

JAN 29 1951

THE ARCHITECTS' JOURNAL



standard contents

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

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Wanted and Vacant

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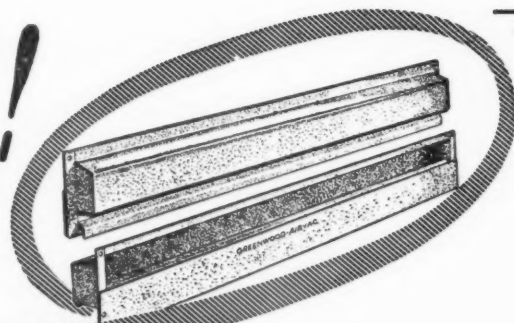
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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to I one week, I to Z the next. In all cases where the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

- AA Architectural Association, 34/6, Bedford Square, W.C.1. Museum 0974
AAI Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.
ABS Architects' Benevolent Society, 66, Portland Place, W.1. Langham 5721
ABT Association of Building Technicians, 5, Ashley Place, S.W.1. Victoria 0447-8
ACGB Arts Council of Great Britain, 4, St. James' Square, S.W.1. Whitehall 9737
ADA Aluminium Development Association, 33, Grosvenor Street, W.1. Mayfair 7501/8
APRR Association for Planning and Regional Reconstruction, 34, Gordon Square, W.C.1. Euston 2158-9
ArchSA Architectural Students' Association, Department of Architecture, School of Building, Ferndale Road, Brixton, S.W.4. Brixton 7048
ARCUK Architects' Registration Council, 68, Portland Place, W.1. Welbeck 9738
ASB Architectural Science Board of the Royal Institute of British Architects, 66, Portland Place, W.1. Langham 5721
AScW Association of Scientific Workers, 15, Half Moon Street, Piccadilly, W.1. Grosvenor 4761
BAE Board of Architectural Education, 66, Portland Place, W.1. Langham 5721
BATC Building Apprenticeship and Training Council, Lambeth Bridge House, S.E.1. Reliance 7611, Ext. 1706
BC Building Centre, 9, Conduit Street, W.1. Mayfair 8641/6
BCC British Colour Council, 13, Portman Square, W.1. Welbeck 4185
BCCF British Cast Concrete Federation, 17, Amherst Road, Ealing, W.13. Perivale 6869
BCIRA British Cast Iron Research Association, Alvechurch, Birmingham. Redditch 716
BDA British Door Association, 10, The Boltons, S.W.10. Flaxman 7766
BEDA British Electrical Development Association, 2, Savoy Hill, W.C.2. Temple Bar 9434
BGF British Gas Federation, 1, Grosvenor Place, S.W.1. Sloane 8266
BIA British Ironfounders' Association, 145, Vincent Street, Glasgow, C.2. Glasgow Central 2891
BIAE British Institute of Adult Education, 29, Tavistock Square, W.C.1. Euston 5385
BID Building Industries Distributors, 52, High Holborn, W.C.1. Chancery 7772
BINC Building Industries National Council, 11, Weymouth Street, W.1. Langham 2785
BOT Board of Trade, Millbank, S.W.1. Whitehall 5140
BRS Building Research Station, Bucknalls Lane, Watford. Garston 2246
BSA Building Societies Association, 14, Park Street, W.1. Mayfair 0515
BSI British Standards Institution, 28, Victoria Street, S.W.1. Abbey 3333
BTE Building Trades Exhibition, 4, Vernon Place, W.C.1. Holborn 8146/7
CABAS City and Borough Architects Society, C/o Johnson Blackett, F.R.I.B.A., Borough Architect, Town Hall, Newport, Mon. Newport 3111
CAS County Architects Society, C/o F. R. Steele, F.R.I.B.A., County Hall, Chichester. Chichester 3001
CCA Cement and Concrete Association, 52, Grosvenor Gardens, S.W.1. Sloane 5255
CCP Council for Codes of Practice, Lambeth Bridge House, S.E.1. Reliance 7611
CDA Copper Development Association, Kendals Hall, Radlett, Herts. Radlett 5616
CIAM Congrès Internationaux d'Architecture Moderne, Dolderhof, 7, Zurich, Switzerland.
CID Council of Industrial Design, Tilbury House, Petty France, S.W.1. Whitehall 6322
CPRE Council for the Preservation of Rural England, 4, Hobart Place, S.W. Sloane 4280
CUJC Coal Utilization Joint Council, 13, Grosvenor Gardens, London, S.W.1. Victoria 1534
CVE Council for Visual Education, 13, Suffolk Street, Haymarket, S.W.1. Reading 72255
DGW Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1. Reliance 7611
DIA Design and Industries Association, 13, Suffolk Street, S.W.1. Whitehall 0540
DOT Department of Overseas Trade, 35, Old Queen Street, S.W.1. Victoria 9040
EJMA English Joinery Manufacturers' Association (Incorporated), Sackville House, 40, Piccadilly, W.1. Regent 4448
EPNS English Place-Name Society, 7, Selwyn Gardens, Cambridge.
FAS Faculty of Architects and Surveyors, 8, Buckingham Palace Gdns., S.W.1. Sloane 2837
FASSC Federation of Association of Specialists and Sub-Contractors, 21, Tothill Street, S.W.1. Whitehall 9696
FBI Federation of British Industries, 21, Tothill Street, S.W.1. Whitehall 6711
FC Forestry Commission, 25, Savile Row, W.1.
FCMI Federation of Coated Macadam Industries, 37, Chester Square, S.W.1. Sloane 1002
FDMA The Flush Door Manufacturers Association Ltd. Trowell, Nottingham. Ilkeston 623
FLD Friends of the Lake District, Pennington House, nr. Ulverston, Lancs. Ulverston 201
FMB Federation of Master Builders, 26, Great Ormond Street, Holborn, W.C.1. Chancery 7583
FOB 1951 Festival of Britain 1951, 2, Savoy Court, Strand, W.C.2. Waterloo 1951
FPC The Federation of Painting Contractors, St. Stephen's House, S.W.1. Whitehall 3902
FRHB Federation of Registered House Builders, 82, New Cavendish Street, W.1. Langham 4041
FS (Eng.) Faculty of Surveyors of England, 8 Buckingham Palace Gdns., S.W.1. Sloane 2837
GG Georgian Group, 27, Grosvenor Place, S.W.1. Sloane 2844
HC Housing Centre, 13, Suffolk Street, Pall Mall, S.W.1. Whitehall 2881
IAAS Incorporated Association of Architects and Surveyors, 75, Eaton Place, S.W.1. Sloane 5615
ICA Institute of Contemporary Arts, 17-18, Dover Street, Piccadilly, W.1. Grosvenor 6186
ICE Institution of Civil Engineers, Great George Street, S.W.1. Whitehall 4577
IEE Institution of Electrical Engineers, Savoy Place, W.C.2. Temple Bar 7676
IES Illuminating Engineering Society, 32, Victoria Street, S.W.1. Abbey 5215

