, where



Fox Hill Development, Burton Joyce, Nottingham. Typical house plans. Scale : $\frac{1}{8}$ in.

Pin Green Neighbourhood, Fairlands, Stevenage. Scale 1 : 3,000

760 dwellings
13 dwellings per acre

this happens, underpasses are to be provided.

The originality of this layout consists in the fact that for the first time in this country, no house fronts face directly on to the roads. Houses facing towards the ring road are separated from it by a hedge.

The density is low (13 dwellings per acre) and in consequence there may be a danger of monotony on the paths, but play areas and shops add to their interest. Garage provision is 100 per cent. The cranked roads may prove a strain on drivers.

Rise Farm, Nottingham

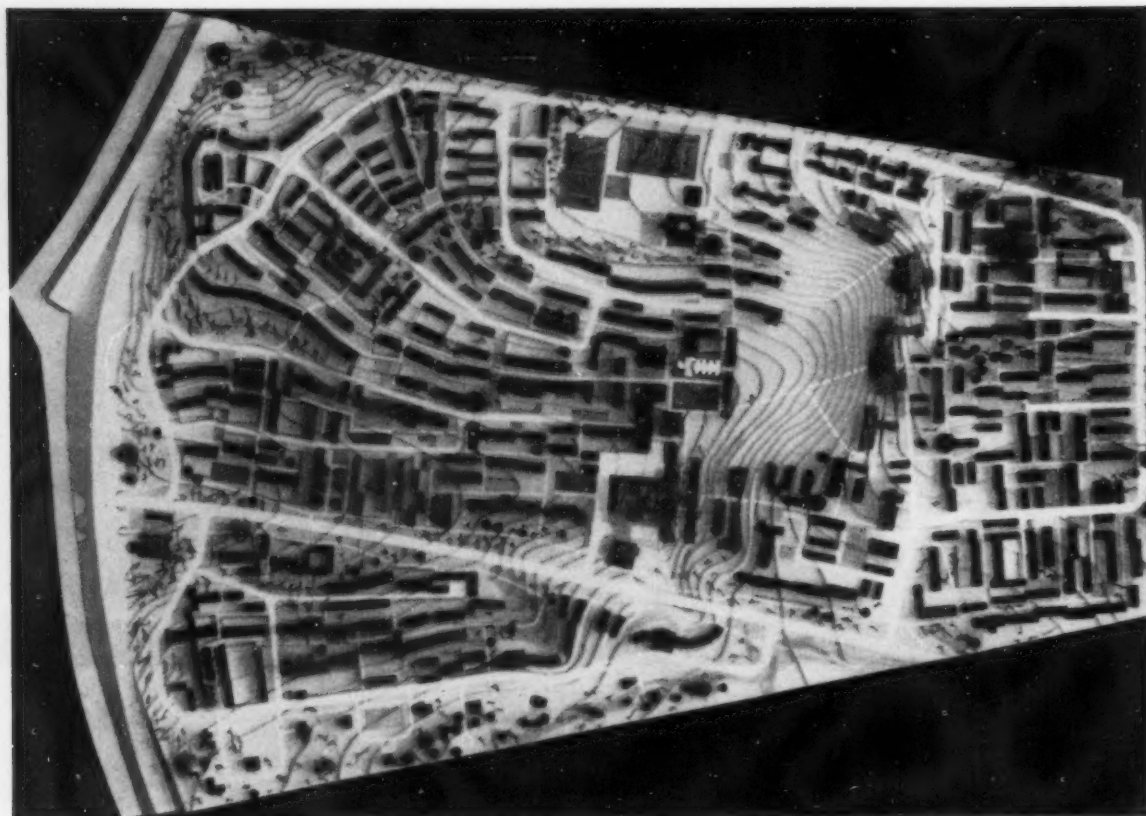
This is a large private residential development scheme (Architects' Design Group, architects, Eric Lyons, consultant) to include some 1,500 houses with shops, a church and a school. This is, therefore, the first private scheme of any size to adopt segregation in this country. Long paths lead to the centre from all superblocks and each house has an alternative pedestrian approach to the communal facilities.

Fox Hill Development, Burton Joyce, Nottingham

This small development, also by the Architects' Design Group, is included here mainly for the house plans. There is a path on each side of each terrace and access to adjacent houses is from different sides. This makes the gardens more private and also makes it easy to extend the houses. The cars are gathered into garage courts near, but apart from, the houses. Garage provision is 100 per cent.

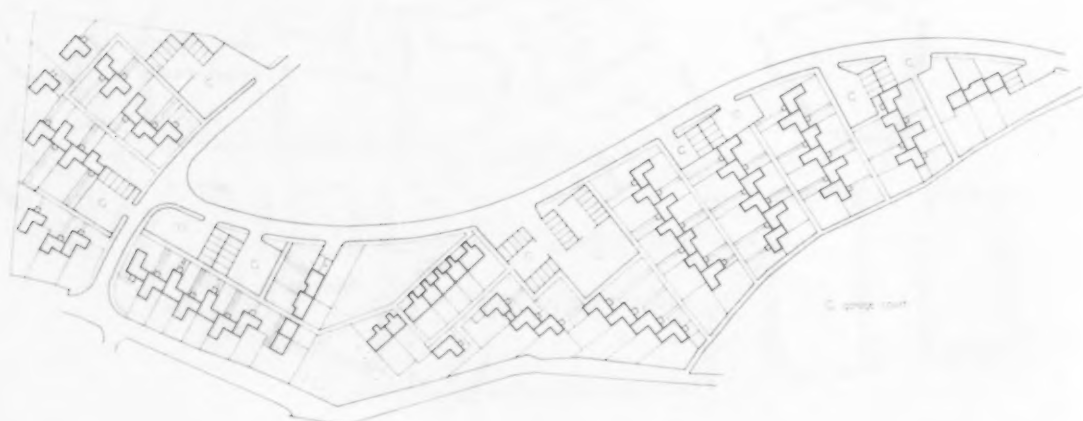


technical section



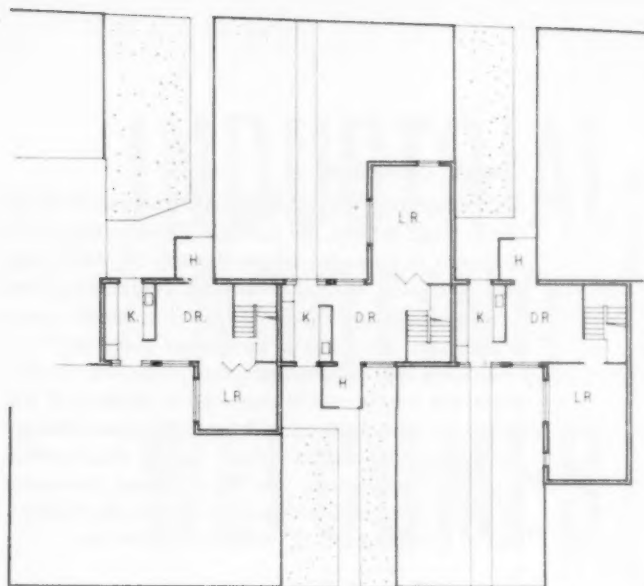
Photograph of model of Rise Farm Development, Nottingham. Scale approximately 1:6,000. White dotted lines represent footpaths

Fox Hill Development, Burton Joyce, Nottingham. Scale 1:2,000



Pin Green Neighbourhood, Fairlands, Stevenage

Stevenage is the first of the Mark I new towns to implement traffic segregation in a residential area. This part of the Fairlands sector (Chief Architect Leonard Vincent, Job Architect R. Taylor) marks the beginning. Owing to a ban on access from the main ring road on the east, main culs-de-sac are impossible and have been replaced by a winding road. This is crossed in many places by main paths leading to the shops and, where



Fox Hill Development, Burton Joyce, Nottingham. Typical house plans. Scale : $\frac{1}{8}$ in.

Pin Green Neighbourhood, Fairlands, Stevenage. Scale 1 : 3,000

760 dwellings
13 dwellings per acre

this happens, underpasses are to be provided.

The originality of this layout consists in the fact that for the first time in this country, no house fronts face directly on to the roads. Houses facing towards the ring road are separated from it by a hedge.

The density is low (13 dwellings per acre) and in consequence there may be a danger of monotony on the paths, but play areas and shops add to their interest. Garage provision is 100 per cent. The cranked roads may prove a strain on drivers.

Rise Farm, Nottingham

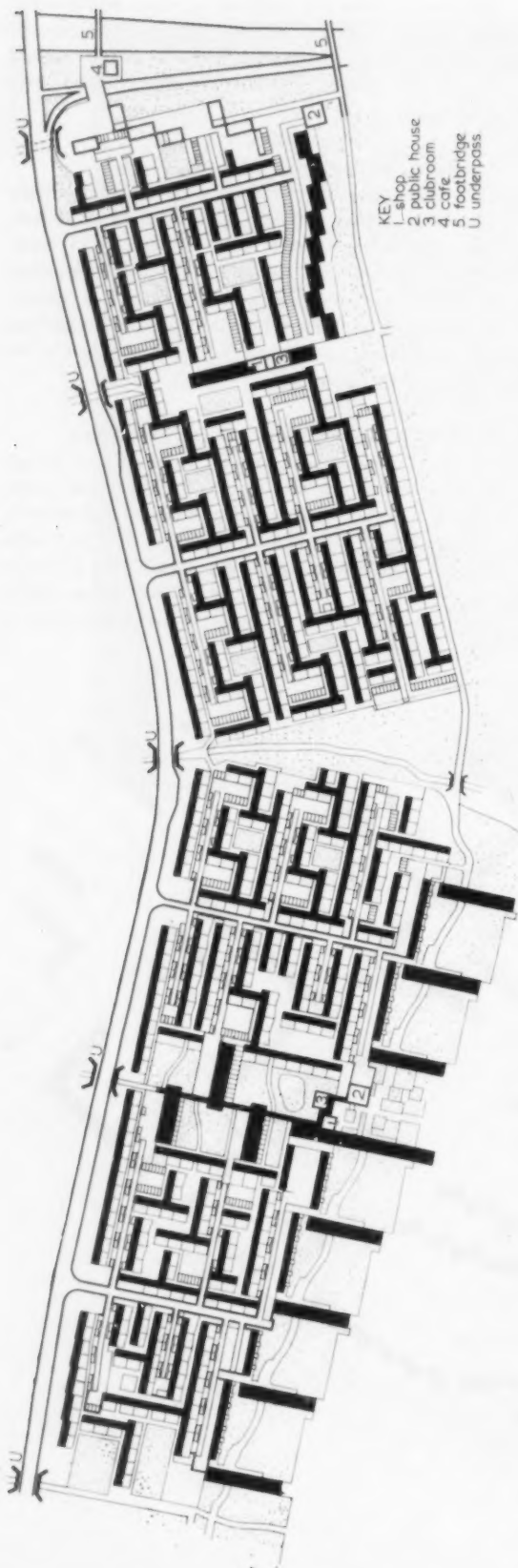
This is a large private residential development scheme (Architects' Design Group, architects, Eric Lyons, consultant) to include some 1,500 houses with shops, a church and a school. This is, therefore, the first private scheme of any size to adopt segregation in this country. Long paths lead to the centre from all superblocks and each house has an alternative pedestrian approach to the communal facilities.

Fox Hill Development, Burton Joyce, Nottingham

This small development, also by the Architects' Design Group, is included here mainly for the house plans. There is a path on each side of each terrace and access to adjacent houses is from different sides. This makes the gardens more private and also makes it easy to extend the houses. The cars are gathered into garage courts near, but apart from, the houses. Garage provision is 100 per cent.



technical section



Carbrain, Cumberland: the complete estate. Scale 1:4,500

Carbrain, Cumberland

A small part of this estate (Chief Architect and Planning Officer Hugh Wilson, Job Architect Derek Lyddon) was illustrated in an earlier article (January 26, 1961, page 146). We show here the complete estate comprising 1,164 dwellings at a density of over 80 habitable rooms to the acre. This scheme, now under construction, is remarkable chiefly for the adoption of the wide-fronted house and for the careful organisation of the road and path pattern in accordance with this revolutionary change. For this reason, and on account of the thoroughness with which segregation has been applied, this estate marks the furthest development to date of the Radburn idea in Great Britain, or, indeed, anywhere else.

BIBLIOGRAPHY

Books

- Ministry of Housing and Local Government. *Housing 1953*. HMSO.
 Vogler and Kühn. *Medizin und Städtebau*, Vols. I and II. Urban & Schwarzenberg, 1957.
 Stein, Clarence. *Towards New Towns for America*. Liverpool University Press, 2nd edition, 1958.
 Barr, Cleeve. *Public Authority Housing*. Batsford, 1958.
 Reichow. *Die Autogerechte Stadt*. Otto Meyer, 1959.

Articles

- Mayer, Albert. A technique for planning complete communities on the Greenway principle. *Architectural Forum*, January and February, 1937.
 Kent, Barker. A comprehensive layout for a neighbourhood plan. *Architectural Forum*, July, 1938.
 Womersley, J. L. The architect's contribution to housing. *RIBA Journal*, July, 1952.
 Description of Wade Hall, Leyland, in article on high density housing for Lancashire schemes. *Municipal Journal*, January 23, 1953.
 Stephenson, Gordon. The Wrexham experiment. *TPR*, January, 1954.
 Womersley, J. L. Some housing experiments on Radburn principles. *TPR*, January, 1954.
 Stein, Clarence. Kittimat. *Architectural Forum*, July, 1954.
 Mercer, J. Modern tendencies in estate layout. *Public Works Congress Report*, 1954.
 Students' Project. A compact new town with a "Specific Function." *AJ*, November 22, 1956.
 Guerin, E. J. Vallingby. *Architecture and Building*, December, 1958.
 Doxiadis, C. Ekistics and projects. *APXITEKTONIKH*, January-February, 1959.
 Editorial. Review of Child's Eye Exhibition. *Architecture and Building*, July, 1959.
 Turner, Robert. Garages in residential areas. *TPR*, July, 1959.
 Travis, A. S. The Radburn System, a review of exhibition at Housing Centre. *AJ*, August 20, 1959.
 Wilson, H. L. Cumberland New Town Mark II. *AJ*, October 1, 1959.
 Davies, A. Planning for the motor vehicle at Basildon. *A & BN*, November 11, 1959 (and correspondence in subsequent issues).
 Review. Does Radburn work? Lecture by Paul Ritter at Housing Centre. *AJ*, November 26, 1959.
 Ritter, Paul. The Radburn idea in Great Britain. *Housing Review*, January, 1960.
 Ekholm and White. Baronbacka at Orebro. *University of Manchester Architects' Society Journal*, No. 8.

Booklets

- Housing in Baghdad. Report prepared for Government of Iraq by Dr. Doxiadis. March, 1957.
 Exhibition Child's Eye View. Introductory Booklet. April, 1959.
 Ritter, Paul. Making Unsafe Roads and Footpaths Should be a Recognized Crime. Ritter Press, 1959.
 Göteborg's Bostadsföretag Stiftelse. Illustrated booklet for tenants moving into Biskopsgården.
 Eastwick development project. Illustrated booklet issued by Doxiadis Associates.

Unpublished Works

- Ritter, Paul. Thesis for Master of Civic Design, Liverpool, 1951. Some aspects of residential planning.
 City Architect's report for Northampton Borough Council, 1952.
 Report of Conference on Housing Layout by Nottingham County Council, 1955.
 Ritter, Paul. Thesis for Ph.D. Sociology, Nottingham, 1957. Housing Layouts and Social Patterns.
 County Planning Officer's Report, East Lothian County Council, September, 1957.
 City Architect's report for Coventry City Council, 1958.
 Letter to new tenants at Willenhall, Coventry, from Housing Superintendent, 1958.
 Chief Architect's reports for Cumberland Development Corporation, 1959.
 Robertson, Mark. Special Study Diploma Civic Design, Liverpool, 1959.
 Willenhall Wood, a Pilot Survey.
 Housing Architect's report for Beeston Rural District Council, 1959.
 Ritter, Paul. A short sociological study of Greenhill, Sheffield, and Willenhall Wood, I, Coventry.

INDUSTRIAL ROOFING WELCOMES THE

SIPOREX

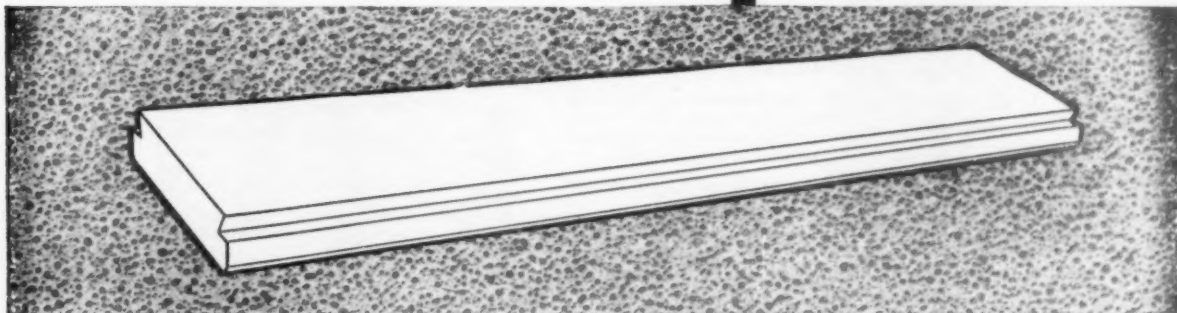
AGE

For over 25 years in widespread use in Northern Europe and many other parts of the world, SIPOREX, the lightweight cellular structural material *is now being manufactured here.*

Siporex revolutionises building techniques and offers architects and structural engineers many outstanding advantages.

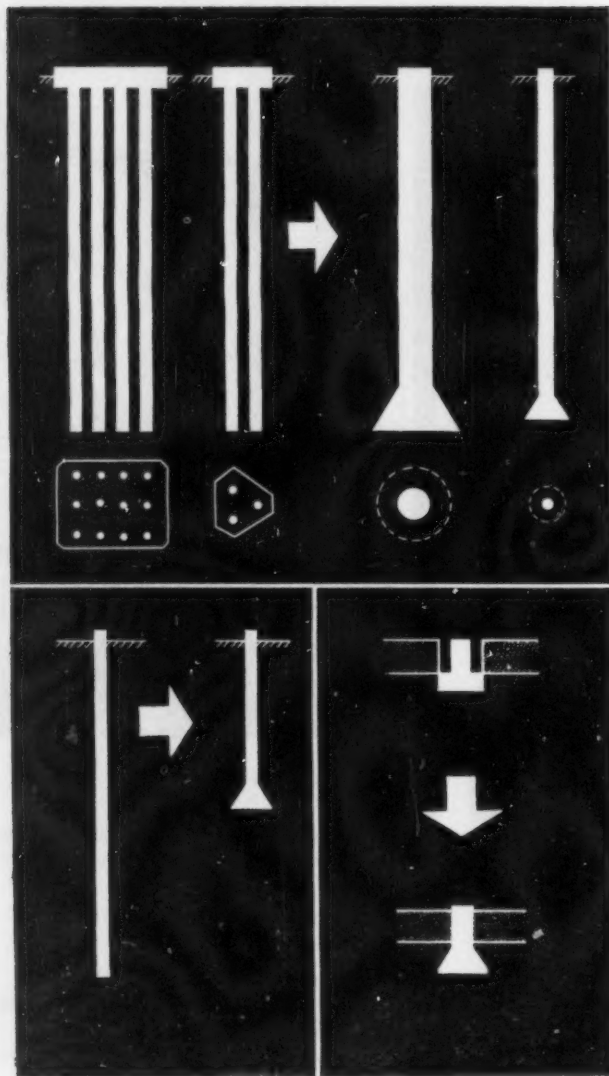


- ★ 25 years successful experience all over the world are behind Siporex.
- ★ Over 30 million sq. yds. of Siporex roofing have already been laid, from the equator to the arctic.
- ★ Siporex is simple and rapid to erect—reducing site labour costs.
- ★ Siporex has a thermal insulation ten times that of concrete and is completely incombustible.
- ★ Siporex is only a quarter the weight of an equivalent volume of concrete, reducing the cost of structural framework and foundations.
- ★ Siporex compares favourably in price with other building materials.



SIPOREX THE MODERN LIGHTWEIGHT CONSTRUCTION MATERIAL

Manufactured in Great Britain by: COSTAIN CONCRETE COMPANY LIMITED (A member of the Costain Group)
DUNCAN HOUSE, DOLPHIN SQUARE, LONDON, S.W.1. SIPOREX FACTORY, NEWARTHILL, LANARKSHIRE, SCOTLAND



The advantages of the new technique of **UNDERREAMED BORED PILING**

Foundation borings ranging from one to eight feet in diameter can be drilled at high speed to depths of 110 feet and their bases underreamed to provide greater load bearing area. The excavations are filled with concrete, reinforced if necessary.

1. A group of small diameter friction piles can be replaced by a single underreamed large diameter pile carrying its load mainly in end bearing.
2. A group of small diameter end bearing piles can be replaced by a single large diameter pile. This reduces drilling costs and an additional saving in concrete can be made where underreaming is possible.
3. In suitable ground a single pile can carry a load in excess of 2,000 tons.
4. Pile cap costs are reduced or eliminated.
5. A long friction pile can be replaced by a shorter underreamed pile carrying part of its load in end bearing.
6. Pad and strip foundations can be replaced by piles with or without enlarged bases. Considerable savings in the cost of hand excavation, timbering, dewatering and reinforcement can be achieved, even for small houses.
7. The soil strata in any individual boring can be inspected.
8. Underreamed piles can resist heavy tensile forces.
9. The McKinney system of auger drilling is quiet and causes no vibration damage to adjacent structures.
10. Other types of boring for access shafts, soakaways, etc., can be carried out rapidly and cheaply with the equipment.

McKINNEY FOUNDATIONS LIMITED

MANOR WAY, BOREHAM WOOD, HERTFORDSHIRE
Telephone: Elstree 2854

A **LAING** COMPANY

Open to architectural and planning students, and organised by The Evening News & Star, the first prize of £300 has been awarded to the entry by K. C. Soo, C. K. Togobo and R. Westmaas; the second of £200 to the scheme by J. F. Hannam and J. L. N. Pegrum; and the third of £100 to the design of G. B. Noble and Shirley E. Noble. The assessors were E. Maxwell Fry, C.B.E., F.R.I.B.A., Edward D. Mills, C.B.E., F.R.I.B.A., and Noel Moffett, B.Arch., A.R.I.B.A., A.M.T.P.I., who also highly commended the entries by Edward Hardy, Jr., Terence Charles Stewart, Digby C. Bridges and Antony Evans, and Terence Jenkins and Peter Ellenthorpe. All these designs, together with a selection from the remaining entries, will be on show at the Building Centre from 2 p.m. on Friday February 24 until March 10.

Piccadilly Circus Competition

In the conditions, in order to define the scope of the competition, the organisers quote the following extract from the report of public inquiry into the Monico site by Colin Buchanan: *I think that a comprehensive plan, if it is to be of any use, must broadly outline the nature, disposition and quantity of the main uses, the traffic circulation including the provision for pedestrians, and the three-dimensional architectural conception including the general character and atmosphere which it is desired to achieve.*

In this report, which competitors were required to study, Colin Buchanan made it one of his main conclusions that *if major rearrangements are necessary for dealing with . . . traffic and improving conditions for pedestrians, then the opportunity should be taken to secure a brilliantly imaginative redevelopment . . . the Circus is a unique place wonderfully situated*

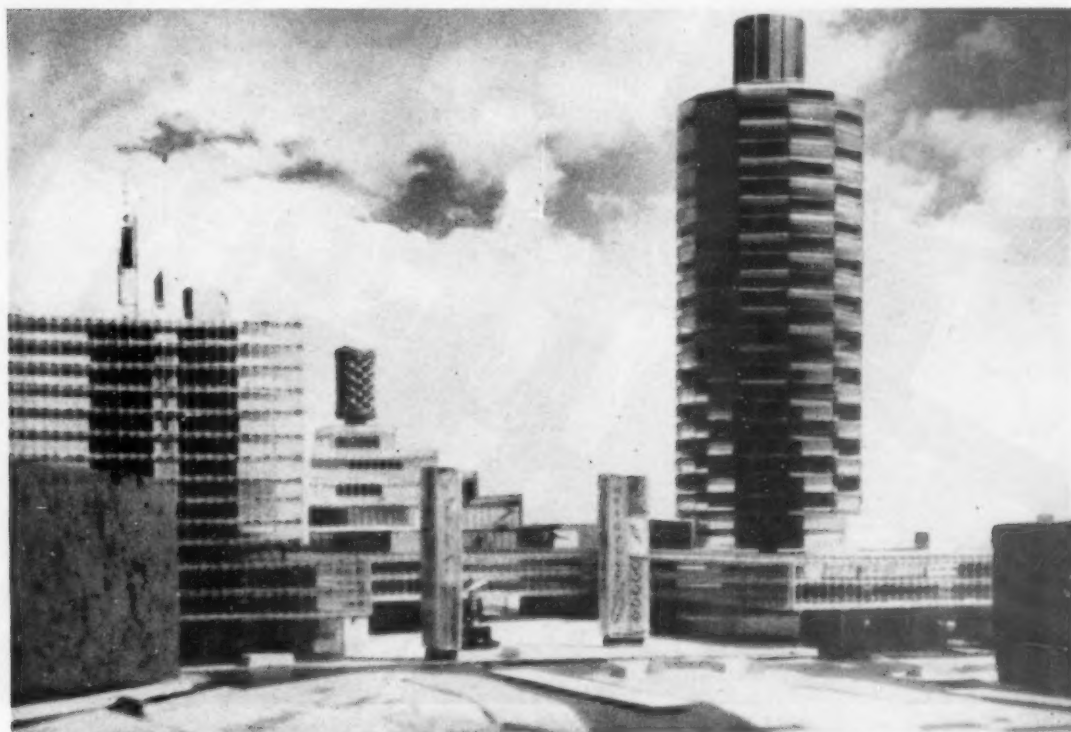
between the finest shops and the best theatres in a great capital city. It attracts people from the ends of the earth as it is, and if comprehensive development is to take place then it should be to a standard that really justifies a journey from the ends of the earth.

This competition is thus aimed at making a useful contribution to the possible future redevelopment of the Piccadilly Circus area. In the background is the failure, made perfectly evident by the Monico enquiry, of the LCC and other participating bodies, to rise to the special planning needs of such a unique area. Much attention at the time was focused on the aesthetic weakness of the design for the proposed redevelopment of the Monico site, and the need for truly comprehensive replanning of the area. But equally there was a failure on the part of the LCC to take proper

account of the need for complete re-organisation of traffic. These two aspects, a comprehensive plan to which developers would have to conform, and a radical solution to the traffic problem, were the two points which the MOHLG took up with the LCC as a result of the inquiry. Since then, of course, Sir William Holford has been appointed to prepare an overall scheme, and his first tentative proposals are published elsewhere in this issue.

Competitors were given very loose terms of reference, and were therefore free to develop their own ideas as to how the dual functions of the Circus as an important traffic intersection and a focal point for pedestrian movement could be resolved. At the same time they were left free to take up any part of the area up to five hundred feet from the Circus. They were, however, requested to

Model of the winning scheme from the west



consider the design as being a realistic operation, not only to cope with traffic originating outside the area, but also to be bound by existing regulations. In particular they were asked to study the MOHLG handbook on the *Redevelopment of Central Areas*. In view of this demand for a realistic approach, and particularly bearing in mind that it is a competition for students, it is unfortunate that the conditions do not include any design information, other than an area map, upon which such a realistic approach could be based. It would obviously have been of great advantage if competitors could have been provided with such items as a survey of existing traffic densities, the condition and expected life of the buildings in the area and an indication of the pedestrian flow, particularly that associ-

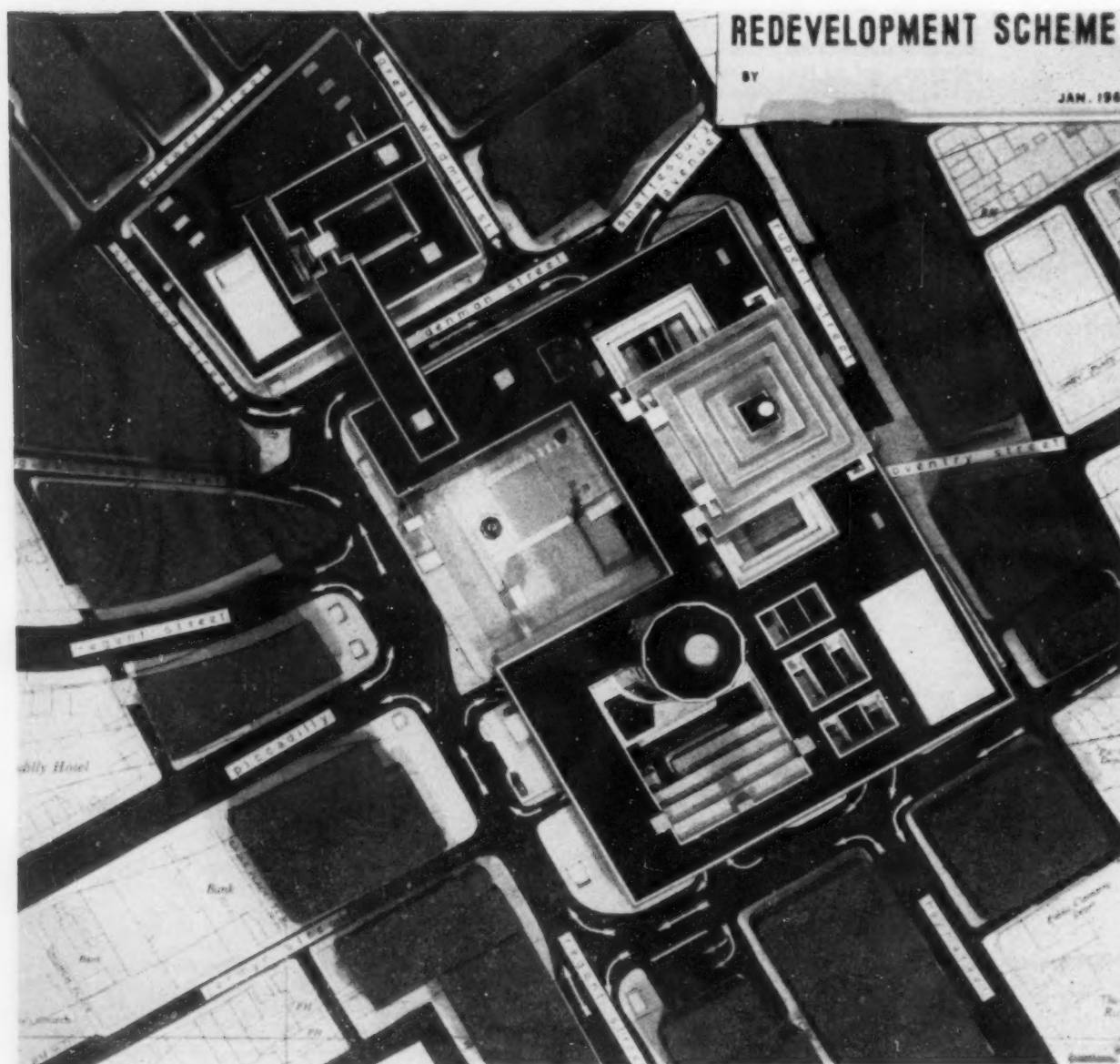
ated with the tube station. The absence of such information has put a strong bias in favour of the quick and superficial *esquisse* rather than on designs that could make some positive and practical contribution to the exploration of the problems involved, and the various possible ways in which they might be overcome.

This weakness is reflected in the general characteristics of the entries as a whole; the majority of them are essentially superficial in character, the chief failure being that of a partial or complete inability to deal with the traffic. Nevertheless the general standard of the entry shows a high degree of imaginative thinking about how this key area should be redeveloped. Bearing in mind also the fact that the competitors were required to submit not only drawings, but perspective

sketches and a model, the general standard of presentation is very high. It would perhaps have been better, however, if the organisers had made their requirements somewhat more limited, so that more time could have been spent on a study of the planning problems, and less on the sheer drudgery of producing a mass of drawings as well as a model (which is usually enough by itself to explain the basis for each scheme).

It is hardly accidental that the assessors have awarded first prize to the entry which is outstanding for the fact that it has been based upon a most careful and realistic study of the area round the Circus. In the report on this design by K. C. Soo, C. K. Togobo and R. Westmaas (all at the Brixton School of Building), it is clear that they have investigated

Plan view of the model of the winning entry





View out from one of the offices on the south side of the winning scheme

in some detail such matters as the age and condition of the existing buildings, and the underground obstacles to the free use of excavations. Beyond this, their main premise is that for the major part of the area the existing ground level should be for the exclusive use of pedestrians. In view of the discussions at the inquiry in favour of raised pedestrian decks, and their inclusion in the Holford proposals, this idea may at first sight seem reactionary, indeed rather old hat. It has, however, at least two great virtues. In purely practical terms, development could proceed in a series of stages without undue disruption to the existing facilities in the area, and with no problem of a partially finished upper level being ignored by pedestrians. At the same time the expense and complications of additional escalators and ramps are avoided. On this basis, the designers saw three possible alternatives for taking the vehicles out of the area, and achieving complete segregation. First, merely to close the Circus would be unrealistic, and would result in traffic chaos in the area. Second, to use flyovers would be difficult with the existing ground levels, and would be a wasteful form of planning. They have therefore adopted the third method of an underpass, which they have coupled with a very workable one-way system for the area.

Accepting the alignments of the County Fire Offices and that of the south side of Piccadilly, they have used these two frontages to define an open square which forms a large pedestrian piazza into which the Eros statue is resited. This is set in one large block of uniform eaves level which is pierced to form internal courtyards and within which rise various elements. These include a slab office block on the north side, a circular hotel on the south, and a stepped restaurant on the east. The west side of the Circus is left open

for through traffic. Lower Regent Street is widened, and an underpass provided from Shaftesbury Avenue to Norris Street.

The essence of this design, assuming comprehensive redevelopment under a single control, is that they have created a mechanism which can provide the required character of enclosure for the Circus (which so many of the objectors to the Cotton Monico design considered to be essential), while providing flexibility for a wide variety of different building types. The solution to the traffic problem is a relatively simple and straightforward one and is neither futuristic nor wildly expensive. The pedestrian piazza, through its alignment, becomes a natural climax both to Regent Street and to Piccadilly, and also serves as

a link to Leicester Square and beyond.

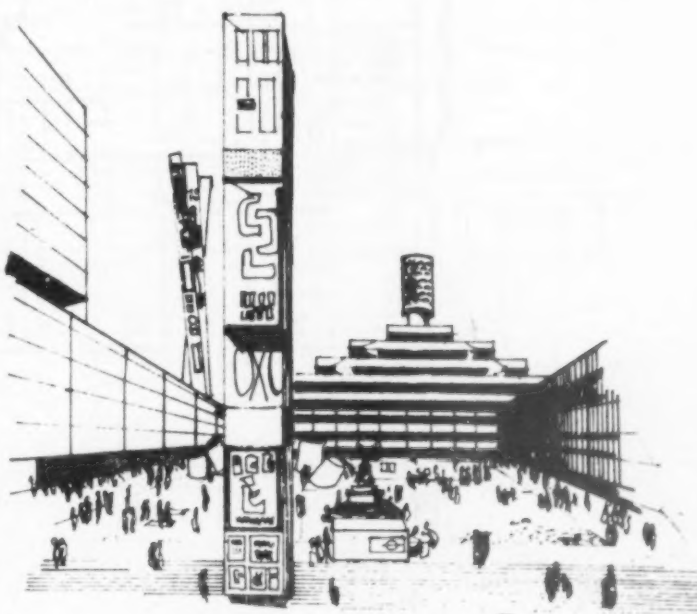
One of the features of the layout is to concentrate advertisements on free-standing vertical features. Such a method overcomes many of the problems associated with the present use of signs on buildings in the Circus and elsewhere, which were discussed at the inquiry. An additional feature is a revolving searchlight tower on top of the restaurant block, from which a vertical shaft of light would shoot into the night, with coloured lights playing onto the square and its surrounding buildings.

At the same time the aim of the scheme is to reinvest the Circus with the colourful pattern of human life, with sitting areas and a large open space round Eros itself for festive occasions.

The assessors comment that in their view this is the most comprehensive of the schemes submitted. *It satisfactorily solves the problems of both vehicle and pedestrian traffic, while creating an environment which would perpetuate the character of the Circus. The scale is appropriate throughout and the placing of the dominant elements is particularly fitting. The scheme offers a variety of experience both architectural and social. The handling of the advertisements, detached from the buildings, is to be highly commended. The scheme is based on a very thorough analysis of the conditions.*

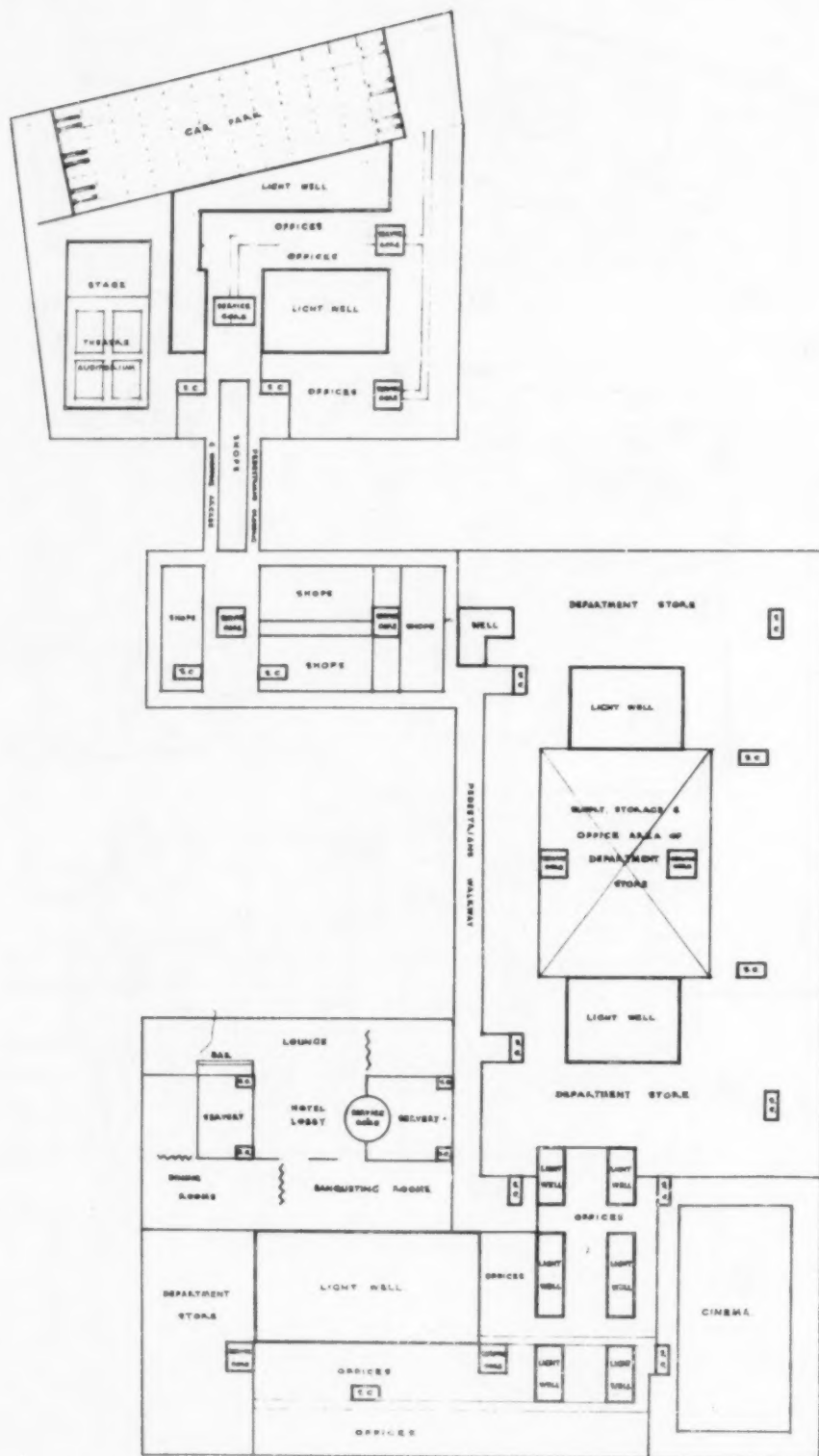
One small weakness is that the scheme could benefit from a more complete study of the way in which the pedestrian piazza should be laid out in detail, so as to develop it more

Looking into the piazza from the west. In the foreground is one of the free-standing advertisement pylons

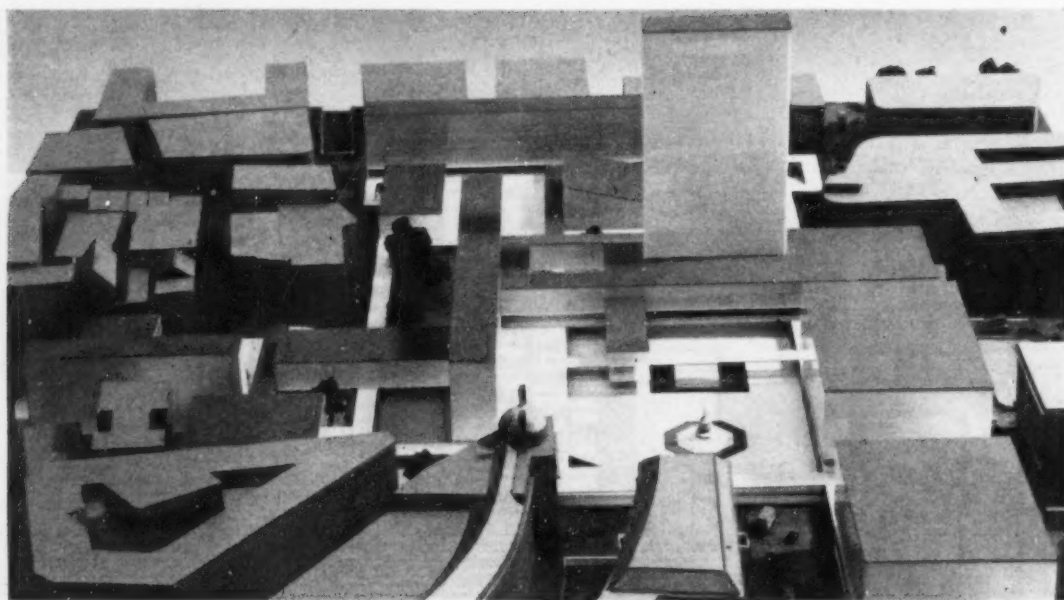


Plan of winning scheme at basement level, 50 ft. datum





Plan of the winning scheme at second floor level, 90 ft. datum



Model of the scheme placed second, seen from the west

completely and richly as a climax to the scheme, but this is obviously a matter which could very readily be tackled.

The design placed second, by Julian F. Hannam and J. L. N. Pegrum, like the winning scheme, abolishes the road traffic from the Circus by pushing it underground. In this case, however, the reorganisation is more fundamental. A new ground level 20 ft. below the existing one is created by the amalgamation of all existing basements, which can then be used not only for through roads and service access, but equally for two-storey car parking. By this means parking is provided for some 1,200 cars in the area.

The pedestrian precinct thus created in the Circus area is deliberately developed as an arena at ground level, with raised walkways on all four sides. At the same time, this piazza is enclosed on all four sides at ground level; to the south by a department store, the long exposed side of which is entirely used for advertising; on the east by the podium of a tall hotel block, which on the ground floor is devoted to shops, in front of which is poised a pedestrian bridge and a small café; on the north by a large raised pedestrian deck, rising out of which is a block for restaurants; and on the west side by a further pedestrian bridge. The upper level to which access is provided by broad flights of stairs, becomes an observation area for the piazza, with cafés and space in front of them to sit outside and also public seating. The deck is also directly connected to the department stores on the south side. Beyond the piazza to the north, the

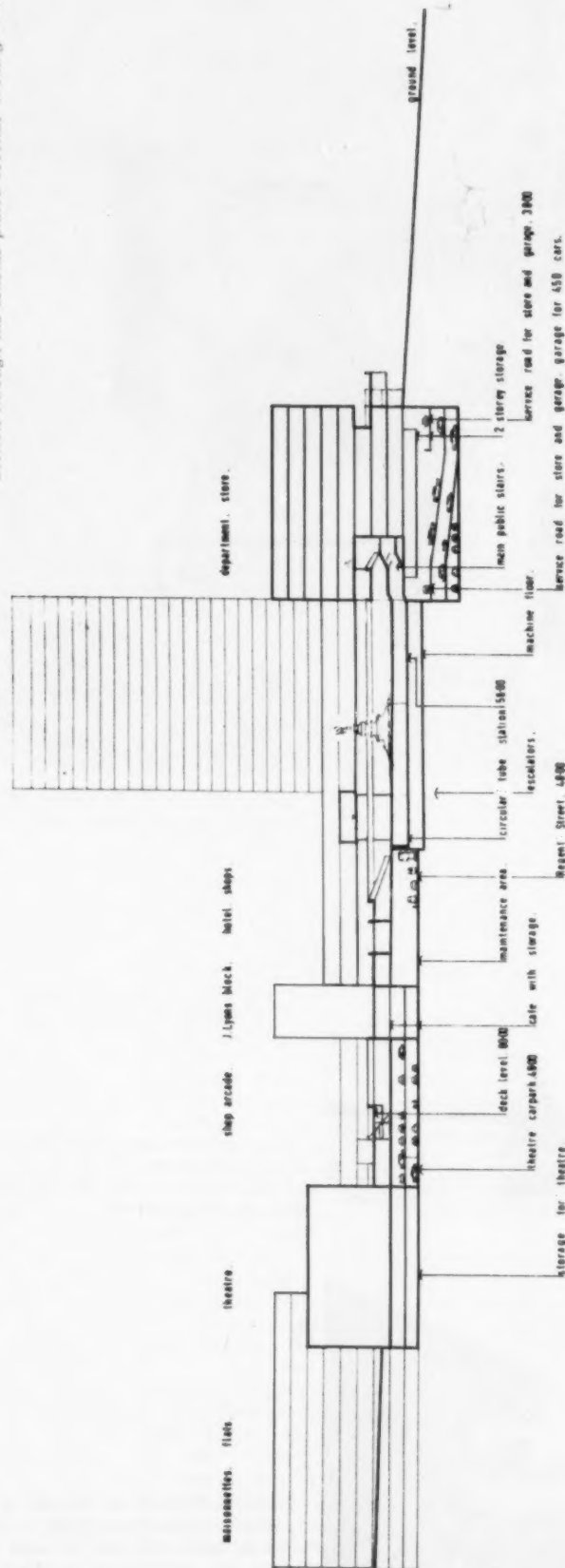
scheme includes the redevelopment of a token area in Soho. This is intended to be much smaller in scale, and different in character, particularly by the introduction of a certain amount of planting. Also at both pedestrian levels there is a continuation in the direction of Leicester Square, with two cinemas enclosed by shops and offices to form further open spaces.

This scheme is very beautifully presented, and in purely visual terms there is no doubt that it could provide much more variety and interest as a complex of connecting pedestrian spaces than the winning design. It unfortunately fails, however, in its broad massing, to create the scale required for new development, except for the hotel tower the massing being entirely in line with the buildings replaced. In visual, just as much as economic, terms it would seem to be essential to balance any opening out to create a new and larger pedestrian area with much larger and more powerful vertical masses. The proposed block arrangements also allow the space to leak away, rather than to create any real sense of containment above the pedestrian deck level. As the assessors say, *the buildings, though in scale with surrounding buildings, are not very suitable for Piccadilly Circus, and are reminiscent of a university complex with a high measure of open and garden space.*

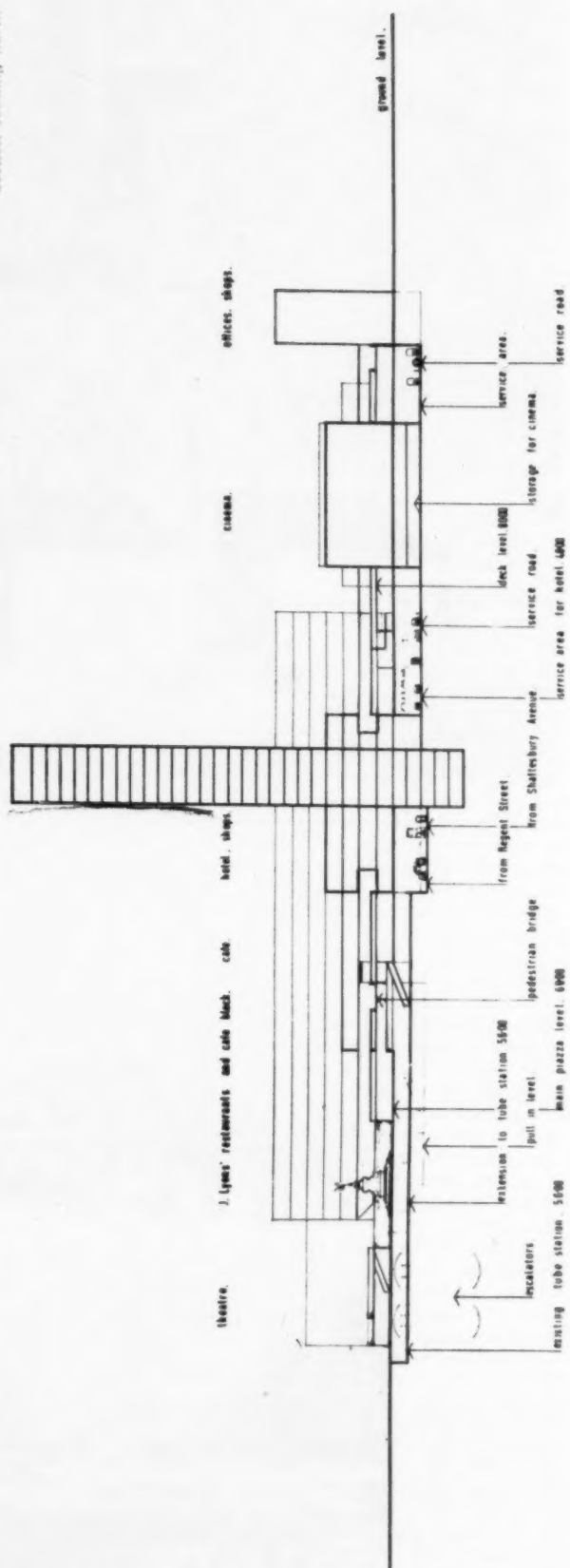
The first impression of the scheme placed third, by G. B. Noble and Shirley E. Noble, is that it is the perfect road engineer's solution. The design rejects the idea of placing the roads underground, and in order to leave the ground level free for pedestrians, through traffic is raised on to

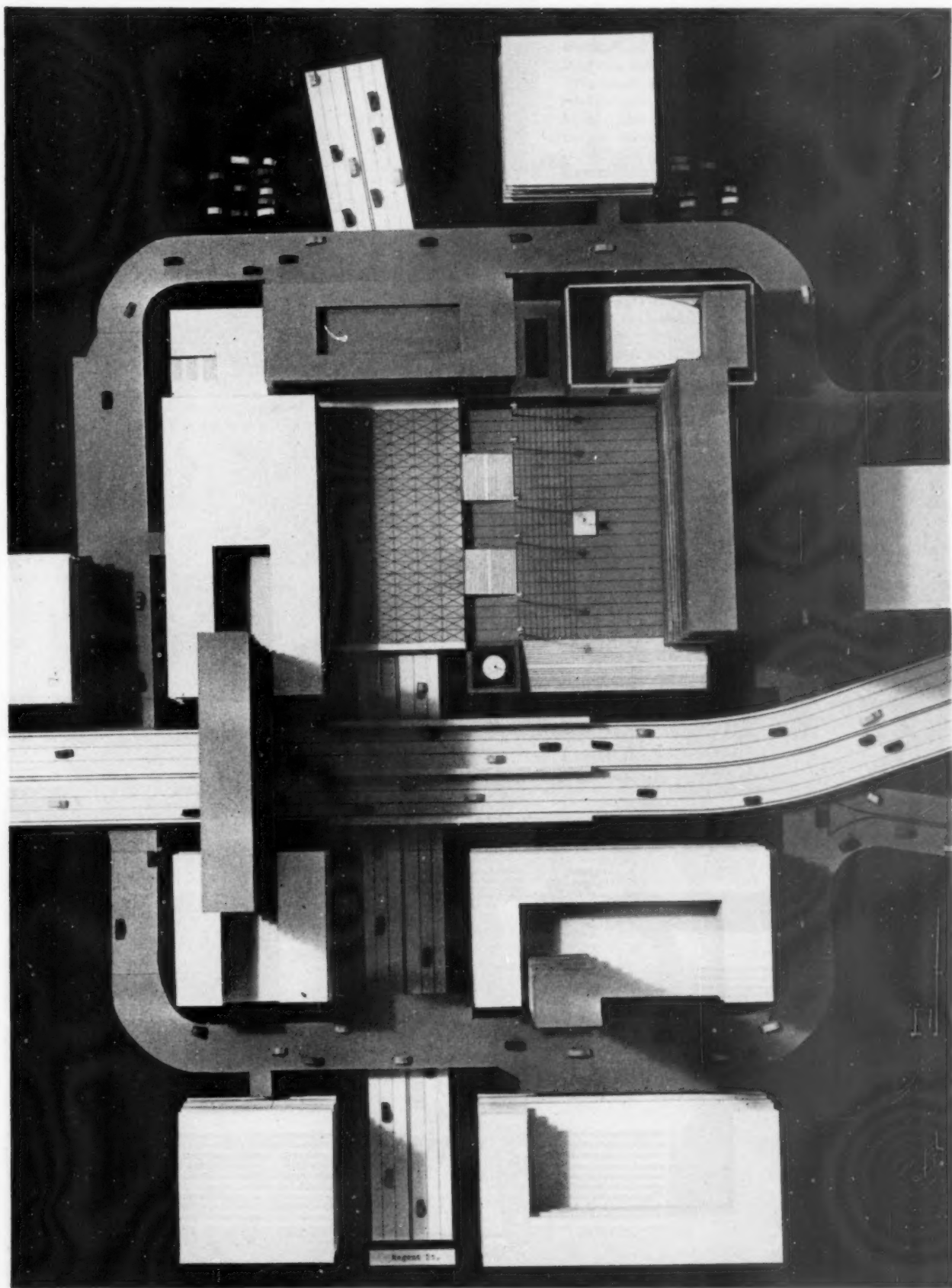
a multi-level flyover carrying north-south and east-west major roads, each six lane and eighty feet wide. But these are, of course, for fast through traffic, and so to cope with the diversion of local traffic the area is surrounded by a ring road with one-way circulation linking the streets at present opening onto the Circus. As a result of this pattern the area is chopped up into a series of separate elements, so that no real sense of enclosure can be created, even though the device has been used of spanning the roads with tall blocks. The scheme also ignores the existing buildings on the west side of the Circus which are likely to have a considerable useful life, and which despite their very limited intrinsic architectural merit, have at least some virtue in being on the alignment of the original Nash layout. The assessors say that *this is a bold and imaginative solution, but lacks a sense of place and is physically unrelated to surrounding property. The major traffic premise is perhaps questionable, but the scheme's dual faults are a lack of identification and undistinguished placing of buildings. The idea for dealing with advertising signs behind louvred screens is a good one.* This latter point refers to the suggestion by the designers that all large neon advertisements above second floor level should be placed behind opaque glass or adjustable louvred screens, in order to make them as unobtrusive as possible by day, whilst being fully effective by night. This suggestion indeed has merit, except that with current advertising techniques, many of the existing signs are left switched on during the day, and are reasonably

Section through the scheme placed second, looking east



Section looking north



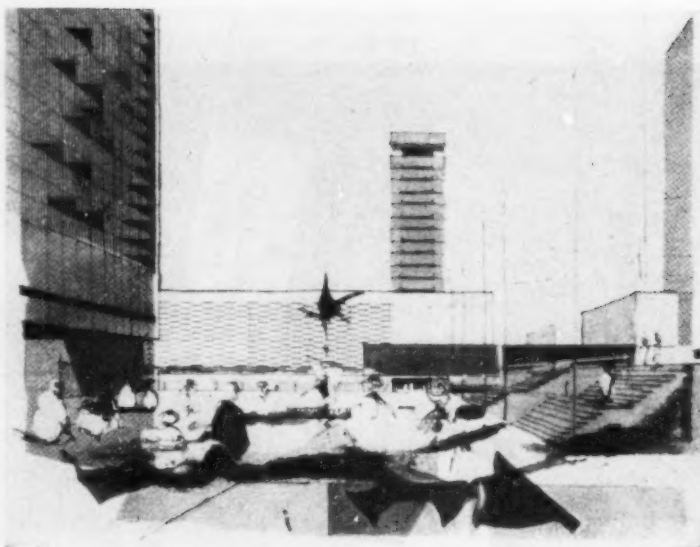


Plan view of the model for the design placed third, by G. B. Noble and Shirley E. Noble

effective except in bright sunshine. This has, of course, been a competition of ideas. The last one of a similar nature was the *Sunday Times* competition for the extension to the National Gallery. As on this previous occasion, the achievement is largely exploratory, that the potentialities and limitations of a particular site have been studied and explored by many minds. As has already been said, the organisers would have received more realistic schemes if a more complete brief of design data had been furnished to the competitors. It would also have been helpful if guidance had been given as to the retention of any existing buildings in the area.

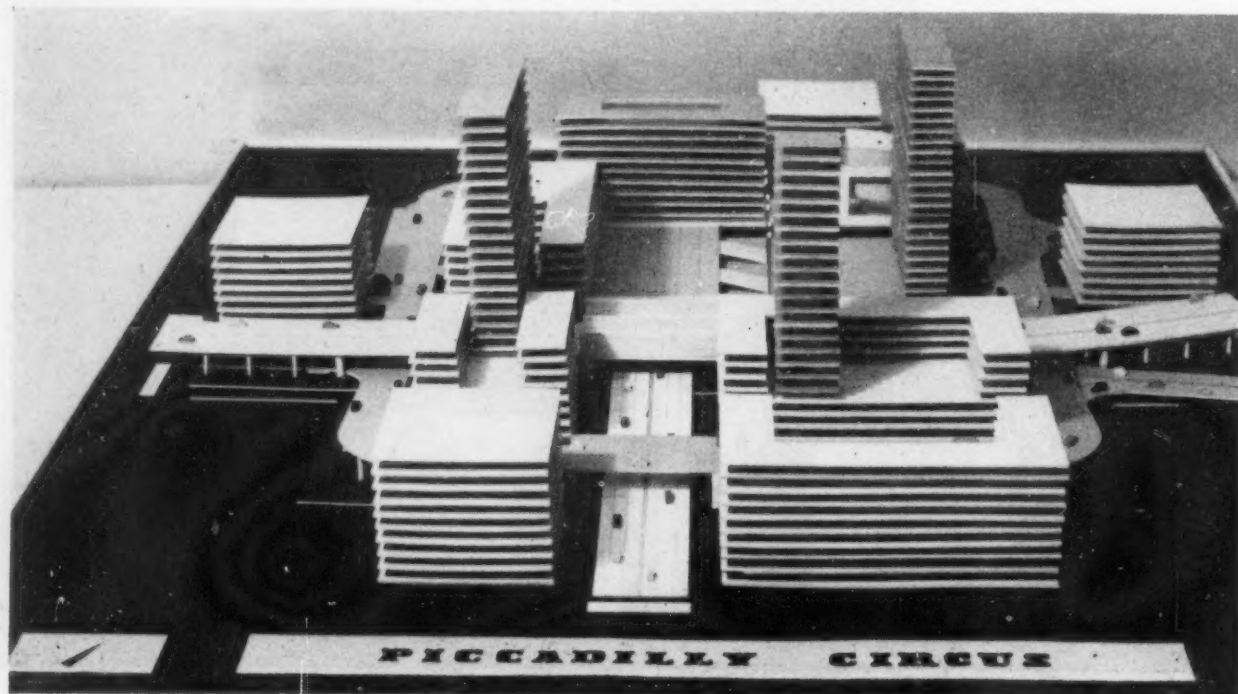
Nevertheless the organisers are to be congratulated on sponsoring this exhibition, since the result makes a positive and constructive contribution to the future of the Circus.

There is no doubt, too, that the winning scheme is an intensely practical one. It has one particular virtue which should commend it to the LCC, that within a scheme developed with the utmost clarity, it nevertheless can be regarded as flexible framework within which quite a wide variety of different requirements could be assimilated. Accepting the idea of this continuous three-storey podium, out of which are formed the three sides of the Circus piazza, there is no reason why the detailed pattern of openings within it, and the masses rising above it, could not be varied without disrupting the scheme in principle in any way. This is surely the type of radical plan for comprehensive redevelopment that Colin Buchanan urged as essential in his report on the Monico inquiry.



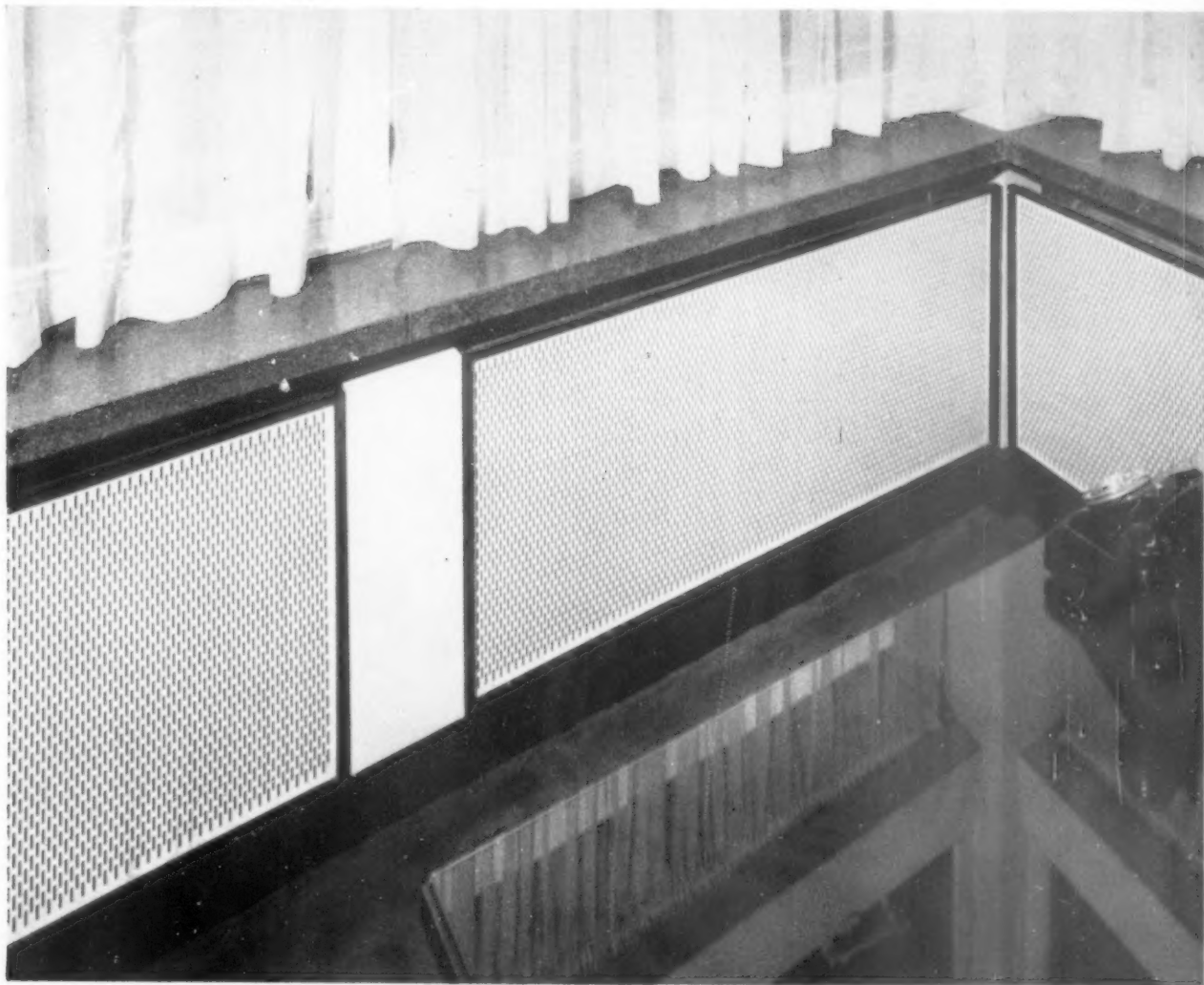
Perspective of the scheme placed third, looking south across the main pedestrian area. On the right this is raised to an upper level to span one of the main through roads

Model of the design from the south. This scheme is based on one of the most radical traffic layouts submitted, consisting of two major through roads at right angles to each other for through traffic, and a ring road round the periphery of the area for local circulation



HEATING PANELS: OFFICES IN LONDON, W.1

C. H. Elsom and Partners, architects

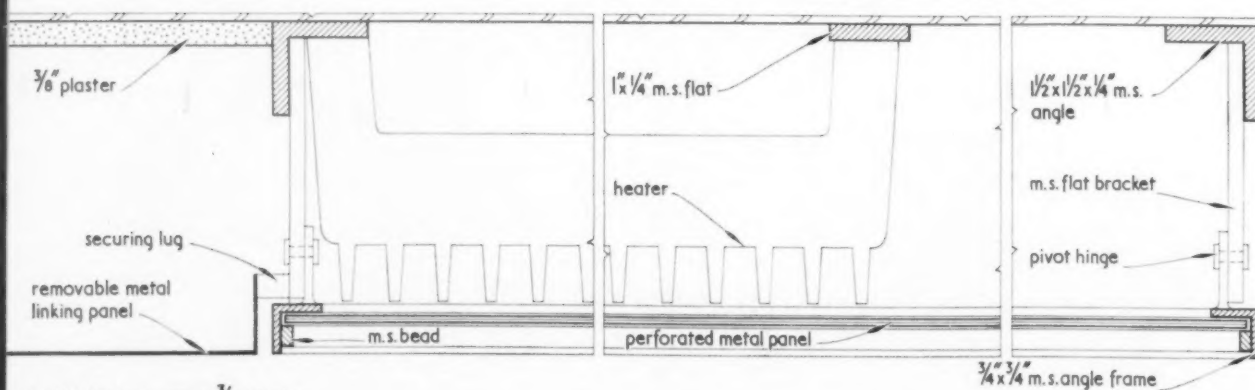
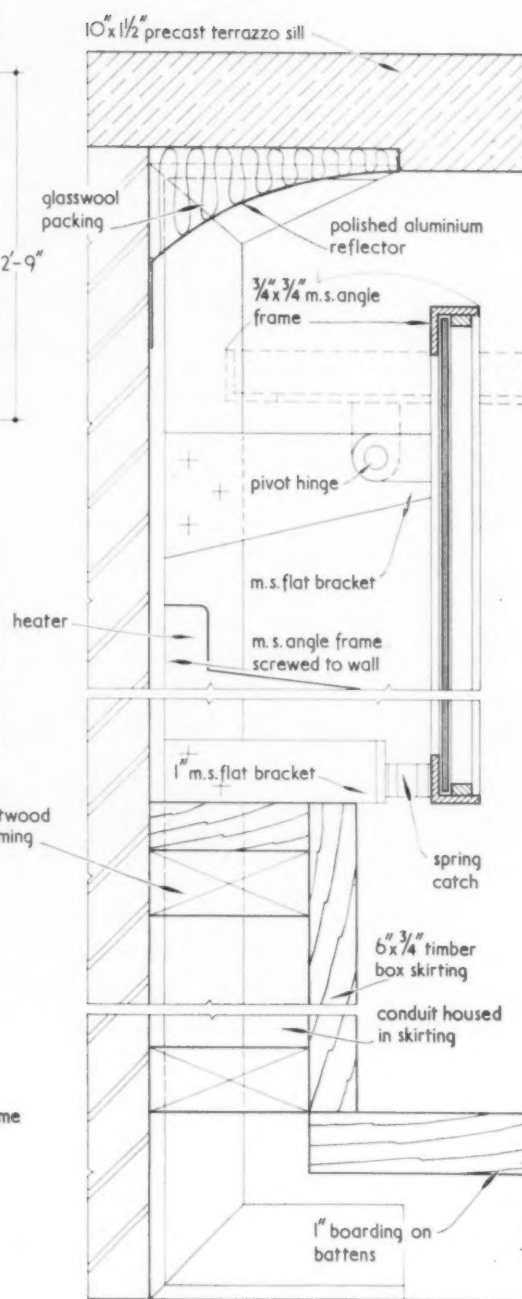
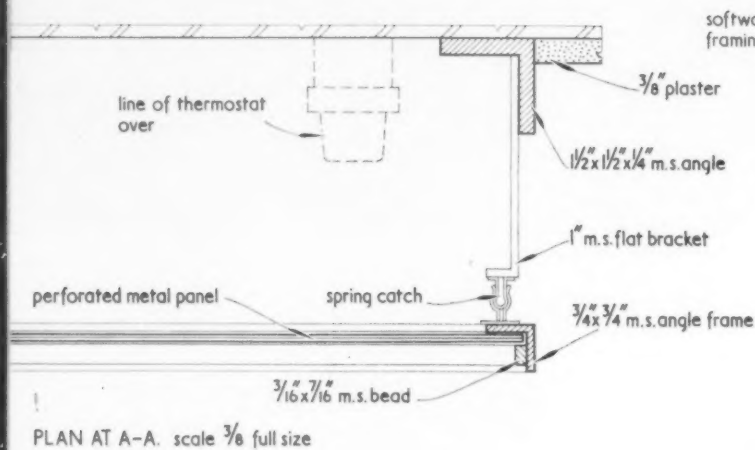
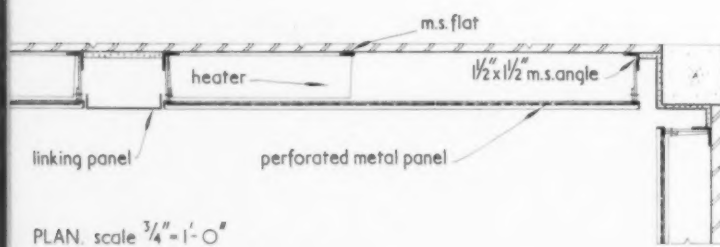
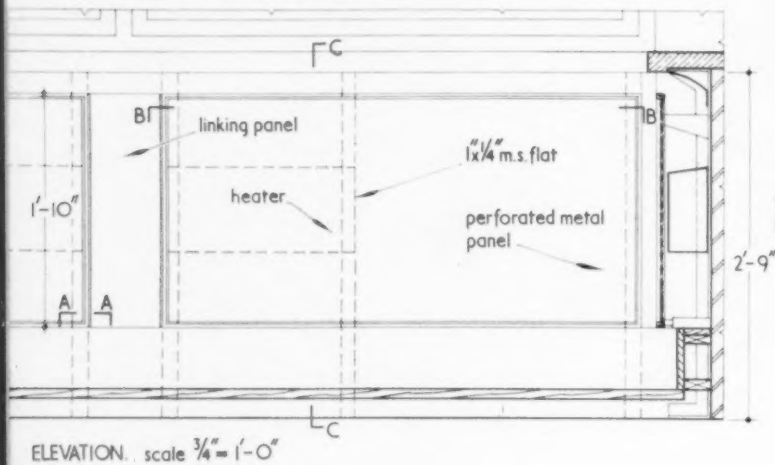


These movable heating panels, projected slightly forward of the skirting and withdrawn slightly backward of the sill, give a good example of the incorporation of heating within architectural surfaces.

working detail

HEATING PANELS: OFFICES IN LONDON, W.1

C. H. Elsom and Partners, architects

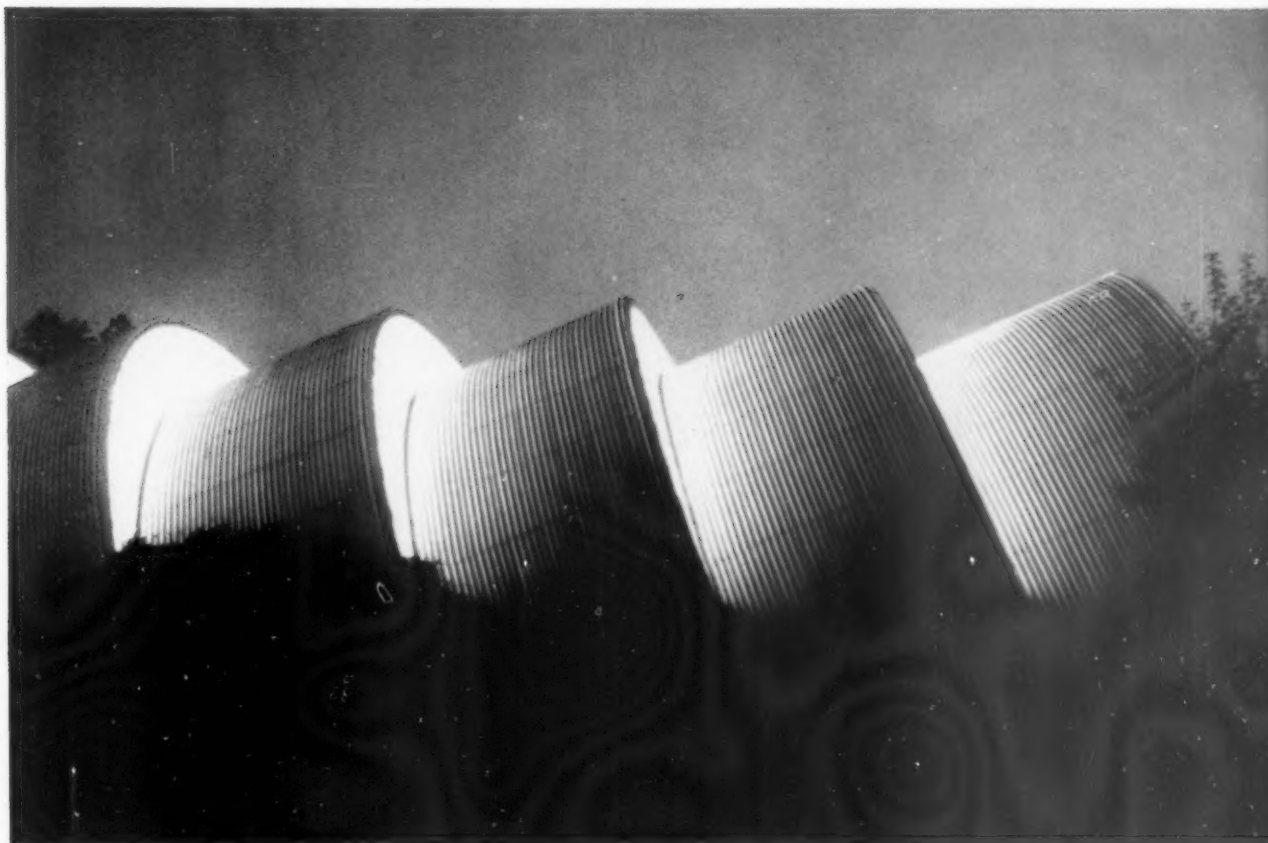


working detail

ROOFS AND CEILINGS: 65

NORTHLIGHT ROOF: FACTORY IN GOSSAU, SWITZERLAND

Danzeisen and Voser, architects (material supplied by Dariush Borbor)



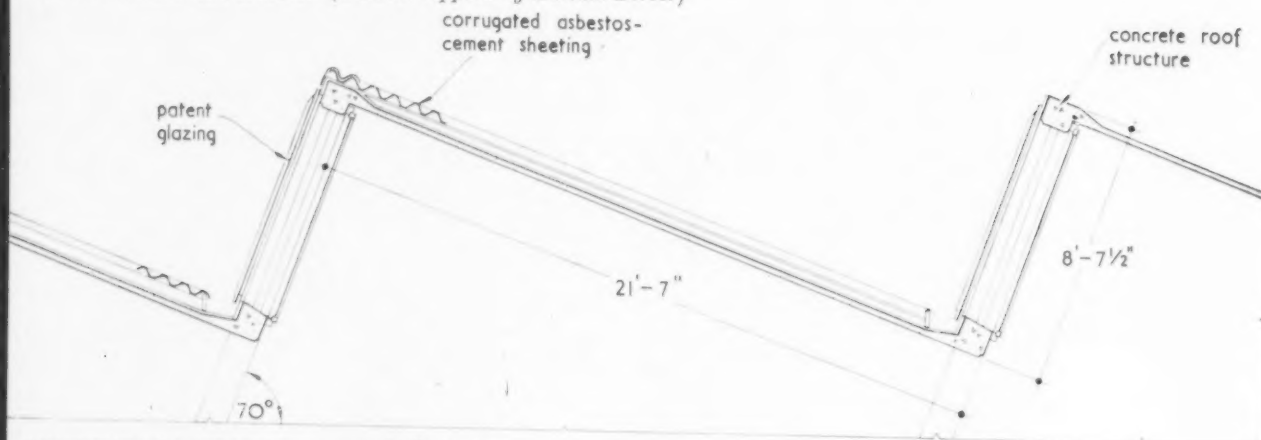
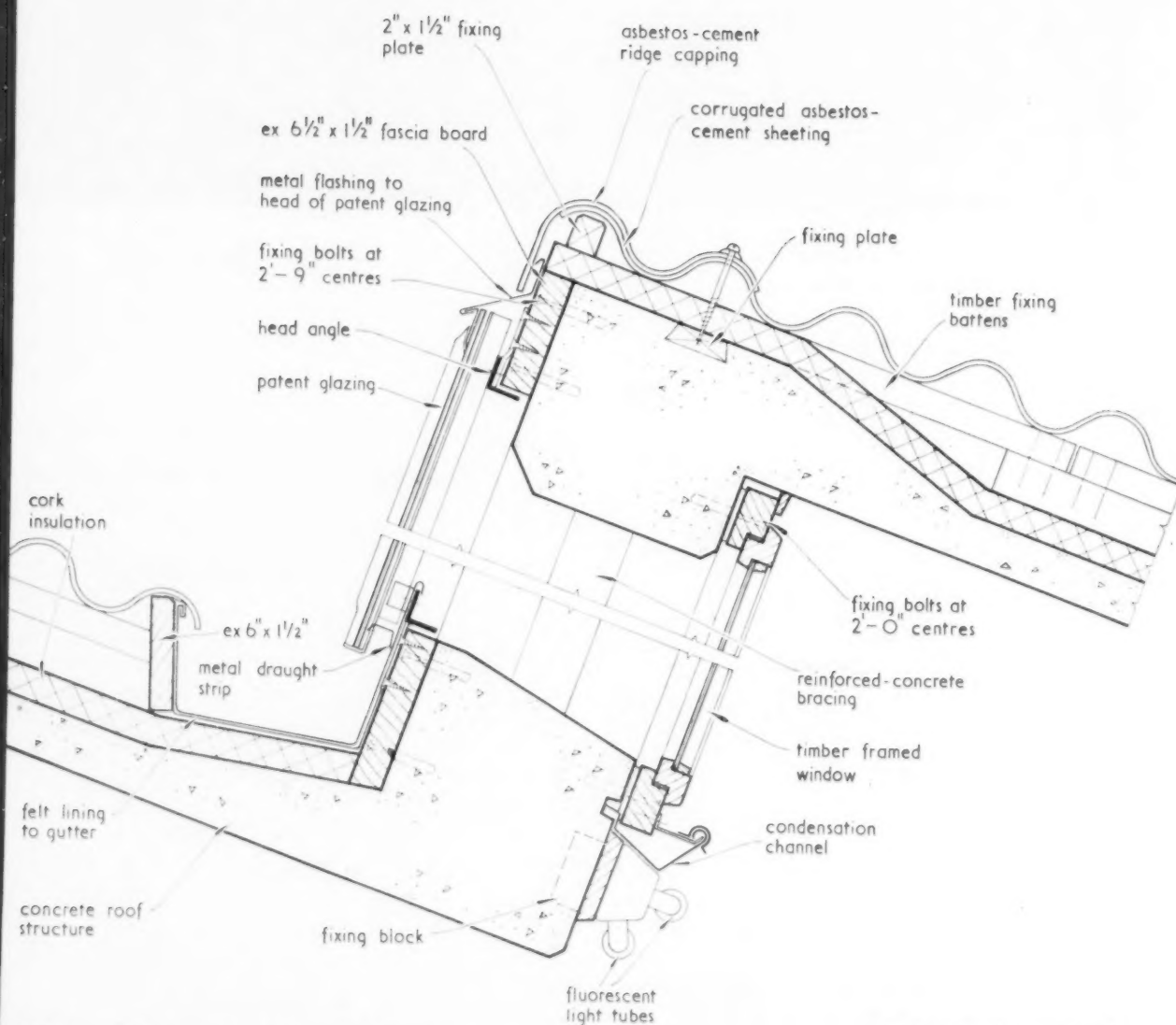
This detail shows the arrangement of natural lighting and drainage on a factory roof formed of a series of tilted semi-circular shells. Following the usual Continental practice, the concrete shells are heavily insulated and the insulation is protected by corrugated asbestos-cement sheeting.

working detail

(37)

ROOFS AND CEILINGS: 65

NORTHLIGHT ROOF: FACTORY IN GOSSAU, SWITZERLAND

Danzeisen and Voser, architects (material supplied by Dariush Borbor)LONGITUDINAL SECTION. scale $\frac{3}{16}'' = 1'-0''$ DETAIL AT HEAD AND FOOT OF NORTHLIGHT. scale $\frac{1}{8}''$ full size

note: figured dimensions in feet and inches are approximate



a *NEW* standard of decoration...