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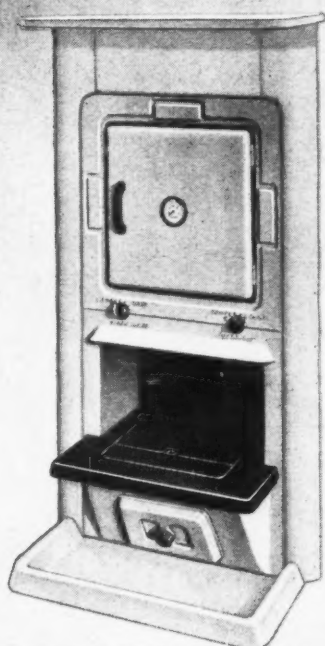
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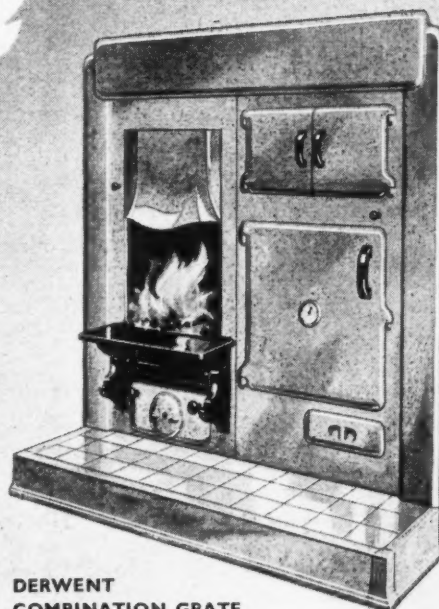