... based on a *system* designed to give maximum protection and durability.

Saga Supermarine Gloss Enamel, now available for the decoration of all coastal property, is backed by many years of extensive research in our laboratories and has served a hard apprenticeship protecting ocean-going liners.



E. WOOD LTD.

18 LONDON STREET · LONDON · E.C.3 Telephone ROYAL 8511
Factory: Talbot Works, Stanstead Abbots, Hertfordshire, Stanstead Abbots 174

Branch Offices and Depots throughout the United Kingdom

Saga SUPERMARINE GLOSS ENAMEL

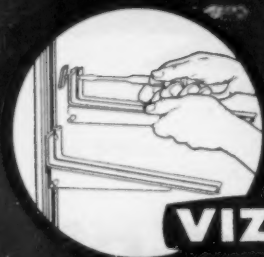
Please send me
further details of the Saga System ☐ Please
Please ask your representative to ☐ tick
call on me

Name.....

Address

Telephone

NRP 4095



VIZUSELL

THE ORIENT PASSENGER LINER *Orlena*

We do not suggest that *Orlena* could not have sailed without VIZUSELL but we do think it is a better ship for having it installed.

VIZUSELL

THE COMPLETE SYSTEM OF SUSPENSION

Write for details to

VERSATILE FITTINGS (W.N.S.) LIMITED

10 NEW FETTER LANE LONDON E.C.4 - TEL 3231

MANCHESTER 35 Blackfriars Street

CRYSTAL 1 Herbert Road Temple Gate

GLASGOW 45 Yorkfield Street

BRISTOL 1004

Cardiff 22-23

Edinburgh 22-23

Bank at Croydon

Barclays Bank describe their new branch at Croydon, designed by H. Hubbard Ford, F.R.I.B.A., and opened last month, as "one of the most notable of our modern premises."

Its most striking feature, they say, "is the series of fins, faced with glass mosaics and capped with black granite, which rise to the full height of the building," above which, however, a curiously shapeless conglomeration of roof works peer over the facade. The bank's name, in black letters on white perspex, illuminated at night, is a symptom of changed attitudes in an advertising age . . . the banking hall provides for nine cashiers, but does the seating space for customers quite measure up to the intended effect of spacious dignity?



Cut labour costs - specify

Controlaire

**the window fan
installed from
INSIDE THE ROOM!**

This fan eliminates the need for costly and dangerous outside installation, and is becoming increasingly accepted as the ideal means of obtaining *controlled* ventilation, particularly in multi-storey flats and office blocks.

The Controlaire is designed to fit into any decorative scheme, and made to give years of trouble-free service. Three sizes available. Guaranteed for 12 months.

Full details and specifications from

MAIN DISTRIBUTORS:

WM. MILLER (Newcastle) LTD.
RAILWAY TERRACE, NEWCASTLE UPON TYNE 4.
Telephone: Newcastle 34055 & 37504.



London and Home Counties Distributors:
WINFIELD SMITH ENGINEERING SUPPLIES LTD.
Orchard House, 14 Great Smith Street,
London, S.W.1. Tel: ABBey 2770

Manchester Distributors:
A. A. TRADING COMPANY
366 Cheetham Hill Road, Manchester, 8. Tel: CHEetham 6840



Brighter Post Offices

More, brighter post offices are on the way: this refurbished office at Corn Exchange, Liverpool, was designed by F. J. M. Ormrod, F.R.I.B.A., of Ormrod and Partners, consultant, W. L. Stevenson, industrial designer and former principal of the Liverpool College of Art. The designers say they found the old post office dingy, hard to hear and see in, with "a lack of clear definition in counter notices"; they have tried to recapture "the tradition and even romance of the coaching days" by returning to the use of "heraldic colour," using bright red, yellow and blue, but replacing the traditional post office red with a more orange red, to be known as "singing red." Equipment, such as telegram form holders, has all been redesigned. Better acoustics, self-service machines, well-equipped writing desks and clearer notices will also increase the jollity of a visit to the PO in future.





TRUE FLUE LTD.

**CONVECTOR HOUSE, ACACIA ROAD,
ST. JOHN'S WOOD, LONDON, N.W.8.**

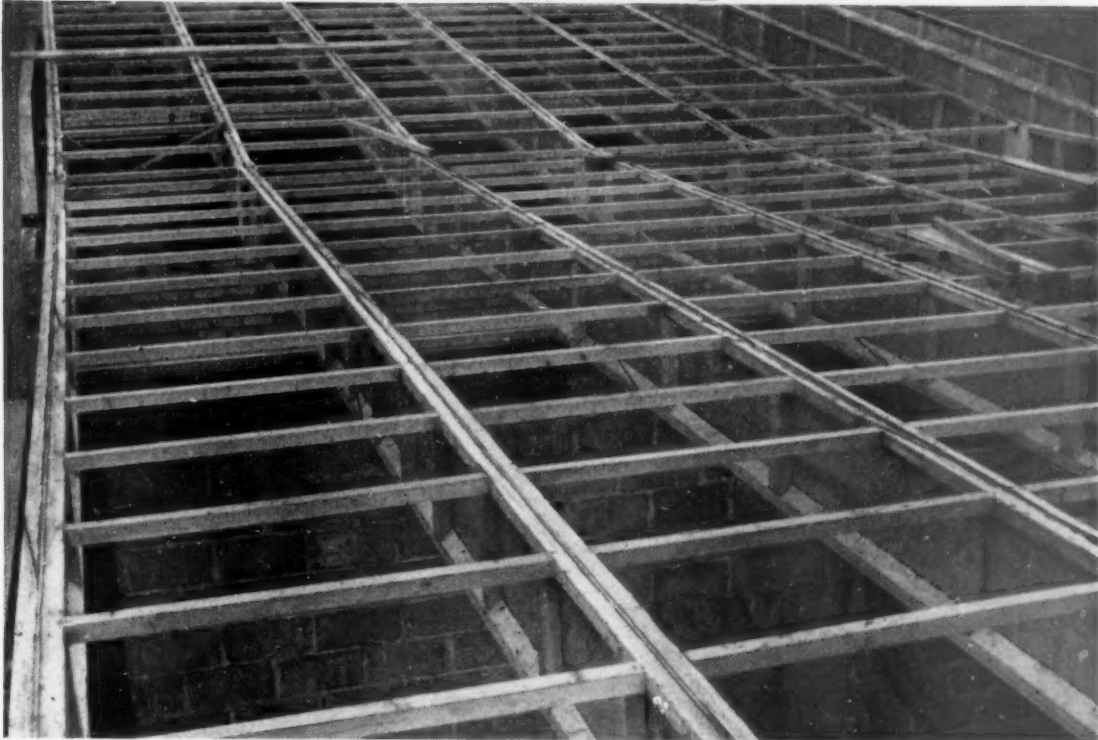
Telephone: PRImrose 7161 2/3

Boiler Stacks designed on the True Flue principle of construction with an outer skin of precast stone or concrete and a refractory lining throughout are permanent and pleasing in appearance, and can be erected for less cost than a brick stack.

Write for full particulars:

Boiler Stack for British Railways, Eastern Region. Regional Architect: H. H. Powell, F.R.I.B.A., B.Arch. (Liverpool), under the general direction of Chief Civil Engineer: A. K. Terris, M.I.C.E. Main Contractors, Charles E. Price.

How to get a better roof with Tecton Beams— quicker, easier, cheaper



*Hackney Occupation Centre, Ickburgh Rd, Hackney
Architect: Hubert Bennet, F.R.I.B.A. Architect to the Council, County Hall, S.E.1.
Contractors: Harrison and Spooner Ltd., Bristol House, 23 Holborn Viaduct, E.C.1.*

4 more good reasons why you should specify Tecton Beams for flat roof construction:

1. Clear spans up to 50 ft.
2. You just pick the exact beam for your scheme.
3. You cut costs of site work with the simple, all dry construction. (A school roof of 2,000 sq. ft. was hoisted and fixed by six men in four hours—with no special equipment).

4. Tecton Beams are designed in accordance with B.S. Code of Practice CP 112.

That is why Tecton Beams have already been used for schools, libraries, shops and office schemes by private architects, County Councils (including the L.C.C.) and Development Corporations.

SO TRY OUR FREE DESIGN SERVICE FOR YOUR NEXT FLAT ROOF PROJECT.
There's lots more information—Tecton Noggings and Decking Units, Tecton Purlin and Eaves Beams for pitched roofs, and Curtain Wall Panels—all in the literature.

You'll want all the facts TODAY.

Tecton

☐ PLEASE SEND data sheets for Tecton beams for flat and/or pitched roofs.

☐ PLEASE ASK your technical representative to 'phone for an appointment.

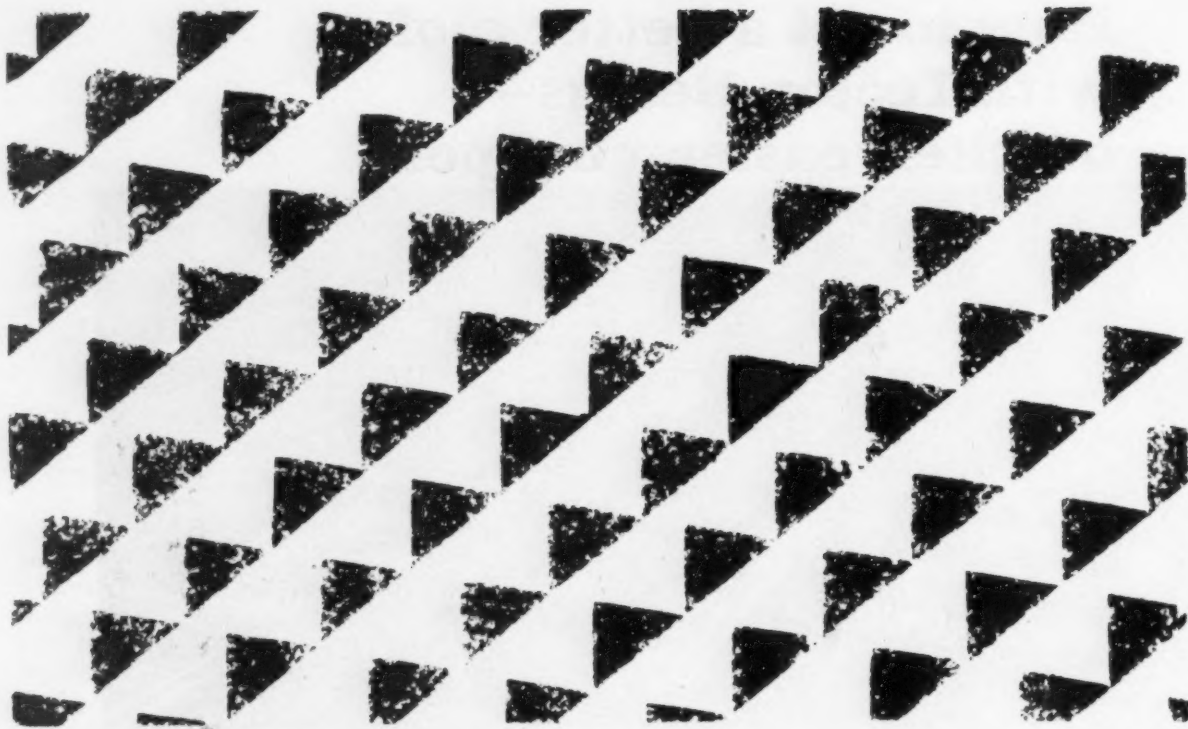
☐ PLEASE SUPPLY FREE quote against my drawings which I enclose - with no obligation, of course.

NAME POSITION

COMPANY TEL. NO.

ADDRESS

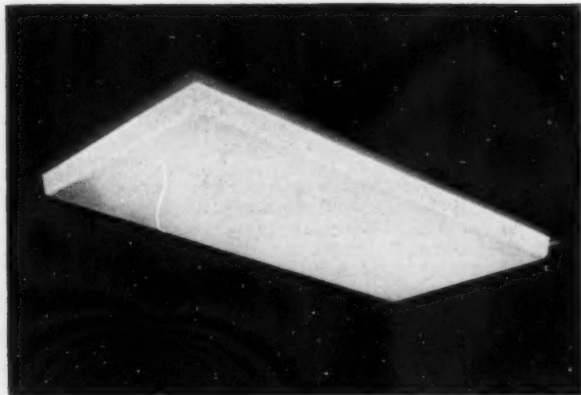
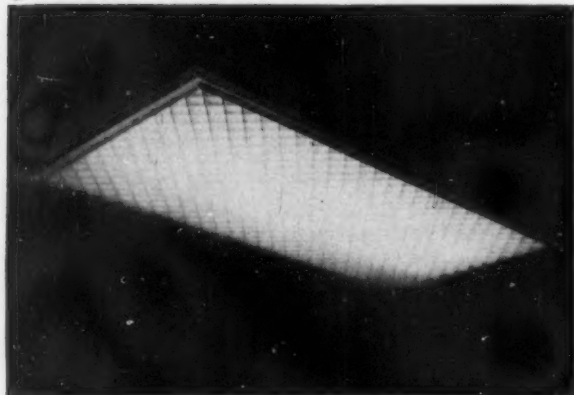
TECTON DIVISION, DEXION LIMITED, MAYGROVE ROAD
LONDON N.W.6. TELEPHONE: MAIDA VALE 6031



we invite your inquiries

FALKS modular range of fluorescent fittings

for suspended or false ceilings to fit apertures 2' x 2', 4' x 2' or 6' x 2' with overall depth of 6½". Lampings may be 2 ft. 40-watt, 4 ft. 40-watt or 5 ft. 80-watt for 2, 3, 4 or 6 lamps.



FALKS, 91 FARRINGTON ROAD, LONDON, E.C.1 TELEPHONE: HOLBORN 7054
LONDON SHOWROOMS: 20-22 MOUNT STREET, PARK LANE, W.1. TEL: MAYFAIR 5671/2

AP 137

**"Ain't there
enough to
see inside
the park?"**

"Oh, yes mister. But what I'm
looking at's important!"

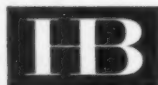
"Can't be any more important
than my trees."

"But it's Boots'. They're
building our new school. It's
going to be smashing —
'specially the gym! My teacher
says we're lucky to have
Boots building it because
they're so ex—expeer—because
they're so good at it.
He says Boots build all sorts
of other things too, like
roads and houses and factories."

"They can't build
trees! Come on down before
you break a branch."



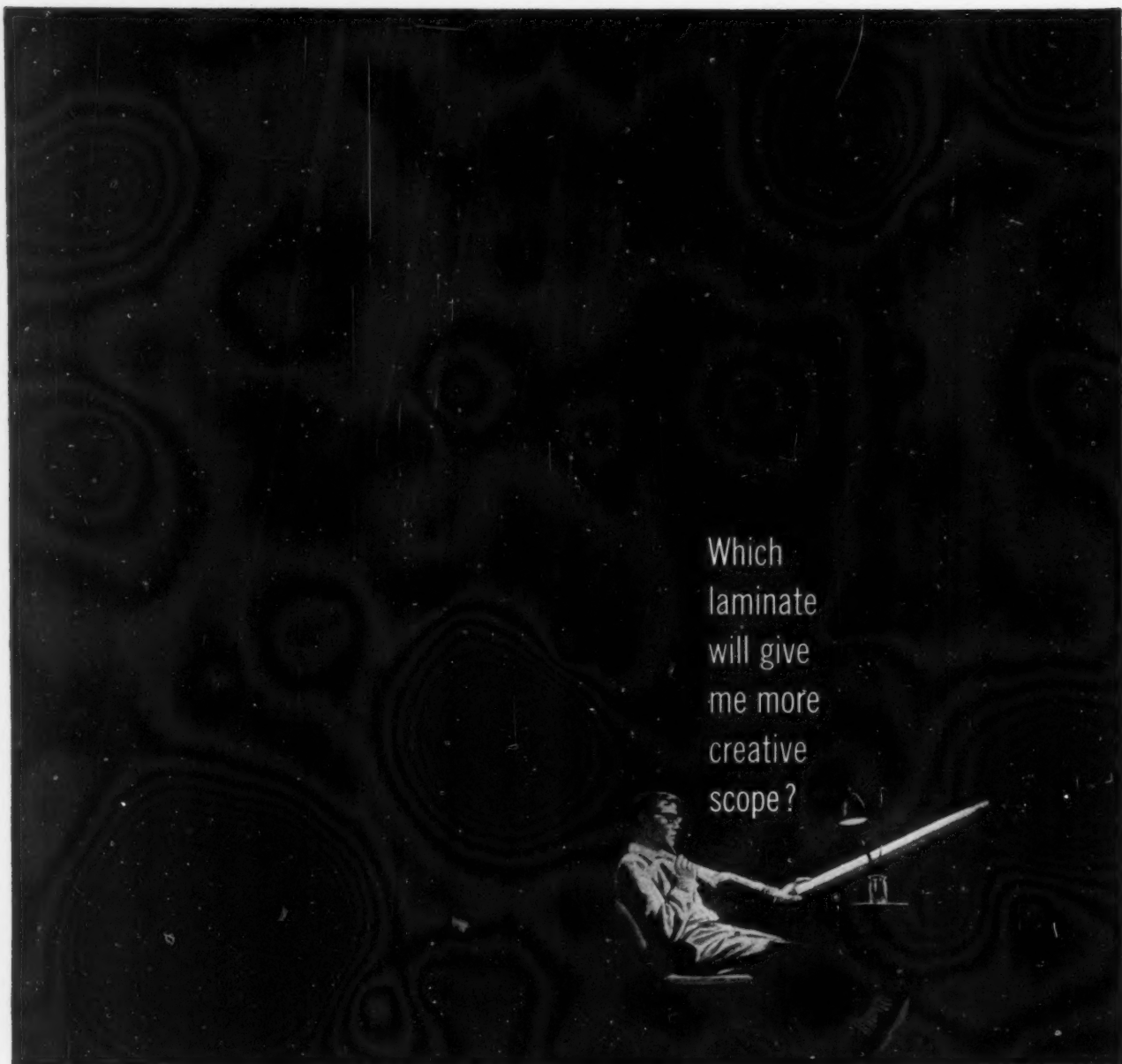
HENRY BOOT



HOUSING ESTATES • RAILWAYS • WATER DISTRIBUTION SCHEMES
ROADS • SOIL STABILISATION • BUILDING PROJECTS OF EVERY DESCRIPTION

HENRY BOOT & SONS LTD., BANNER CROSS HALL, SHEFFIELD 11. Tel 54551
Offices also at: Birmingham, Glasgow, Liverpool, London and Manchester

DA/6348



Which
laminate
will give
me more
creative
scope?

FABLONITE

THE LIFETIME LAMINATE

FABLONITE is the new *top-quality* laminate that introduces over 70 new and exclusive stylings. There are 13 exceptionally realistic wood grains (their unique long 'repeats' defy detection!) . . . 18 pure plain colours . . . hosts of colourful patterns. The glorious 'Harmony' stylings (combining two or more effects in one distinctive panel) give individuality to built-ins and make interesting focal points. FABLONITE *costs less to use*—list price is only 3/9 per square foot in the standard range (including wood grains). *Planned nationwide distribution* ensures that you get the FABLONITE you want, *where and when you want it*. No costly hold-ups . . . no last-minute changes of plan!

The Fablon Building Division is ready to assist you with technical information. For details of prices, stylings and specifications, post the coupon today, to FABLON LTD., 49 PARK LANE, LONDON, W1.

Fabulous New **Fablonite**

To: FABLON LIMITED · 49 Park Lane · London W1

Please supply details of FABLONITE prices, stylings and specifications. ☐

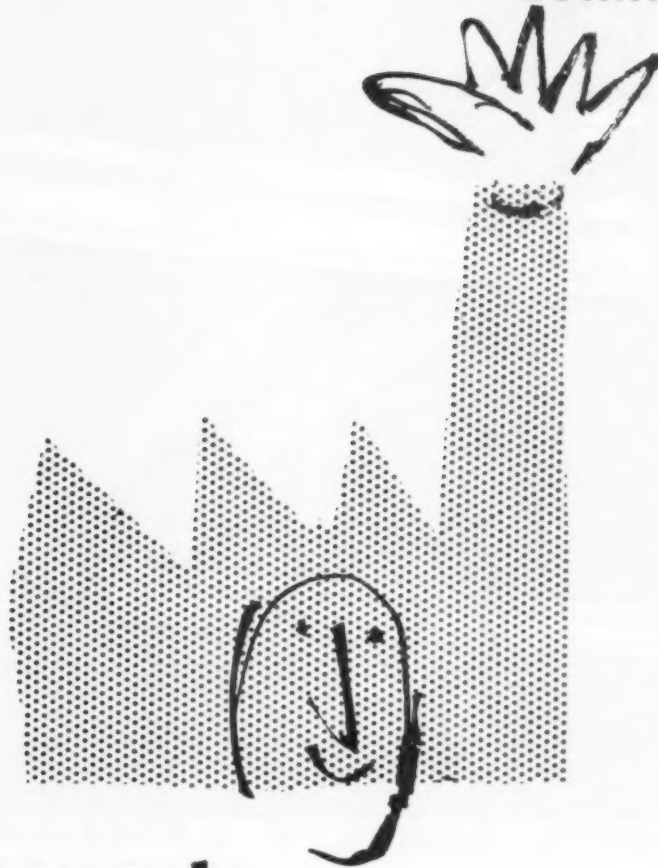
Please arrange for a FABLONITE consultant to call by appointment. ☐
(TICK WHERE APPLICABLE)

NAME _____

ADDRESS _____

A-1-3

Up WITH BOWATER INSULATION



Bowater Insulation is a true heat barrier. In winter, it stops warmth escaping through the roof and makes a big saving in fuel; in summer, it deflects the hot sun's rays and keeps the building cooler. Result: better morale and better work all the year round.

Send for a copy of the "Keeps Warmth at Work" booklet which tells you all about Bowater Insulation and what it can do for you.

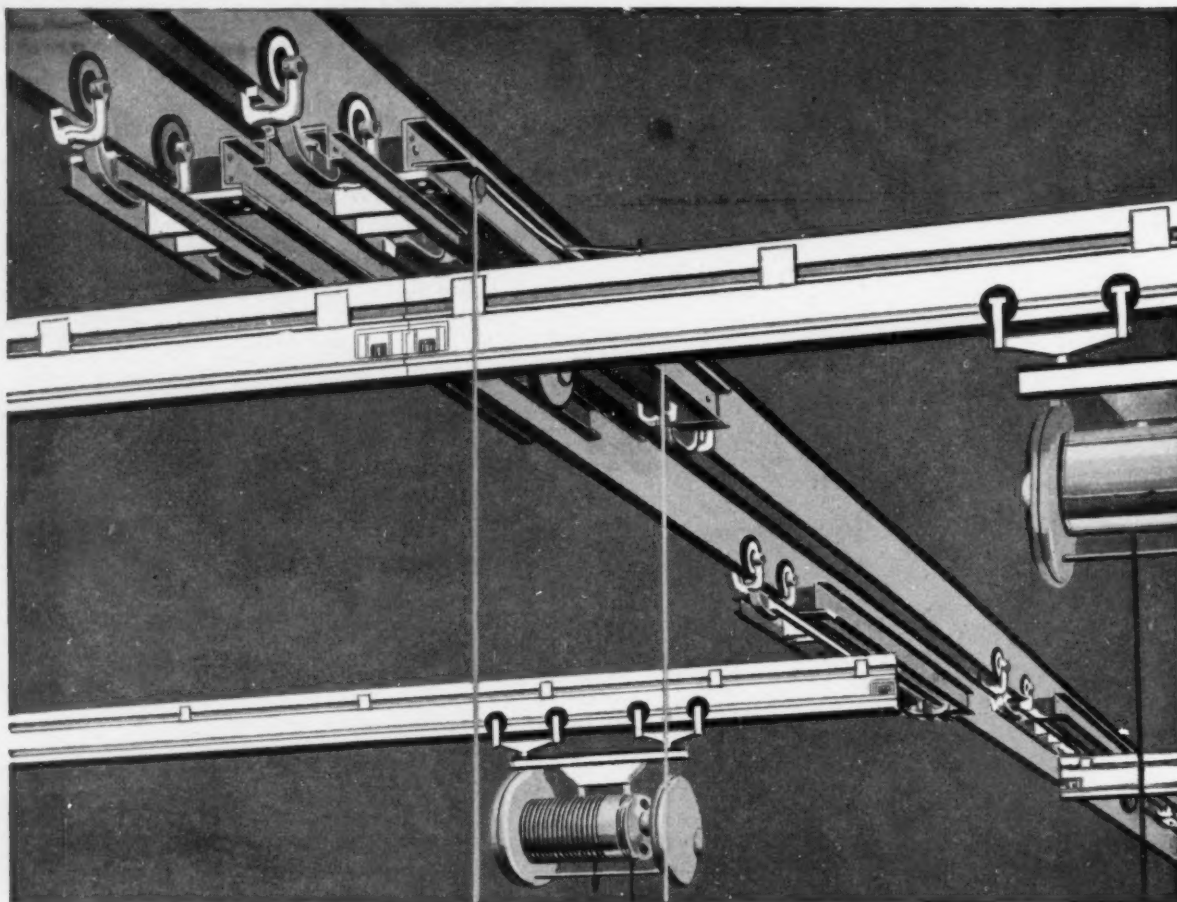
Write to: BUILDING PRODUCTS DIVISION, BOWATERS SALES COMPANY LIMITED, Bowater House, Knightsbridge, S.W.1.



DOWN WITH HEATING COSTS!

Five good reasons for putting up Bowater Insulation

- 1 BOWATER INSULATION saves fuel—£2,000 a year for one organisation!
- 2 BOWATER INSULATION can save capital costs—another firm saved £9,000 through being able to cut down on its originally planned installation.
- 3 BOWATER INSULATION gives extra warmth at no extra cost.
- 4 BOWATER INSULATION is easy and cheap to fix thanks to a wide range of unique Bowater Metal Fixing Systems: and there's no interruption of work while it's going up.
- 5 BOWATER SERVICE TOO! Through our network of distributors and fixing contractors we run a complete technical service. Bowaters can take over the job from the first thought on Insulation to fixing the final sheet of board.



Unobstructed movement **OVERHEAD** with underslung interlocking cranes



After a survey of your plant, we produce a tailor-made plan. This and the estimate are free.

Underslung interlocking bridge cranes in the MonoRail System give extreme flexibility of movement overhead. One lifting hook can cover an entire factory floor, and loads of up to 5 tons can be moved and set down to order. The special 'latch bolt' design of the cranes ensures the safe, efficient and simple transit of trolley wheels across connecting interlocks. Further, bridges can be interlocked at every point with spur tracks of MonoRail for transferring loads beyond the factory area into store, or to and from despatch bays.

More advantages of MonoRail. All materials and track especially developed for the job. Rubber-tyred crane drive eliminates track wear. Standard track flange width.

A complete overhead system. Interlocking bridge cranes are only part of the complete MonoRail handling and transfer system which can be tailored for almost every overhead handling need and any size of floor space.

IF YOU WANT TO GET A MOVE ON

Send for the man with the **MONORAIL** plan

BRITISH MONORAIL LIMITED • WAKEFIELD ROAD • BRIGHOUSE • YORKS • TELEPHONE: BRIGHOUSE 2244

Members of the Herbert Morris Group of Companies

TGA BM7

when the decision is taken to install the

GARADOR

ALUMINIUM
COUNTERBALANCED
GARAGE DOOR



the ARCHITECT
is happy

for he knows the Garador's clean simple lines will blend equally well with contemporary or period designing. Its price will be right combining high quality with low cost.



the BUILDER
is happy

for he knows the Garador, complete with fittings, will arrive on time at the site and that its installation will take only a matter of minutes, for there are no sidewall or roof fixings.



the CLIENT
is happy

for he knows the Garador operates at the touch of a finger, being counterbalanced throughout the whole of its movement. Its aluminium construction offering a lifetime of maintenance-free service.



Full details are available on request.

WESTLAND ENGINEERS LTD YEOVIL ENGLAND
DESIGNERS AND MANUFACTURERS OF THE WIDEST RANGE OF OVERHEAD COUNTERBALANCED DOORS IN GREAT BRITAIN.

**SAFETY
FIRST**

BARRYWALD

REGD.

ELECTRICAL

AUTOMATIC INCINERATOR

THE ONLY INCINERATOR INCORPORATING OUR PATENTED SAFETY DEVICES

- ★ Manufactured by the first and leading Sanitary Incinerator Specialists in the World.
- ★ Guaranteed for one year and backed by a full service organization.
- ★ Simple and cheap to install.
- ★ Approved by the Royal Institute of Public Health and Hygiene.
- ★ Regularly supplied to and approved by all H.M. Government Departments, Local Administrations and Educational Authorities, Hospital Management Committees, General Industry.
- ★ Patents 555062-621085 and Foreign Parts.

**ECONOMICAL
EFFICIENT
FOOLPROOF
INDISPENSABLE**



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, hospitals, institutions, blocks of flats, etc.

Write or 'phone today for illustrated leaflet or demonstration.

SANIGUARD APPLIANCES LIMITED

62, LONDON WALL, LONDON, E.C.2

Telephone: NATIONAL 8881 8882 DIVISION OF ALLIED METALS LTD.

Sealing mastics



for every job
in every section
you require

SEE ADSHEAD RATCLIFFE
the mastic specialists

ARBOSEAL

The complete sealing medium with a polythene base, suitable for almost all building materials. Made in a variety of sections to fit any shape and in strip form to ensure quick and easy handling. Provides a resilient seal or gasket with great powers of recovery under thermal movements. Will not harden or dry out under adverse conditions and remains inert and impervious to water and ultra violet light.



ADSHEAD RATCLIFFE & CO. LTD
BELPER : DERBY : Tel: Belper 891/2/3

FOCUS ON FLOORS

Granwood Composition Block Flooring

- No expansion or contraction • No splintering or lifting • Fire and damp resisting • Dry rot, vermin and insect proof • Warm and resilient • Contains no magnesite • Does not disintegrate • Made in eleven colours • Ideal for heated floors of all types

Granwood Flooring Co. Ltd. is a member of
British Steel Construction Group of Companies

GRANWOOD FLOORING CO. LTD.

RIDDINGS, DERBY Tel: Leabrooks 341/2/3
Grams: "Granflor" Alfreton
London Office: "Battlebridge House," 87-95, Tooley St., London, S.E.1.
Tel: HOF 2929



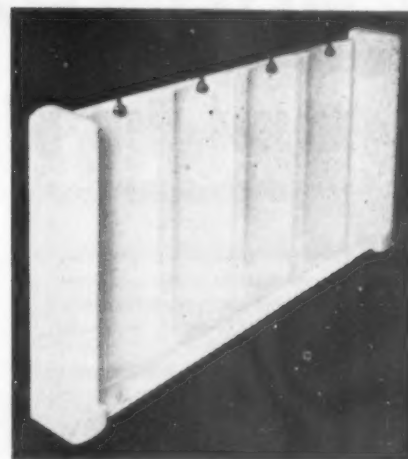
News from Hull



The bathroom has been designed to dimensions of 9' 3" x 8' 6", the colour scheme being predominantly blues and greens relieved by the white bathroom suite and occasional splashes of vivid colour. The bath is the elegantly styled Lowline finished in high quality porcelain enamel. The rest of the suite is the Kingston in vitreous china. All 'Standard' bathroom suites are available in a choice of five colours and white. The cupboard fitment on the window wall contains concealed lighting underneath the opal glass top.

City 'Gents'

The first public convenience to be modernised and refitted under the Corporation of the City of London scheme to bring better facilities to the public is the 'Gents' in Charterhouse Street, E.C.2 near Smithfield market. It has been equipped with Vitural slab urinals—the first and only full length flat slab urinal to be made from vitreous china. The use of vitreous china is important—it means that normal cleaning alone will keep



INTERESTING THE PUBLIC IN GOOD DESIGN



The first of the 'ready-planned bathrooms' commissioned by Ideal-Standard has been designed by Helen Challen A.R.I.B.A., M.S.I.A. of Challen and Floyd. The plans for this bathroom and others that follow are being made available to architects, the trade and the public on application to Ideal Boilers and Radiators Ltd., Ideal Works, Hull. The idea is to make the public conscious of, and interested in, good design in bathroom layout and equipment and to make people aware of the importance of decorative effect in the bathroom.

A Sense of Drama and Richness

Of her design for the bathroom illustrated here Helen Challen writes:—

'This bathroom was designed for those who like a certain sense of drama and richness here, if nowhere else in the house. Certainly, for a woman, the room that she bathes in should have an atmosphere most calculated to engender a sense of tranquility in the way that suits her particular character best. This is not a family bathroom—there is too fragile an atmosphere as well as an actuality of glass, paintwork, carpet and net to stand up to assault from young children.'

the urinals free from unpleasant odours. Long-term economy plus increased amenity make 'Standard' vitreous china urinals an attractive proposition for local authorities. Other 'Standard' equipment used is the Sanway high level closet suite and the Oxonian wash basins—all made from hygienic vitreous china.



POLYBOND

**Architects
SPECIFY
Builders &
Contractors
RECOMMEND**

**Hospitals &
Public Authorities
APPROVE**

YOU Can Be SURE

*There is
nothing else
so efficient as*

POLYBOND

**The Universal
Building adhesive &
sealer for all
Materials!**



*new cement and
plaster renders
applied with no
hacking and no
difficulty*

For further information write or telephone the manufacturers, **POLYBOND LTD.** Southampton. London Office :
130 Crawford Street, W.1. Telephone : Welbeck 2349.

HULLRAD

pressed steel radiators

EFFICIENT • ELEGANT • ECONOMICAL

EFFICIENT: Maximum heating surfaces; accurate temperature control; full range of panel and column types, suitable for all domestic and industrial requirements.

ELEGANT: Graceful modern lines, extra smooth finish and clean seams, adaptable to any surroundings, stately home to cottage, hospital to factory.

ECONOMICAL: Low cost automatic production methods; easy time saving installation; practical heating economy.



SEND FOR
NEW 4-COLOUR
CATALOGUE!

HULL STEEL RADIATORS LTD.

1515 Nedon Road, Hull
Phone: 75251-2. Telegrams: Hullrad

Air conditioning announcement

BY THE **APPROVED INSTALLERS
OF THE VELOVENT SYSTEM**

Velovent Air Conditioning Units are being incorporated in many large buildings at Home and Abroad and to ensure correct application, the manufacturers of this — the most advanced air conditioning unit of its type — have arranged that the supply and installation in Great Britain and Northern Ireland shall be undertaken solely by the undermentioned specialist engineers :-

ASHWELL & NESBIT LTD.
Z. D. BERRY & SONS LTD.
RICHARD CRITTALL & CO., LTD.
ELLIS (KENSINGTON) LTD.
J. JEFFREYS & CO., LTD.
MELLOR BROMLEY (Air Conditioning) LTD.
NORRIS WARMING CO., LTD.
ROSSER & RUSSELL LTD.
ARTHUR SCULL & SON LTD.
YOUNG, AUSTEN & YOUNG LTD.

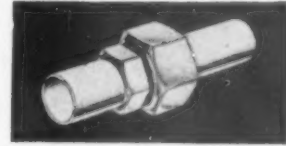
Communications may be addressed to any of the
above Companies or to :-

The Secretary (V.C.A.)
430 VICTORIA ROAD • RUISLIP • MIDDLESEX
Tel. No. VIKing 1222

Velovent is manufactured in Great Britain by Air Control
Installations Ltd., Ruislip, Middlesex, under licence from
Svenska Flaktfabriken, Sweden

Be secure-with

SECUREX



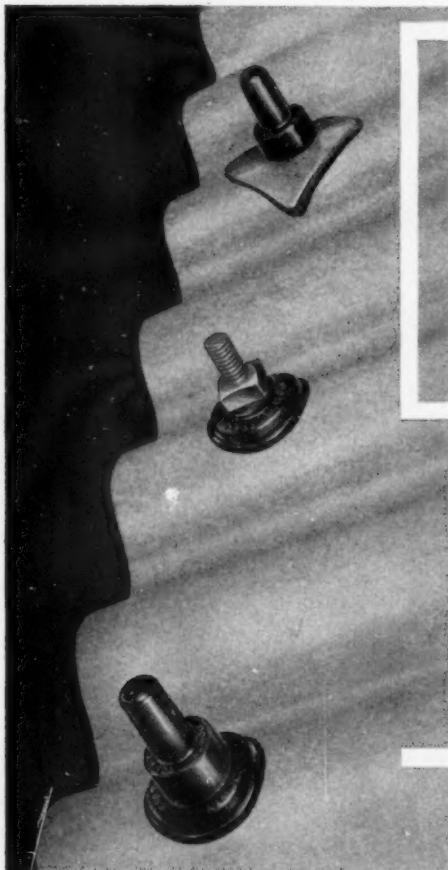
The exclusive use of the SECUREX jointing system in modern buildings is almost universal, but SECUREX installation is by no means confined to commercial and industrial projects. Among establishments of cultural significance, in which SECUREX plays an important part, is the famous National Library of Scotland in Edinburgh.

JAMES H. LAMONT & CO. LTD.
ENGINEERS - BRASSFOUNDERS

GYLEMUIR WORKS, CORSTORPHINE
EDINBURGH 12, SCOTLAND.
TEL: CORSTORPHINE 2241-3
GRAMS: "SOLDERLESS EDINBURGH"

LONDON OFFICE: NORFOLK HOUSE,
LAURENCE POUNTNEY HILL, E.C.4.
TEL: MANSION HOUSE 5700
GRAMS: "YUTAKA CANNON LONDON"

National Library of Scotland



Insure against corrosion

with **DOWTY**
SPATS AND TOPATS

The original plastic washers for fixing and sealing roof and wall sheeting.

For use with hook bolts, seam bolts, Oakley clips and drive screws.

Sizes available, $\frac{1}{4}$ ", $\frac{5}{16}$ " and $\frac{1}{2}$ ".

Used in conjunction with Spats or traditional diamond washers, Topats protect the bolt-threads from corrosion. They have a simple push-on fixing.

Sizes available, $\frac{1}{4}$ " and $\frac{5}{16}$ ".

DOWTY SEALS LIMITED - ASHCURCH - GLOS.

Telephone: Tewkesbury 2271

Telegrams: "DOWTYS. Tewkesbury. Telex"

Member of the Dowty Group

L & G

**SPECIALISTS
IN THE
MANUFACTURE
SUPPLY &
ERECTION OF**

CO₂

**FIXED FIRE
EXTINGUISHING
INSTALLATIONS**

CO₂

TROLLEYS

CO₂

HOSEREELS

★ **PROMPT SERVICE &
EARLY DELIVERY**

L & G FIRE APPLIANCE CO LTD

Dept. 'Exco', Caxton Street North,
London, E.16.

ALBERT Dock 3991/4.

MANUFACTURERS OF ALL TYPES OF FIRE EQUIPMENT

British Standards

B.S. 1097 1418

**DAMP-PROOF
COURSING**

provide for the inclusion of

Trinidad
LAKE ASPHALT

A valuable component of good mastic, on
account of its remarkable consistency.

Further particulars on request from

PREVITÉ

& CO. LTD.

CAPEL HOUSE, 54 NEW BROAD
ST., LONDON, E.C.2.

Telephone: LONDON Wall 4313

Have YOU^{*}
received your copy
of this book?

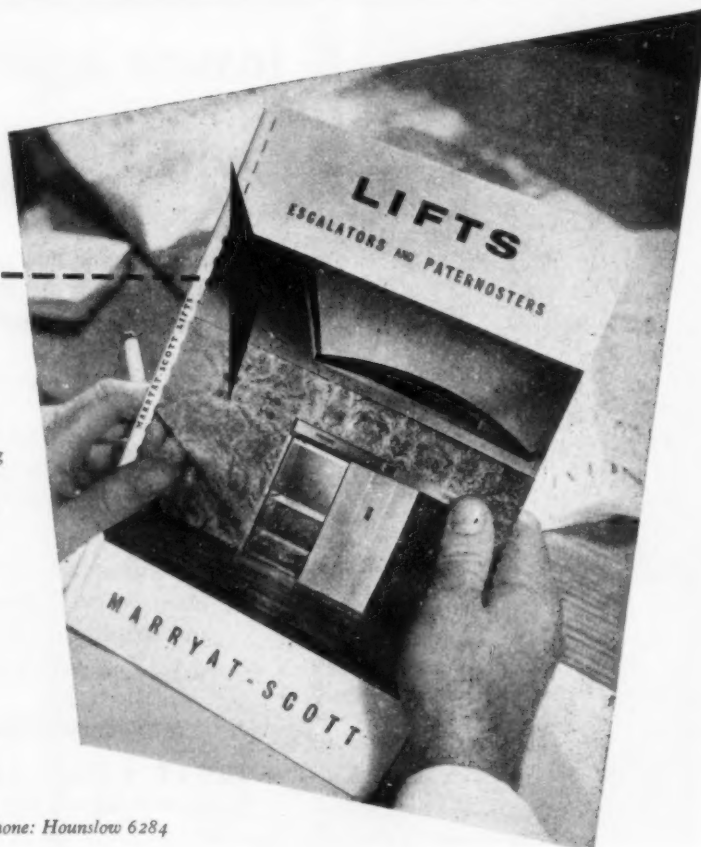
Plans and elevations of over fifty different
lifts, escalators and paternosters all complying
with international standards.
Traffic calculations and data on the selection
of correct equipment for many applications.
Methods of entrance protection.
Control systems.
Illustrations of installations and buildings.