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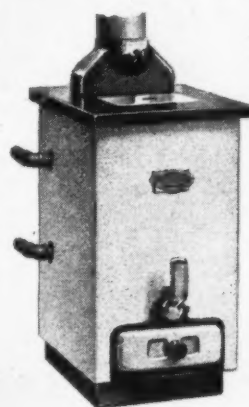
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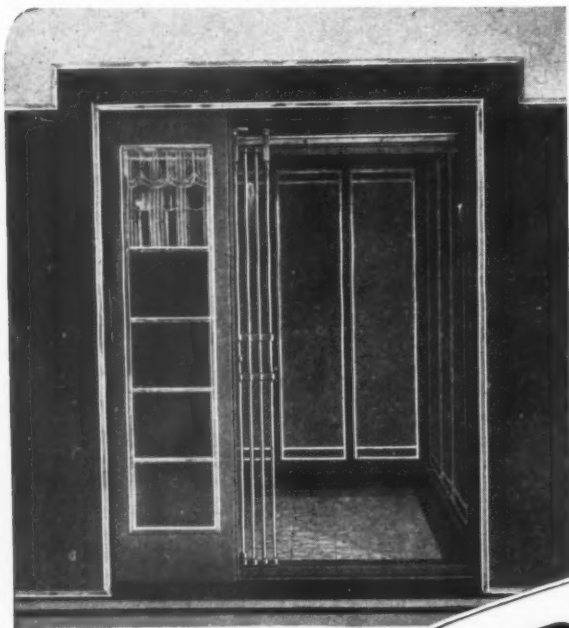
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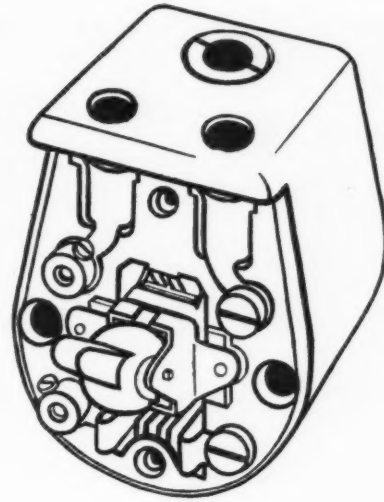
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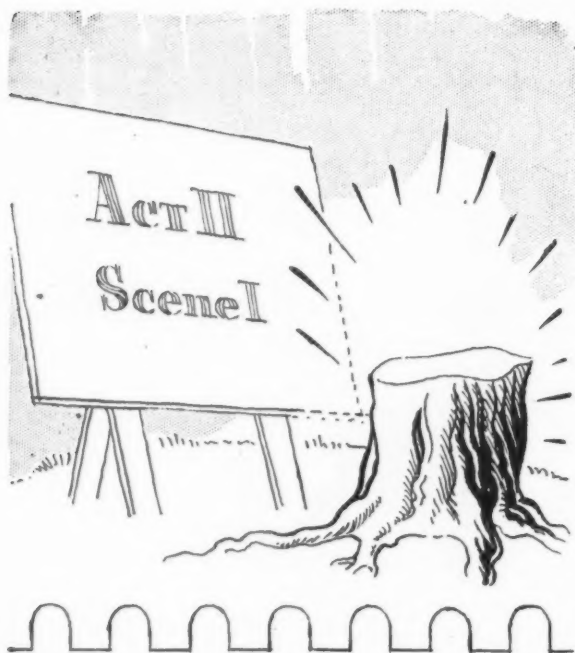
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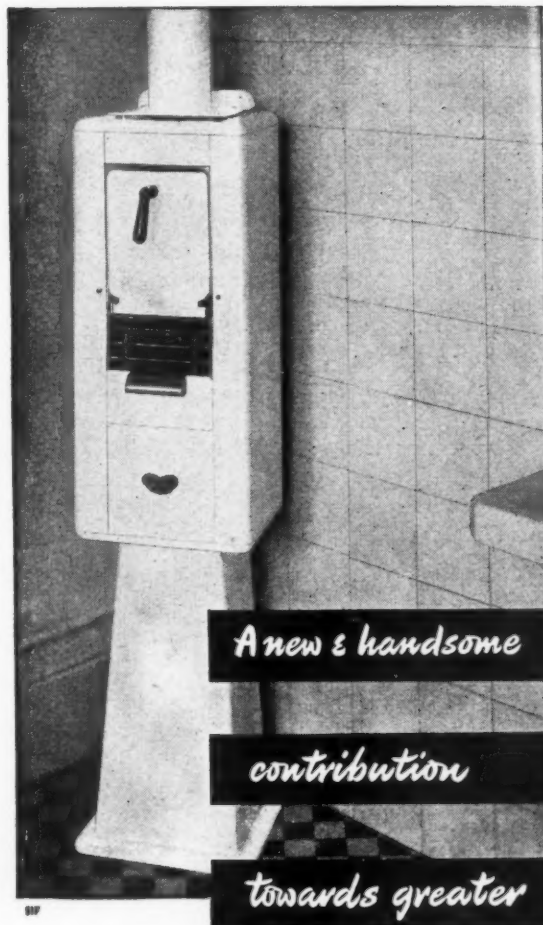
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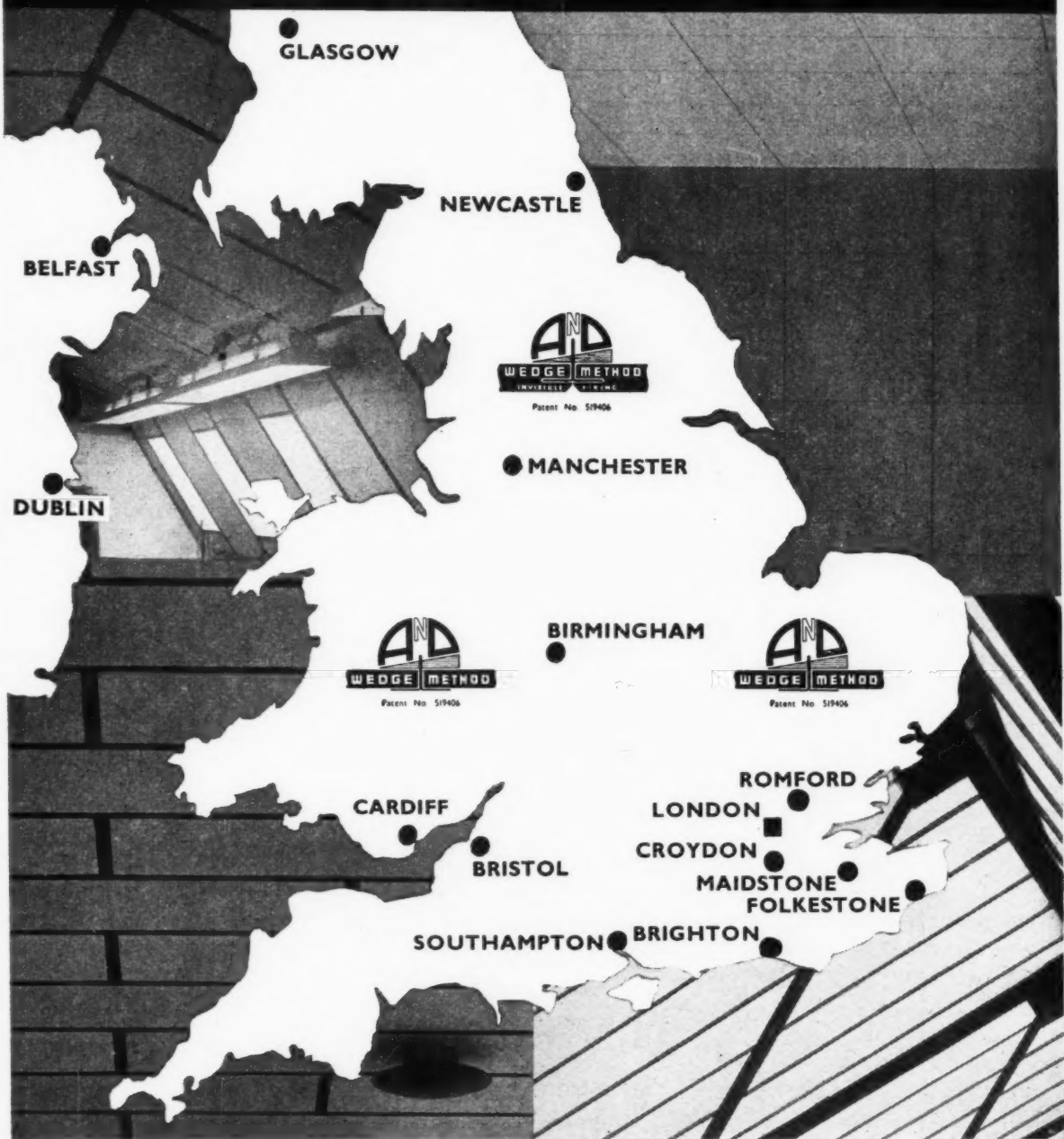