^{*}
FREE to Architects on application to:

Marryat & Scott Ltd

The Lift Manufacturers

Wellington Works, Hounslow, Middlesex Telephone: Hounslow 6284





Naturally Riven Olive Green

LAKELAND'S CONTRIBUTION TO COVENTRY CATHEDRAL

(Architect: Sir Basil Spence, R.A.)

The timeless beauty of Moss Rigg Naturally Riven Olive Green Westmorland Slate made it an obvious choice for the cladding of the Chapel of Unity and the Guild Chapel in the new Coventry Cathedral. May we send specimens showing the range of tones and textures available to you from Lakeland, together with descriptive literature?

LAKELAND GREEN SLATE & STONE Co. Ltd.

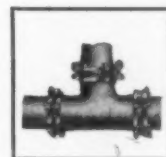
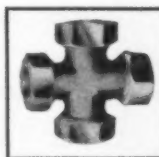
Moss Rigg Quarries, Tilberthwaite,
Coniston, N. Lancs.
Telephone: Coniston 231



AND STANDARD TOO
All high standard
pipe fittings from

KONTITE

Kontite's range of 22,000 standard fittings for copper tube is the biggest in the business. Most of these can be supplied straight from stock. Specials take only a little longer. That's what makes Kontite service the *best* in the business. First class materials and the proved efficiency of Kontite Gunmetal fittings are your guarantee of complete reliability.



KAY & CO. (ENGINEERS) LTD.
BOLTON BRASS WORKS · BOLTON · LANCs.
TELEPHONE: BOLTON 21041/4

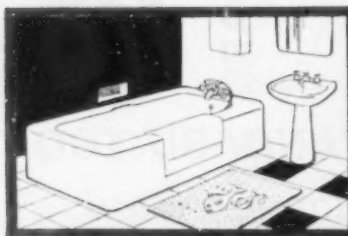
THE PERFECT BATH MIXER AND HAND SHOWER FOR MODERN BATHROOMS

Introducing the **Sanbra** *easilyne*

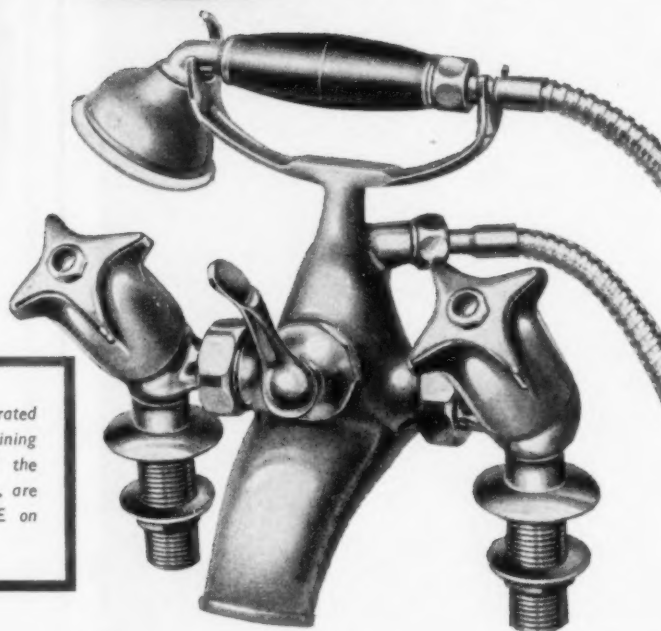
5313 EL COMBINATION
BATH MIXER with
Telephone Handspray

- Conforms to BSS 1010/1959
- Fitted with 'Ner-Drip' long-life washers
- Coloured indicator buttons Red and Blue
- Chromium plated—simply wipes clean
- Inlet centres adjustable from 6 $\frac{5}{8}$ " to 8"

'Easilyne' Taps and Fittings have been accepted by the Council of Industrial Design for 'Design Index', and displayed at the Design Centre, Haymarket.



Beautifully illustrated brochures, containing full details of the 'Easilyne' range, are available FREE on request.



SANBRA LIMITED, ASTON HALL ROAD, BIRMINGHAM 6. (Tel. EAST 1231-5) London Office: 50 Brook St., W.1. (Tel: MAYFAIR 0231)
Designers and Manufacturers of a complete range of fine quality Plumbers' Brassfoundry.

YORKSHIRE IMPERIAL METALS LIMITED

**YORKSHIRE
IMPERIAL**

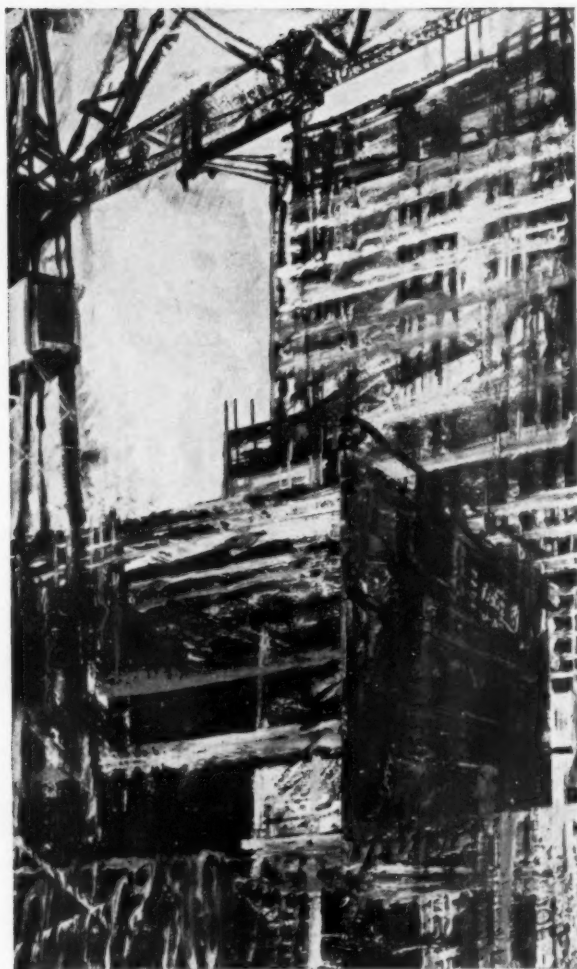
*the complete range for every require-
ment in TUBES and FITTINGS to
ensure quality and economy*

... with a nation-wide distribution service to meet all emergencies

- 'Kite' Marked Copper Building Service Tubes
- 'Kuterlex' Plastic Covered Copper Tubes
- 'Yorkshire' Capillary and 'Instantor' 'Kuterlite', 'Coneor' and 'Polystantor' Compression Fittings
- 'Polyorc-Alkathene' Polythene Tubes
- 'Plastronga' (high strength) Polythene Tubing
- 'Polyorc B' Unplasticised P.V.C. Tubing
- 'Plastronga' Polythene Fittings

HEAD OFFICE: P.O. BOX 166, LEEDS.

Telephone: Leeds 7-2222



Going up?

Building high needs LIME in the mortar for brickwork and masonry, internal plastering and external rendering. The flexing inevitable in tall buildings is taken up by lime-rich mortars and plasters thus reducing cracking. Lime-rich joints and finishes dissipate destructive stresses.

THE SOUTHERN LIME ASSOCIATION

Hanover House, 73-78 High Holborn, London, W.C.1.
Tel: HOLborn 5434

THE LIMESTONE FEDERATION

Manfield House, 376-8 Strand, London, W.C.2.
Tel: COVent Garden 0621

A booklet entitled "The Uses of Lime in Building" will be sent free on application to either of the above.



THERE IS NO SUBSTITUTE FOR LIME

LIME—MANUFACTURED TO COMPLY

WITH B.S.890—This is your safeguard to ensure satisfaction.

use LIME
tested by time

48



Restoration of a south
clerestory window
The Parish Church
High Wycombe



Peter Cox
& Partners Ltd

33 North Row London W1
Mayfair 1306. 5076

Stone restoration
contractors



HANDS NEED INDIVIDUAL PROTECTION

Hands filling exercise books; hands moving goods off the assembly lines; hands serving canteen meals in offices, factories and schools—useful, busy hands. But hands can be infection carriers too. The only way to make sure of absolute hygiene is to install ONLIWON, the paper towel system which gives each pair of hands individual protection. One person — one towel. That's how ONLIWON safeguards staff. ONLIWON towels consist of superfine tissue, strong, yet absorbent—pleasant to handle. They cut down costs too — for the ONLIWON system gives you 150 towels at a time. There are no laundry bills, no maintenance costs. Each ONLIWON cabinet is made of steel, has no moving parts to go wrong. Literature and samples sent free on request. For complete hygiene, install the ONLIWON toilet tissue system too (760 approx. sheets of pure tissue held in a locking, pilfer-proof cabinet with refill indicator)

ONLIWON

PAPER TOWEL CABINET SYSTEM

*the only sure way to
washroom hygiene*

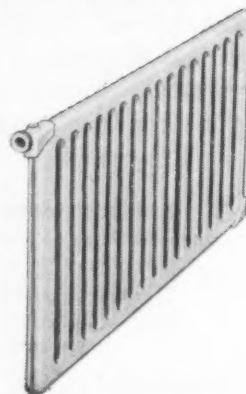
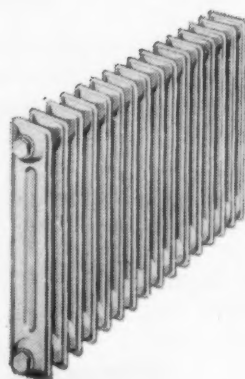
BRONCO LTD., Hackney Wick,
London, E.8. Tel: Amherst 4777 (5 lines)



WITH

BOSS-ROBBÉ

PANEL & COLUMN RADIATORS



- Pressed steel, clean smooth finish
- High heat emission
- Immediate deliveries Ex-stock from all branches in Gt. Britain
- Keenly priced
- SPECIAL NOTE — ALL PANEL RADIATORS HAVE A SMOOTH ROUNDED TOP

WRITE TO YOUR NEAREST BRANCH FOR CATALOGUES AND PRICES

THE BRITISH STEAM SPECIALTIES LIMITED

Head Office: FLEET STREET, LEICESTER

Also at London, Liverpool, Glasgow, Bristol, Manchester, Newcastle-on-Tyne,
Birmingham, Cardiff, Belfast, Dublin



Astute architects
dispel
gloom
with **CASCALITE**



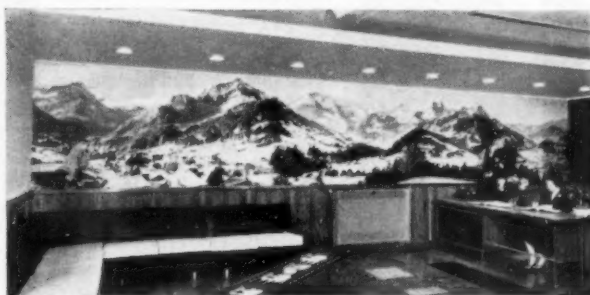
Photograph by courtesy of Caterpillar Tractor Co. Ltd.

In buildings around the world Cascalite is solving the problem of gloomy interiors. The solution is permanent, too, for Cascalite is virtually indestructible, resisting industrial fumes and the roughest installation treatment. Cascalite, plain or coloured is of infinite value to the architect for it is entirely suitable in either functional or decorative roles.

For more information write to:
CASCALOID
AT ABBEY LANE, LEICESTER, TEL. 61811



PHOTOMURALS . . .



*Autotype Photomural for T. Wall & Sons Ltd., Godley Factory.
Architects: Beard, Bennett, Wilkins & Partners*

. . . ask AUTOTYPE

ARCHITECTS throughout the country are using Autotype photomurals with great success in reception halls, offices, showrooms, shops, schools, restaurants, cafés, ballrooms, private houses, etc.

In full colours or black-and-white, mounted on prefabricated panels for fixing on site, or black-and-white unmounted. Photographs, engravings, originals of all kinds available for selection.

Autotype are acknowledged the leading specialists in this growing development. The benefit of their long experience and advice is yours for the asking. Enquiries welcomed.

*See our
photomurals on
permanent exhibition
in the Building
Centres at London,
Bristol and
Glasgow*

AUTOTYPE

The Autotype Company Limited
Brownlow Road, West Ealing, London, W.13
Ealing 8861

SLIDING DOORS
run more smoothly, far longer
on

ELLARD SLIDING
DOOR
GEAR

For every type of SLIDING DOOR

**O
V
E
R
D
O
R**



Ellard 'OVERDOR' garage door gear is suitable for both private and council lock-up garages, whether singly or in multiples, and is designed for doors from 6-7ft. high and up to 200 lbs. in weight. The smooth "up and over" action of "OVERDOR" gear enables the door to be opened and closed with ease.

Please write for full details of "OVERDOR" and our many other types of Sliding Door Gear.

ELLARD SLIDING DOOR GEARS LTD.
(Desk 6) Works Road, Letchworth, Herts. Tel: 613/4



**FOR
GREATER STRENGTH
AND
LONGER LIFE
SPECIFY**

NORVIC

**PLASTIC COVERED
CHAIN LINK
FENCING**

- **OUTLASTS GALVANIZED FENCING**
Norvic Plastic Covering protects from rust and corrosion.
- **RETAINS ITS GOOD LOOKS FOR YEARS**
Norvic Plastic Covering keeps its colour long after other fences have yielded to the atmosphere.
- **COSTS LESS IN THE LONG RUN**
The slight increase in initial cost is more than offset by longer life.



SPECIFICATION :

Roll length	25yd.
Mesh	1in., 1½in., 1½in., 1½in., 2in.
Gauges	12½, 10½, 10 and 9½ overall with galvanized or bright steel core.
Width	From 30in. up to 13ft. In 6in. stages.
Colour	Standard Dark Green. Special colours to order.
Line wire	Plastic covered.

**BARNARDS
LIMITED**

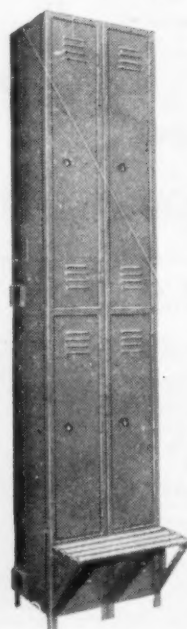
NORWICH Tel: 47321
 London: Mansion House 8597
 Birmingham: Midland 3555

*For the widest standard range
of steel clothes lockers*

CONSULT BAWN

OVER 10 HELMSMAN TYPES!

**When space is at a premium
—the TWO-TIER
INDUSTRIAL**



Why take up more wall space than is necessary? The 'TWO-TIER' INDUSTRIAL locker combines economy of space with economy of price—a double attraction which makes this a very popular locker indeed. It is available in standard 'Helmsman' quality and finish and accommodates hanging space of full normal height. Each compartment is fitted with clothes hanger rail, coat hook and name card holder.

Extended handle coat hangers for top tier are also available. Send for our new illustrated brochure of the complete range of 'Helmsman' lockers.

**DISCOUNTS FOR
QUANTITIES**

Helmsman 'TWO-TIER' INDUSTRIAL ducted lockers. Size: overall height, including legs, 110" x 12" wide x 15" deep. Each compartment 53" high. In nests of 2 and 3 only. Seven lever lock with knob or chromium-plated crescent finger pull, or Black plastic oval twist knob with three point latching and seven lever lock.



**W.B. BAWN
& COMPANY LIMITED**

BYRON WORKS, BLACKHORSE LANE, LONDON, E.17

Telephone : LARKSwood 4411

MAXIMUM EFFICIENCY AND ECONOMY

TO MEET YOUR SPECIAL REQUIREMENTS WE HAVE
DESIGNED THE FOLLOWING PATENTED BOILERS

"SUPAPAK" FULLY AUTOMATIC OIL FIRED PACKAGE BOILER

"INTERFLO" WET BACK BOILER SUITABLE FOR OIL OR COAL FIRING

"SUPER-ECONOMIC" DRY BACK BOILER SUITABLE FOR
OIL OR COAL FIRING



For full details

OF NETHERTON LIMITED

NETHERTON, DUDLEY, WORCS. Tel.: Cradley Heath 66417

LONDON OFFICE: Bank Chambers, 329 High Holborn, W.C.1. Tel: Holborn 2065
TA 201

IT PAYS TO LOOK INTO **CLAUGHTON LEADWORK**...

Take a look inside any Claughton lead bend or lead trap—see how the bore is full and smooth throughout, no rough projections here. Access. Screws are securely fixed. There's no doubt about it, if you want the best hydraulic solid drawn lead traps, bends, offsets, or junctions—

specify **CLAUGHTON'S**



ARCHITECTURAL LEADWORK

Decorative leadwork of all descriptions. Cast and wrought lead rain water heads, gutters, pipes, sockets, tacks and clips. Variety of standard designs available, or can be made to customers' own designs.

Send for Catalogue

CLAUGHTON BROS. LTD.



SANITARY LEAD WORKS
BRAMLEY, LEEDS 13
Phone: Pudsey 2886



What are they called?

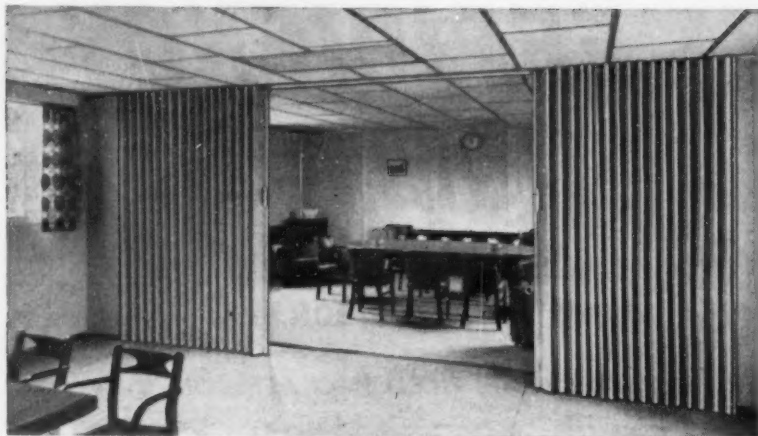
"Hill Bros."



- Wire Rimmed: They make 'Quickchange' noticeboards.
- Horn Rimmed: We're looking for something like that.
- Wire Rimmed: Give them a call, they make all sorts of boards. Directories for stores, Flight Indicator Boards for airports, etc.
- Horn Rimmed: 'Really?' We need a board to list the occupants and personnel for a new office block.
- Wire Rimmed: Just the people. They go to infinite trouble to design a board to fit one's requirements.

HILL BROS

(SERVICE) LTD.
BEACONSFIELD ROAD • ACTON GREEN • LONDON, W.4
CHISWICK 2235/6



Luxury
specified
again and
again

with **modernfold** expanding walls and doors

Lead in solving today's space and room division problem. Precision engineered, the patented metal framework is covered in luxury P.V.C. Leathercloth. There is a wide choice of colours from which to choose. Tailor-made to specific measurements, Modernfold require no floor track, are light to handle and draughtproof. Our illustration shows SMITH & DAVIS LTD., Board Room, Wednesbury, West Bromwich.

If noise is a problem, the new SOUNDMASTER will provide the answer — specially designed for use where quiet working conditions are required. Details of official test available.

WALLFOLD by Modernfold—covered in paintable P.V.A. Leathercloth—the door in the lower price range, available particularly for estate developers.

Write today for full details of complete range

HOME FITTINGS (GREAT BRITAIN) LTD.

Dept. VICTORIA WORKS, HILL TOP, WEST BROMWICH, STAFFS
A.J.2 Telephone: WEDNESBURY 0761

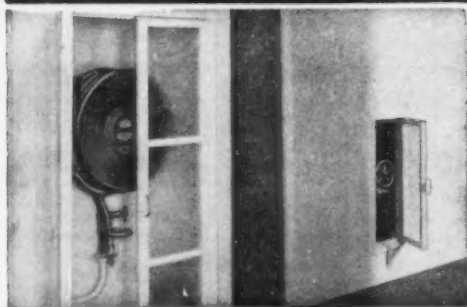
REMEMBER — MODERNFOLD ALWAYS FILL THE GAP — COMPLETELY



The new head office building of

Midland Assurance Ltd is protected with

...CHARLES WINN FIRE FIGHTING EQUIPMENT



This extremely comprehensive fire protection scheme provides "Safeguard" Hose Reels (fitted in cavities) for use by the occupier and Dry Riser and Foam Inlet Equipment for use by the Fire Brigade.

See details of Winn products in Barbour Index File number 66. Send for Booklet F3 and Information Sheets.



CHARLES WINN & CO LTD
GRANVILLE STREET · BIRMINGHAM 1

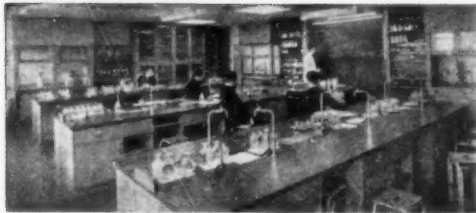
Telephone: MIDland 7151
(10 lines)

Telegrams: WINN, Birmingham.



for LABORATORY Furniture

Wall Benches
Island Benches
Demonstration Benches
Fume Cupboards
Apparatus Cupboards
Stock Cupboards
Domestic Science
Tables and
Workbenches
Library Shelving
and Tables



Workshop Benches
and Fittings
Pedestal Desks
Display Cases, etc.

JAMES WADSWORTH & SONS LTD.

WAKEFIELD ROAD, BRIGHOUSE, YORKS.

Phone Brighouse 1686

For Maximum Light

DUPLUS
DOMELIGHTS

DUPLUS DOMES LTD. CHATHAM ST. LEICESTER

Duplus Domelights are manufactured from 'Perspex' Acrylic sheet in clear, opal or tinted colours and in tinted P.V.C. They are easy to install with preparation work reduced to the minimum and are weather proof and shatter resistant.



Give

**PERMANENT
COLOUR**

TO YOUR BUILDINGS

(both interior and exterior)

by using

STELVETITE
**PLASTIC BONDED
STEEL SHEETS**

Made in a variety of delightful colours and finishes, and resistant to weather, heat and acids, etc.

FIRE RESISTANT!

Research tests place STELVETITE in Class 1 of British Standard 476—the highest possible resistance

NO REDECORATION EXPENSES

ASK FOR PARTICULARS

LYE TRADING COMPANY LTD

DUDLEY ROAD, LYE, STOURBRIDGE, WORCS.

Tel: Lye 2471 (10 lines). Telex: 33182

LONDON OFFICE:

SUFFOLK HOUSE, 5 LAURENCE POUNTNEY HILL, E.C.4
TEL: MINING LANE 1531-3. TELEX: 25272

LEEDS OFFICE:

11 KING STREET, LEEDS, 1

TEL: LEEDS 30384-5. TELEX: 55156

Applied Lettering

Variety of alphabets and materials for internal or external use, Illuminated Letters and Box Signs. Send for lettering sheets and brochures.

WARD & CO. (Letters) LTD.,
6-12 WILDER ST., BRISTOL 2 TEL. 21536

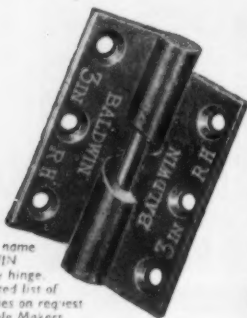


STRENGTH with

SILENCE

The strength and silent operation of Baldwin Cast Iron Hinges are testimony to the superiority of Cast Iron construction and Kenrick workmanship. Other advantages of BALDWIN BUTT HINGES include solid drilled knuckles which give larger bearing surfaces and can never unwrap.

See the name BALDWIN on every hinge. Illustrated list of full series on request from Sole Makers.



BALDWIN
CAST IRON BUTT HINGES

ARCHIBALD KENRICK & SONS, LTD., WEST BROMWICH, STAFFS.

NOW SPACE-HEATING FOR A SPACE AGE

MORHEAT Electric Central Heating Panels are simply screwed on the wall. No earth required. Simply switch on for comfortable background heating, and they are absolutely safe. The secret is in the low temperature, non-metallic MROGLAS element which is sandwiched between sheets of high quality Swedish masonry. Available in Recessed or satin finish in a range of attractive colours.



MORHEAT products include Central Heating Panels, Bathroom Panels with Towel Rail, Domestic Panels with Radi, Hot Plates, Skirting Heaters, Airing Cupboard Heaters, as well as every type of Industrial Application.

MOR HEAT

MORHEAT LTD., Church Path, Fareham, Hants. Tel.: 2322/3

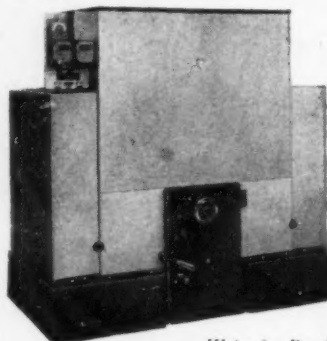
Here's how to achieve OUTSTANDING FLEXIBILITY IN PLANNING



OUTSTANDING ECONOMY

IN OPERATION

The problem—how to provide a heating source for a factory and office block capable of an output of 5 million B.t.u. per hour, yet able to operate economically for long periods on extremely low load. Trianco engineers were able to do this and include fully automatic fuel feed and ash disposal units as well. Result—high fuel economy combined with minimum labour costs. Trianco Boilers give maximum heat exchange with minimum fuel consumption. They are proven in service and ensure years of trouble free heating.



Solid Fuel Boilers from 50,000 B.t.u. to 2 million B.t.u.

Oil Fired Boilers from 100,000 B.t.u. to 3 million B.t.u.



BY APPOINTMENT TO
HER MAJESTY THE QUEEN
THE QUEEN MOTHER
MANUFACTURERS OF
DOMESTIC BOILERS
Trianco Ltd. East Molesey, Surrey

Write for Brochure and Specifications to:—

TRIANCO
automatic boiler

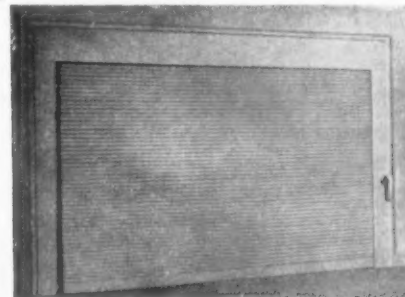
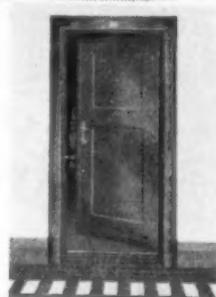
Dept. A.J./3/2 Trianco Ltd., Imber Court,
East Molesey, Surrey.
Emberbrook 3300 (8 lines)

how you can **limit** fire losses

Every year is a more costly year as far as fire losses are concerned in this country. How can you, personally, help to limit these losses? An effective method is to sectionalise buildings with fireproof walls and protect the openings with DREADNOUGHT Fireproof Doors and Rolling Shutters. These are of good appearance and are approved by the Fire Offices Committee. Details can be obtained from:—



Bank of England, The Foreign Office, Somerset House, Victoria and Albert Museum, National Gallery and many other historic buildings are all protected by DREADNOUGHT Fireproof Doors.



DREADNOUGHT

Fireproof Doors & Rolling Shutters

DREADNOUGHT FIREPROOF DOORS (1930) LTD., 26 VICTORIA ST., WESTMINSTER, S.W.1. Phone: ABBEY 1411



SWALE CHEMICALS LIMITED

SPECIALISTS IN ORGANIC FINISHES FOR ALUMINIUM

THE
LAKADIZE
SYSTEM

SWALE CHEMICALS LIMITED

53 PARK HILL ROAD, CROYDON, SURREY

CROYDON 5498

*Behind every Brookes
folding shutter door
are delivery and
after-sales services
as efficient and
smooth-running
as the door itself.*

FOR ALL APPLICATIONS

Lift entrances, bus garages, works entrances, internal partitions—all can have the smooth-running security of a Brookes folding shutter door.

SMOOTH OPERATION

Hand operation is smooth and easy up to surprisingly large sizes; push-button electrical operation is, of course, readily available.

LONG DURABILITY

All leaves are of heavily galvanised sheet steel ensuring long life without rusting in the dampest conditions.

LARGE OR SMALL

From 3ft. high by 3ft. wide to 30ft. high by 50ft. wide—there's practically no size limit.

PRECISION BUILT

Sheet steel leaves, and framing, jig built; each suspension hanger runs on precision-ground ball race rollers on special steel top track.

BROOKES DOORS



Photograph of the doors at the
DISTRIBUTING DEPOT FOR UNITED
CO-OPERATIVE DAIRIES LTD., URMSTON.

For information, literature and service, write to Dept. B6

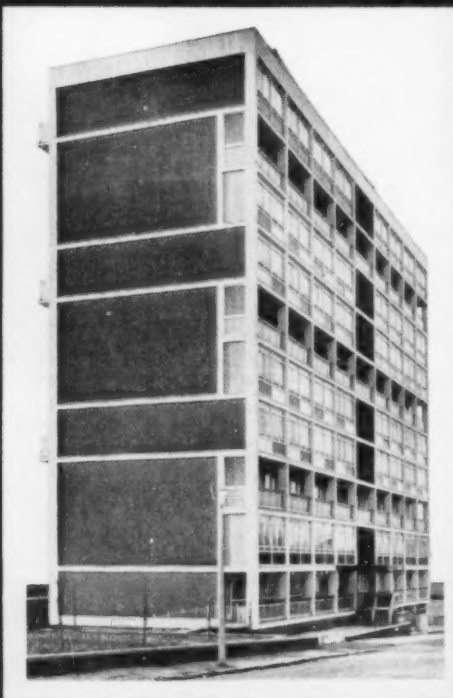
BROOKES & CO. (1925) LTD. PRINCESS ART METALWORKS

129 STOCKPORT ROAD • MANCHESTER 12 • TELEPHONE: ARDWICK 1522

Brookes also make : Balustrades • Lift enclosures • Canopies • Metal partitions
Gates and railings • Wire guards • Cloakroom fittings • Floor ducting

WHITE ENCASURE SLABS BY CROFT

**The specialists in
exposed Aggregate
and other types of
cladding slabs**



PHOENIX HOUSE
Queen St. Coventry

Main contractor:
George Wimpey and
Co. Ltd.

Architect:
Coventry City
Architect and
Planning Officer
Arthur Ling B.A.,
F.R.I.B.A.



THE CROFT GRANITE, BRICK & CONCRETE CO. LTD.
Croft, Nr. Leicester. Tel: Narborough 2261-2-3-4

London: 638, Salisbury House, Finsbury Circus, London, E.C.2.
Tel: National 0513 (4 lines)
Branch Office and Works: West Bank, Widnes.
Tel: Widnes 2656-7.

Built to Last ...

and Building to Endure ...



For twentieth century construction
and efficient maintenance employ ...



RITO & RITOLASTIC PRODUCTS

Research, scientific development and modern procedure succeed in determining the potential life and performance of building construction and maintenance materials to a remarkably accurate extent. But unexpected successes and failures are sometimes revealed under the actual test of time. Bitumen has not only proved successful scientifically but has also survived the test of time for over 5,000 years. This is the base of Rito sealing and jointing mastics, also Ritolastic liquid waterproofing and anti-corrosive coatings.

Send for descriptive matter.

Manufacturers:

ANDREW MAXWELL DIVISION

(Liverpool Borax Co. Ltd.)

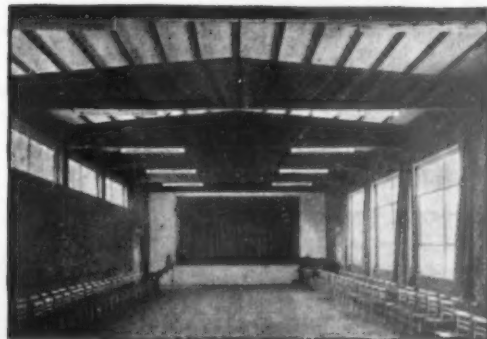
MAXWELL HOUSE, ST. PAUL'S SQUARE, LIVERPOOL 3.

Preformed

TIMBER ROOF TRUSSES



**100 FEET
CLEAR SPAN**



A NEW, PATENTED FORM OF
ROOF TRUSS SUITABLE FOR
SPANS OF APPROXIMATELY
25 FT. PARTICULARLY SUITABLE
FOR SCHOOLS, PUBLIC HALLS,
ETC. WHERE EXTERNAL APPEAR-
ANCE AS WELL AS STRUCTURAL
STRENGTH IS OF IMPORTANCE.

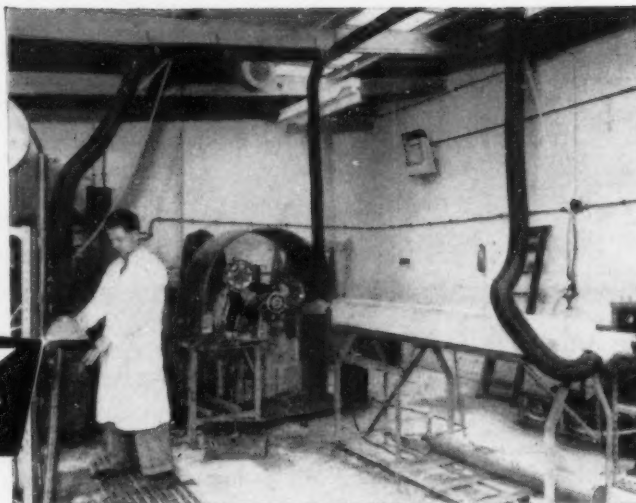
SEND FOR FULL DETAILS AND DESCRIPTIVE LEAFLET

CW2723

WILLIAM KAY [BOLTON] LIMITED, BARK STREET., BOLTON, LANCASHIRE. TEL 3925/6/7.

Save time -
Save labour
costs with

KOPEX
PLIABLE DUCTING



No pre-planning or prefabrication with KOPEX Pliable Ducting. It can be cut, bent by hand—even to small radii and fixed, conforming to layout, on the site. Jointing is minimised since KOPEX can be supplied in continuous lengths. A good heat insulator, KOPEX is ideal for heating and ventilation schemes, and for dust and fume extraction. Grades for all types of installations, high or low temperatures. Sizes up to 7½" I/D in metal, and metal and paper.

Write or phone for technical data

UNI-TUBES LTD

Head Office: 197 Knightsbridge, London, S.W.7. Tel: KNightsbridge 7811/5

Works: Alpha Street, Slough, Bucks. Tel: Slough 25476/7/8

TEMPORARY AND PERMANENT DUCTING—KOPEX Pliable Ducting can be quickly erected in any experimental and development shop as this photograph clearly indicates, and can be quickly dismantled and stored for the next job. It is just as easy, and costs no more, to erect permanent KOPEX Pliable Ducting for Domestic and Industrial ventilation schemes.



RINGELMANN
ZERO
IS YOUR NUMBER

WITH THE

OLDBURY
chain grate
STOKER

Developed in 1942 for versatility in burning the widest variety of solid fuels, efficiently, smokelessly, the Oldbury Stoker anticipated the Clean Air Act by 16 years.

It is your guarantee of absolutely smokeless combustion—RINGELMANN O—with full boiler output, no matter what fuel hazards may develop in the future.

Send for Publication No. 1618/2.

EDWIN DANKS & CO. (Oldbury) LIMITED

OLDBURY near BIRMINGHAM. Telephone: (Stoker Division) Brierley Hill 7731

London • Birmingham • Cardiff • Glasgow • Leeds • Manchester • Newcastle-on-Tyne



Contractors: Messrs. Wates Ltd. Flats on Wychall Farm Estate, Birmingham.
City Architect: A. G. Sheppard Fidler Esq., M.A., B.Arch., F.R.I.B.A., A.M.T.P.I.

METALWORK

for the Building and Civil Engineering Industries

BALUSTRADES RAILINGS
FIRE ESCAPES SPIRALS
SPECIAL STAIRCASES
BRIDGE BALUSTRADING

BIG WOOD BROS.

(BIRMINGHAM) LTD

WOODFIELD ROAD • BALSALL HEATH • BIRMINGHAM, 12
Established 1879 Phone: CALthorpe 2641/2
London Offices: 68 VICTORIA STREET, LONDON, S.W.1

LGB

Exhibitions, Films, Lectures, Demonstrations

BRISTOL BUILDING CENTRE

The Centre Bristol 1. Tel 27002

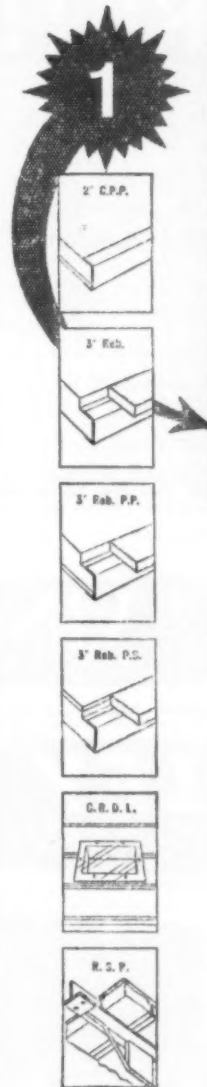
**ASK
FOR
BULLETIN*
& CATALOGUE**

*Published monthly Free Information Service
Technical Library 5000 Classified Sections

**WE MAKE
SMALL BUILDINGS
IN TIMBER**

Pamphlets from
D. D. DESIGN LTD.
Sales office
1, Hanover St. W.1
Tel: REG 4658

Seven symbols of progress



2\"/>

Our first code symbol—2\"/>

The slab has excellent fire resisting properties: the rate of flame spread is Grade 1, its overall thermal insulation value with $\frac{1}{2}$ \"/>

This is a most useful slab where internal humidity is likely to be low to normal, and is particularly suitable for electrically or centrally heated school rooms, factories, stores and other buildings.

Please write for full particulars.

THERMACOUST LTD

ROOFING SLABS

20 ALBERT EMBANKMENT LONDON SE11
Telephone Enquiries (Southern)—London: Elmbridge 5773/4/5
Telephone Enquiries (Northern)—Doncaster 54138 Ex. 25

When supported on inverted \"/>

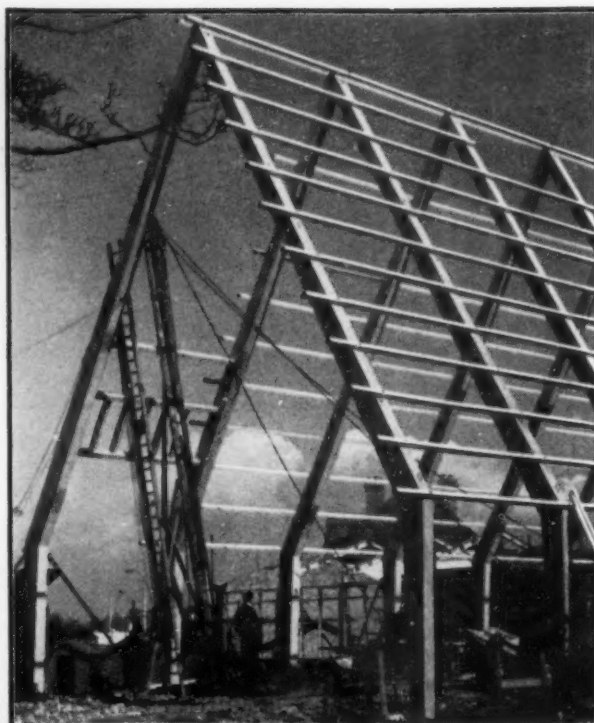


A member of the Cementation Group of Companies.

PRECAST CONCRETE

Our services are available for the design, manufacture and erection of all structural and engineering units. Technical representatives — backed by a country-wide organisation—are always available to discuss projects on request.