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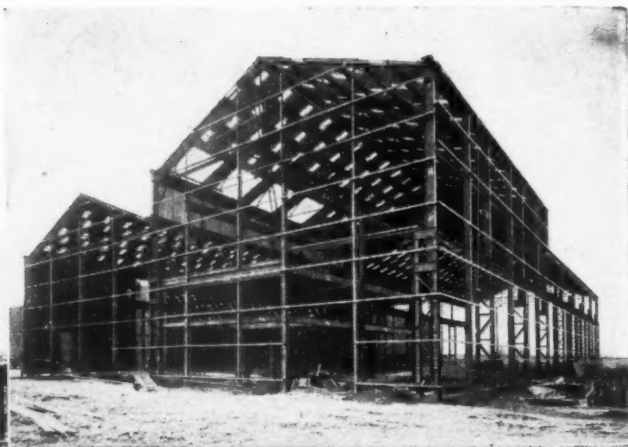
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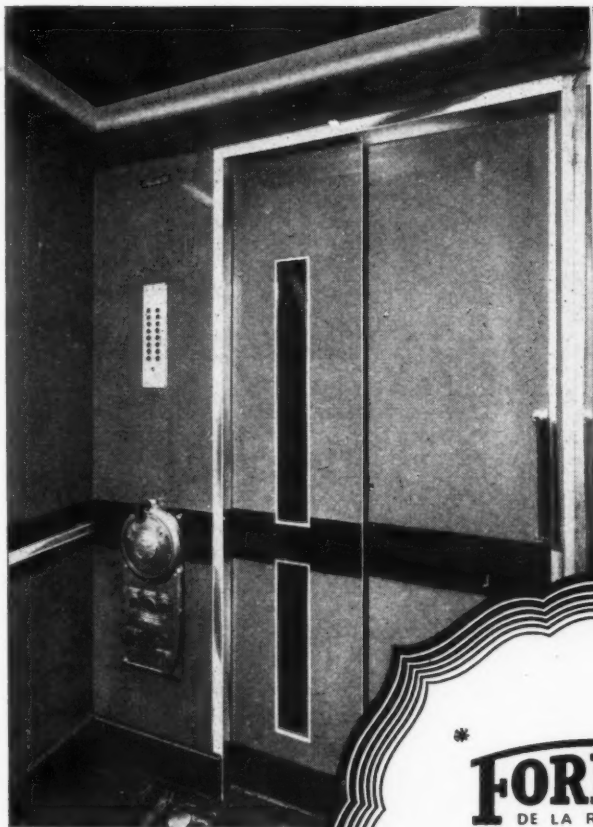
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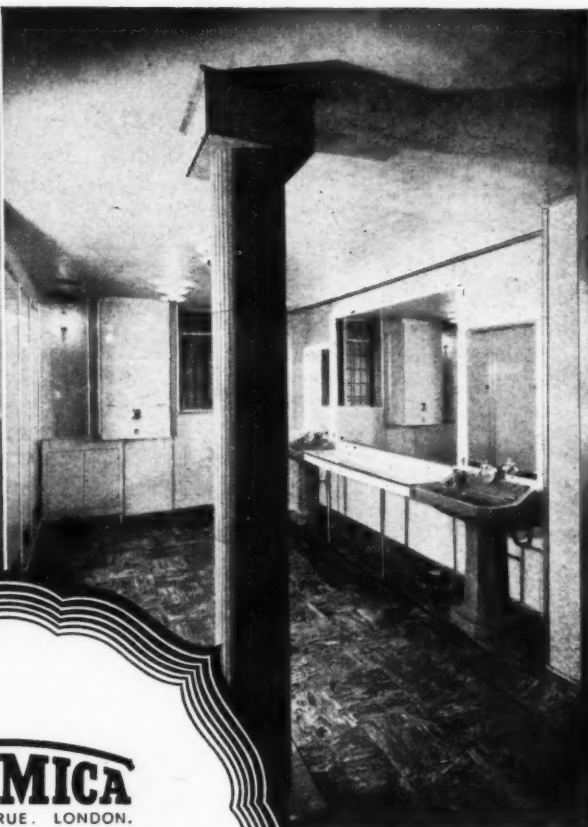
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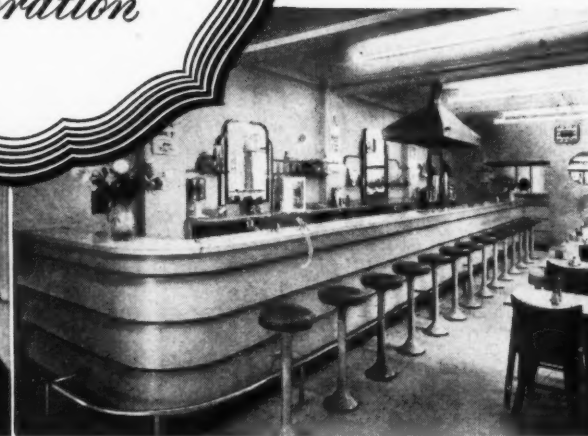
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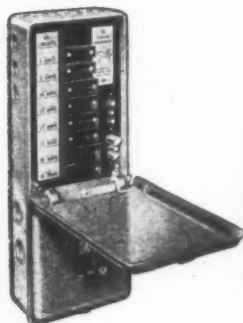
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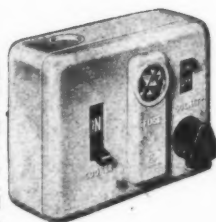
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Folder 143 relates.