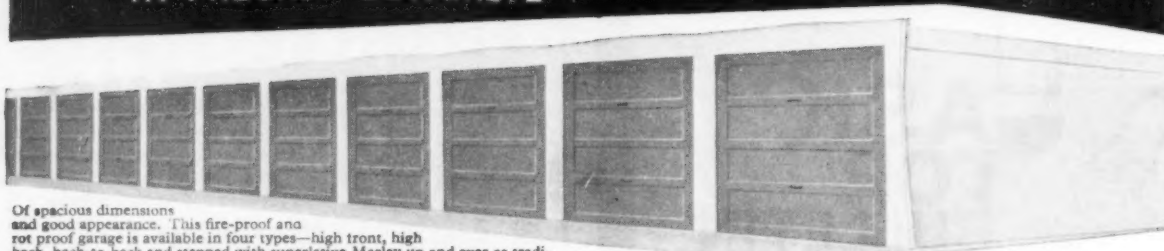
By courtesy of Messrs. Shipley & Foster, Chartd. Archts., we show the Porta Frames to the new Anglican Church at Walsall. Clear Span 34ft. 0in., height to Apex 40ft. 0in. T. G. Construction Co. Ltd.—one of the Tarmac Group of Companies—erected the portals. Main Contractors: Messrs. Bird & Hough, Walsall, Staffs.



TARMAC VINCULUM LIMITED

Ettingshall Wolverhampton. Telephone Bilston 41101 (fourteen lines)

MARLEY MULTIPLE GARAGES IN PRECAST CONCRETE



Of spacious dimensions and good appearance. This fire-proof and rot proof garage is available in four types—high front, high back, back-to-back and stepped with superlative Marley up and over or traditional timber doors. Low initial cost. Virtually maintenance free. Many thousands now being supplied and erected for Architects and Local Authorities throughout Great Britain. Site work can also be undertaken, if required. We shall be pleased to submit quotations on request. Marley make the best garages.

MARLEY CONCRETE LIMITED Dept. M1/32 Peasmarsh, Guildford, Surrey (Head Office) Guildford GU1 7T • Shurdlington, Nr. Cheltenham, Glos. Shurdlington 334/5. Hatchpond Road, Waterloo, Poole, Dorset. Broadstone 911/2 London Showrooms: 251 Tottenham Court Road, W.1.

AUSWALITE SIGNS AUSTIN WALTERS **PLASTIC & NEON SIGNS**

NEW STYLES, NEW MATERIALS
An adequate after-sales service
Look for the symbol "AUSWALITE"

AUSTIN WALTERS & SON LTD.

AYRES RD

MANCHESTER 16

Tel: TRA 1827/8/9

Cadbury's

require

ARCHITECTURAL ASSISTANTS

of Final or Intermediate R.I.B.A. standard either for a post at their **Bournville Factory** or for a post at their new factory at **MORETON, WIRRAL CHESHIRE** for work on a varied and interesting programme.

Experience in industrial and commercial building design desirable.

Five day week, attractive working conditions and amenities, pension scheme.

Salary according to qualifications and experience
Applications stating age, qualifications and salary required should be addressed to

**Chief Architect,
Cadbury Brothers Limited,
Bournville, Birmingham.**

Architects Architectural assistants

We have vacancies in the Architects' Department in **LONDON** and **LEPSOM** for qualified men and those who have passed an Intermediate R.I.B.A. Examination.

These are permanent positions: luncheon vouchers, five day week, pension scheme.

Please write fully in confidence to:

**THE PERSONNEL MANAGER,
W. S. ATKINS & PARTNERS,
158 VICTORIA STREET,
LONDON, S.W.1.**

MINISTRY OF WORKS HOME COUNTIES REGION

require in
READING

for work of widely varying and interesting nature

LEADING ARCHITECTURAL ASSISTANTS

Applicants must have achieved inter-R.I.B.A. standard, have good design ability and knowledge of modern building construction, and be capable of exercising leadership and supervision coupled with high quality individual work.

Salary range £930—£1,085 p.a. Starting salary will normally be £930 p.a. but may be higher for applicants with exceptional experience and qualifications.

ARCHITECTURAL ASSISTANTS

of inter-R.I.B.A. standard with keen, modern outlook. Salary range £560 (age 21) to £930 p.a. Starting pay according to age and/or qualifications.

GENERAL: Equal pay. 5-day week. 3½ weeks' leave per annum. Good prospects of promotion and permanency. Non-contributory pension scheme.

APPLICATIONS: stating age, training and experience to **R. P. Mills, A.R.I.B.A., Superintendent Architect, Ministry of Works, Whiteknights, Reading.**

LITTLEWOODS MAIL ORDER STORES LTD.

have a vacancy for an

Assistant Architect

(A.R.I.B.A. or about to qualify)

Starting Salary—

£1,250—£1,650, or up to £1,100


(if intermediate R.I.B.A.)

We have a large and varied building programme, and the selected applicant will join one of our teams in the design and development of new stores and commercial buildings throughout Great Britain.

The Company's conditions of employment include a five-day week, a generous Sickness Scheme and a contributory Pension and Life Assurance Scheme.

Write for application form to—

**The Employment Manager (Ref. A/131/AJ)
LITTLEWOODS MAIL ORDER STORES LTD
Central Personnel Department
Spinney House, Church Street
LIVERPOOL X**

BAKELITE  LIMITED

offer

AN UNUSUAL APPOINTMENT

These leading manufacturers of plastics materials, wish to appoint an

ASSOCIATE of the ROYAL INSTITUTE OF BRITISH ARCHITECTS,

aged 25 to 30, in their Research and Development Department at Tyseley, Birmingham, to be responsible for a programme of work on the use of their materials in the building and civil engineering industries.

This is a promising opportunity for a man with a sound training in the principles of design and construction to specialise on the properties and applications of the increasingly important plastics materials, some of which are already established and others in course of development.

The appointment is intended to be progressive, and the starting salary will be attractive.

Architects likely to be interested are invited to write for a summary of the responsibilities of the position, which should enable them to decide whether they wish to apply for an interview. The request should be addressed to the

RESEARCH & DEVELOPMENT MANAGER,

BAKELITE LIMITED

*Redfern Road, Tyseley,
BIRMINGHAM, 11*

NATIONAL COAL BOARD NORTH EASTERN DIVISION

**Require in Architects Branch
at Conisbrough, Nr. Doncaster**

- (a) **Architect** to act as Leading Assistant to Section Architect. The work covers a wide and varied field and all stages of projects.

Qualification—A.R.I.B.A.

Salary—£900 × £35 — £1,250.

(Quote AA/585).

- (b) **Architectural Assistants.** The work is varied and interesting, covering sketch plan, working drawing and construction stages.

Salary—£785 × £30 — £1,100.

(Quote AA/599).

All posts are superannuable, and carry a concessionary coal entitlement. 5-day week, canteen facilities are available.

Write for application forms quoting references as shown above, to Staff Department, 16 South Parade, Doncaster, within the next ten days.



TAYLOR WOODROW HOMES LIMITED

require an

ARCHITECTURAL ASSISTANT

of intermediate standard, capable of handling contracts from start to completion in a department working on varied housing development, including multi-storey flats; large estates; town development and private houses.

This post offers opportunity for appreciable individual responsibility and experience in one or more of the above would be an advantage. Interviews can be arranged at any time including Saturday mornings with travelling expenses paid.

Write in first instance to:—

**Chief Architect,
Taylor Woodrow Homes Limited,
Western House, Western Avenue, Ealing, W.5**

AEI

Associated Electrical Industries (Rugby) Limited

require

ARCHITECTURAL ASSISTANTS

We have vacancies in our Group Architect's Department at Rugby for a Qualified Architect and an Assistant of Intermediate to Final Standard for work on various industrial projects. Experience in industrial and commercial building design desirable but not essential.

Five-day week, Pension Scheme.

Attractive working conditions and amenities.

Applications stating age, qualifications, experience and salary required to:—

**Group Architect,
Associated Electrical Industries (Rugby) Limited,
Mill Road, Rugby.**

CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the advertisements Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post 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.

AIR-MAIL SERVICE available on request. In response to requests from a number of Overseas subscribers for air-mail delivery of Public and Official Appointment details and Other Appointments Vacant, we have been pleased to arrange that cuttings of all such classified advertisements appearing in the A.J. shall be despatched by air-mail on Wednesday of each week (one day prior to A.J. publication date). The cost of this special service to Overseas subscribers will be 5s. for four weeks (1s. 3d. for each additional week) and prepayment should be sent by subscribers wishing to take advantage of this service. The charge we are making represents only the actual cost of the postage involved.

Public and Official Announcements

36s. per inch; each additional line 3s.

AIR MINISTRY require **QUANTITY SURVEYING ASSISTANTS** Grade III at R.A.F. and Ministry of Aviation stations throughout the United Kingdom. The work includes abstracting and billing, site measurement and preparation of estimates. Candidates must hold ONC (Building or Builders Quantities) or equiv. and have had good experience under Quantity Surveyor or Building Contractor. Knowledge of W.D. Schedule an advantage.

Commencing salary, which is dependent upon age, qualifications and exp., ranges from £476 (age 25) to £961 max. in Grade III. There are pension prospects and also opportunities of advancement to numerous posts in the higher grades, vacancies which as a rule are filled by promotion of existing staff, viz.:

Technical Grade II:	£961-£1098	123 posts
Technical Grade I:	£1098-£1348	42 posts
Technical Grade B:	£1348-£1552	6 posts
Technical Grade A:	£1439-£1697	6 posts

Overseas tours for which special allowances ranging at present up to £1800 p.a. are payable in addition to a higher salary. Financial assistance and time off allowed for recognised courses of study leading to higher qual. 5 day week with 18 days paid leave a year initially. Applicants who must be natural born British subjects should write stating age, qual. and exp. to Manager (PE 2), Ministry of Labour, Professional & Executive Register, Atlantic House, Farrington St., London, E.C.4. Candidates selected will be interviewed in Air Ministry, London, and certain expenses reimbursed. Only applicants selected for interview will be advised.

5349

CHESTER RURAL DISTRICT COUNCIL ASSISTANT ARCHITECT

Applications are invited for the above appointment in the Architects' Department at a salary within A.P.T. Grade III.

Applicants should have good general experience particularly in connection with housing schemes. Preference will be given to candidates who have passed the Intermediate examination of the Royal Institute of British Architects.

Housing accommodation may be made available if required. A five-day week in operation.

The appointment will be subject to:

(a) The National Scheme of Conditions of Service.
(b) The Local Government Superannuation Act.
(c) One month's notice in writing on either side.

Applications stating age, qualifications, particulars of experience, together with the names of two referees must be received by the undersigned by Tuesday, 28th February, 1961.

G. A. MORGAN,
Clerk to the Council.

5705

CITY OF PORTSMOUTH CITY DEVELOPMENT DEPARTMENT

Applications are invited from candidates with Intermediate A.M.T.P.I. or equivalent for appointment of **DEVELOPMENT ASSISTANT, A.P.T. Grade III** (£960-£1,140), commencing salary according to experience.

Applicants should have a comprehensive knowledge of Town Planning and experience in Development Control.

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

Application forms, obtainable from City Development Officer, 1, Western Parade, Portsmouth, to be returned by 6th March, 1961.

5695

OXFORDSHIRE COUNTY COUNCIL COUNTY ARCHITECT'S DEPARTMENT

ASSISTANT ARCHITECTS, A.P.T. IV-V (Salary scale £1,140-£1,480) Starting salary according to experience. Applications are invited from qualified architects to work on an interesting and varied building programme. The appointments are superannuable and subject to medical examination.

Applications on forms to be obtained from the undersigned to be returned by 24th February, 1961.

ALBERT E. SMITH,
County Architect.

Park End Street Offices,
Oxford.

5696

BOROUGH OF RAWTENSTALL APPOINTMENT OF CHIEF ARCHITECT

Applications are invited for the above permanent appointment at a salary within A.P.T. IV (£1,140-£1,530 per annum). Applicants should be members of the R.I.B.A.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, the National Scheme of Conditions of Service and the termination by one month's notice by either side. Housing accommodation will be available.

Applications including names and addresses of two referees should reach the undersigned not later than Saturday, the 25th February, 1961. Canvassing will disqualify. Any relationship to members or senior officers of the Council must be disclosed.

COLIN CAMPBELL,
Town Clerk.

Town Hall,
Rawtenstall,
Rossendale,
Lancs.
25th January, 1961.

5694

OXFORDSHIRE COUNTY COUNCIL COUNTY ARCHITECT'S DEPARTMENT

Applications are invited for the positions of **GROUP ARCHITECTS** (salary J.N.C. scale "C" £1,560-£1,825) to work on an interesting and varied building programme. The appointments are superannuable and subject to medical examination. Applications on forms to be obtained from the undersigned, to be returned by 24th February, 1961.

ALBERT E. SMITH,
County Architect.

Park End Street Offices,
Oxford.

5697

BOROUGH OF EALING ARCHITECTURAL ASSISTANT within Scale A.P.T. IV, according to experience (£1,185-£1,355 inclusive). Must have recognised architectural qualifications.

JUNIOR ARCHITECTURAL ASSISTANT, A.P.T.I. (£645-£815) plus London Weighting.

Full particulars and forms of application from Borough Engineer, Town Hall, Ealing, W.5.

A. J. COPE BROWN,
Town Clerk.

5753

CITY OF OXFORD CITY ARCHITECT AND PLANNING OFFICER'S DEPARTMENT

Applications are invited for the following posts:—

ARCHITECTURAL ASSISTANTS, A.P.T. Grade III/IV (£960-£1,140) (£1,140-£1,310).

SENIOR ARCHITECTURAL ASSISTANT, A.P.T. Grade V (£1,310-£1,480).

Suitable housing accommodation, if required, will be provided by the Council for the above posts.

Applicants must be Members of the Royal Institute of British Architects, should have several years' experience and possess a wide knowledge of modern methods of construction and contract procedure and must be capable of carrying through contracts from sketch stage to completion with minimum supervision. A high standard of design ability and a keen interest in contemporary architecture are essential. Assistants are encouraged to control their own contracts from sketch design onwards. The Senior Architectural Assistant will be engaged mainly on educational work in the first instance.

The appointments will be subject to the National Conditions of Service and the successful candidates will be required to pass a medical examination.

Application forms to be obtained from the City Architect and Planning Officer, Town Hall, Oxford. Closing date—25th February, 1961.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.

5758

ST. ANNES DIVISIONAL PLANNING OFFICE LANCASHIRE COUNTY COUNCIL

PLANNING ASSISTANT required within salary range £645-£1,310 per annum. Commencing and maximum salary according to qualifications and experience.

Applicants should be studying for or possess a recognised qualification in architecture, surveying, engineering and/or town planning.

Applications, giving age, qualifications, present appointment, experience, etc., and two referees, to the County Planning Officer (S) East Cliff County Offices, Preston, by the 27th February, 1961.

5846

CUMBERLAND COUNTY COUNCIL SENIOR ASSISTANT COUNTY ARCHITECT

J.N.C. SCALE "C" £1,560-£1,825

Applications are invited for the above appointment in the County Architect's Department. The post requires a well qualified and experienced Architect with outstanding design ability and capable of leading a design team engaged on a large programme of educational and other county work. Salary within grade according to experience and qualifications. Housing accommodation may be available.

Further particulars and forms of application from the County Architect, 15, Portland Square, Carlisle, to whom applications should be returned not later than 8th March, 1961.

G. N. C. SWIFT,

The Courts,
Carlisle,
8th February, 1961.

5859

Clerk of the County Council.

DEVELOPMENT GROUP DIRECTORATE OF WORKS—WAR OFFICE

There are vacancies for professional staff in the newly formed Development Group in the Directorate of Works, War Office, at Chessington, Surrey (Director-General: Donald Gibson, C.B.E., F.R.I.B.A.).

(1) **SENIOR GRADE ARCHITECT** (£2,130-£2,442). To lead a small team concerned with building management, office procedure, communications and publications within the Directorate.

(2) **MAIN GRADE ARCHITECT** (£1,496-£2,000). To assist the Senior Grade Architect above. Both these architects will also be involved in the Group's development projects.

(3) **MAIN GRADE ARCHITECTS** (3 posts) (£1,496-£2,000). To be members of teams working on the Group's development projects.

(4) **FURNITURE DESIGNER** (£1,428-£1,652). To assist the development teams in the study of user requirements and to prepare designs for built-in furniture and fittings for a wide range of activities.

(5) **MAIN GRADE LANDSCAPE ARCHITECT** (£1,496-£2,000). To be a member of the Landscape Architect team concerned with the layout and planning of building projects in the U.K. and overseas.

(6) **LEADING DRAUGHTSMAN (LANDSCAPE)** (£980-£1,145). To be a member of the Landscape Architect team.

(7) **MAIN GRADE SURVEYOR** (£1,496-£2,000). To be a member of a small team concerned with the development of improved methods for estimating and controlling expenditure on minor works and maintenance, in the U.K. and overseas.

For further information on these vacancies, including qualifications and experience required and conditions of service, please write to Roger T. Walters, A.R.I.B.A., A.M.I.Struct.E., Chief Architect (Development), War Office, Chessington Surrey, stating the post in which you are interested.

5636

CITY OF MANCHESTER APPOINTMENT OF CITY ARCHITECT

Applications are invited from persons holding the necessary qualifications for the position of City Architect.

Salary £4,225 rising to £4,675.

Conditions of appointment and application forms, returnable by 6th March, 1961, obtainable from the Town Clerk, Town Hall, Manchester, 2.

5649

CUMBERNAULD NEW TOWN ARCHITECTS AND ARCHITECT-PLANNERS

who want to make a contribution to the design of this New Town will be considered for the following jobs:—

ASSISTANT ARCHITECTS (A.R.I.B.A. required), £645-£1,570.

ARCHITECTURAL ASSISTANTS (Intermediate R.I.B.A. required), £645-£1,570.

ASSISTANT PLANNING OFFICERS (A.R.I.B.A., A.M.T.P.I. required), £1,140-£1,670.

Salary placing according to qualifications and experience. Variety of work including high density housing of all types, industry and other town development.

Housing provided if required. Five-day week. Application forms, which should be returned completed not later than Monday, 27th February, 1961, may be obtained from the General Manager, Cumbernauld Development Corporation, Cumbernauld House, Cumbernauld, Glasgow.

5640

AIR MINISTRY require SENIOR WORKERS in Quantities Division in London. Must be fully experienced and competent to Work in entire Bills of Quantities. Candidates must hold O.N.C. or C. & G. (Quantities) or equivalent technical qualifications. Financial assistance and time off given for recognised courses of study. Promotion and pension prospects. Five-day week with 18 days paid leave a year initially. Salaries on annual incremental basis ranging from £975 (age 20 or over) to £1,115. Commencing salary according to qualifications and experience. Applicants, who must be natural born British subjects, should write stating age, qualifications and experience to Manager (PE 519), Ministry of Labour, Professional & Executive Register, Atlantic House, Farrington Street, London, E.C.4. No original testimonials should be sent.

5499

LLANELLY RURAL DISTRICT COUNCIL ARCHITECTS' DEPARTMENT

ARCHITECTURAL ASSISTANT OR BUILDING SURVEYOR

Applications are invited for the above appointment on work in connection with the design of Housing, Estate Layout, Construction of Roads and Sewers and other general work for the Department.

Salary in accordance with Grade A.P.T. III of the National Scales (£960-£1,140).

Candidates should have obtained the Final Examination of the R.I.B.A. or the R.I.C.S.

Successful applicant is required to pass a medical examination.

Applications, giving age, details of training and experience, present employment, qualifications and other information, together with names of two referees, to reach me by Tuesday, the 21st February, 1961.

C. B. HUGHES,
Clerk of the Council.

Castle Buildings,
Murray Street,
Llanelli.

3rd February, 1961.

5829

BOROUGH OF LEYTON
(in the County of Essex)
COMMITTEE FOR EDUCATION
APPOINTMENT OF ARCHITECTURAL ASSISTANT

Applications are invited for the permanent appointment of Architectural Assistant, Grade A.P.T.III £960-£1,140 per annum, plus London weighting. The successful applicant will be employed by the Essex County Council and will work in the School Architect's Section of the Borough Engineer & Surveyor's Department, Town Hall, Leyton, E.10, five day week is operated. Details and forms of application from the Borough Education Officer, Education Offices, Kirkdale Road, Leytonstone, E.11, to whom they should be returned within fourteen days from the appearance of the advertisement. 5761

CUMBERNAULD NEW TOWN
ARCHITECTS (A.R.I.B.A.) (landscape qualification desirable for one of the posts) are required for the team which is now being built up for the design of the town centre. This is proposed as a comprehensive multi level project involving all central area uses, including housing, with vehicular access and car parking at ground level and a series of pedestrian platforms above. The scheme is one of the first of its kind in the world and only those with first class ability and a belief in the principles involved should apply. The posts offer salaries within the range £960-£1,670, and placing will be according to qualifications and experience. Housing will be provided if required and there is a five-day week. Application forms, which should be returned completed not later than Monday, 27th February, 1961, may be obtained from the General Manager, Cumbernauld Development Corporation, Cumbernauld House, Cumbernauld, Glasgow. 5842

CITY OF SHEFFIELD
APPOINTMENT OF SENIOR ASSISTANT ARCHITECTS
GRADE A.P.T. V £1,310-£1,480
Applications are invited from qualified architects for posts on the permanent staff of the City Architect, Mr. J. L. Womersley. Vacancies exist in the Housing, Education and General Sections of the Department. The Housing Section is engaged on large scale schemes of redevelopment and there are excellent prospects of further work on challenging schemes of urban renewal. The Education and General Section is responsible for an expanding and interesting programme of important civic buildings including colleges, schools, libraries, art galleries and people's homes, fire and police stations, health centres, etc. COMMENCING SALARIES WITHIN THE ABOVE GRADE ACCORDING TO QUALIFICATIONS AND EXPERIENCE. A five day week is in operation and the posts are superannuable. Applications stating age, education and training, qualifications, present and past appointments (with dates and salaries), experience and the names of two persons to whom reference may be made should reach me not later than 28th February, 1961. **JOHN HEYS,**
Town Clerk. 5754

COUNTY BOROUGH OF ROTHERHAM
SENIOR ASSISTANT ARCHITECT
Applications are invited for the appointment of a Senior Assistant Architect—A.P.T. V (£1,310-£1,480). The department has a varied and interesting programme of architectural work and candidates are required to be Associate Members of the R.I.B.A. with good general experience in design and construction. The commencing salary in the grade will be according to capabilities and experience. Housing accommodation will be available if necessary. Applications to be endorsed "Senior Assistant Architect," stating age, qualifications and details of experience, together with names of two referees, should be received by me not later than Wednesday, 1st March, 1961. Canvassing will disqualify. **JOHN S. WALL,**
Town Clerk. 5760

COUNTY BOROUGH OF EAST HAM
HOUSING DEPARTMENT
APPOINTMENT OF ARCHITECTURAL ASSISTANT
Applications are invited. Salary in accordance with Grade A.P.T. III (£960-£1,140 per annum), plus London weighting. Applicants should have had experience of the construction and supervision of the erection of Housing Schemes. Further particulars and application forms (returnable by 1st March, 1961) from the Town Clerk, Town Hall, East Ham, E.6. 5771

BOROUGH OF GRANTHAM
CHIEF ASSISTANT ARCHITECT, A.P.T. IV, £1,140 to £1,310.
ASSISTANT ARCHITECT, A.P.T. III, £960 to £1,140.
Applications, with names of two referees, to Borough Engineer, Guildhall, Grantham, by Monday, 27th February. House and assistance with removal expenses offered. Five-day week. **JOHN F. GUILF,**
Town Clerk. 5860

CITY OF CARLISLE
CITY SURVEYOR'S DEPARTMENT
BUILDING SURVEYOR
Applications are invited for the above post on a salary grade up to A.P.T. III (£960-£1,140 per annum), according to qualifications and experience. Applicants must be able to deal with all types of property and small building work, including adaptations, alterations and additions. They should have a good practical knowledge of building and be able to prepare the necessary plans, specifications and estimates for the work. Applications, stating age, married or single, qualifications, present and past appointments, salary and experience, to be received by the City Surveyor not later than 20th February, 1961. **H. D. A. ROBERTSON,**
Town Clerk. 5686

ELSTREE RURAL DISTRICT COUNCIL
APPOINTMENT OF ASSISTANT ARCHITECT
Applications are invited for the above appointment in the Department of the Engineer & Surveyor, on work in connection with the design of housing (including estate layout and multi-storey flats) and other general architectural schemes. Salary in accordance with Grade A.P.T. III of the National Salary Scales (£960-£1,140 plus London weighting, £45). Appropriate car allowance. Candidates should have passed the Final examination of the R.I.B.A. or equivalent. Housing accommodation if required, and consideration given to payment of proportion of approved removal expenses. Relationship to any Member or Officer of the Council must be disclosed and canvassing directly or indirectly will disqualify. Application forms to be obtained from the Engineer & Surveyor at the address below and to be completed so as to reach that Officer not later than Friday, 24th February, 1961. **LANCASHIRE,**
Clerk of the Council. 5667

UNIVERSITY OF BIRMINGHAM
CLERKS OF WORKS
Clerks of Works are required for buildings due to start shortly as part of the University Development Plan. Starting salary will be within the range of £960 to £1,200, according to qualifications and experience. Option of Pension benefits. Further particulars from the Secretary, The University, Edgbaston, Birmingham 15. Closing date for applications 28th February, 1961. 5735

URBAN DISTRICT COUNCIL OF CORBY
ARCHITECTURAL AND SURVEYING ASSISTANTS
Applications are invited for the undermentioned appointments in the Department of the Engineer and Surveyor:—
(i) CHIEF ARCHITECTURAL ASSISTANT
Applicants must have considerable experience of design, construction and supervision of building contracts, including housing, must be Registered Architects and preferably possess the A.R.I.B.A. qualification. The salary is Grade A.P.T. V (£1,310-£1,480) and for this appointment there is an "essential user" allowance for a car up to 10 H.P.
(ii) SENIOR ARCHITECTURAL ASSISTANT.
Applicants must be qualified Architects of not less than five years' experience (including the period of theoretical training). Salary within Grade A.P.T. III/IV (£960-£1,140-£1,310) according to experience.
(iii) SENIOR SURVEYING ASSISTANT (CHARTERED SURVEYOR).
Applicants must be qualified A.R.I.C.S. (Building Section), of not less than five years' practical experience, preferably in the department of an Engineer and Surveyor to a local authority. The salary is grade A.P.T. IV (£1,140-£1,310).
(iv) JUNIOR ARCHITECTURAL ASSISTANT.
Salary Grade A.P.T. I (£645-£815) or A.P.T. II (£815-£960) according to qualifications and experience.
(v) DRAWING OFFICE ASSISTANT.
Applicants should have ability in building, civil engineering or other branch of draughtsmanship, at least an elementary knowledge of building construction theory and have previous experience associated with work of building or civil engineering. The salary grade will be in accordance with Miscellaneous Grade III (£555-£625), IV (£625-£685) or V (£685-£760) according to age and experience. Corby is a rapidly expanding town and the Council's building programme is substantial and varied, with opportunities for good experience. The provisions of the Local Government Superannuation Acts, 1937-53 will apply to this appointment. Housing accommodation will be made available to the successful candidates, if married. Forms of application may be obtained from the undersigned, to whom they should be returned not later than the first post on Friday, 3rd March, 1961. Testimonials will be required only from applicants selected for interview. **G. B. BLACKALL,**
Clerk of the Council. 5881

BOROUGH OF BEDFORD
Applications are invited from suitably qualified applicants for the following appointments:—
(a) TWO SENIOR ASSISTANT ARCHITECTS A.P.T. IV (£1,140-£1,310).
(b) SENIOR QUANTITY SURVEYOR, A.P.T. IV (£1,140-£1,310).
Conditions of appointment include the payment of a car allowance of £115 per annum, the offer of housing accommodation and a contribution towards removal expenses. Commencing salary will depend on qualification and previous experience. Further particulars and application forms may be obtained from the undersigned to whom completed forms should be returned not later than noon, on Monday, 27th February, 1961. The present programme of capital works includes new primary and secondary schools, new municipal offices, houses, multi-storey flats and shops. **F. W. DAWKES,**
Borough Engineer and Surveyor. 5869

KENT COUNTY COUNCIL invites applications for the following appointments in the Planning Department:—
(a) ARCHITECTURAL ASSISTANT, Grade A.P.T. IV (£1,140-£1,310) or A.P.T. III (£960-£1,140). This appointment is principally for architectural control duties but there are opportunities for interesting work in other fields, including central area redevelopment schemes. Candidates should be corporate members of the Royal Institute of British Architects and the scope of the appointment would be widened if in addition to this the officer holds a planning qualification.
(b) PLANNING ASSISTANTS, Grade A.P.T. I-II (£645-£960) or A.P.T. I (£645-£815). These appointments are for work in connection with Development Plan or control of development. Candidates must have a University degree or diploma or have passed a recognised intermediate professional examination related to any technical aspect of the work of a Planning Department.
(c) DRAUGHTSMEN, Miscellaneous Grades I-VI (£450-£825). Candidates should preferably have cartographic experience. Commencing salary in each case will be fixed according to qualifications and experience. Posts are superannuable. Five-day week. Applications with names of two referees to County Planning Officer, County Hall, Maidstone, by 28th February, 1961. 5882

NEWCASTLE REGIONAL HOSPITAL BOARD
ARCHITECTURAL DEPARTMENT
P. H. KNIGHTON, M.B.E., A.R.I.B.A.,
REGIONAL ARCHITECT
H. GOUGH, F.R.I.C.S.,
CHIEF QUANTITY SURVEYOR
QUANTITY SURVEYING STAFF
The Board has decided to establish a Quantity Surveying section within the Regional Architect's Department and under the supervision of its Chief Quantity Surveyor. The posts offer excellent opportunities for taking part in a wide, varied and interesting field of Hospital Building. Cost Planning will be carried out within the Department, and will enable the Quantity Surveyors to take an active and personal part in implementing the Region's hospital expansion programme. Applications are invited for the following (superannuable) posts, for which a car mileage allowance will be paid.
1. SENIOR ASSISTANT QUANTITY SURVEYORS (2) Scale—£1,300-£1,600.
Applicants must be Corporate Members of the Royal Institution of Chartered Surveyors. Assistance with removal expenses will be given if the appointee is at present in a lower-graded Health Service Post.
2. QUANTITY SURVEYING ASSISTANT (1) Scale £625-£900.
Applicants must have passed the Intermediate Examination of the Royal Institution of Chartered Surveyors. Increments can be given above the bottom of the grade in accordance with age and relevant practical experience.
3. TRAINEE QUANTITY SURVEYOR (1).
The commencing salary will be in accordance with age, i.e., £250 per annum at age 16 years, £275 at age 17 years, £320 at age 18 years. Training will be given with a view to the appointee taking the examinations of the Royal Institution of Chartered Surveyors. Applicants must hold a G.C.E. with passes in five subjects, which must include Mathematics and English Language. Three of the passes must have been obtained simultaneously. Details of training, qualifications, experience, present salary, etc., with the names of three referees, should reach the Secretary to the Board, Benfield Road, Newcastle upon Tyne, 6, not later than 3rd March, 1961. Canvassing will disqualify. 5892

CORPORATION OF LONDON
Applications invited for temporary appointment of **ASSISTANT ARCHITECT** in City Engineer's Office. Salary £1,195 p.a. Approximate duration two years. Candidates should have had good general experience in preparation of working details and have passed the Intermediate R.I.B.A. Applications, stating age, appointments held and experience, with names of two referees, to The City Engineer, Guildhall, E.C.2. 5847

BARBOUR INDEX 500 GUINEA COMPETITION ON TECHNICAL LITERATURE

ARCHITECTS frequently comment on the need for improved technical literature. The object of this Competition is to give architects an opportunity to consider and express their ideas on the aim, content and use of manufacturers' catalogues and leaflets, and so to help manufacturers produce improved technical information.

RULES AND CONDITIONS

1. ELIGIBILITY

The Competition is open to all Architects and Architectural Assistants working or registered in the United Kingdom.

2. AWARDS

A total of 500 guineas in Prize Money will be awarded as follows:-

- 1st Prize — 250 guineas
- 2nd Prize — 100 guineas
- 3rd Prize — 50 guineas
- 4 Prizes of 25 guineas

3. SUBJECT

Competitors are invited to:-

a) Describe briefly (approximately 750 words) the factors and principles to be considered in the production of manufacturers' technical literature, taking into account its content, design and use by Architects, Consultants, Quantity Surveyors, Contractors and Merchants. In so doing, consider the technical information required by each at various stages, and its presentation for easy reference without excessive cost or complication.

b) i) Select any one existing building product. Analyse the problems involved in producing for it an item of manufacturers' literature, conforming with all the factors and principles previously described.

ii) Illustrate this analysis with no less than four sample pages of a catalogue or leaflet for the product, in sufficient detail to demonstrate all the factors involved.

4. NOTES ON REQUIREMENTS

a) Entries will be judged on the aptness and practicability of the factors and principles listed, and on the skill of the entrant in applying them to the selected subject.

b) The sample pages of the leaflet or catalogue will be assessed:-

i) From the point of view of their convenience and usefulness to architects and other users;

ii) From the point of view of their practicability to manufacturers, including suitability for printing.

c) The technique of presentation is at the discretion of the competitor.

BARBOUR INDEX LIMITED

81 Charlotte Street, London, W.1.

GERrard 5436

It should be emphasised that the subject chosen must be such as to demonstrate adequately all the factors and principles involved. Note also that certain products require more information than others—e.g. those with many possible applications—and this may raise additional problems of content and presentation.

d) The sample pages must be on one side only of International A4 size paper (11.7 x 8.3in.).

e) Written and illustrative information on the sample pages should be carefully related. As it is intended to exhibit winning and other entries of merit, a reasonable standard of draughtsmanship is called for in any drawings, but highly-finished art-work is not required. The use of colour, tones, symbols, referencing, etc. is at the discretion of the competitor.

f) Written matter other than on sample pages must be typed on one side only of plain white paper, and should be kept as brief as is compatible with an adequate explanation of the subject.

5. JUDGES

The Competition will be judged by the following:-

Mr. D. E. E. Gibson, C.B.E., D.C.L., F.R.I.B.A. Director General of Works, War Office.

Mr. Howard V. Lobb, C.B.E., F.R.I.B.A., A.M.I. Struct. E.

Mr. Dargan Bullivant, A.R.I.B.A., Architects' Journal Research Fellow on Information.

Mr. P. Talbot-Smith, Director, The U.A.M. Group of Companies.

Mr. R. N. Smith, Director, William Newman & Sons Ltd.

6. EXHIBITION

An Exhibition will be held after the completion of the Competition. Entries cannot therefore be returned and Barbour Index Ltd. shall have the right to publish and exhibit any designs or other entry material as it sees fit. All other rights in the entries shall be reserved to their authors.

7. HOW TO ENTER

Entries, together with a completed entry form, should be sent unfolded and suitably protected to:-

"Competition",
Barbour Index Ltd.,
81 Charlotte Street,
London, W.1.

All written matter, designs, and drawings must be submitted without name, pseudonym, or distinguishing mark of any kind. The entry form shall be signed, sealed in a plain envelope, and securely attached to the entry. On receipt of the entry a number will be placed on each item and on the envelope. The envelope will not be opened until after the judging has been completed. Additional entry forms may be obtained from the above address. There is no entry fee.

8. CLOSING DATE

Closing date for receipt of entries is Friday, April 28TH 1961.

9. RESULTS

All prize winners will be notified by post, and a full list of awards will be published in the architectural press in June 1961. A Presentation of Awards will take place, details of which will be announced.

10. The decisions of the Judges shall be final and legally binding. No correspondence or communication will be entered into. No responsibility will be accepted for entries lost, delayed, undelivered, or mislaid in the post. Barbour Index Ltd. shall be at liberty to withhold any or all of the awards if, in the opinion of the Judges, the entries submitted do not show sufficient merit or do not comply with the conditions.

ENTRY FORM

See Rule 7
"How to enter"

NAME _____

ADDRESS _____

Please use Block Letters

Name of office, practice etc. _____

Date _____

Signature _____

AJ2

DURHAM COUNTY COUNCIL
ARCHITECTS' DEPARTMENT
QUANTITY SURVEYING ASSISTANTS—must be A.R.I.C.S. Salary £1,140 to £1,310 p.a. Particulars from the County Architect, South Street, Durham, to whom completed application forms are returnable by 28th February, 1961. Personally canvassing the members of the Council is prohibited, and the Council may declare any candidate infringing this rule to be disqualified for appointment.

J. K. HOPE,
Clerk of the County Council. 5861

CITY OF CANTERBURY
SENIOR ASSISTANT ARCHITECTS
A.P.T. III/IV (£960—£1,310)
Applications are invited for the above appointments in the Department of the City Architect and Planning Officer. Commencing salary according to ability and experience.

The successful candidates will be engaged on one of the following:
Housing, General Works, Public Buildings, Education.
Housing accommodation will be made available if required.

Applications, with names of two referees, to the City Architect and Planning Officer, J. L. Herbers, F.R.I.B.A., A.M.T.P.I., by Saturday, 4th March, 1961.
Canvassing will disqualify.

J. ROYLE,
Town Clerk.

Municipal Buildings,
Canterbury. 5891

CITY AND COUNTY OF NEWCASTLE UPON TYNE

CITY ARCHITECT'S DEPARTMENT
A unique opportunity exists in this office for competent Architects to take part in one of the most ambitious programmes of varied building works in the country, and vacancies in the establishment occur for ARCHITECTS who will be considered on their ability in design, experience, and architectural outlook, in the following grades:—

J.N.C. "C": £1,560—£1,825 per annum.
J.N.C. "R": £1,410—£1,670 per annum.
A.P.T. V: £1,310—£1,480 per annum.
A.P.T. IV: £1,140—£1,310 per annum.
A.P.T. III: £960—£1,140 per annum.
A.P.T. II: £815—£960 per annum.
A.P.T. I: £645—£815 per annum.

The Department is engaged upon a wide and varied programme of major redevelopment schemes embracing multi-storey flats, shopping precincts and associated community buildings, one of which schemes is the Scotswood Road Redevelopment Area to rehouse approximately 5,000 people, and which is expected to cost in the region of £12 million.

Planning work has now commenced on the new Education Precinct in the central area, comprising Colleges of Further Education, Art and Industrial Design, Drama, Commerce, and Multi-storey Hostels, which will be the largest development of its kind in the country.
Further projects include: Airport Terminal; Abattoir and Fatstock Market; Vegetable Markets, Central Library; and Divisional Police Headquarters, etc., and a varied programme of normal housing development of a stimulating character.

The department is also engaged on the New Town Hall, where an exceptional opportunity is presented for working on a building of some £4 million in value, and being executed in materials of the highest quality.

Architects wishing to take part in one of Britain's most stimulating programmes should apply immediately for further details and forms of application to George Kenyon, A.R.I.B.A., A.M.T.P.I., City Architect, 18, Cloth Market, Newcastle upon Tyne 1, indicating the grade for which they wish to apply.

JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1.
7th February, 1961. 5817

STEVENAGE DEVELOPMENT CORPORATION
Applications are invited for the post of **ASSISTANT LANDSCAPE ARCHITECT**, in the Chief Architect's Department on New Towns' Salary Grades A.P.T. II/III—£815/£1,140, according to experience and qualifications.

The work entailed is of an interesting nature and includes the treatment of Radburn type housing development amongst other projects.
Candidates should have passed the Final Examination I.L.A. and be experienced in the layout of open space in housing areas.

Housing accommodation will be available in due course in an appropriate case.

Applications, giving full details and names of two referees, to be sent to the Chief Administrative Officer, Daneshill House, Daneshill, Stevenage, not later than Tuesday, 21st February, 1961. 5830

ARCHITECTS required by the National Coal Board in Edinburgh. Salary within the scale £900 to £1,250 per annum. Applicants must be Associate Members of the R.I.B.A. (or if not yet qualified, may be appointed in the first place as Architectural Assistants in a salary scale £655 to £935, or if exceptionally experienced to £1,100). Applications, stating age, education, qualifications, experience, present post and salary, to Staff Department National Coal Board, 3, Eglinton Crescent, Edinburgh, 12. 5738

NORTHUMBERLAND COUNTY COUNCIL
COUNTY PLANNING DEPARTMENT
Applications are invited for the following posts in the County Planning Department:
(a) **CHIEF ASSISTANT ARCHITECT—J.N.C. Scale "A"** (£1,380—£1,565).

The successful applicant will be in charge of the Design Section in the Department. The work is very varied including the development of the first new self-contained township for Tyneside and the redevelopment of industrial areas and market towns.

It is essential that the applicants should be first-class designers and experienced in planning work. Applicants should be Members of the Royal Institute of British Architects and/or Town Planning Institute.

(b) **SENIOR PLANNING ASSISTANT (Estates)**—J.N.C. Scale "A" (£1,380—£1,565).

This is a new post in the department to deal with the planning aspects of estate development in connection with the carrying out of comprehensive development area schemes including the building of new townships and the rebuilding of central areas. Applicants should have had previous experience in this type of work and hold suitable professional qualifications.

The salary for each post will be fixed according to previous experience and ability. Application forms are obtainable from the County Planning Officer, County Hall, Newcastle upon Tyne, 1, and must be returned not later than the 4th March, 1961. 5839

HERTFORDSHIRE
COUNTY ARCHITECT'S DEPARTMENT
ASSISTANT ARCHITECTS: Salary £960—£1,480 p.a.