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Pressure die-cast zinc base alloy case stove-enamelled cream. Arranged for mechanical and pilot light indication. Sub-circuit outlet socket and plug 5 amp. to BS. 546, or 13 amp. to BS. 1363. All controlling switches of quick make and break type. Size $7\frac{1}{2}" \times 5\frac{1}{2}"$ projection 3". List No. C.310 with 5 amp. outlet. List No. C.313 with 13 amp. outlet. List price for either type 22/4 (excluding lamp).

Folder 142 relates.



"SANDEENA" COOKER CONTROL UNIT

Standardised unit in pressure die-cast aluminium case stove-enamelled cream. A.C. controlling switches with mechanical indication only, and 13 amp. socket to BS. 1363. Size $6" \times 5\frac{1}{2}" \times 3\frac{1}{4}"$ projection over plug. List price 14/- List No. C.313.

Folder 147 relates.



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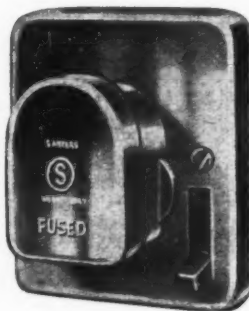
Folder 146 relates.



"SANDERS" SAFETY SOCKET AND FUSED PLUG

Sunk. Pattern without switch to BS. 1363. Size over plate $3\frac{1}{2}" \times 3\frac{1}{2}" \times 1\frac{1}{2}"$ projection over plug. Cartridges for plug are to BS. 1362, 3 amp., 7 amp. and 13 amp. List No., Switch Socket only, QD. 313. List price 21/- DOZEN. List No. Fused plugs only, PF. 313. List price 19/8 DOZEN.

Folders 144 and 146 relate.



"SANDERS" SAFETY SWITCH SOCKET WITH A.C. CONTROLLING SWITCH & FUSED PLUG

To BS. 1363 where applicable. Sunk type. Size over plate $3\frac{1}{2}" \times 3\frac{1}{2}" \times 1\frac{1}{2}"$ projection over plug. Cartridges for plug are to BS. 1362, rated at 3 amps., 7 amps. or 13 amps. List No., Switch socket only, GG.313. List price 38/- DOZEN. List No., Fused Plugs only, PF.313. List price 19/8 DOZEN.

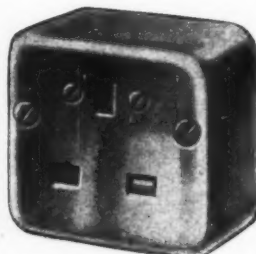
Folder 146 relates.



"SANDERS" SAFETY SWITCH SOCKET WITH A.C. CONTROLLING SWITCH & FUSED PLUG

To BS. 1363 where applicable. Surface type, overall size $2\frac{1}{2}" \times 2\frac{1}{2}" \times 2\frac{1}{2}"$ projection over plug. Cartridges for plug are to BS. 1362 rated at 3 amps., 7 amps. and 13 amps. List No., Switch Socket only, LL.313. List price 43/- DOZEN. List No., Fused Plugs only, PF.313. List price 19/8 DOZEN.

Folder 146 relates.



"SANDERS" SAFETY SOCKET AND FUSED PLUG

Surface pattern without switch to BS. 1363 where applicable. Overall size $2\frac{1}{2}" \times 2\frac{1}{2}" \times 2\frac{1}{2}"$ projection over plug. Cartridges for plug are to BS. 1362, rated at 3 amps., 7 amps. and 13 amps. List No. Socket only, RA.313. List price 21/8 DOZEN. List No., Fused Plugs only, PF.313. List price 19/8 DOZEN.

Folder 146 relates.

PRICES ABOVE ARE BASIC PRICES WHICH AT PUBLICATION DATE BEAR AN ADVANCE OF 110%

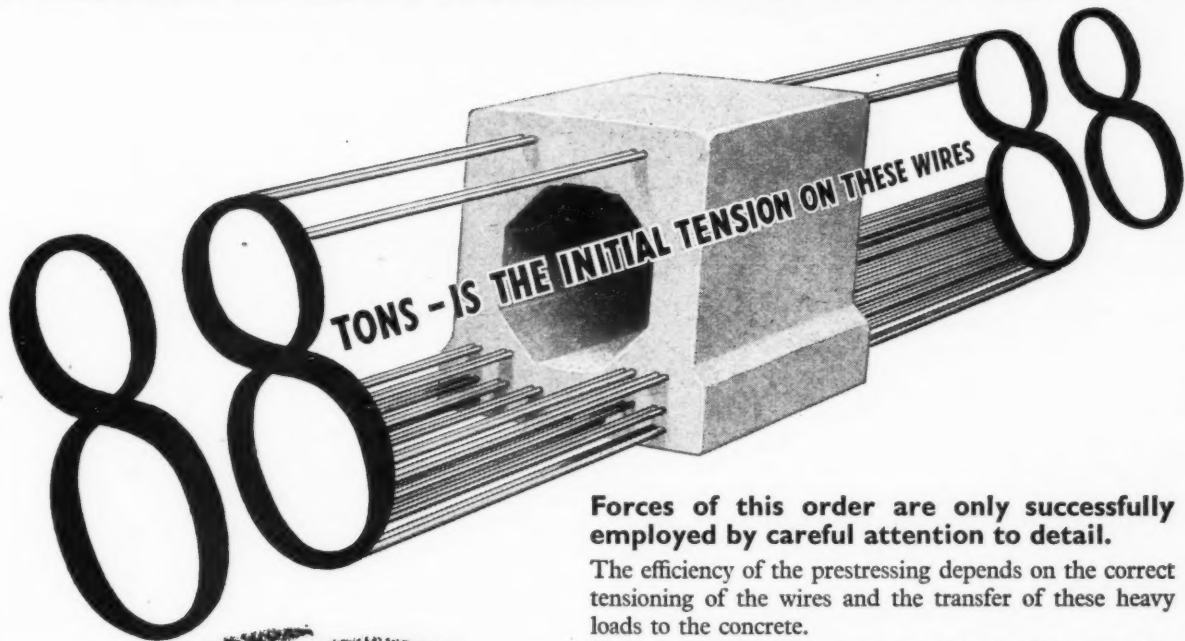
SANDERS
WEDNESBURY

WM. SANDERS & CO (WEDNESBURY) LTD., WEDNESBURY, STAFFS.

DOW-MAC

FOR

PRESTRESSED CONCRETE



**CONTROLLED
FORCES**

Forces of this order are only successfully employed by careful attention to detail.

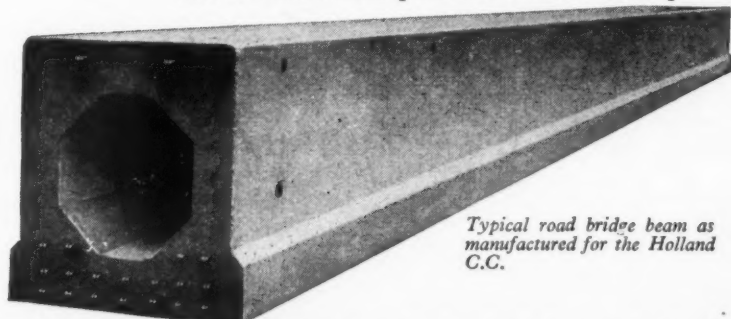
The efficiency of the prestressing depends on the correct tensioning of the wires and the transfer of these heavy loads to the concrete.

High tensile steel wire having special qualities must be employed for prestressing.

The concrete must be of highest grade, made to rigid specification and subject to closest control.

The moulds must be made to close limits to ensure that the concrete units are true to dimensions.

These operations demand experience, skill and close supervision. All are provided by the Dow-Mac organisation, who will be pleased to advise on your specific requirements for prestressed concrete railway sleepers, roof and floor beams, bridge beams, piles, walings, electric transmission poles and other concrete products.



Typical road bridge beam as manufactured for the Holland C.C.

DOW-MAC (PRODUCTS) LIMITED, TALLINGTON, STAMFORD, LINCOLNSHIRE
TELEPHONE: PETERBOROUGH 4501 (8 lines)

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MARTYN BITUMINOUS FLOORS offer many advantages . . .

One of the main features of Martyn Bituminous flooring is its resiliency, a quality which enables it to stand up to the heaviest traffic conditions and to any amount of vibration. In fact, the flooring actually improves with wear, becoming more compact; marks and indentations which may appear when the floor is first laid, soon work out with use. Martyn Bituminous is damp-proof, dust-proof, ductile, warm and noiseless to the feet. It is laid cold; is completely odourless at all stages; is resistant to fire and unaffected by changes in temperature. The floor can be laid direct on to a clean concrete base without screeding. The colours available are black, dark red, middle red and dark brown.

INDUSTRIAL FLOORING LAID FOR

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Chiswick Mall, London, W.4
Consulting Engineers:
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JOINERY WORKS,
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Another Problem solved by **FLEETWOOD!**



DURAMATT

FLAT WALL PAINT

**MAY BE APPLIED DIRECT TO
THESE SURFACES WITHOUT
PRIMING OR SEALING**

**New PLASTER
New CEMENT
New CONCRETE
New ASBESTOS
New PATENT
WALL BOARD
New PLASTER
BOARD**

DURAMATT is unaffected by the chemical action in any of these materials and allows contained moisture in the walls to come through without risk of saponification or flaking. Efflorescent salts can be washed off without damaging the paint film.

DURAMATT cuts cost because one coat only direct to wall surface is necessary to give a solid lasting finish which may be repeatedly washed. Further coats may be safely applied if desired.

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DURAMATT is inert, non-poisonous and hygienic and is available in white and twelve lovely pastel shades all of which are fast to lime, alkali, etc.

CONDENSATION DOES NOT FORM ON ANY POROUS SURFACE DECORATED WITH DURAMATT

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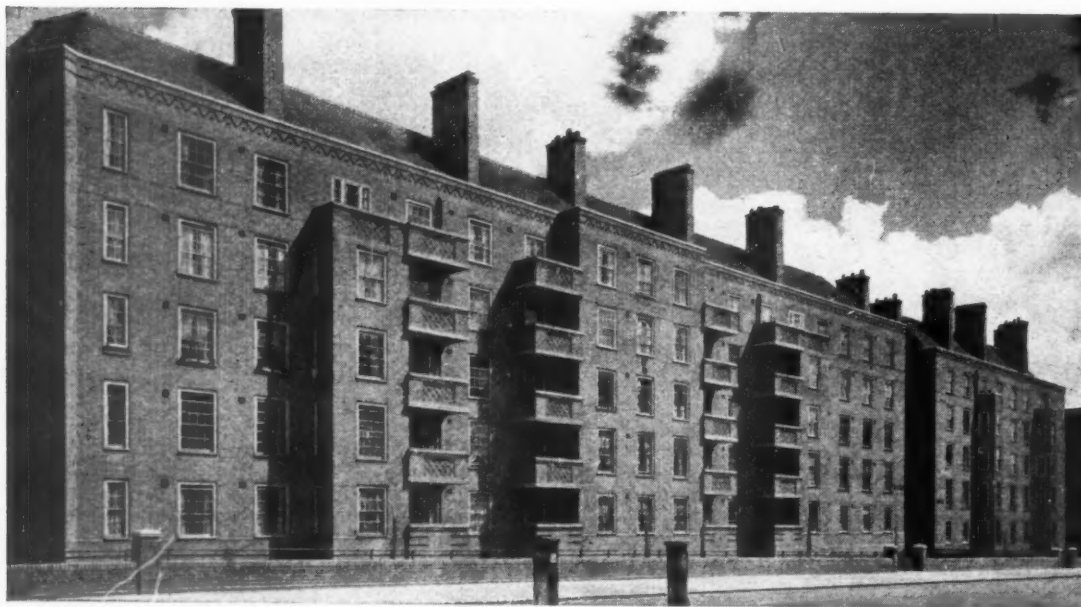
FLEETWOOD PAINTS LIMITED, PRINCE STREET, DEPTFORD, LONDON, S.E.8



Housing for Stratford-on-Avon R.D.C. at Welford-on-Avon.
Architects : Messrs. Yorke & Barker, F/L.R.I.B.A.