Candidates should be registered Architects. Starting salary according to experience. Car allowances for senior posts.

TECHNICAL ASSISTANTS: Salary £645—£1,140 p.a.

Candidates should be good draughtsmen with a sound knowledge of modern building construction. Salary according to experience and ability. Day release for approved training.

All posts are permanent and pensionable and previous Local Government experience not essential. Write or telephone for appointment to Geoffrey Fardell, M.B.E., A.R.I.B.A., County Architect, County Hall, Hertford (Hertford 4242 Extension 205). 5840

LONDON COUNTY COUNCIL
ARCHITECT'S DEPARTMENT
MODERNISATION SECTION—GENERAL DIVISION

Vacancies exist for:—

(1) **AN ARCHITECT or BUILDING SURVEYOR, Grade II** (salary up to £1,500). The selected applicant will be fully responsible for a balanced group of 6-7 assistants working mainly on the complete internal replanning and modernisation of the older blocks of Council flats and the conversion of cold drying rooms into flats and hot drying rooms (approximately £150,000 work per group per year).

(2) **ARCHITECTS and BUILDING SURVEYORS** for surveying existing buildings, preparing sketch schemes, working drawings and specifications, and supervising works in progress, in connection with the above programme (jobs up to £100,000). Applicants should have an interest in this type of work and the ability to act on their own judgment since each will carry his own job through from survey to completion. Salaries up to £1,250.

Forms and particulars from Hubert Bennett, F.R.I.B.A. (EK A 395/2) Architect to the Council, County Hall, S.E.1, returnable by 3rd March. 5825

MINISTRY OF HEALTH: HOSPITALS RESEARCH AND DEVELOPMENT UNIT
Applications are invited from Registered ARCHITECTS (men and women) for two Basic Grade unestablished posts in London for a period of at least twelve months.

Applicants should have experience of client-architect briefing, collaboration with engineers, manufacturers, or research organisations in the development of new techniques or specialist services, and of design cost data. No previous hospital building experience necessary.

Duties include examination of current schemes and collation of past and current experience in the planning, design, construction and building costs of hospital and other health buildings; the production of Hospital Building Notes and the design of buildings for development purposes.

Salary: £991—£1,490. Commencing salary dependent on age, qualifications and experience. Five-day week.

Applications (two copies), stating nationality, date of birth, qualifications, experience, present appointment and three referees, to the Director of Establishments and Organisation, Ministry of Health, Savile Row, London, W.1, by 1st March, 1961. 5832

COUNTY BOROUGH OF EAST HAM
SENIOR ASSISTANT PLANNING OFFICER
GRADE A.P.T. II—£815 to £960 (plus London weighting)

Vacancy in Borough Engineer's Department. Salary above minimum payable according to qualifications and experience.

A subsistence allowance may also be paid over a reasonable period to the person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Further details and application form (returnable within 10 days) from the Town Clerk, Town Hall, East Ham, E.6. 5818

METROPOLITAN POLICE
RECEIVER'S OFFICE
Applications are invited for the following positions in connection with the design and creation of Police Housing, Police Stations, Single Men's Hostels, Cadets' Residential Training Centres and Magistrates' Courts within the Metropolitan Police District.

ASSISTANT ARCHITECTS
Salary: £991 p.a. rising annually to £1,490 p.a. (Maximum salary on entry £1,318 p.a.)

Qualifications: Must be registered Architects.

LEADING ARCHITECTURAL ASSISTANTS
Salary: £1,048 p.a. rising annually to £1,220 p.a.

Qualifications: Intermediate R.I.B.A., H.N.C. or equivalent.

ARCHITECTURAL ASSISTANTS
Salary: £658 p.a. at age 21 rising annually to £1,048 p.a. (Maximum salary on entry £960 p.a. at age 25 or over.)

Qualifications: O.N.C. Intermediate R.I.B.A., or equivalent.

TECHNICAL ASSISTANTS III
Salary: £752 p.a. at age 21 rising annually to £1,045 p.a. (Maximum salary on entry £939 p.a. at age 28 or over.)

Qualifications: Intermediate R.I.B.A./R.I.C.S. (Building) or equivalent.

J. INNES ELLIOTT,
B.Arch., F.R.I.B.A.,
Chief Architect & Surveyor.

Apply to: Chief Clerk, Architect & Surveyor's Department, New Scotland Yard, S.W.1. 5833

MINISTRY OF HOUSING AND LOCAL GOVERNMENT require temporary **PLANNING OFFICER** to assist in preparing review of current practice in town building at home and abroad. Candidates, skilled at producing drawings and sketches for publication, must be corporate members of Town Planning Institute with minimum three years' recent practical experience in town and country planning. Also, be registered Architects, corporate members of an appropriate professional body, or have minimum 2nd class honours degree (or equivalent) in an appropriate subject. Salary scale £1,425—£1,835. Forms from Ministry of Labour, Technical and Scientific Register (K), 26, King Street, London, S.W.1, quoting J.419/OA. Closing date 2nd March, 1961. 5815

YORKSHIRE ELECTRICITY BOARD
No. 4 (LEEDS) SUB-AREA
GENERAL ASSISTANT ENGINEER
(DRAUGHTSMAN—CIVIL)

Applicants should have had a good general and technical education, to at least Ordinary National Certificate standard.

The duties will include the preparation, under supervision, of working drawings in respect of substations, building alterations, etc., and the making of site surveys.

Candidates must have had previous drawing office experience.
Salary: N.J.B. Class I, Grade 16 (Scale 4)—£765/£870 per annum, or Class I, Grade 17 (Scale 3) £715/£805 per annum according to experience and ability.

Applications, with the names of two referees, should be sent to the Manager, No. 4 (Leeds) Sub-Area Yorkshire Electricity Board, Bramhope, Leeds, not later than 24th February, 1961. 5809

THE CULHAM LABORATORY
for Research into Controlled Thermonuclear Reactions now being built at Culham, Oxford, Abingdon, Berkshire, requires an **ARCHITECTURAL ASSISTANT** to prepare working drawings and plans for works of alteration and minor new works.

Applicants should preferably be of Intermediate R.I.B.A. standard, and have had not less than three years' practical experience gained in assisting in the planning and design of buildings and the setting out and inspection of site work. Time spent in the full time study of architecture at a recognised educational institution may be counted in full towards this period.

Salary: £619 (at age 21)—£1,020 per annum. Housing and contributory superannuation schemes.

Send a postcard for application form to:—
The Personnel Officer (CAP/40/119),
Culham Laboratory,
A.E.R.E. Harwell,
Berkshire. 5805

FIFE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT
Applications are invited for the undernoted posts:—

(a) **QUALIFIED ARCHITECTS**—Salary Scale £1,096/£1,566 per annum.

(b) **ARCHITECTURAL ASSISTANTS**—Salary Scale Admin. Grades "A" and "B," i.e., £915/£1,055 per annum.

(c) **DRAUGHTSMEN**—Salary Scale £640 rising to £975 per annum.

Candidates should have contemporary outlook and for post (a) should be Associates of the R.I.B.A. Housing accommodation may be available. Superannuation Scheme. Applications, stating post applied for, details of age, experience, qualifications, present position and salary, accompanied by copies of recent testimonials, by 3rd March, 1961, to the undersigned. No canvassing.

MATTHEW POLLOCK,
County Clerk.

County Buildings,
Cupar, Fife. 5822

County Borough of Northampton

NEW MUNICIPAL OFFICES

Two Senior Assistant Architects

are required for a period of about three years to work upon the design and supervise the contract for this major project comprising offices and shops estimated to cost about £300,000 on a site adjoining the Guildhall.

Salary up to £1,600 according to qualifications and experience.

Further details and application forms, returnable by 1st March, from Borough Architect, Guildhall, Northampton.

CIBA (A.R.L.) LIMITED

have a vacancy for

A BUILDING DRAUGHTSMAN

He will be required for work associated with new buildings and the modification to existing structures. O.N.C. in Building would be an advantage, but some practical drawing office experience is essential.

Commencing salary will depend on qualifications and experience and will be reviewed annually.

Working conditions are excellent. Staff benefits and salaries compare very favourably with other companies. The factory is located in a pleasant country village eight miles outside of Cambridge: a free bus service is operated from Cambridge and Sawston.

Applicants should write to the **Personnel Manager, CIBA (A.R.L.) Limited, Duxford, Cambridge**, giving full details of age, experience and present salary.

LAING

LAING DEVELOPMENT COMPANY LIMITED

requires
QUALIFIED ARCHITECTS
skilled in design

*Apply with brief details to
Personnel Manager (L.D.A.4).*

LAING DEVELOPMENT COMPANY LIMITED
65 Watford Way, London, N.W.4

MSL

have been retained to advise on the appointment of

CHIEF ARCHITECT

for a residential estate development company in the home counties which builds some 2,000 houses and flats a year in the south and west and plans soon to extend its activities. He will take over a department of about a dozen which it is intended to increase and he will answer to a director.

Preferably aged 40 to 45, although up to 50 will be considered, the successful applicant will have an R.I.B.A. qualification and extensive experience of domestic architecture including estate development and multi-storied flats. It is also desirable that he will have experience of commercial developments including medium-sized office blocks and shops.

Starting salary up to £3,000, according to experience, plus generous discretionary bonus and car. Top hat pension added to contributory scheme after six months. Please send brief details in confidence quoting reference YT.4109 to A. Shaw Maclaren.

MANAGEMENT SELECTION LIMITED,
17 Stratton Street, London, W.1.

In no circumstances will a candidate's identity be disclosed to our client unless he gives permission after a confidential interview at which he will be given full details of the appointment.

WIMPEY

The Architect's Department's current programme covers all types of commercial, industrial and domestic building projects. Appointments are available for a wide range of experience particularly for

ARCHITECTS and ASSISTANTS

who appreciate the contribution good design can make towards efficient construction and are interested in applying cost knowledge to detailing.

Appointments on a permanent basis are immediately available at Head Office with good progressive salaries for the right man. Five-day week; three weeks' annual holiday.

Similar appointments are also available in our Regional Offices for applicants preferring to work in the Midlands or North of England areas.

Applicants should write to:

E. V. Collins, A.R.I.B.A.,

Chief Architect, **GEORGE WIMPEY & CO., LIMITED**,
27 Hammersmith Grove, London, W.6.

Land Surveying Staff

WATES LIMITED

SENIOR ASSISTANT LAND SURVEYOR (Ref. L.S. 1)

to control and supervise work of surveying assistants in the field, including directing operations; to help in the preparation of housing layouts, and road and sewer drainage, etc., details; and also organise and control the setting out of building and civil engineering contracts.

ASSISTANT LAND SURVEYOR (Ref. L.S. 2)

capable of completing survey traverses of land for development, level grids, details for preparation of housing layout, roads and sewer details, including the neat and accurate plotting of the surveys and other site investigations and setting out of building and civil engineering projects. Age up to 30.

Salary for these posts, which are permanent and progressive, is commensurate with qualifications and experience. Superannuation, profit sharing bonus and other attractive benefits long established as part of our employment policy. Write fully stating age, details of positions held in chronological order and present salary to Personnel Manager at 1260 London Road, Norbury, S.W.16.

ARCHITECTURAL ASSISTANT

'ENGLISH ELECTRIC'

¹ invite applications for an appointment as an Architectural Assistant. The post offers interesting and varied work on current office laboratory and industrial expansion at present being carried out by the Architects Department at Whetstone near Leicester. The successful applicant will be of Intermediate R.I.B.A. standard, able to use his initiative and work with a minimum of supervision and have sound knowledge of design and construction. Previous industrial experience is not essential although it would be an advantage.

The Works are situated in rural surroundings with transport facilities available to the Leicester and Rugby areas.

The post offers good prospects to the right man and is permanent. Enquiries giving details of age, qualifications, experience and present salary should be addressed to the

TECHNICAL STAFF OFFICER
THE ENGLISH ELECTRIC COMPANY LTD.

Cambridge Road, Whetstone, Nr. Leicester

quoting reference 1819J

BUCKS COUNTY COUNCIL

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

ASSISTANT COUNTY ARCHITECT, J.N.C. Scale "D," £1,710-£1,975 p.a.
ASSISTANT ARCHITECT, J.N.C. Scale "C," £1,560-£1,825 p.a.

TWO ASSISTANT ARCHITECTS, J.N.C. Scale "B," £1,445-£1,670 p.a.
These appointments are 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 6th March, 1961.

F. B. POOLEY,
County Architect.

County Offices,
Aylesbury,
Bucks. 5863

AYCLIFFE DEVELOPMENT CORPORATION

(New Town of Newton Aycliffe)
SENIOR ASSISTANT ARCHITECT

Applications are invited for an appointment of Senior Assistant Architect at a salary in accordance with Grades A.P.T. IV or V of the Whitley Council for New Towns Staff Scales of Salaries, i.e. £1,140-£1,310 p.a. or £1,310-£1,480 p.a. The commencing salary and grade will be fixed according to the qualifications and experience of the successful applicant.

Applicants should be associates of the Royal Institute of British Architects. The principal work for the successful applicant will be in connection with the development of the town centre of the new town.

Appointment subject to N.J.C. Conditions, superannuation, medical examination and to one month's notice, in writing, on either side.

Housing accommodation available, if required. Applications stating age, qualifications and experience together with the names of two referees to be sent to the undersigned.

A. V. WILLIAMS,
General Manager.

Churchill House,
Newton Aycliffe,
Nr. Darlington. 5864

CORNWALL COUNTY COUNCIL

COUNTY PLANNING DEPARTMENT
ASSISTANT PLANNING OFFICER (Architect)

Within Grade A.P.T. V (£1,310-£1,480)
Applications are invited from Associate Members of the R.I.B.A. (with reference to Chartered Town Planners with Local Government experience) for this post which covers a variety of work including Schemes of Urban Renewal.

No application forms are being issued but further details can be obtained from the County Planning Officer.

The customary Conditions of Service will apply and car allowance will be paid. A five-day week is in operation.

Applications, with names of three referees, should be sent to H. W. J. Heck, P.T.P.I., County Hall, Truro, not later than 4th March, 1961.

E. T. VERGER,
Clerk of the County Council. 5865

COUNTY BOROUGH OF PRESTON

APPOINTMENT OF CLERK OF WORKS
Applications are invited for the post of Clerk of Works for the Harris College of Further Education adaptations at a salary of £1,040 p.a. The appointment will be for the duration of the work, which is due to be completed in June, 1963.

Applicants should have had considerable experience in shoring and underpinning of existing buildings during structural alterations.

Applications, stating age, present position and salary, previous positions and details of qualifications and experience, together with the names and addresses of two referees, to be received by me not later than Friday, the 24th February, 1961.

W. E. E. LOCKLEY,
Town Clerk.

Municipal Building,
Preston. 5878

EAST RIDING OF YORKSHIRE COUNTY COUNCIL

ASSISTANT ARCHITECTS, Grade A.P.T. IV (£1,140-£1,310) and A.P.T. Grade III/IV (£960-£1,140).

Applications are invited for the appointment of Assistant Architects on salaries within the above grades in accordance with experience.

Particulars of qualifications, age, experience, past and present appointments with salaries, together with the names of three referees, should be sent to the County Architect, County Hall, Beverley, not later than Saturday, 4th March, 1961.

Assistance towards removal, lodging and travelling expenses may be granted.

THOMAS STEPHENSON,
Clerk of the County Council. 5880

THE ROYAL BOROUGH OF KENSINGTON

ARCHITECTURAL ASSISTANTS—salary £1,005/£1,355 per annum—Borough Engineer & Surveyor's Department. Applicants must be fully qualified. Applications, stating age, qualifications, etc., with names of two referees, to reach Town Clerk, Town Hall, Kensington, W.8, by 28th February, 1961. 5875

CITY OF CHICHESTER

ARCHITECTURAL ASSISTANT

Applications are invited for the above appointment at a salary in accordance with A.P.T. Grade II (£815-£960).

The person appointed should have a good knowledge of building construction, design and draughtsmanship.

The appointment will be in accordance with the National Conditions of Service and terminable by one month's notice on either side.

Housing accommodation will be provided, if required.

Applications stating age, education, qualifications, training and experience, present and previous appointments, together with the names of two referees, should reach the City Surveyor, Greyfriars, North Street, Chichester, by 4th March, 1961.

ERIC RANKS,
Town Clerk.

Greyfriars,
North Street,
Chichester. 5866

BURGH OF HAMILTON

ARCHITECT'S DEPARTMENT

Vacancies exist for ASSOCIATES of the Royal Institute of British Architects (or equivalent qualification) with experience in post-war housing and civic building design, etc., in this Department dealing now with varied and interesting programme including Police H.Q., Public Baths, Branch Library, etc., and central re-development schemes for:—

(a) CHIEF ARCHITECTURAL ASSISTANT

and

(b) ASSISTANT ARCHITECT (new post).

Salary range £850-£1,150 with placing. Superannuation. Medical examination. J.I.C. Conditions. House to let if required.

Applications, containing full particulars of age, qualifications and experience, with names of three referees to Burgh Architect, 56, Brandon Street, Hamilton, by 24th February, 1961.

Canvassing, directly or indirectly, disqualifies. 5862

COUNTY BOROUGH OF SOUTHAMPTON

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT

Applications are invited for the following appointment:—

SENIOR ASSISTANT ARCHITECT, Grade A.P.T. V (£1,310-£1,480), for duties in connection with an extensive and varied programme of housing development including multi-storey flats. Applicants must hold the qualification A.R.I.B.A. with wide experience in the design and administration of major building works.

The appointment is subject to N.J.C. conditions of service.

Housing accommodation available in approved cases and approved removal expenses reimbursable up to a maximum of £50.

Apply on application forms obtainable from the Borough Engineer and Surveyor, Civic Centre, Southampton, returnable by Monday, 6th March, 1961. 5868

CITY OF MANCHESTER

HOUSING COMMITTEE

Applications invited from suitably qualified persons for the following appointments:—

SENIOR ASSISTANT ARCHITECTS, A.P.T. III/IV £960-£1,310 p.a. (Commencing salary in accordance with qualifications and experience.)

The Department has numerous projects on hand including design of multi-storey blocks, and an extensive overspill programme which will give full scope for imaginative and progressive design and planning.

Full particulars, giving details of age, qualifications and experience to be received by the Director of Housing, Town Hall, Manchester, 2, by Thursday, 2nd March, 1961.

Consideration will be given to the provision of housing accommodation for successful candidates. 5867

BERMONDSEY BOROUGH COUNCIL

ASSISTANT-ARCHITECT'S SECTION

Temporary Assistant required for Architect's Section. Applicants must be under 51 years of age and have passed Intermediate Examination of R.I.B.A. or R.I.C.S. and should have experience in surveying old housing properties and preparing conversion and improvement schemes.

Commencing salary at a point in A.P.T. III (£960-£1,140) or IV (£1,140-£1,310) plus London weighting, according to experience. Apply giving details of experience, etc., to Borough Engineer, Municipal Offices, Spa Road, S.E.16. 5789

BEDFORDSHIRE COUNTY COUNCIL

Applications are invited from persons with experience in work of Planning Authority for post of PLANNING ASSISTANT (Development Plan), A.P.T. II (£815-£960). Experience of Town Map work an advantage. Preference given to persons studying for professional examinations. Application form and further particulars from Establishment Officer, Shire Hall, Bedford. Closing date 27th February. 5795

LANCASHIRE COUNTY COUNCIL

PLANNING ASSISTANT required at WIGAN. Commencing and maximum salary according to qualifications and experience within range £645-£1,310 per annum.

Applicants should be studying for or possess a recognised qualification in architecture, surveying, engineering and/or town planning.

Applications, giving age, qualifications, present appointment, experience, etc., and two referees, to the County Planning Officer (S) East Cliff County Offices, Preston, by the 20th February, 1961. 5801

COUNTY BOROUGH OF SMETHWICK

BOROUGH ENGINEER & SURVEYOR'S DEPARTMENT
APPOINTMENT OF SENIOR ASSISTANT ARCHITECT

Applications are invited for the above appointment—salary A.P.T. IV-V (£1,140-£1,480) per annum. The commencing salary will be according to the qualifications and experience of the successful applicant.

The post is subject to the provisions of the National Scheme of Conditions of Service; the Local Government Superannuation Acts 1937-53; the passing of a medical examination and to termination by one month's notice on either side.

Form of application may be obtained from the Borough Engineer and Surveyor, Council House, Smethwick, and should be returned in an envelope suitably endorsed, to reach him not later than 6th March, 1961.

E. L. TWYBROSS,
Town Clerk.

Council House,
Smethwick,
February, 1961. 5803

BOROUGH ARCHITECT'S DEPARTMENT

Applications are invited for the following appointments in this newly-established Department, which has a considerable programme of work of varied interest including housing, Municipal offices and other new public building projects and the maintenance of a wide range of Corporate properties.

ASSISTANT ARCHITECTS (TWO), Grade A.P.T. IV (£1,140-£1,310). Applicants must be Associate Members of the Royal Institute of British Architects.

CHIEF QUANTITY SURVEYOR, Grade A.P.T. V (£1,310-£1,480). Applicants must be Associate Members of the Royal Institution of Chartered Surveyors and be capable of taking charge of this section of the Department.

The successful candidates will be required to pass a medical examination. Five-day week in operation. The Council will be prepared to assist in the provision of housing accommodation, if required, and to contribute towards the cost of removal expenses.

Applications, stating age, qualifications, experience, together with the names of two referees, should be submitted to the Borough Architect, Vinton Hall, A.R.I.B.A., A.M.T.P.I., 64, West Stockwell Street, Colchester, by Friday, 3rd March, 1961.

NORMAN CATCHPOLE,
Town Clerk.

February, 1961. 5850

CORPORATION OF LONDON

CITY PLANNING OFFICE

CIVIC DESIGN SECTION

invite applications for:

(a) PLANNING ASSISTANT, £1,055-£1,310.

(b) PLANNING ASSISTANT, £990-£1,310.

(c) PLANNING ASSISTANT, £630-£1,095.

Starting salaries according to qualifications and experience.

Candidates for (a) should have a Planning or similar degree and experience in preparation of development plans and surveys. Candidates for (b) and (c) should be Architects with a good training and background, preferably Chartered Town Planners.

A progressive and imaginative approach to the problems of redevelopment in the City of London is required. Work in hand includes areas of Comprehensive Redevelopment such as Barbican, St. Paul's and Tower Hill; schemes to direct the course of redevelopment in areas at present built up and architectural work arising from the provisions of the Town and Country Planning Act, 1947, and the Control of Advertisements Regulations.

Local Act Superannuation. Medical examination.

Applications, stating age, experience, qualifications and names of two referees, to City Planning Officer, Guildhall, E.C.2, within 14 days. 5848

ARCHITECTS AND MAINTENANCE SURVEYORS. Pensionable posts for men and women at least 25 and under 35 on 1.1.61 (extension for regular Forces service. Overseas Civil Service, established civil service and temporary Government service as Architect or Maintenance Surveyor). Candidates must be registered Architects or, alternatively for Maintenance Surveyor posts, have achieved Corporate Membership of R.I.C.S. (Building section), or have passed examinations necessary for attaining Corporate Membership. National salary £936-£1,258 according to age, rising to £1,430. Promotion prospects. Write Civil Service Commission, 17, North Audley Street, London, W.1, for application form quoting 8/60-61. 5854

LONDON COUNTY COUNCIL

ARCHITECT'S DEPARTMENT

Applications are invited for the position of ASSISTANT ARCHITECT, General Division—salary scale £1,925 to £2,225. Very varied programme provides interesting opportunity for an architect with organising ability who will be deputy to the Architect-in-charge of the Division.

Programme includes fire stations, warehouses, housing, homes and flats for old people, training colleges, student hostels, furniture and exhibition design.

Further particulars and application form, returnable by 4th March 1961, from Hubert Bennett, F.R.I.B.A. (RCA/401/2), Architect, to the Council, County Hall, S.E.1. 5819

Eight new books on ARCHITECTURE

MY WORK by Le CORBUSIER

Written, designed and supervised by Le Corbusier, this book surveys the great architect's development from his early days to the completion of his latest building. Drawings, used to amplify Le Corbusier's ideas when working, are here used to reinforce his explanatory text. He explains and illustrates the principles governing his work, and his contention that architecture must be integrated with other art forms is reinforced by a wide selection of photographs of great buildings, paintings and sculptures. Size 11½ × 8½ ins. 328 pages. Illustrated throughout. 84s. net, postage 2s. 3d.

New Japanese Architecture

UDO KULTERMANN

Western opinion seems to have built up an image of modern Japanese architecture as something spare, elegant and informal. Dr Kultermann's book shows how different the work of leading Japanese architects has turned out to be. It is an architecture that is not afraid of mass and solidity; not afraid to exploit the gross material qualities of wood, stone and concrete; not afraid of bold plastic forms; not afraid to mate advanced technology with hallowed traditionalism. All these qualities are brought out in dramatic photographs, backed by analytical texts and biographies of some two dozen leading architects.

Size 11½ × 8½ ins. 212 pages. 180 half-tone illustrations. 63s. net.

Theory and Design in the First Machine Age

REYNER BANHAM

In the first thirty years of this century, architects made a tremendous effort to adapt their art, and to create a new climate of ideas. Dr Banham's subject covers theoretical writings, buildings, projects, industrial designs, paintings and sculptures. He shows how one unifying theme finally emerges: the architecture of the International Style. Into its growth went many designs, which the author illustrates and analyses; many publications, from the scholarly to the scandalous, from which he quotes extensively, showing the relationship between theories, theorists and products. Size 9 × 5½ ins. 340 pages, over 150 half-tone and line illustrations. 45s. net, postage 1s. 9d.

Design and Detail of the Space between Buildings

ELISABETH BEAZLEY

Few good examples of paving, walling and fencing are being built to-day. One reason for their rarity may be that the available information on materials and details is now widely scattered, and much time is wasted in long searches. This handbook sets out to collect all information from all sources, to assess the character, availability and wearing qualities of materials, the relative merits of constructional methods, and to help the planner avoid incongruities of detail.

Size 10 × 7½ ins. 230 pages. 130 half-tone and 85 line illustrations. 42s. net.

Antoni Gaudi

JOSEP LLUIS SERT & JAMES J. SWEENEY

For too long the great Spanish architect Antoni Gaudi has been regarded merely as an eccentric, and the significance of his contribution to architecture has been misunderstood. The authors trace Gaudi's life and work from his days as a student to his death in 1926. The picture emerges of a wholly sincere architect-builder who lived only for his work; we are reminded of Gaudi's constant reference to nature, his preoccupation with structural principles, his habit of making models which showed him what stresses his buildings would have to bear. Photographs, some in colour, and detail drawings, show how richly Gaudi's work deserves attention. Size 11½ × 8½ ins. 184 pages. 184 half-tone illustrations, 13 in full colour. 73s. 6d. net.

The Landscape of Roads

SYLVIA CROWE

In the next three years £230 million will be spent on British roads. This book clearly and forcefully demonstrates the disastrous effect on the landscape when roads are treated purely as an engineering problem. Text, drawings and photographs together show how the skills of a combined team of experts can produce roads which fit the landscape, are far pleasanter to use and do not necessarily cost any more to build.

Size 9 × 5½ ins. 70 half-tone illustrations, 18 drawings. 18s. 6d. net, postage 1s.

Lettering on Buildings

NICOLETE GRAY

This is the first book to deal with lettering as applied to all kinds of buildings. The author is an internationally acknowledged authority. She first examines and illustrates the history and development of letter forms and then outlines a new way of looking at problems and possibilities. Her approach is illustrated by many examples of lettering *in situ*; and she thus demonstrates how present-day architects and designers can tackle the task of integrating lettering with all kinds of buildings.

Size 9 × 5½ ins. 192 pages with 270 half-tone and line illustrations. 25s. net, postage 1s. 2d.

Architects' Working Details Volume VII

EDITORS: D.A.C.A. BOYNE & LANCE WRIGHT, A.R.I.B.A.

This seventh volume returns to English examples. The series aims firstly to provide architects and students with easily accessible solutions to everyday design problems, and secondly to record the latest stages reached in the study of these problems, thus providing a starting point from which architects can develop their own improvements. Each detail is illustrated by a large photograph facing the relevant working drawing.

Size 12 × 8½ ins. 160 pages. 148 half-tone and line illustrations. 25s. net, postage 1s. 9d.

The Architectural Press, 9-13 Queen Anne's Gate, London S.W.1

METROPOLITAN BOROUGH OF ISLINGTON BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT

Applications are invited from persons not more than 50 years of age for the following appointments on the permanent staff:—

- (a) TWO SENIOR ARCHITECTURAL ASSISTANTS—Grade A.P.T. V., £1,310 £1,480 p.a.
- (b) TWO ARCHITECTURAL ASSISTANTS—Grade A.P.T. III, £950 £1,140 p.a.

All plus appropriate London weighting.
Applicants for:—
(a) Should be Associate Members of the R.I.B.A. with considerable experience including the design and construction of multi-storey housing.
(b) Should have passed the Intermediate Examination of the R.I.B.A. and be suitably experienced.

Application forms, returnable by first post on Tuesday, 7th March, 1961, obtainable from the Borough Engineer and Surveyor, Town Hall, Upper Street, N.1.

H. DIXON CLARK,
Town Clerk.
5823

Tenders Invited

36s. per inch; each additional line 3s.

CITY OF OXFORD

TENDERS FOR BUILDING CONTRACTS

THE City Council intends to carry out the following building works:—
1. North Oxford Secondary School, being a three form entry school in traditional construction partly framed in situ reinforced concrete. The site is in Marston Ferry Road, Summertown, Oxford.

2. Extensions to Bayswater School, Headington, Oxford, consisting mainly of a separate two-storey block in traditional construction.
3. Extensions to Headington Secondary School, Margaret Road, Headington, Oxford, in traditional construction.

In item (1) fluctuations will be taken into account in respect of labour only, but items (2) and (3) will be fixed price contracts and fluctuations will not be taken into account in respect of labour and materials.

Contractors wishing to tender should submit their names not later than 24th February, 1961, to the City Architect and Planning Officer, Town Hall, Oxford.

Bills of Quantities should be available during the latter half of February or early in March.

HARRY PLOWMAN,
Town Clerk.
5870

Architectural Appointments Vacant

3s. per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

HOWARD V. LOBB & PARTNERS require ASSISTANT ARCHITECTS. Salaries would be between £750 and £1,250 per year. Please write to 20, Gower Street, London, W.C.1. 3640

RONALD WARD AND PARTNERS invite applications from ARCHITECTS, Senior and Junior. Long-term prospects. Scope for initiative and responsibility in interesting commercial, industrial and civic projects in British Isles, West Africa and Australia. Salaries commensurate with ability. Non-contributory Pension and Life Insurance schemes. Five-day week. Pleasant offices. Apply 25, Chesham Place, Belgrave Square, London, S.W.1. Tel.: BELgravia 3361. 2960

ASSISTANT ARCHITECTS required for staff. A new office opening in Southampton for work on interesting projects including University, War Department and Ecclesiastical programmes. Juniors also required. Apply stating age, qualifications, experience and salary required to Robert Potter, F.R.I.B.A., & Richard Hare, B.Arch., A.R.I.B.A., De Vaux House, Salisbury. 3167

BASIL SPENCE & PARTNERS require qualified and experienced ARCHITECTS to fill positions of responsibility on a major building programme. Write to 1, Fitzroy Square, W.1, stating experience and salary required. 9824

£1,000 experienced competent ARCHITECTS by a private practice in the City of London. The work will be primarily on the drawing board on new and interesting projects of magnitude. A high standard of design and detailing ability is required. Please apply in writing to Box 9360.

SENIOR ASSISTANTS required immediately. Salary by arrangement. Theo. H. Birks, 38, Portland Place, London, W.1. LAN 7236. 1486

BOOTH, LEDEBOER AND PINKHEARD require ASSISTANTS in the salary range £750-£1,250. Apply 17-20, Mason's Yard, Duke Street, St. James's, S.W.1. Tel.: TRAFalgar 1966. 3139

INTERMEDIATE to Final ASSISTANTS required immediately. Salary according to ability and experience. Theo. H. Birks, 38, Portland Place, London, W.1. LAN 7236. 9739

EXPERIENCED ARCHITECTURAL ASSISTANTS required for busy West End office. General practice but mainly office and commercial projects. Bernard Gold & Partners, 4/6, Savile Row, W.1. REGent 7551. 3742

C. H. ELSOM & PARTNERS need experienced ARCHITECTS for a wide range of public and commercial projects. VICTORIA 4304, 10, Lower Grosvenor Place, W.1. 4271

SENIOR ASSISTANT ARCHITECTS required immediately for a wide variety of interesting work. Applicants should be experienced in all aspects of modern building design and construction. Attractive remuneration to right men capable of working on own initiative under ideal conditions for self-expression. Preference given to men over 45 years of age, although all applications will be considered on merit irrespective of age. Applications should be made in writing to Kenneth F. Masson, Esq., A.R.I.B.A., Chief Architect, S.C.W.S. Ltd, Architectural Division, 76, Morrison Street, Glasgow, C.5. 4159

URGENTLY required: SENIOR ASSISTANT capable of supervising contracts and also preparing sketch plans and first class presentation drawings. Please write, giving particulars and salary required, to Box 5457, or telephone MAYfair 3112 to arrange interview.

EXPERIENCED ASSISTANTS required by Architects for responsible positions in West End office. Salaries: £1,000 to £1,500. Apply Box 5461.

LEICESTER, SENIOR ARCHITECTS AND ASSISTANTS required for general practice. Appropriate salary paid. Apply by telephone or in writing for an interview to Herbert, Son & Sawday, 18, Friar Lane, Leicester. Tel. 56476. 5307

BRYAN & NORMAN WESTWOOD & PARTNERS require ARCHITECTS and ASSISTANTS. Salaries up to £1,200. Apply to 21, Suffolk Street, S.W.1, Trafalgar 1106, or 5, Balfour Road, Weybridge, Surrey, 6088. 5281

VACANCY occurs in the West End Branch of large provincial Architectural Practice, for an ASSISTANT at Intermediate standard. The post offers considerable scope on varied projects. Five-day week. Luncheon Vouchers. Write giving particulars of age, experience and salary required to Box 4136.

A QUALIFIED ARCHITECTURAL ASSISTANT required immediately in Home Counties office. Successful applicant will have the opportunity of working on widely varying industrial, commercial and housing schemes. Five-day week. Write full particulars to Box 4136.

INTERMEDIATE to FINAL STANDARD. Expanding practice engaged large scale commercial projects requires ARCHITECTURAL ASSISTANTS with design and supervision initiative. Good salaries according to capabilities. Five-day week. L.V.s. Raymond Spralley & Partners, 9, Hertford Street, Park Lane, W.1. GRO 1532. 4306

SOUTHAMPTON. — ASSISTANT of Intermediate standard required for interesting contracts in the Southern Counties. Apply with details of any previous office experience and required salary to E. M. Galloway & Partners, F.A.R.I.B.A., 10, Portland Street, Southampton. 4865

ERNO GOLDFINGER requires several qualified ASSISTANTS with at least 2 years' experience to take part in a growing programme of interesting work which includes large office buildings, central developments, Local Authority housing, schools and private houses. Good salaries and scope for men with sound knowledge of construction. Phone HYDe Park 5557. 5094

ARCHITECTURAL ASSISTANT, about Intermediate standard, required for general practice in North Devon Office. Would have full charge of branch office. Box 5019.

ARCHITECTS in Watford and London require capable ASSISTANTS with at least three years' office experience for work on interesting commercial and industrial projects. Salary range £800-£1,200 per annum. Non-contributory pension scheme. Apply Box 5148.

BLACKPOOL Pleasure Beach: ARCHITECTURAL ASSISTANT required to work at Blackpool under general direction of Howard V. Lobb & Partners, London. Minimum two years' office experience. Salary about £800 depending on experience. Interesting design and practical experience, with long-term appointment. 5199

ARCHITECTURAL ASSISTANTS required for interesting work, including schools and hospitals, in Croydon office. Commencing salaries offered: £900-£1,150 for Associates, £600-£850 for students, according to age and experience. Five-day week and annual bonus. Write to George Lowe & Partner, 79, George Street, Croydon. 5197

THERE is more to it than drawing, you know! Are you kept pinned to the Drawing Board day in, day out? If so, we can offer you much greater scope in gaining all-round experience and carrying through the varied duties of an ARCHITECTURAL ASSISTANT. Responsibility positively encouraged. Write telling us your experience with the usual particulars; it may well be to our mutual advantage (Box 5168), or telephone MAYfair 9554.

SENIOR ARCHITECT required for executive position to take charge of architectural department of expanding building company in Bristol area. Work consists mainly of new factories, flats and housing projects. Must be fully qualified and have high standard of design. Good salary and prospects. Box 5395.

ASSISTANT ARCHITECTS required by Kenneth Lindy & Partners. Good salaries, varied practice. Every opportunity for initiative and responsibility. 24, St. Mary Axe, E.C.3, or telephone Avenue 6153. 5144

QUALIFIED ARCHITECTS looking for some really interesting new work should apply in writing to George, Trew and Dunn at their new offices, 50, Eastbourne Terrace, W.2. 5205

ARCHITECTURAL ASSISTANT required, with good general experience for varied work mainly industrial and commercial. Write, giving experience and salary required, to Howell, Freeman & Batten, Chartered Architects, Reading. 5134

ASSISTANT required, at least Intermediate standard, to start early summer. L. H. Bond & R. W. Read, 44, Castlegate, Grantham, Lincs. 5136

COOK, CULLING & ILLINGWORTH require experienced ASSISTANT ARCHITECT for busy industrial practice. Pleasant conditions. House available. Apply: Meeting Lane, Gold Street, Kettering. 5384

NORTH & PARTNERS, Chartered Architects, Maidenhead, seek Two New ASSISTANTS:—

(1) Partner's Personal Assistant for general Architectural and administrative duties.

(2) Experienced Architectural Assistant/Architectural Draughtsman for main Drawing Office.

Five-day week. Pension Scheme, etc. State age, experience and salary required. 5492

ROBERT MATTHEW & JOHNSON-MARSHALL have vacancies in their London office for Architects at all levels of experience for a variety of interesting jobs. Apply to Robert Matthew & Johnson-Marshall, 24 Park Square East, N.W.1. 5491

DEVON.—SENIOR ARCHITECTURAL ASSISTANT required for varied and progressive practice. Write to Antony Lamb, A.R.I.B.A., A.M.T.P.I., Ottery St. Mary, Devon, 1. 5393

EXPANDING and progressive development organisation requires the services of an Intermediate ASSISTANT for work in connection with housing and flat development schemes. Experience in layout, planning and design and the preparation of working drawings. Salary according to experience and ability. Pension and luncheon voucher schemes. Apply in writing or telephone for appointment: Chief Building Surveyor, Percy Bilton Ltd., 54/56, Uxbridge Road, Baling, W.5. Telephone number: BAling 7777. 5411

SENIOR ARCHITECTS required to take charge of sections of Drawing Office of busy London Architects. Applicants must have had previous similar experience and only those confidently capable of designing and carrying out projects from sketch plans to completion of contracts need apply. Special consideration will be given to those applicants who have had experience in civic design and comprehensive developments. There are excellent prospects for the right persons as Junior Partnerships would be considered after a satisfactory probationary period. Applications (which will be treated in strictest confidence) should be in writing, stating age, experience, qualifications and salary required to:—
W. Russell Orme & Partners,
55, Manchester Street,
London, W.1. 5413

EDWARD D. MILLS & PARTNERS require additional staff at varying levels for a variety of new work including housing, schools, industrial and churches. Enthusiasm and initiative important. Five day week. Write giving full details to 9-11 Richmond Buildings, Dean Street, London, W.1. 5107

CROYDON. Varied and interesting experience offered in progressive and growing practice to experienced ASSISTANT and JUNIOR. Five-day week. Please write or telephone: L. A. Macintosh & Haines, A/R.I.B.A., 33-35 High Street, Croydon, CRO 5780/9992. 4894

£950-£1,500. ARCHITECTURAL ASSISTANTS with imagination and designing ability required to assist with large and important new developments in the central London Area. Telephone or write: Trehearne & Norman, Preston & Partners, 83, Kingsway, W.C.2. HOLborn 4071. 4934

EXPERIENCED and confident ARCHITECTS required to fill positions of responsibility in a growing and varied practice with industrial and commercial work throughout the southern half of the country. Applicants must have initiative as well as architectural ability to carry through contracts up to £100,000, working directly with Principals but with minimum supervision. Apply in writing to Thomas Mitchell & Partners, 20, Bedford Square, London, W.C.1. 5418

TWO SENIOR ASSISTANTS required. Salary in accordance with experience. Please apply to F. G. Prizzell, A.R.I.B.A., 80, Portman Place, W.1. LANGham 1739. 47

ARCHITECTS' JUNIOR ASSISTANT required. A good draughtsman/drafter, Intermediate standard. Please write, stating age, experience and salary, to: R. Jelinek-Karl, F.R.I.B.A., 6, Buckingham Street, W.C.2. 5714

ARCHITECTURAL ASSISTANTS, Intermediate standard with some office experience, required in the Brighton office of a young, expanding practice. Five-day week. Salary around £900. Write to Box 5716.

ASSISTANT required for small Office with interesting and varied work. Salary £4,900/£1,200.

Green, Lloyd & Son,
5, Pickering Place,
81, James's Street, S.W.1.
Telephone Whitehall 8926. 5706

KENTISH Men or Men of Kent—why work in London when you can join our Chatham office and have more time at home. However, should you prefer "the bright lights," you can work at our West End office. Post vacant—Senior and Qualified, for those who wish and are capable of working on "Architectural and Town Planning" projects. We are now re-expanding—join whilst the opportunity exists. Apply in writing, stating age, qualifications, experience and salary required. Halpern and Associates, Cumberland Chambers, 7, Edgware Road, London, W.2. 5704

PROGRESSIVE opportunities for **ARCHITECTS' ASSISTANTS** are offered by Westminster Bank. Commencing salary £350 to £1,500 with good prospects. Modern London drawing office, favourable house mortgage rates, luncheon club, sports club and other social activities, pensions scheme, fare for interview refunded. Write, stating age, experience and salary required to: The Architect, Westminster Bank Limited, Post Office Court, 10, Lombard Street, E.C.3. 5708

LOUIS DE SOISSONS, PEACOCK, HODGES, ROBERTSON AND FRASER require experienced **ASSISTANTS** for work on a wide range of projects; good salaries will be offered to suitable applicants. Applications, giving details of age, training and experience, should be sent to 12, Baring Crescent, Exeter. 5698

QUALIFIED SENIOR ARCHITECTURAL ASSISTANT and **JUNIOR** required in one of the most delightful towns in the country. Applicants should be genuinely interested in a varied private practice, the work including Schools, Hospitals, Banks, Shops and Housing. Bonus and Pension Schemes in operation. Salary according to ability. Excellent prospects. Apply in confidence to Messrs. F. J. Lenton & Partners, A/R.I.B.A., 16, Broad Street, Stamford, Lincs. 5690

NEWCASTLE UPON TYNE
ARCHITECTS required, all grades, salaries up to £1,200 p.a. Five-day week, staff pension scheme, car allowances. To work on large programmes of schools, multi-storey flats, housing, shopping and development schemes, etc. Write or phone: Waring & Nettis, 36, Jesmond Road, Newcastle upon Tyne, 2. 5691

REQUIRED in expanding office engaged on City Centre Development, Multi-Storey Flats, Housing, Hospitals, Commercial and Industrial Work. Excellent prospects for advancement. Exceptionally good working conditions. Five-day week. Private Pension Scheme. Salary to £1,500, according to experience. Please write to Leonard J. Multon & Partners, 6, Greenfield Crescent, Birmingham, 15, or telephone Edgbaston 4188. 5718

BOOTS, ASSISTANT ARCHITECTS, ARCHITECTURAL ASSISTANTS. During the coming years, in addition to the vast programme of rebuilding or extending our retail branches, new industrial projects will be commenced. The Architects Department headed by Mr. C. St. C. Oakes, M.B.E., F.R.I.B.A., is responsible for the whole of this work which, besides retail premises, includes laboratories, office buildings, warehouses, chemical and other production units and ancillary buildings. Vacancies exist with this Department for Assistant Architects and Architectural Assistants to work on industrial projects. These positions are permanent and pensionable and a five-day week is in operation. Applications should be sent, giving full details, to the Personnel Manager, Boots Pure Drug Co. Ltd., Station Street, Nottingham, quoting reference No. A.J.2. 5739

TOP grade ARCHITECTS and ASSISTANTS required urgently for Midland offices. Applicants must have a progressive outlook and be willing and able to accept responsibility. Salary range £700—£1,400. Further particulars on application. Box 5662.

BRISTOL. Architects opening new branch office in April require the following professional staff: An **ARCHITECT** with at least 5 years' practical experience of carrying out duties from interviewing client, preparing working drawings and supervising work on site, at a salary in the range of £1,300 p.a.

2 **ASSISTANT ARCHITECTS**, preferably having passed the intermediate examination, at a salary in the range of £850 p.a. In both cases, a larger sum will be paid for exceptional capabilities. These positions offer great scope for advancement, and applicants should be keen and anxious to improve their status in the profession. The firm offers a 5-day week, Luncheon Vouchers, and holiday arrangements for this year will be honoured. Apply in the first instance to Gough & Partners, 25, Regency Square, Brighton. 5702

GOUGH COOPER & COMPANY LIMITED

ASSISTANT ARCHITECT
Experience in domestic design and estate layout an advantage. Excellent opportunity for a qualified man seeking a position of responsibility in an expanding office. Salary £1,150 p.a. rising to £1,250 after probation. Pension Scheme. Staff canteen. Apply in writing to:
Chief Architect,
Gough Cooper & Co. Ltd.,
Wilmington House,
Wilmington, Dartford, Kent. 5731

ATCOST (FACTORIES) LIMITED. Chief Architect Mr. Donald Tucker, A.R.I.B.A., need keen Architectural staff in the grades listed below, for both our Southern and Midlands Divisions.

The positions offer excellent opportunities in a very progressive building team, where closest co-operation between all technical departments is encouraged to produce well-designed, functional, and economical industrial buildings, group working on projects employed.

There is every opportunity for advancement within an expanding Company, with generous Bonus Scheme, Pension Scheme, and Luncheon Vouchers.

- (a) **QUALIFIED ARCHITECTS** with office experience, having good design ability, and capable of leadership.
- (b) **ARCHITECTURAL ASSISTANTS** Inter R.I.B.A. standard, but all-round ability more important.
- (c) Experienced **BUILDING DRAUGHTSMEN** to work on all aspects of various projects handled by the Groups.

Apply to:
The Personnel Manager,
Atcost (Factories) Limited,
The Pantiles,
TUNBRIDGE WELLS. 5719

ROBERT MATTHEW & JOHNSON-MARSHALL require **ASSISTANTS** at all levels to work in their Edinburgh and Dundee offices on major Hospital, University and Power Station projects. £700—£900 for recently qualified Assistants; £1,000—£1,500 for higher grades. Apply to 31 Regent Terrace, Edinburgh, 7. 5509

ARCHITECTURAL ASSISTANTS with some experience required to work in design/construction groups on interesting redevelopment schemes in Birmingham and other cities throughout the United Kingdom. Good opportunities in an expanding practice with offices in Birmingham and London. Progressive salary scales. Holiday in accordance with service, minimum two weeks. Luncheon vouchers, five-day week. J. Seymour Harris & Partners, 3/4, Greenfield Crescent, Five Ways, Birmingham, 15. 5509

INTERMEDIATE standard, office-trained **ASSISTANT** required immediately for small expanding office. Very varied programme of work and congenial atmosphere. Ability to work on own initiative essential. Salary by arrangement. Apply J. Raymond J. Cecil, Dip. Arch., A.R.I.B.A., 3 Mill Street, Hanover Square, W.1. MAYfair 6574. 5519

ERIC G. V. HIVES AND SONS require **ARCHITECTURAL ASSISTANTS** of Intermediate/Final R.I.B.A. standard in their London and Reading offices, for varied work of contemporary nature. Good salaries. Apply in writing to 46, Queen's Road, Reading. 5515

SENIOR ASSISTANT ARCHITECTS required for responsible positions in progressive Manchester Office. **ARCHITECTURAL ASSISTANTS** also required. Intermediate standard or above. Salary by arrangement. Box 5565.

An experienced **ARCHITECTURAL ASSISTANT** required immediately for established firm on South Coast for planning and detailing of modern factories and commercial development. An interesting and progressive position awaits the right individual. Write stating age, experience and salary required to Messrs. Thomas, Jolly, Grant & Keisey, 26 Kent Road, Southsea, Hants. 5514

LONDON Building Surveyors Architectural Department require **JUNIOR** for general duties. Age 17-18. Good prospects for advancement. Write Box 5632 or ring MET 8001 for appointment.

DEPUTY STAFF ARCHITECT required by City firm of Surveyors, age 30-40. Apply giving full particulars and salary required to Box 5566.

RILEY & GLANFIELD need an experienced **ASSISTANT** able to take responsibility for work on Churches and halls, public houses, factories and schools. Salary to be agreed. Telephone CHANCERY 7328. 5549

OPPORTUNITY FOR FRUSTRATED INTERMEDIATE ASSISTANT, WITH INITIATIVE AND IMAGINATION, UNABLE TO FIND POST OFFERING FREEDOM IN DESIGN OR CHANCE TO TAKE CHARGE OF PROJECTS. WRITE OR PHONE: NICHOLSON AND RUSHTON, 2 NEW SQUARE, LINCOLN'S INN, W.C.2. HOLBORN 2095. 5510

NORTH HARROW office requires Intermediate/Final **ASSISTANT**. Experience of housing development and industrial work an advantage. Kindly write or telephone Field & Shaw, Chartered Architects, 40 Station Road, North Harrow, Tel.: Harrow 7502. 5527

SENIOR ASSISTANTS required for work on large Hospital programme, excellent opportunities for the right men, salary £1,000—£1,400. Luncheon Vouchers and five-day week. Write giving full particulars to W. H. Watkins, Gray and Partners, 57, Catherine Place, S.W.1. 5633

COMPETENT ASSISTANTS required, large industrial buildings—London and Home Counties. Salary and bonus according to experience and ability; five-day week; excellent opportunities. Howard Kelly and Partners, Chartered Architects, No. 11, Duke Street, W.1. Welbeck 3995. 5534

WOLVERHAMPTON. Norman & Dawbarn require an **ASSISTANT** in their Midlands Office. This position could afford useful experience of small and medium size jobs in a young but expanding office, with possibility of later transfer to London Office or overseas if desired. Minimum of two years' office experience required if qualified, four years if intermediate. Excellent working conditions, five-day week, three weeks' annual leave, lunch vouchers. Write or telephone 7, Portland Place, London, W.1 (LANGham 8011), or Heanton House, Salop Street, Wolverhampton (Wolverhampton 27387). 5528

INTERMEDIATE or **Finals Standard ARCHITECTURAL ASSISTANTS** required for contractor's architectural department in West End office. Permanent, superannuation and bonus. Write in confidence, stating age, experience and salary required to Box 5619.

ARCHITECTURAL STAFF:

(a) **ARCHITECTS** of considerable ability to join a team just about to commence the design of a new Broadcasting Headquarters in the Midlands. Also required:—

(b) Experienced **STAFF** with ability in high quality detailing for project just starting in design stage for the new Headquarters for a Canadian Company in the Midlands. And:—

(c) Intermediate standard **ARCHITECTS** are invited to join staff for work on a most interesting project in detailing a newspaper building.

Applications, endorsed "Appointment (a), (b) or (c)," to be sent to John H. D. Madin, 83/85, Hagley Road, Five Ways, Edgbaston, Birmingham, 16, as soon as possible. 5623

OLD ESTABLISHED London Architects require **ASSISTANTS** capable of carrying out substantial commercial or school projects with some supervision. Telephone Mr. Shail, Mayfair 2549 for appointment, or write Box 5615.

PLAYNE & LACEY require experienced and enthusiastic **SENIOR ARCHITECTURAL ASSISTANT** for work on University project. Salary range £1,200 to £1,500. Write 19 Queen Anne's Gate, Westminster, S.W.1, or ring WHI 2552 for interview. 5517

cladding
cills
copings
flooring
paving
fireplaces
surrounds
skirtings
stairtreads
shelves

**TODAY'S
SLATE
AND
TOMORROW'S
WINCILATE**

THE BOW SLATE & ENAMEL CO LTD

THE TOWN HALL BOW ROAD E.3

QUARRIES ABERLEFERN NORTH WALES

S. W. MILBURN & PARTNERS require **SENIOR AND JUNIOR ARCHITECTS** and **ARCHITECTURAL ASSISTANTS** at Sunderland and Cardiff, to work on major hospital schemes and other varied works. Salaries according to qualifications and experience. Please make applications in writing, stating age, qualifications and experience, to 9, The Esplanade, Sunderland, Co. Durham. 5623

ARCHITECTURAL ASSISTANTS. The Architects Department of a large industrial organisation requires Senior and Junior Assistants to work on a variety of interesting projects. The offices are modern and spacious and situated in pleasant rural surroundings in South-East England. Permanent appointments with progressive salaries are offered to suitable applicants, within the range £1,800-£1,200. Five-day week, three weeks annual holiday, non-contributory pension scheme. Applications, which will be treated in strict confidence, giving details of age, qualifications and experience, should be addressed to Box 5609.

GEORGE CALVERLEY & SONS (CONTRACTORS) LTD. require an **ASSISTANT ARCHITECT**. Applicants should have experience in Industrial and Multi-storey Flat Developments.

The appointment is a permanent one in a rapidly expanding office and the applicant will be given every opportunity for advancement. A Pension Scheme is in operation for those wishing to make a career with the Company.

Apply in writing with details of experience and present salary to James L. Heap, A.R.I.B.A., Chief Architect, George Calverley & Sons (Contractors) Ltd., Evington Valley Road, Leicester. Tel.: Leicester 36995. 5677

ARCHITECTURAL ASSISTANTS required for most interesting and varied work. Salary grades ranging from £550 to £1,350. Five-day week. Excellent working conditions in new building. Pension Scheme and three weeks' holiday. Paid overtime. Car allowance. Apply Gordon Payne and Preece, Grosvenor House, Gloucester. 5691

ARCHITECTURAL ASSISTANTS required with practical experience. Varied practice including contemporary work. Salary £700-£1,100 (plus L.V.s), according to qualifications and experience. Please write, giving full particulars, to Sir Giles Scott, Son & Partners, 9 Gray's Inn Square, W.C.1. 5601

JUNIOR ARCHITECTURAL ASSISTANTS required. Salary range £750-£1,250 p.a., depending upon experience. Write with fullest details of experience. Box 5602.

INTERMEDIATE and FINAL ASSISTANTS required immediately, salary range £800 to £1,200. Experienced in planning of Flats and Commercial properties essential. Box 5713.

LEWELLYN SMITH & WATERS require **ASSISTANTS** in the following categories: **DESIGNERS** to prepare and develop sketch designs for every type of work. Imaginative outlook and good sense of detail essential. £1,000-£1,250.

JOB ORGANISERS to take charge of jobs; able to control drawing office and site work and deal with Consultants and Specialists. £1,600-£1,250.

ASSISTANTS interested in working on a wide range of projects. Good opportunities for young men of ability. £700-£1,000.

Salaries listed are commencing salaries and there is scope for advancement.

Vacancies in both London and Worcester offices.

Write: 103 Old Brompton Road, S.W.7. (KEN 4477). 5777

ARCHITECTURAL ASSISTANTS of Final and Intermediate standard required by J. Seymour Harris & Partners to form new design groups in their expanding London practice. New office block in Embankment Place immediately adjacent to Charing Cross Station. Five-day week. Private pension scheme. L.V.s. Carrara House, 20, Embankment Place, W.C.2. WH1 5221. 5659

LIVERPOOL

£900-£1,200

Starting range. Reviewed annually or more frequently if willingness and ability shown. Five-day week. Interview and removal expenses paid and assistance in solving any accommodation problem. Write full particulars to G. de C. Fraser, Son and Gearey, 27, Dale Street, Liverpool, 2. 5660

ARCHITECTS and ASSISTANTS with enthusiasm and progressive approach required for an exciting programme covering a wide field. First class design and drawing ability and willingness to accept responsibility vital. Five-day week, superannuation and profit share scheme. Generous motoring arrangements for senior staff. Telephone DERBY 49287 or write for appointment to Morrison and Partners, 103, Belner Road, Derby. 5661

£850 TO £1,150 offered to keen young **ASSISTANTS** with at least three years' office experience. Must be good draughtsman and have sound knowledge of construction. Hours 9.30 to 5.30. Five-day week. Apply in writing to William Ryder, 21, Bruton Street, Berkeley Square, W.1. 5664

REQUIRED: Qualified **ASSISTANT** able to take charge. Varied and interesting programme. Particulars to Fry, Paterson & Jones, 25, Waterloo Street, Weston-super-Mare. 5665

RUSSELL DIPLOCK ASSOCIATES require **ARCHITECTURAL ASSISTANTS**, £750 p.a.-£1,250 p.a., for their expanding Victoria office; varied work at home and abroad in congenial surroundings. Come and see us after telephoning late 0771 for an appointment. 5669

REQUIRED immediately, experienced **ASSISTANTS** about Intermediate or higher standard. Applicants actively working for qualification preferred and study time allowed. Varied work including multi-storey flat and redevelopment schemes. Colclutt & Hamp, 86, Prince Albert Road, Regents Park, N.W.8. PRIMROSE 5157. 5670

JUNIOR ASSISTANT required, minimum of one year's experience preferred. Varied and interesting work. Study time allowed. Colclutt & Hamp, 86, Prince Albert Road, Regents Park, N.W.8. PRIMROSE 5157. 5671

PROGRESSIVE ARCHITECTURAL ASSISTANTS (one Senior and four of Intermediate standard) required immediately. Applicants must be capable of shouldering responsibility. Generous salaries to suitable applicants, in accordance with ability. Five-day week and luncheon vouchers supplied. Please telephone CENTRAL 7748 or write to Box 5672.

EXCELLENT opportunities for experienced **ASSISTANT ARCHITECTS and JUNIOR ASSISTANTS** with design ability in extensive South Coast practice. Five-day week and good salaries according to experience. Apply with full particulars to Box 5673.

ARCHITECTURAL ASSISTANT. Benskin's Watford Brewery Limited, a member of the Ind Coope Group, have a vacancy for a qualified **ASSISTANT**. Salary up to £1,250 depending upon experience and qualifications. Contributory Pension Scheme, offering considerable benefits before and after retirement. Five-day week. Canteen. If you are interested in "Pubs" both new and old, please apply giving full personal details to J. C. F. James, F.R.I.B.A., Benskin's Watford Brewery Ltd., P.O. Box 105, 194, High Street, Watford. 5674

ARCHITECTURAL ASSISTANTS required in busy Bloomsbury office with varied practice. Good salary and prospects for suitable applicants. Five-day week. Write giving particulars of age, qualifications, experience, etc., to Box 518, c/o 7, Condit Street, W.C.1. 5647

THE LAING HOUSING COMPANY LIMITED requires

ARCHITECTURAL STAFF AND ARCHITECTURAL ASSISTANTS AT THEIR HEAD OFFICE EDGWARE, MIDDLESEX

Work to include Estate Layouts, Design and Working Drawings for Houses and Flats. These positions are permanent and offer scope for initiative and advancement. Assistance given to those studying for R.I.B.A. qualifications. Conditions include Pension Scheme and other progressive benefits.

Applications in writing, giving brief details of past experience to Personnel Manager (A.S.H.3), John Laing and Son Limited, London, S.W.7. 5638

W. S. HATTRELL & PARTNERS require **ASSISTANTS** (Senior commencing £1,000-£1,250. Junior commencing £750-£850). Write or telephone to 21, Cleveland Place, LONDON, S.W.1 (Whitehall 4076); 1, Queen's Road, COVENTRY (Coventry 26446); 15, Piccadilly, MANCHESTER (Deansgate 9288). 5631

GOOD salaries, congenial office conditions and interesting work offered to **ASSISTANTS** both Final and Intermediate standard in the office of Mr. J. Brian Cooper, F.R.I.B.A., 30 St. George Street, Hanover Square, London, W.1. Telephone GROSVENOR 6544. If you are interested, please write, telephone or call and see me. 5652

GOOD salaries, congenial office conditions and interesting work offered to **ASSISTANTS** both Final and Intermediate standard in the office of Mr. J. Brian Cooper, F.R.I.B.A., 38, Highfield Road, Edgbaston, Birmingham, 15. Telephone EDGBASTON 5161. If you are interested, please write, telephone or call and see me. 5653

ARCHITECTURAL ASSISTANT required for a small busy practice in W.C.1 area. Good all round experience required. Surveys, sketch plans, working drawings, details, etc. Salary £700 to £800. Tel. CHA 7611. 5655

A GOOD OPPORTUNITY EXISTS for a **SENIOR ASSISTANT ARCHITECT** in Dartford Practice. Must be qualified and capable of carrying projects through to completion. Multi-storey flats housing, commercial and industrial work. Non-contributory pension scheme, car allowance, etc. Write giving details and salary required to Box 5752 or 'phone Dartford 24350 for appointment.

EXPERIENCED SENIOR ASSISTANT ARCHITECT required by Bristol Practice to control large Contract in Plymouth and to take over existing mixed Practice in Devon. Excellent salary, expenses, superannuation scheme, etc. Please apply giving full particulars to George Brown & Partners, Equity & Law Building, Baldwin Street, Bristol, 1. 5748

INTERMEDIATE Standard ARCHITECTURAL ASSISTANT required. Attractive salary, superannuation scheme, pleasant working conditions. Please apply giving full particulars to George Brown & Partners, Equity & Law Building, Baldwin Street, Bristol, 1. 5749

ARCHITECTURAL ASSISTANTS required for Hospital and other work, 5-day week and pension scheme. Apply giving age, qualifications, experience and salary required to Adams, Holz, & Pearson, 38, Gordon Square, W.C.1. 5742

GREENFELL BAINES & HARGREAVES require one fully qualified **ARCHITECT** of first class design ability to work in their Manchester office on a large scale University Development project in the first instance. Salary between £1,000 and £1,500 per annum. Five-day week, salary reviewed annually, overtime paid in cash or additional leave. Please contact D. A. Cobb, Associate Partner, or S. B. Downs, 423, Oxford Road, Manchester, 13. Telephone: ARDWICK 1308-9. 5742

FORSYTH LAWSON & PARTNERS require an **ARCHITECTURAL ASSISTANT** for Country Practice engaged on new and restoration work to houses, churches, schools, office buildings, etc. Salary range £750 to £1,200. Reply 50, Horse Fair, Banbury, Oxon. 5734

ARCHITECTS in Private Practice in the Home Counties will pay £1,000 to £1,500 per annum to competent **ARCHITECTURAL ASSISTANTS**. Will also pay up to £1,000 per annum for competent **JUNIOR ARCHITECTURAL ASSISTANTS**. Varied and interesting work in hand. Write stating age, experience and salary required to Box 5733.

SENIOR ASSISTANT required by long established firm of architects at Chester. A suitable applicant would be offered a junior partnership after two years' satisfactory service. Experience in the design of large school projects would be an advantage. Box 5725.

OPPORTUNITY for intermediate or newly-qualified **ASSISTANT** with initiative and all-round ability, to join youthful expanding practice in Croydon. Apply to Donald Rowswell & Partners, 11/11a, George Street, Croydon, or telephone CROYDON 4080. 5723

INTERMEDIATE to Final Standard ARCHITECTURAL ASSISTANT (FEMALE) required for City Bank. Interesting and congenial work in pleasantly appointed office. Free lunches on premises. Salary according to qualifications. Telephone: CRY 9822, Premises Department, 9.30 a.m. to 5 p.m. 5766

NORTH LONDON-ASSISTANTS required about R.I.B.A. Intermediate standard. Wide variety of interesting work. Five-day week. Facilities for part-time day study. Apply C. E. Owen Ward, L.R.I.B.A., Midland Bank Chambers, Palmers Green, London, N.13. PAL. 1186/7. 5768

ARCHITECTURAL ASSISTANTS, to Intermediate standard or above, required in Wimbledon office for interesting work U.K. and overseas. Five-day week; no travelling to Town. Apply J. E. K. Harrison, F.R.I.B.A., Eagle House, Wimbledon, S.W.19, or 'phone WIM 4244. 5770

ARCHITECTS with extensive general practice (Churches, Hospitals, Schools, Flats, Commercial and Industrial) require experienced **ASSISTANTS**, post-inter level or recently qualified. Ivor Day & O'Brien, 9 Clare Street, Bristol, 1. 5772

S. T. WALKER and PARTNERS, 9 Frederick Road, Edgbaston, Birmingham 15. Telephone No. Edgbaston 6066-7. There are vacancies in this office for **JUNIOR and INTERMEDIATE ASSISTANTS**. Those interested should write to, or telephone, Graham Winteringham, Dipl. Arch., A.R.I.B.A. 5775

FARMER and DARK

require

ASSISTANT ARCHITECTS

with some office experience, initiative and ability. Varied work. Apply Romney House, Tufton Street, S.W.1. Tel.: ABBEY 6311. 5776

MESSRS. JOSEPH MENDELSON & PARTNERS require **INTERMEDIATE ASSISTANTS** and qualified **ARCHITECTS** of all grades for work on a wide range of interesting and contemporary projects. Only applicant who is prepared to work hard and show some initiative will be given a unique opportunity for early partnership or Associate status. Salary scales will be of the most generous commensurate with ability. Please apply to 71, Wimpole Street HUN. 6361. 5853

BERTRAM CARTER, F.R.I.B.A., requires **ASSISTANTS**, 15 Adeline Place, Bedford Square, London, W.C.1. MUS 3536/7. 5849

EXPANDING practice urgently requires **ASSISTANTS** up to Intermediate standard. Salary according to ability. Dalline and Partners, Chartered Architects, 14, Bloomsbury Square, London, W.C.1. CHANCERY 4752. 5844

ARCHITECTURAL STAFF, qualified and Intermediate, required. Experience desirable commercial work. Generous salaries (and bonus) to right men. Five-day week, L.V.s. Apply in first instance by letter giving details experience and qualifications to Lewis & Hickey, F.A.R.I.B.A., 150 Regent Street, London, W.1. 5852

NORTH HAMPSHIRE ARCHITECTURAL ASSISTANT, about Intermediate standard, required for small but busy country practice. Apply stating experience and salary required to Box 5851.

SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS AND DRAFTSMEN required for multiple concerns in London. Five-day week. Dining facilities. Superannuation. Modern office. Salary £500 to £1,500 p.a. according to age, experience, qualification and ability. Apply in writing giving full details to Box 5855.

£850-£1,600 ARCHITECTURAL ASSISTANTS required. Long term prospects. Non-contributory pension and life assurance schemes. Five-day week. Telephone or write: Ronald Ward & Partners, 29, Chesham Place, Belgrave Square, S.W.1. Belgravia 3361. 5856

QUALIFIED, Intermediate and Final standard ASSISTANTS required for large office development and flats, must be good draughtsmen, conversant with modern construction and design. Congenial working conditions. Good salary for right men. A. Green, A.R.I.B.A., 23, Fitzroy Street, W.1. Langham 5051/2. 5857

ASSISTANT of near Final standard with several years' office experience required for small practice. Opportunity for site supervision and job management. Particulars to Charity, Thirte & Duke, 342, Grand Buildings, W.C.2. 5858

C.W.S. ARCHITECTS NEWCASTLE UPON TYNE APPLICATIONS are invited for the following vacancies in a busy office, handling a wide variety of commercial and industrial projects.

(a) **SENIOR ASSISTANT ARCHITECTS**, salary range £975-£1,300. Preferably Associates R.I.B.A. Must be experienced in the preparation of working drawings, details, etc.

(b) **ASSISTANT ARCHITECTS**, salary range £700-£1,050. Preferably having passed Intermediate R.I.B.A.

Reply stating age, experience, etc., by 24th February, 1961, to R.A. Thomas, A.R.I.B.A., Chief Architect, C.W.S. Limited, 90 Westmorland Road, Newcastle upon Tyne 1. 5784

E. R. COLLISTER & ASSOCIATES require in their Chelmsford office **ARCHITECTURAL ASSISTANTS** of Intermediate to Final standard. London rates of pay. Applications should be addressed to St. Mary's Lodge, Cottage Place, Chelmsford. 5795

SENIOR AND JUNIOR ASSISTANTS required for interesting general practice. Commercial and Technical College buildings. Opportunities of taking charge of contracts. Salaries according to experience. Annual bonus. Five-day week. Apply in writing to Scott & Barlow, 10 Gray's Inn Square, W.C.1. 5785

QUALIFIED ASSISTANT required at once. Salary according to ability and experience. Leonard Gavins-Taylor, A.R.I.B.A., Central House, Finsbury Square, E.C.2. MONarch 1742. 5790

SENIOR ASSISTANT required for City office. Attractive salary according to ability. Apply Box 5791.

£1,000-£1,500. Experienced ASSISTANT urgently required. Qualified or Final standard. Particulars to Box 5792.

SENIOR ASSISTANT required mainly for University work. Good salary for the right man. Five-day week, three weeks' holiday. Apply in writing to Thomas Worthington & Sons, 178 Oxford Road, Manchester, 13.

ARCHITECTS with busy practice in Brighton require **ASSISTANTS** with practical experience for varied work. Salary up to £750 per annum. Five-day week, pension scheme, etc. Box 5848.

COVELL & MATTHEWS have immediate vacancies for **SENIOR ARCHITECTS** and **ASSISTANTS**. Please phone REGENT 3651/2 for appointment. 5275

ARCHITECTURAL ASSISTANTS, Intermediate or Finals standard. Required in Chief Architect's office. Interesting and varied work. Five-day week, bonus, etc. Appointments permanent and superannuable. Write (in confidence) stating age, experience and salary required, to Personnel Manager, Wates Limited, London Road, Norbury, S.W.16. 4704

F. W. WOOLWORTH AND CO. LIMITED ARCHITECTS DEPT KING STREET, DUDLEY WORCS

WE have a few vacancies for capable **ASSISTANTS** in our Architects' Dept., for interesting development programme in multiple stores.

Experience in preparation of working drawings and details essential. Good salary and prospects to suitable applicants.

The positions are permanent and pensionable. Five-day week, canteen facilities. 3789

LARGE Industrial Organisation require the services of a **JUNIOR ARCHITECTURAL ASSISTANT** in their Surveyor's Dept. Salary range £600-£800 according to qualifications. Permanent position after probationary period. Staff restaurant, free lunches, five-day week, Pension Scheme. Apply in writing to:

Chief Surveyor, Wiggins, Teape & Co. Ltd., Gateway House, 1, Watling Street, London, E.C.4. 5889

ARCHITECTURAL ASSISTANTS AND DRAFTSMEN (qualified or unqualified) with experience in preparing working drawings and ability to work with the minimum of supervision, required by Navy, Army & Air Force Institutes. Good working conditions and salary according to age, qualifications and experience. Applications in writing please, stating age and previous experience to the Controller of Works & Buildings, N.A.A.F.I. Headquarters, Imperial Court, S.E.11. 5887

ARCHITECTS with offices in Enfield, Middx. require **SENIOR ASSISTANT** and **INTERMEDIATE ASSISTANT**. Wide and interesting range of work available without the tedium and expense of travelling to Town. Practice established over 25 years. Projects in hand include Hospital, Industrial, Domestic and Commercial schemes. Five-day week. Three weeks' annual leave.

Write giving full details of training, experience and salary required to:

E. WILLIAM PALMER & PARTNERS Chartered Architects 8 The Town, Enfield, Middx. 5877

INTERMEDIATE and Qualified ARCHITECTURAL ASSISTANTS required in busy commercial and industrial office. Permanent positions, variety of work and scope for initiative. Five-day week, staff bonus and superannuation schemes. Time off allowed for continuation of studies. Salary according to ability and experience. Apply in writing, giving full particulars, salary required, etc., to W. V. Betts & Son, 41 Bridgford Road, West Bridgford, Nottingham. 5888

SPRINGTIME IN OXFORD. There is varied work in a progressive and growing office for someone with drive and ability and prospects of advancement are excellent for the right man or woman. Salary £800-£1,400 according to ability and experience. Apply, giving full particulars to P. H. Bosanquet, 60, St. John Street, Oxford. 5871

EXPERIENCED ARCHITECTURAL ASSISTANT required for old established practice. Please apply with full particulars and salary required. Jackson & Jackson, Chartered Architects, 13 North Street, Ashford, Kent. 5873

ST. ALBANS, HERTS. Established firm of Architects with varied and growing practice require **ASSISTANT, Intermediate standard.** Details of age, experience, salary required. Phone or write, Herbert Cox & Gear, 2 Harpenden Road, St. Albans. Tel. 54367. 5872

SCHERRER AND HICKS require **ASSISTANTS** in **LONDON AND MANCHESTER** All grades. Interesting and varied work. 19 Cavendish Square, W.1. Museum 1105. 5802

W. S. HATTRELL & PARTNERS require **ASSISTANTS** (Qualified and Intermediate) for work on Television Centre and Theatre. Apply 21, Cleveland Place, S.W.1 (Whitehall 4076). 5874

A BUSY London office has a vacancy for an **INTERMEDIATE ASSISTANT** anxious to gain experience in the hurly-burly of modern architecture. Telephone SL0ane 0833. 5884

INTERMEDIATE standard ASSISTANTS required to work with qualified seniors on a number of interesting jobs in and out of London. Good draughtsmanship, sensitive detailing and some experience are sought and will be paid for. Write stating age and experience to David Stern and Partners, 24 Gloucester Place, London, W.1. 5885

LANCHESTER & LODGE urgently require **ARCHITECTURAL ASSISTANTS** of all grades. Work includes Hospitals, Laboratories, Universities, Offices, Housing, etc. Write full particulars or ring for interview, 10 Woburn Square, W.C.1. Museum 0845. 5886

ERIC COLE & PARTNERS, F.F.R.I.B.A., have vacancies for all grades of staff at their Cirencester and Swindon offices. Salaries by arrangement. Five-day week. 5890

WILLIAM HOLFORD & PARTNERS (City Office) require **ARCHITECTURAL ASSISTANT** of Intermediate/Final standard, office experience an advantage. Varied programme of work including university buildings. Five-day week, luncheon vouchers and pension scheme in operation. Salary £750 to £1,000 according to ability. Write giving full details to Adelaide House, London Bridge, E.C.4 (tel. MINcing Lane 7387). 5796

ASSISTANTS of Intermediate standard required in busy provincial office. Contemporary outlook welcomed. Opportunity given to handle contracts from inception to completion. Facilities given for study at London Schools one day per week, if required—fare and fees paid. Salary £750-£900 according to ability. Hare & Pert, A.R.I.B.A., 29, Elm Street, Ipswich, 5794

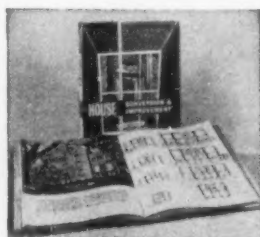
ARCHITECTS, R.I.B.A. Final and Intermediate **ASSISTANTS** required by busy practice with wide variety of work. Salary by agreement. Pension scheme available. Brierley, Leckenby & Keighley, F/A/R.I.B.A., 10 Lendal, York. Telephone 25401. 5797

ARCHITECTURAL ASSISTANT of Intermediate standard required to assist in small office on an interesting variety of work. Salary around £500 p.a. according to experience. Please reply in writing, stating age, to John Pantlin, 14 East Street, Wimborne, Dorset. 5798

ARCHITECTS' Senior and Junior (Intermediate standard) ASSISTANTS required by west-country firm of Architects. Reply giving qualifications, experience, age and salary, to Box 5800.

URGENTLY REQUIRED. Young experienced **ASSISTANT** for congenial Hampstead office to work on a variety of interesting projects at home and abroad. Excellent salary by arrangement. Apply Barron & Smith, HAM 2636. 5804

Felix
Walter
F.R.I.B.A.



THE FIRST comprehensive illustrated book on the subject of the conversion and improvement of all kinds of house property. It is designed to help architects, local housing authorities and private owners. Mr. Walter thoroughly illustrates and describes a large variety of successful conversions, from luxury Belgravia terrace houses to remote rural cottages, giving full details of building costs, rent and rates for most of them. And specialist authors contribute chapters on law, finance, management and town planning.

HOUSE CONVERSION AND IMPROVEMENT Size 9½ by 7½ in. 258 pages including over 420 illustrations. 42s. net, postage 1s. 9d.

THE ARCHITECTURAL PRESS 9-13 QUEEN ANNE'S GATE WESTMINSTER S.W.1

ASSISTANTS who have recently qualified are required in busy provincial office. Contemporary outlook welcomed. Salary in accordance with experience, plus bonus scheme. Hare & Port, A.R.I.B.A., 29, Elm Street, Ipswich. 5821

ASSISTANT ARCHITECT with some experience required in a small but expanding office to work on varied and interesting projects. Salary by arrangement but in the region of £1,000. Write or telephone John Macalpine, 174 Brompton Road, London, S.W.3. Knightsbridge 8468. 5843

SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS required at Shrewsbury, Cardiff and Swansea. Salary range £800 to £1,500 per annum—plus bonus for Senior Staff. A five-day week is in operation and there are three weeks' holiday per annum. A pension scheme is available for selected Senior Staff after qualifying service. Applications, stating age, experience, present salary and choice of office, should be sent to the Secretary, Sir Percy Thomas and Son, 10 Cathedral Road, Cardiff. 5842

ARCHITECTURAL ASSISTANTS at Final and Intermediate stage required. Definite prospects offered in small busy office. Apply giving age and experience to Taylor, Knight & Co., Brookmoor House, Grove Road, Rotherham. 5841

SLOUGH ESTATES LTD. require an **ARCHITECTURAL ASSISTANT** with at least five years' experience, chiefly for industrial work. Five-day week, good working conditions, luncheon vouchers, pension scheme, etc. Please apply stating age, experience and salary to The Chief Architect, Slough Estates Ltd., Bedford Avenue, Trading Estate, Slough, Bucks. 5838

YOUNG ASSISTANT ARCHITECT required. Salary range £900—£1,200 p.a. according to experience. Apply: Richard Brown, 123 Victoria Road, Darlington. 5837

OPPORTUNITIES for trained **ASSISTANTS** to gain experience in all aspects of architectural project management in connection with a wide variety of work, including a major urban development. Salary range up to £1,200. Modern office, five-day week, non-contributory pension scheme, bonuses, luncheon vouchers. Elder and Lester, 2, Town Square, Billingham-on-Tees, Co. Durham. 5836

HALLIDAY & AGATE, Manchester, require a number of **ASSISTANT ARCHITECTS** for a varied and extensive programme. Experience and ability to develop schemes with minimum of supervision are important. Apply in writing, giving full details of previous experience to 4, Fountain Street, Manchester, 2. 5834

HALLIDAY & AGATE, Manchester, require a **SENIOR ASSISTANT ARCHITECT**, who should have ability and experience in the design of large buildings and the administration of contracts. Apply in writing, giving full details of previous experience to 4, Fountain Street, Manchester, 2. 5835

ARCHITECTURAL ASSISTANTS required for projects in London and Provinces. Opportunity for wide experience, high salary scale and L.V.s. Write Box 5831.

C.W.S. LTD. ARCHITECTS' DEPARTMENT Newcastle upon Tyne
GROUP ARCHITECT

QUALIFIED ARCHITECT required to lead group engaged on large programme of commercial and industrial development. The post is one of considerable responsibility, and applicants should have had several years' experience. Preference will be given to those having ability in modern department store design. Commencing salary according to age and experience. Reply giving full particulars of age, experience, etc., to R. A. Thomas, A.R.I.B.A., Chief Architect, C.W.S. Limited, 90, Westmorland Road, Newcastle upon Tyne 1. 5813

CO-OPERATIVE WHOLESALE SOCIETY LTD. ARCHITECTS' DEPARTMENT, LONDON

APPLICATIONS are invited for the following appointments: (a) **SENIOR ASSISTANT ARCHITECTS**, Group 4, £1,030—£1,355. (b) **ASSISTANT ARCHITECTS**, Group 3, £755—£1,105. Commencing salaries according to qualifications and experience. There is a superannuation scheme subject to medical examination. Five-day week. Applications, stating age, qualifications, training and experience to R. C. Steel, A.R.I.B.A., Chief Architect, C.W.S. Ltd., 99, Leman Street, London, E.C.1. 5812

ARCHITECTURAL ASSISTANT (Intermediate to Final standard) required for work in Architectural Department of Messrs. Whitehead & Whitehead. Applicants should be proficient in preparing designs, working drawings and specifications. Preference given to applicants with experience in estate development and domestic architecture. Salary according to age and experience. Write: The Staff Architect, Whitehead & Whitehead, South Street, Chichester (Telephone 3051—5 lines). 5826

ARCHITECTURAL ASSISTANT required for a medium size office in pleasant surroundings for varied work, housing, churches, community buildings, etc. Pension Scheme, canteen facilities, car allowance, housing accommodation available. Salary range £850 to £1,000, according to experience. Apply S. J. Clewer, F.R.I.B.A., Bournville Village Trust, Oak Tree Lane, Birmingham 30. 5827

ALL grades of ARCHITECTURAL STAFF required in office situated within easy reach of Waterloo and London Bridge Stations. Superannuation Scheme, bonus and Luncheon Vouchers plus good salaries. Varied work ranging over the whole country. Telephone Mr. W. S. A. Williams, A.R.I.B.A., at Waterloo 5688 for an appointment. 5809

TORBAY Area of Devon. Qualified **ARCHITECT** required by Marley Developments Limited, No. 1, Civic Hall, Totnes. Recently qualified could be acceptable. Indoor and outdoor. Willingness to promote the success of the speculative building activities of the company. Please indicate anticipated initial salary for this interesting new post. 5810

BOOTS, ASSISTANT ARCHITECTS, ARCHITECTURAL ASSISTANTS. During the coming years, in addition to the vast programme of rebuilding or extending our retail branches, new industrial projects will be commenced. The Architects Department, headed by Mr. C. St. C. Oakes, M.B.E., F.R.I.B.A., is responsible for the whole of this work which, besides retail premises, includes laboratories, office buildings, warehouses, chemical and other production units and ancillary buildings. Vacancies exist with this Department for Assistant Architects and Architectural Assistants to work on industrial projects. These positions are permanent and pensionable and a five-day week is in operation. Applications should be sent, giving full details, to the Personnel Manager, Boots Pure Drug Co. Ltd., Station Street, Nottingham, quoting reference No. A.J.3. 5806

SMALL PROGRESSIVE AND CONTEMPORARY LONDON OFFICE requires **ASSISTANTS**. **GOOD OPPORTUNITY FOR PEOPLE WISHING TO GAIN EXPERIENCE IN ALL ASPECTS OF A VARIED PRACTICE.** Box 5823.