'IT IS NECESSARY to ensure that the formality of the town and the comparative informality of the countryside shall be expressed by a sensitive use of available materials'

— THE HOUSING MANUAL, 1949

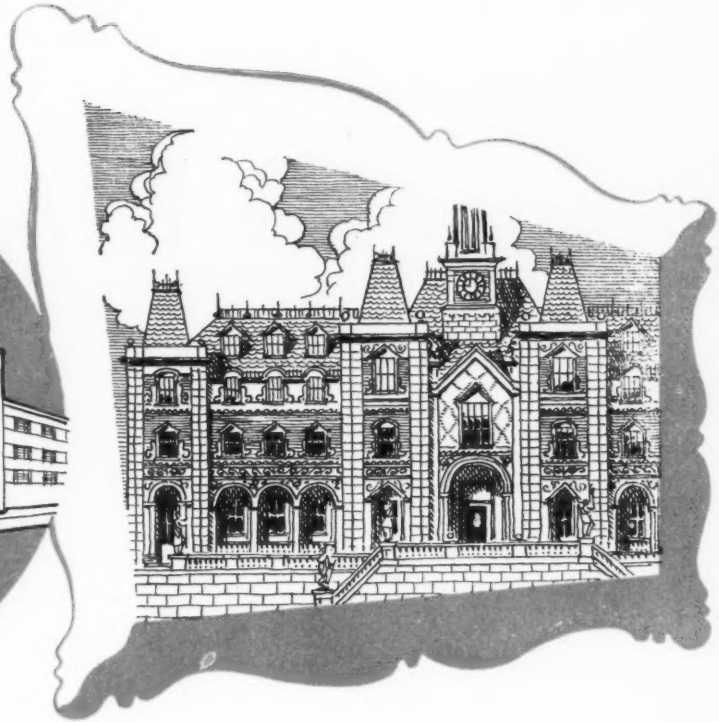
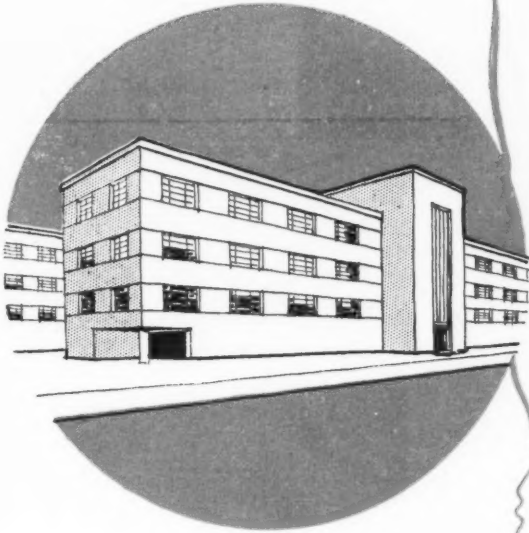


Flats for London County Council at Pembury Road, Hackney.
Director of Housing and Valuer : Cyril H. Walker, O.B.E., M.C., F.R.I.C.S., L.R.I.B.A.

Brick IS SO ADAPTABLE

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

FUNCTIONAL



or Fanciful

Function and fancy are both satisfied by a Docker finish—the first by its protective strength, and the second by its pleasing shade. Whatever the scheme there is always a Docker Finish that has been “made for the job.”



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Super Gloss Paint decorates, protects and preserves under the most arduous conditions. For interior decoration of the highest quality specify MUROLEUM Flat Oil Paint.



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Makers of Paints, Lacquers and Varnishes for every purpose

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FOR 25 YEARS WE HAVE
SPECIALISED IN ALL TYPES OF
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(ACID & NON-ACID PROOF)
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This is a CARRON product
made by modern CARRON
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CARRON DOUBLE OVEN GAS RANGE

with double doors • Each oven double-cased and packed
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sheet steel linings • One pair hangers, two oven
grid shelves, drip tin, and browning shelf • Hygienic and
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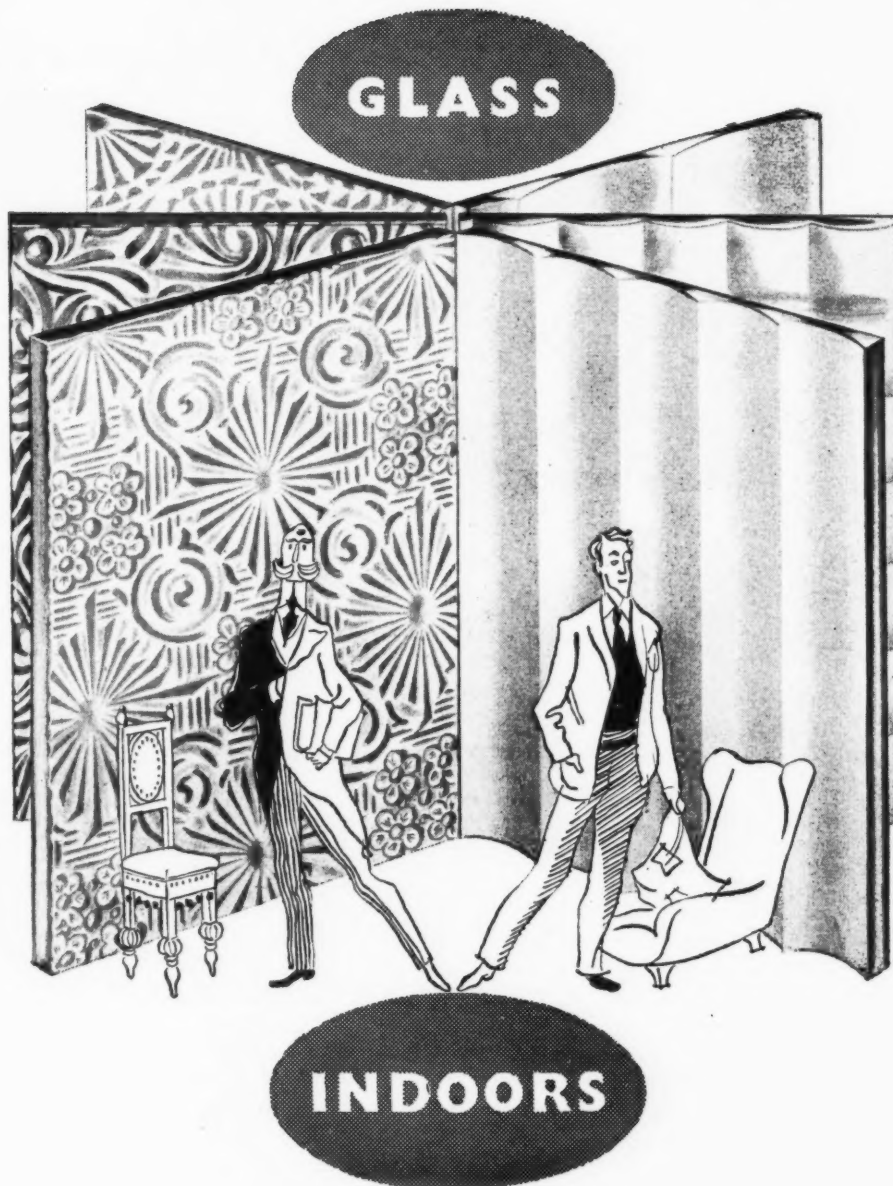
ed Flags