JUNIOR—do you wish to learn Architecture or just work as "Hacks." If your choice is the former join Halpern and Associates, either at London or Chatham. Apply in writing stating age, experience and salary required. 7 Edgware Road, London, W.2. 5824

ARCHITECTURAL ASSISTANT, Intermediate, for contemporary architect in private practice, now engaged on hospital scheme, newspaper office, flats and houses. Salary by arrangement. Five-day week. Delightful garden studio in St. John's Wood. Ring Cunningham 3384. 5814

ASSISTANT ARCHITECTS required immediately in expanding private practice, preferably car driver. Pleasant office and working conditions. Five-day week. Scope for initiative and responsibility on varied and interesting works including domestic, commercial, industrial and ecclesiastical, over wide area of the country. Commencing salary according to experience and ability up to £1,000. Please apply giving fullest details to A. R. Laing, Deacon & Laing, 65 Goldington Road, Bedford. 5816

ARCHITECTURAL ASSISTANT required in varied and interesting practice, minimum Intermediate stage, with office experience. Write with full details of education and experience to: J. M. Porter & Co., The Estate Office, Colwyn Bay. 5380

Architectural Appointments Wanted

3s. per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

ASSOCIATE, 15 years' experience in commercial, industrial, general and tropical, seeks senior position in a large organisation. Salary £1,500. Box 5845.

A.R.I.B.A., 29, school-trained, four years' varied office experience, requires position of responsibility in private office. Berkshire-Hampshire area. Car owner. Box 5828.

Other Appointments Vacant

3s. per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

SENIOR LAND SURVEYOR
A RAPIDLY expanding Firm of Estate Developers urgently require the services of a Senior Land Surveyor with a flair for imaginative **HOUSING LAYOUTS**.

Applicants for this progressive position must be fully experienced Land Surveyors with good administrative ability and able to prepare attractive Sketch Layouts for preliminary negotiations with Local Authorities.

The successful applicant must be prepared to carry out work in the Field if necessary and to prepare accurate Road and Sewer Calculations. A Staff Pension Scheme is in operation. Transport will be provided and it is customary to pay an Annual Bonus.

COMMENCING SALARY—£900 P.A.

Apply with full details to:—
Chief Engineer and Surveyor,
Federated Homes Limited,
69-71, East Street,
Epsom, Surrey. 5727

ARDIN & BROOKES & PARTNERS is a young partnership with progressive ideas and plenty of varied work. There are opportunities for good designers who are not afraid of hard work and capable of running their own jobs. A bonus scheme operates so that the more the firm produces the more the staff benefits. We have spacious offices near the R.I.B.A. and work five days a week. There are also opportunities for countrywide travel. We are prepared to pay up to £1,350 plus bonus to the right men, qualified or nearly so, write or phone 6, Cavendish Place, Cavendish Square, W.1. LAN. 8227. 5663

QUANTITY SURVEYOR, approaching Final standard, capable of carrying out final accounts and all normal Quantity Surveyor's duties, required for West End Office. Salary according to age and experience. Please write giving full particulars to Box 4584.

ARCHITECTS, W.C.1 area, have vacancy for a **JUNIOR SHORTHAND/TYPEST** to train as Secretary. Five-day week. Tele.: CHA 7611. 5656

ARCHITECTURAL DRAUGHTSMAN, able to work on own initiative and carry out design and detailing of small and medium sized works, with scope for own ideas. Pension Scheme and permanency for the right man. Details of experience and salary required to be forwarded to the Chief Engineer, White City Stadium, London, W.12. Telephone: SHEpherd's Bush 5644. 5799

KEEN YOUNG ARCHITECTURAL DRAUGHTSMEN required for an expanding Department of a major Motor Manufacturer in the South Midlands to work the re-planning of Distributors' and Dealers' premises throughout the world. Opportunity to gain experience in a new and ever increasing specialist field. Box 5876.

YOUNG enthusiastic DESIGNER (qualified) with some constructional knowledge required. Will have opportunity to design and supervise jobs (mainly concerned with shops in all aspects from new shop buildings to fittings) which may be in various parts of U.K. so some travel is involved. Informal office atmosphere. Architectural staff 12. Excellent salary and conditions. Apply Nadine Reddington, A.R.I.B.A. F.R.S.A., M.S.I.A., 301-307 Oxford Street, W.1 (HYD 1037). 5819

Other Appointments Wanted

3s. per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

SHOPFITTING. Experienced **SETTER-OUT DRAUGHTSMAN** seeks progressive position and permanency with Storekeepers, Architects to multiple stores or private business. Please reply to Box 5833.

Services Offered

3s. per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

"DON" ARCHITECTURAL MODEL MAKERS. We offer the highest grade work with speed and reliability.—Please "Phone Woolwich 1262 or write 6, Pelham Crescent, Hastings. 1673

ARCHITECTURAL, Civil Engineering, Land, Building and Quantity Surveying services on fee, lump sum or quantum meruit basis. Tel. SILverthorne 7561. 3862

SURVEYS. Large or small, drawn to large scales, accuracy guaranteed. Structural sewerage, sewage disposal, sanitary plumbing and drainage design. The Site Survey Company, London, S.E.3. Telephone LEE Green 7444. 6088

FULLY experienced in all Building and Architectural work, I am available to undertake: Designs, Working Drawings, Details, Surveys, Specifications, Models, etc. Just telephone Wallington 9883 (near Croydon) and I will call anywhere and take your instructions. Box 5648.

MODELS AND COLOUR PERSPECTIVES. Charles Houthuesen offers work of the highest quality. 16, Thames Street, Sunbury-on-Thames, Middlesex. Sunbury 3728. 2339

ARCHITECTURAL MODELS—Tomas K. Bartlett and Partners specialise in this work. 5 King's Ave., W.5. Phone PERivale 6283. 6176

SURVEY OF SITES or buildings carried out for the Profession. Livingstone 1839. 5071

"NAPIER Models." Specialists in Architectural work. Stanley Studios, S.W.10. PLAXman 2118. 3561

A GROUP of experienced and competent Architectural Assistants offer their services to assist you in your draughting. Reasonable rates for working drawings, details, etc., from sketch schemes. Box 5449.

ARCHITECTURAL work of all kinds required in **SURVEY/HANTS/BERKS.** Services to the profession. Phone CAMberley 1131. Box 5464.

BARCH, A.R.I.B.A., widely experienced with emphasis on surveys, alterations, exhibition and joinery work, offers temporary assistance as required. Telephone BAiley, AMB 8346. 5614

BROUGHTON MOOR

light sea green,
olive green & blue



SLATE

for Facings, Foundation Stones, Paving and Flooring, Steps, Cills, Shop Fronts, Surrounds, Plasters, Fireplaces and all architectural work.

Send for technical pamphlets:

1. Flooring 2. Facings 3. Coping
4. Cills 5. Riven Faced Slabs.

THE
BROUGHTON MOOR
GREEN SLATE QUARRIES LIMITED,
Coniston, Lancashire

Telephone: Coniston 225/6
Telegrams: Cann, Coniston

"LEROY" LETTERING

Stencils & Equipment

Made by Keuffel & Esser Co., U.S.A.
Now obtainable from Sole Agents:-

J. H. Steward, Ltd.,
406, STRAND, LONDON, W.C.2
Est. 1852. Tel: TEMple Bar 1867
Write for List "LA"

KIRKSTONE

GREEN SLATE FOR WALL
CLADDING, CILLS,
COPING, FLOORING, PAV-
ING ETC.

The slate from our quarries has been used for these purposes for over 50 years. Our accumulated experience is offered to Architects in the services of our Technical Staff and illustrated literature.

Service in Slate
KIRKSTONE GREEN
SLATE QUARRIES Ltd.
Ambleside, Westmorland

Tel.: Amb. 3296-7

ARCHITECT about to launch out on his own would appreciate any excess work from other architects. Box 5786.

ASSOCIATE with Good Silage. Pleased to take in anything you have to Farm-out. Box 5787.

For Sale and Wanted

3s. per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

QUALITY TURF for Sale by the acre. Apply Box No. A.J.A., Newspaper House, Ayr. 5811

Premises To Let

3s. per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

ATTRACTIVE PRIVATE OFFICE, 172 square feet, in W.C.1, to let. Reception, Typing, Telephone, Heat and Lighting provided. Private car park. Enquiries to Chancery 9467. 5687

TOTNES, South Devon. Architects self-contained suite of offices on ground, first and second floors. Approximate floor area 1,250 square feet fully equipped and furnished for new practice January 1960. Thirteen or twenty year lease ideal for branch office expansion or new man in private practice. Phone Totnes 2476 during normal office hours. J. A. Stokes, 17a Fore St., Totnes, South Devon. 5895

Miscellaneous

3s. per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

J. BINNS, LTD., Specialists in the supply and fixing of all types of Fencing, Gates and Cloakroom Equipment. — Harvest Works, 96/107, St. Pauls Road, N.I. Canonbury 2061. 2093

ENGRAVING & ENGRAVED NAMEPLATES of all types in Bronze, Brass, Chrome and Plastic. Angel Supply Co., 7, Torrens Street, London, E.C.1. Phone TER 9621. 5565

HANDMADE, CLAY TILES available in many beautiful colours. The perfect roofing material with the longest life. Particulars, samples and brochure from G. Tucker & Son, Ltd., Loughborough, Leicestershire. Phone: Loughborough 2446/7. 1609

CROGGON & CO. LTD.—Chain Link Fencing and all types of Wrought Iron Fencing supplied and erected.—230, Upper Thames Street, London, E.C.4. CENTRAL 4382. 9429

Educational Announcements

3s. per line; minimum 12s. 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./D.A., F./F.R.I.B.A., M./A.M.T.P.I., prepare Students by correspondence, 10, Adelaide Street, Strand, W.C.2. TEM. 1603/4. 9963

INTERIOR DESIGN AND DECORATION. The Rhodoc School offers a home study course in interior design and decoration. Course 1, for professional use. Course 2, for personal use about your home. Send 4d. stamp for free booklet to Dept. A.J. BCM/Rhodoc, London, W.C.1. 4989

FULL OR SUPPLEMENTARY TUITION

Provided by correspondence for R.I.B.A. examinations. Revision Courses also available in any subject. Descriptive brochure on application

ELLIS SCHOOL OF ARCHITECTURE

Principal: A. B. Waters, F.R.I.B.A., F.I.Arb.
103B, Old Brompton Rd, London, S.W.7
and at Albany House, Worcester.

FURSE LIGHTNING CONDUCTORS
EARTHING EQUIPMENT
SUPPLIED ONLY BY SUPPLIER AND ERECTED

SUPPLIED FOR EVERY CLASS OF BUILDING OR STRUCTURE & EARTHING REQUIREMENT

W. J. FURSE & CO. LTD.
15, TRAFFIC STREET, NOTTINGHAM
LONDON: 22 ALIE STREET, ALDERSATE 6.1
ALSO BRANCHES, BIRMINGHAM, BRISTOL — SEE TEL. DIRECTORY

HY-RIB

combined shuttering
and reinforcement
long span metal lathing

HY-RIB ENGINEERING
1-41 Lower Avenue, London, SE1
Telephone: VICTORIA 6902

MODELS

for Architects & Civil Engineers

by **John B. Thorp**

EST 1883

31 GRAY'S INN ROAD, LONDON
W.C.1. Tel: HOLborn 1011

We never do as
we are told...

... unless we are satisfied that our customer will be happy with the completed product.

We are specialists in building tailored in wood. We can supply our own designs. But also we manufacture to order and are then anxious to interpret any suggestions from architects in the best possible way, both as regards cut and price.

Then, after full discussion and agreement, we do exactly as we are told.

Full details and brochures on request.

GREGORY OF HEDGERLEY
HEDGERLEY BUCKS
Telephone: Farnham Common 686

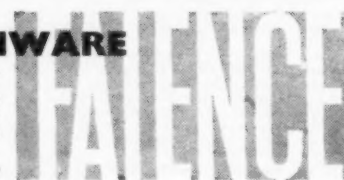
Specified time after time... HATHERNWARE

HATHERNWARE

Send for full details to:

HATHERNWARE LTD · DEPT. AR · LOUGHBOROUGH · LEICS. Tel: Hathern 273

Attractive Hathernware Faience has been chosen for the new British Home Stores buildings at Middlesbrough, Crewe, Bedminster, Nottingham and Kilburn. (Chief Architect: G. W. Clarke Esq., L.R.I.B.A.). Also at Slough and Peckham (Architect: Geo. Coles Esq., F.R.I.B.A.).



© H.L. 98

CUT ALONG THIS LINE

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
Acome, Flooring & Paving Co. (1904), Ltd.	2	0094
Addhead Ratcliffe & Co., Ltd.	132	0007
A.E.L. (Rugby) Ltd.	154	—
Air Control Installations, Ltd.	134	0010
Aircrow Company & Jewell, Ltd.	55	0011
Allied Ironfounders	6	1049
Allom Heffer & Co., Ltd.	116	0018
Architectural Press, Ltd.	15, 162, 166	0026
Atkins, W. S., Ltd.	153	—
Autotype Co., Ltd.	141	0043
Bakelite, Ltd.	154	—
Banister, Walton & Co., Ltd.	63	0047
Barbour Ltd., Ltd.	157	—
Barnards, Ltd.	142	0977
Bawn, W. B., & Co., Ltd.	142	0053
Baxendale, Richard, & Sons, Ltd.	46	0987
Bigwood Bros. (Birmingham), Ltd.	151	0064
Bolton Gate Co., Ltd.	106, 107	0078
Bosch, Henry, & Son, Ltd.	127	0821
Boulton & Paul, Ltd.	12	1112
Bow Slate & Enamel Co., Ltd.	164	0083
Bowater Sales Co., Ltd.	129	0082
Bradford Glass Co., Ltd.	37	1249
Bratt Colbran, Ltd.	50	1138
Bristol Building Centre Ltd.	151	1186
British Coking Industry Association	36	0103
British Industrial Engineering, Ltd.	81	0096
British Lime Manufacturers	139	0752
British Monorail, Ltd.	130	0097
British Plaster Board (Manufacturing), Ltd.	96	0102
British Reinforced Concrete Eng. Co., Ltd.	172	0104
British Screw Co., Ltd.	80	0107
British Steam Specialties, Ltd.	140	1212
British Visqueen, Ltd.	95	0110
Broads Manufacturing Co., Ltd.	16	0112
Bronco, Ltd.	140	0100
Brooks & Co. (1925), Ltd.	148	1108
Broughton Moor Green Slate Quarries, Ltd.	168	0113
C.I.B.A. (A.R.L.), Ltd.	159	—
Cadbury Bros., Ltd.	153	—
Cascoloid	141	0784
Celotex, Ltd.	26, 27	0135
Cement Marketing Co., Ltd.	72	0136
Claydon Bros., Ltd.	143	0146
Colt Ventilation, Ltd.	3	0152
Concrete Utilities, Ltd.	24	1115
Conder Engineering Co., Ltd.	31	0155
Corrosion Technical Services, Ltd.	77	1251
Costain Concrete Co., Ltd.	119	1100
Cox, P., Ltd.	139	0164
Croft Granite, Brick & Concrete Co., Ltd.	148	0170
D.D. Design, Ltd.	151	1187
Danks of Netherton, Ltd.	143	0176
Danks, Edwin, & Co. (Oldbury), Ltd.	150	0175
Davidsons Paper Sales, Ltd.	85	0178
Dexion, Ltd.	125	0179
Dowty Seals, Ltd.	135	1248
Dreadnought Fireproof Doors (1930), Ltd.	147	0190
Duplus Domes, Ltd.	145	0193
Du Pont Co. (United Kingdom), Ltd.	21	0818

	PAGE	CODE
Ellard Sliding Door Gears, Ltd.	141	0201
Ellis School of Architecture	168	0202
English Electric Co., Ltd.	160	—
English Joinery Manf. Assoc. (Inc.)	51	0788
Evered & Co., Ltd.	97	0209
Evode, Ltd.	7	0879
Expandite, Ltd.	17	0212
F.E.B. (Great Britain), Ltd.	5, 48	0216
Fablon, Ltd.	128	0213
Falk, Stadelmann & Co., Ltd.	126	0214
Fibreglass, Ltd.	30	0219
Flexaire, Ltd.	45	0227
Flinkote Co., Ltd.	34	0229
Floor Treatments, Ltd.	25	0231
French, Thomas, & Sons, Ltd.	69	0237
Furse, W. J., & Co., Ltd.	168	0241
Gas Council	86, 87	0246
General Electric Co., Ltd.	52, 53	0250
Granwood Flooring Co., Ltd.	132	0259
Greenwood's and Airvac Ventilating Co., Ltd.	11	0263
Gregory (Hedgerley), Ltd.	168	1215
Group Sales, Ltd.	92	0417
Gyprow Products, Ltd.	79	0266
Gypsum Plasterboard Development Assn.	76	0267
Hall, Robert H., & Co. (Kent), Ltd.	65	0271
Hathernware, Ltd.	168	0691
Higgs & Hill, Ltd.	35	—
Hill Brothers (Service), Ltd.	143	0918
Hills, F., & Sons, Ltd.	57	1001
Hills (West Bromwich), Ltd.	117	0297
Hollis Bros., Ltd.	33	0300
Home Fittings (Great Britain), Ltd.	144	0307
Hull Steel Radiators, Ltd.	134	1214
Hume Atkins & Co., Ltd.	62	0840
Ideal Boilers & Radiators, Ltd.	133	1122
Imperial Chemical Industries, Ltd.	42	0319
Imperial Chemical Industries, Ltd.	28	0617
Jones, T. C., & Co., Ltd.	29	0333
Kay & Co. (Engineers), Ltd.	137	0715
Kay, William (Bolton), Ltd.	149	0335
Kaye, Joseph, & Sons, Ltd.	61	1121
Kenrick, Archibald, & Sons, Ltd.	146	0337
Kenyon, Wm., & Sons (Metamica), Ltd.	171	0338
Kidde, Walter, & Co., Ltd.	78	1197
Kirkstone Green Slate Quarries, Ltd.	168	0739
Kleine Co., Ltd.	14	1022
L. & G. Fire Appliance Co., Ltd.	136	0932
Laing, John, & Son, Ltd.	159	—
Lakeland Green Slate & Stone Co., Ltd.	137	1237
Lamont, James, H., & Co., Ltd.	135	0346
Lead Development Association	20	0709
Leaderflush (Doors), Ltd.	47	0347
Lind, Peter, Ltd.	91	1253
Littlewoods Mail Order Stores, Ltd.	153	—
Lye Trading Co., Ltd.	145	1255
McKinney Foundations, Ltd.	120	0793
Management Selection, Ltd.	159	—
Marley Concrete, Ltd.	152	0388

	PAGE	CODE
Marley Tile Co., Ltd.	114	0396
Maryat & Scott, Ltd.	136	1119
Maxwell, Andrew Division (The Liverpool Borax Co., Ltd.)	149	0363
Metallic Seamless Tube Co., Ltd.	98	0404
Metal Sections, Ltd.	71	0403
Miller, Wm. (Newcastle), Ltd.	123	0413
Ministry of Works	153	—
Morheat, Ltd.	146	1168
Morris, Alfred, Furnishings, Ltd.	60	0423
Nairn, Michael & Co., Ltd.	74, 75	0427
National Assn. of Master Asphalters	44	0428
National Coal Board	154	—
National Salt Glazed Pipe Manuf. Assn.	58, 59	1034
Newman, William, & Sons, Ltd.	88	0435
Newton Chambers & Co., Ltd.	100, 101	0437
Nife Batteries	94	0439
Northampton, County Borough of	159	—
Nu-Way Heating Plants, Ltd.	103	1250
Parking Development, Ltd.	66	1191
Pharaoh's Plywood Co., Ltd.	18	0912
Phillips Electrical, Ltd.	67	1148
Pilkington Brothers, Ltd.	82, 83	0474
Pilkington Brothers, Ltd.	110, 111	0468
Pitch Fibre Pipe Assn. of Great Britain	4	0390
Polybond, Ltd.	134	0481
Precon, Ltd.	109	0813
Previte & Co., Ltd.	136	0487
Pullin, R. B., & Co., Ltd.	89	0974
Pyrene Co., Ltd.	98	1256
Ramge Boilers, Ltd.	32	0498
Rank Precision Industries, Ltd.	19	0723
Rawlplug Co., Ltd.	13	0500
Reynolds & Co., Ltd.	64	0696
Rhodes Chains, Ltd.	8	0507
Richards Tiles, Ltd.	105	0508
Ruberoil Co., Ltd.	102	0521
Rubery Owen & Co., Ltd.	68	0522
Sanbra, Ltd.	138	1254
Sanigard Appliances, Ltd.	131	0534
Seaboard Lumber Sales Co., Ltd.	43	0542
Siegwart Floor Co., Ltd.	73	0556
Small & Parkes, Ltd.	171	0568
Sommerfelds, Ltd.	46	0576
Spos Products, Ltd.	10	0583
Steward, J. H., Ltd.	168	1178
Stramax Ceilings (G.B.), Ltd.	104	0603
Stramit Boards, Ltd.	84	0604
Swale Chemicals, Ltd.	147	1037
Tarmac Vinculum, Ltd.	152	0618
Taylor Woodrow (Arcon), Ltd.	49	0658
Taylor Woodrow, Ltd.	154	—
Teleng, Ltd.	171	0623
Thermacon, Ltd.	151	0629
Thermalite Ytong, Ltd.	93	0630
Thermalon, Ltd.	22, 23	1238
Thorp, John B.	168	0633
Tretol, Ltd.	9	0638
Trianco, Ltd.	146	0639
True Flue, Ltd.	134	0641
Truscon, Ltd.	168	1093
Unistrut, Ltd.	99	1252
Uni-Tubes, Ltd.	150	0652
Valor Co., Ltd.	115	0833
Venesta Plywood, Ltd.	38	0656
Venetian Vogue, Ltd.	112	0659
Versatile Fittings (W. H. S.), Ltd.	122	0663
Wadsworth, James, & Sons, Ltd.	145	0980
Wallpaper Manufacturers, Ltd.	118	0671
Walters, Austin & Son, Ltd.	152	0641
Wandsworth Electrical Manufacturing Co., Ltd.	54	0674
Ward & Co. (Letters), Ltd.	140	0676
Ward Bros. (Sherburn), Ltd.	50	1192
Wates, Ltd.	90	0684
Wates, Ltd.	160	—
Weatherfoil, Ltd.	4	0685
Wednesbury Tube Co., Ltd.	11	0686
Westland Engineers, Ltd.	13	0687
Wheatley & Co., Ltd.	3	0689
Williamson, Jas., & Son, Ltd.	10	0697
Wimpey, George, Ltd.	16	—
Winn, Charles, & Co., Ltd.	14	0699
Wood, E., Ltd.	12	1230
Yorkshire Imperial Metals, Ltd.	13	0705

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 _____

WHAT ARCHITECTS SEE

Wise architects guard against a profusion of Television Aerials protruding above the rooftop of some new project by specifying early a Communal Aerial System by Teleng—with one master aerial.



IN COMMUNAL AERIAL SYSTEMS

BY



For details on planning TV/FM RELAY SYSTEMS for concise estates of Flats or Houses and public Buildings write for U series Catalogue to:-

TELENG LIMITED

CHURCH ROAD, HAROLD WOOD, ROMFORD, ESSEX. Ingrebourne 42976-7-8



For good looks
For hard wear
For every stair*

Specify



Stairtreads

* 19 nosing types in pure aluminium, plastic-filled in choice of 9 colours (also fabric-filled).

Please send me your illustrated catalogue giving details of nosings, colours & dimensions of Don Stairtreads — and names of depots and suppliers.

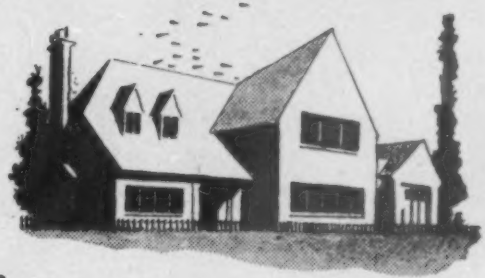
To Small & Parkes Ltd. (Stairtreads Dept.)
Hendham Vale Works, Manchester 9

Name

Address

SMALL & PARKES LTD.
HENDHAM VALE WORKS · MANCHESTER 9
London: 251 Kingston Road, London, S.W.19
CHerrywood 3806/7

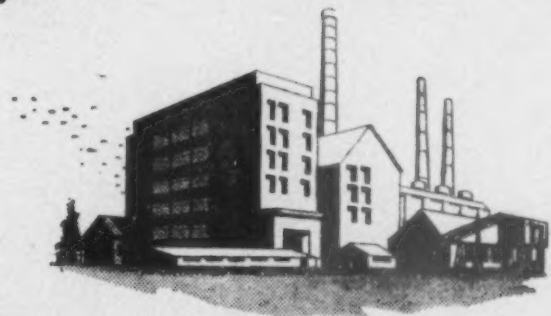
They all need Insulation ...



home ...



office ...



factory ...

They all need ...

ROCKSIL

REGD TRADE MARK

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

Write for full information.

WILLIAM KENYON & SONS (METAMICA) LIMITED
DUKINFIELD · CHESHIRE
MANUFACTURERS OF BUILDING INSULATION MATERIALS

Rocksil is manufactured by The Cape Asbestos Company Limited at Stirling.

KRS6

Alphabetical index to advertisers

	PAGE	CODE
Acme, Flooring & Paving Co. (1904), Ltd.	2	0004
Adshedd Hatchell & Co., Ltd.	132	0007
A.R.I. (Rugby) Ltd.	154	—
Air Control Installations, Ltd.	134	0010
Airscrew Company & Hewood, Ltd.	55	0011
Alfred Ironfounders	6	1049
Allom Hefler & Co., Ltd.	116	0018
Architectural Press, Ltd.	15, 162	0026
Atkins, W. S., Ltd.	152	—
Autotype Co., Ltd.	141	0043
Bakelite, Ltd.	154	—
Banister, Walton & Co., Ltd.	63	0047
Barbour Index, Ltd.	157	—
Barnards, Ltd.	142	0077
Bawn, W. B. & Co., Ltd.	142	0053
Baxendale, Richard, & Sons, Ltd.	46	0087
Rigwood Bros. (Birmingham), Ltd.	151	0064
Bolton Gate Co., Ltd.	106, 107	0078
Boat, Henry, & Son, Ltd.	127	0081
Boulton & Paul, Ltd.	12	1112
How Slate & Enamel Co., Ltd.	164	0083
Rowater Sales Co., Ltd.	129	0082
Bradford Glass Co., Ltd.	37	1249
Bratt Colbran, Ltd.	50	1138
Bristol Building Centre Ltd.	151	1186
British Coking Industry Association	36	0103
British Industrial Engineering, Ltd.	81	0096
British Lime Manufacturers	139	0752
British Monorail, Ltd.	130	0097
British Plaster Board (Manufacturing), Ltd.	96	0102
British Reinforced Concrete Eng. Co., Ltd.	172	0104
British Screw Co., Ltd.	80	0107
British Steam Specialties, Ltd.	140	1212
British Visqueen, Ltd.	95	0110
Broads Manufacturing Co., Ltd.	16	0112
Bronco, Ltd.	140	0100
Brooks & Co. (1925), Ltd.	148	1108
Broughton Moor Green Slate Quarries, Ltd.	168	0115
C.L.R.A. (A.R.L.), Ltd.	159	—
Cadbury Bros., Ltd.	153	—
Cascelloid	141	0784
Celotex, Ltd.	26, 27	0135
Cement Marketing Co., Ltd.	72	0136
Cloughton Bros., Ltd.	142	0116
Colt Ventilation, Ltd.	3	0152
Concrete Utilities, Ltd.	24	1115
Corder Engineering Co., Ltd.	31	0155
Corrosion Technical Services, Ltd.	77	1251
Costain Concrete Co., Ltd.	119	1100
Cox, P., Ltd.	139	0161
Croft Granite, Brick & Concrete Co., Ltd.	148	0170
D.D. Design, Ltd.	151	1187
Danks of Netherton, Ltd.	143	0176
Danks, Edwin, & Co. (Oldbury), Ltd.	150	0175
Davidsons Paper Sales, Ltd.	85	0178
Dexion, Ltd.	125	0179
Dowty Seals, Ltd.	135	1248
Dreadnought Fireproof Doors (1930), Ltd.	147	0190
Duplex Domes, Ltd.	145	0193
Du Pont Co. (United Kingdom), Ltd.	21	0818

	PAGE	CODE
Ellard Sliding Door Gears, Ltd.	141	0201
Ellis School of Architecture	168	0202
English Electric Co., Ltd.	160	—
English Joinery Manf. Assoc. (Inc.)	51	0788
Evered & Co., Ltd.	97	0209
Evode, Ltd.	7	0879
Expandite, Ltd.	17	0212
F.E.B. (Great Britain), Ltd.	5, 48	0216
Fablon, Ltd.	128	0213
Falk, Stadelmann & Co., Ltd.	126	0214
Fibreglass, Ltd.	30	0219
Flexaire, Ltd.	45	0227
Flinkote Co., Ltd.	34	0229
Floor Treatments, Ltd.	25	0231
French, Thomas, & Sons, Ltd.	69	0237
Furse, W. J., & Co., Ltd.	168	0241
Gas Council	86, 87	0246
General Electric Co., Ltd.	52, 53	0250
Granwood Flooring Co., Ltd.	132	0259
Greenwood's and Airvac Ventilating Co., Ltd.	11	0263
Gregory (Hedgerley), Ltd.	168	1215
Group Sales, Ltd.	92	0417
Gyproc Products, Ltd.	79	0266
Gypsum Plasterboard Development Assn.	76	0267
Hall, Robert H., & Co. (Kent), Ltd.	65	0271
Hatherware, Ltd.	168	0691
Hings & Hill, Ltd.	35	—
Hill Brothers (Service), Ltd.	143	0918
Hills, F., & Sons, Ltd.	57	1001
Hills (West Bromwich), Ltd.	117	0297
Hollis Bros., Ltd.	33	0300
Home Fittings (Great Britain), Ltd.	144	0307
Hull Steel Radiators, Ltd.	134	1214
Hume Atkins & Co., Ltd.	62	0840
Ideal Boilers & Radiators, Ltd.	133	1122
Imperial Chemical Industries, Ltd.	42	0319
Imperial Chemical Industries, Ltd.	28	0617
Jones, T. C., & Co., Ltd.	29	0333
Kay & Co. (Engineers), Ltd.	137	0715
Kay, William (Bolton), Ltd.	149	0335
Kaye, Joseph, & Sons, Ltd.	61	1121
Kenrick, Archibald, & Sons, Ltd.	146	0337
Kenyon, Wm., & Sons (Metamie), Ltd.	171	0338
Kidde, Walter, & Co., Ltd.	78	1197
Kirkstone Green Slate Quarries, Ltd.	168	0739
Kleine Co., Ltd.	14	1022
L. & G. Fire Appliance Co., Ltd.	136	0932
Laing, John, & Son, Ltd.	159	—
Lakeland Green Slate & Stone Co., Ltd.	137	1237
Lamont, James, H., & Co., Ltd.	135	0346
Land Development Association	20	0709
Lenderflush (Doors), Ltd.	47	0347
Lind, Peter, Ltd.	91	1253
Littlewoods Mail Order Stores, Ltd.	153	—
Lye Trading Co., Ltd.	145	1255
McKinney Foundations, Ltd.	120	0793
Management Selection, Ltd.	159	—
Marley Concrete, Ltd.	152	0388

	PAGE	CODE
Marley Tile Co., Ltd.	114	0590
Marrvat & Scott, Ltd.	136	1110
Maxwell, Andrew Division (The Liverpool Borax Co., Ltd.)	149	0365
Metallic Seamless Tube Co., Ltd.	98	0104
Metal Sections, Ltd.	71	0403
Miller, Wm. (Newcastle), Ltd.	123	0413
Ministry of Works	153	—
Morheat, Ltd.	146	1108
Morris, Alfred, Furnishings, Ltd.	60	0423
Nairn, Michael & Co., Ltd.	74, 75	0427
National Assn. of Master Asphalters	44	0428
National Coal Board	154	—
National Salt Glazed Pipe Manuf. Assn.	58, 59	1054
Newman, William, & Sons, Ltd.	88	0435
Newton Chambers & Co., Ltd.	100, 101	0437
Nife Batteries	94	0439
Northampton, County Borough of	159	—
No-Way Heating Plants, Ltd.	103	1230
Parking Development, Ltd.	66	1191
Pharrah's Plywood Co., Ltd.	18	0912
Phillips Electrical, Ltd.	67	1148
Pilkington Brothers, Ltd.	82, 83	0474
Pilkington Brothers, Ltd.	110, 111	0468
Pitch Fibre Pipe Assn. of Great Britain	4	0590
Polybond, Ltd.	134	0481
Precon, Ltd.	109	0815
Previte & Co., Ltd.	136	0487
Pullin, R. B. & Co., Ltd.	89	0974
Pyrene Co., Ltd.	98	1236
Range Boilers, Ltd.	32	0498
Rank Precision Industries, Ltd.	19	0723
Rawlplug Co., Ltd.	13	0500
Reynolds & Co., Ltd.	64	0096
Rhodes Chains, Ltd.	8	0507
Richards Tiles, Ltd.	105	0508
Ruberoil Co., Ltd.	102	0521
Rubery Owen & Co., Ltd.	68	0522
Sanbra, Ltd.	138	1254
Saniguard Appliances, Ltd.	151	0534
Seaboard Lumber Sales Co., Ltd.	43	0542
Siegmart Floor Co., Ltd.	73	0536
Small & Parkes, Ltd.	171	0568
Sommerfelds, Ltd.	40	0576
Spos Products, Ltd.	10	0583
Steward, J. H., Ltd.	168	1178
Stramax Ceilings (G.B.), Ltd.	104	0603
Stramit Boards, Ltd.	84	0604
Swale Chemicals, Ltd.	147	1037
Tarmac Vinculum, Ltd.	152	0618
Taylor Woodrow (Arcon), Ltd.	49	0638
Taylor Woodrow, Ltd.	154	—
Teleng, Ltd.	171	0623
Thermacoust, Ltd.	151	0629
Thermalite Ytong, Ltd.	95	0630
Thermalum, Ltd.	22, 25	1238
Thorp, John B.	168	0633
Trotel, Ltd.	9	0638
Trianco, Ltd.	146	0639
True Flue, Ltd.	171	0641
Truscon, Ltd.	168	1035
Unistrut, Ltd.	95	1252
Uni-Tubes, Ltd.	150	0652
Valor Co., Ltd.	11	0833
Venesta Plywood, Ltd.	38	0636
Venetian Vogue, Ltd.	112	0959
Versatile Fittings (W. H. S.), Ltd.	122	0663
Wadsworth, James, & Sons, Ltd.	14	0980
Wallpaper Manufacturers, Ltd.	11	0671
Walters, Austin & Son, Ltd.	15	0641
Wandsworth Electrical Manufacturing Co., Ltd.	5	0674
Ward & Co. (Letters), Ltd.	14	0676
Ward Bros. (Sherburn), Ltd.	3	1192
Wates, Ltd.	3	0684
Wates, Ltd.	16	—
Weatherfoil, Ltd.	4	0685
Wednesbury Tube Co., Ltd.	11	0686
Westland Engineers, Ltd.	13	0687
Wheatley & Co., Ltd.	5	0689
Williamson, Jas., & Son, Ltd.	16	0697
Wimpey, George, Ltd.	16	—
Winn, Charles, & Co., Ltd.	141	0699
Wood, E., Ltd.	131	1230
Yorkshire Imperial Metals, Ltd.	12	0705

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 _____

WHAT ARCHITECTS SEE

Wise architects guard against a profusion of Television Aerials protruding above the rooftop of some new project by specifying early a Communal Aerial System by Teleng—with one master aerial.



IN COMMUNAL AERIAL SYSTEMS

BY



Architects are assured not only that their project will be unmarred externally but internally it will be equipped—again unobtrusively—with a perfect wired TV/Radio Network. This can be designed to cover any specified area and number of outlets and assures interference free reception on any branded receiver.

For details on planning TV/FM/RELAY SYSTEMS for concise estates of Flats or Houses and public Buildings write for U series Catalogue to:-

TELENG LIMITED

CHURCH ROAD, HAROLD WOOD, ROMFORD, ESSEX. Ingrebourne 42976-7-8



For good looks
For hard wear
For every stair*

Specify



Stairtreads

* 19 nosing types in pure aluminium, plastic-filled in choice of 9 colours (also fabric-filled).

Please send me your illustrated catalogue giving details of nosings, colours & dimensions of Don Stairtreads—and names of depots and suppliers.

To Small & Parkes Ltd. (Stairtreads Dept.)
Hendham Vale Works, Manchester 9

Name

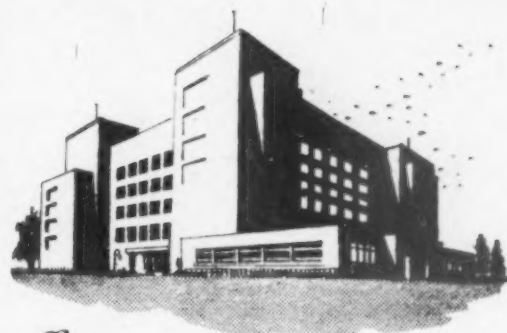
Address

SMALL & PARKES LTD.
HENDHAM VALE WORKS - MANCHESTER 9
London: 251 Kingston Road, London, S.W.19
CHERRYWOOD 3806/7

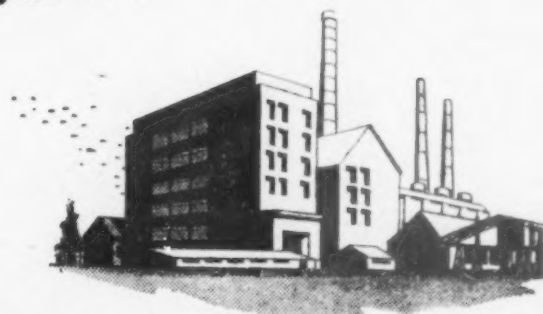
They all need Insulation ...



home ...



office ...



factory ...

They all need ...

ROCKSIL

REGD. TRADE MARK

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

Write for full information.

WILLIAM KENYON & SONS (METAMICA) LIMITED
DUKINFIELD CHESHIRE
MANUFACTURERS OF BUILDING INSULATION MATERIALS

Rocksil is manufactured by The Cape Asbestos Company Limited at Stirling.

KRS6

ROOFS

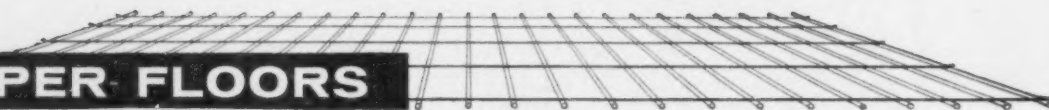


BRC FABRIC

WITHIN A CONCRETE SLAB

fulfils the engineers'
requirements accurately

UPPER FLOORS



Mechanical perfection in the manufacture of BRC electrically welded fabric reinforcement ensures that the exact sectional area of steel per foot width is always maintained.



GROUND FLOORS

THE BRITISH REINFORCED CONCRETE ENGINEERING CO. LTD., STAFFORD

London, Birmingham, Bristol, Chelmsford, Leeds, Leicester, Liverpool, Manchester, Newcastle, Cardiff, Glasgow, Dublin, Belfast, Bulawayo, Calcutta, Johannesburg, Singapore, Vancouver.

Export Sales: 54 Grosvenor Street, London W.1

H-W.1000