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London
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Fifty years ago (or less) a phrase like "The decorative possibilities of glass" could have referred to windows moulded in imitation frost-spangles, to panels rich with ruby interlacings, to gilded humming birds on overmantels. Today it could not. Shall we regret the change? Chance Reeded and Reedlyte glasses are of the present time. Indoors and out, in flats, hotels and offices, in screens, partitions, lights, they give *directional emphasis* without fuss, *privacy* without obscurity, *texture* without traps for dust.



CHANCE REEDED

- Narrow Reeded ($\frac{1}{8}$ in. ribs)
- Broad Reeded ($\frac{3}{8}$ in. ribs)
- Major Reeded ($1\frac{1}{4}$ in. ribs)
- Cross Reeded ($\frac{1}{2}$ in. ribs)

CHANCE REEDLYTE

- A stipple-finish version of Reeded to give increased obscuring power.
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The maximum size of the above glasses is 100 in. x 42 in.

Free samples of glass and detailed literature will be forwarded on request.

FOR SCIENCE, INDUSTRY AND THE HOME

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LONDON OFFICE: 28 St. James's Square, London, S.W.1. Telephone: Whitehall 1603. Branch Works at Glasgow, St. Helens and Malvern

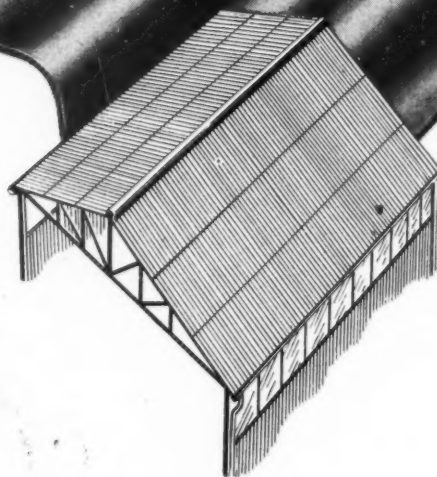
DOES NOT CORRODE

DOES NOT SPREAD FLAME

IS SAFE TO WALK ON

**AT LAST—
HERE IS THE PERFECT
ROOFING SHEET
"CORROPLAST"**

- Is wind and weather proof
- Is very light in weight—easy to handle
- Saves steelwork
- Has a high strength/weight ratio
- Is safe to walk on even after prolonged exposure to corrosive atmospheres
- Can be fixed at an economical span
- Resistant to corrosion at both edge and bolt holes
- Has a very long life
- Requires no maintenance
- Resists fire—does not spread flame
- Is available in pastel colours—reflects light
- Is available in pastel colours—reflects light inside, looks attractive outside
- Has high resistance to impact loads
- Is vermin proof
- Is licence free,



Colours (on both or either side) Dark chocolate brown (recommended for Industrial Atmospheres), pastel stove enamelled colours : blue, pink, green, French grey, white and cream. Self coloured sheets are available in brown and corn. The hammered surface of "Corroplast" prevents glare from sunlight.

"CORROPLAST"

**A PHENOL-
FORMALDEHYDE
LAMINATE**

MANUFACTURED BY
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SEALOCRETE AND SEALANTONE

CASE HARDENED · WATERPROOF
DUSTPROOF & COLOURFUL

*MAKE
CONCRETE
OR CEMENT
WHAT IT
SHOULD BE*

INFORMATION SHEET ON

SEALOCRETE METALLIC HARDENER

FOR PRODUCING
CASE HARDENED, HEAVY DUTY,
DUSTLESS, WATERPROOF FLOORS

WHAT IT IS

Specially ground and graded metallic substance, free from non-ferrous compounds.

WHAT IT DOES

Gives Case Hardened, Hard Wearing Waterproof, Dustless surface to granolithic floors.

WHAT TO USE IT IN

Floors of Bakeries, Breweries, Canneries, Factories, Warehouses, Dock Buildings, Harbours, Foundries, Power Stations, etc.

HOW TO USE IT

Mix with dry cement, finally adding granite aggregates and water.

Lay on in usual manner for granite floors. In cases of heavy duty floors, we suggest this material be dusted on the face of the new cement work immediately it has been placed and levelled in addition to incorporating it throughout the final thickness of granite topping.

FOR FURTHER PARTICULARS WRITE TO: —

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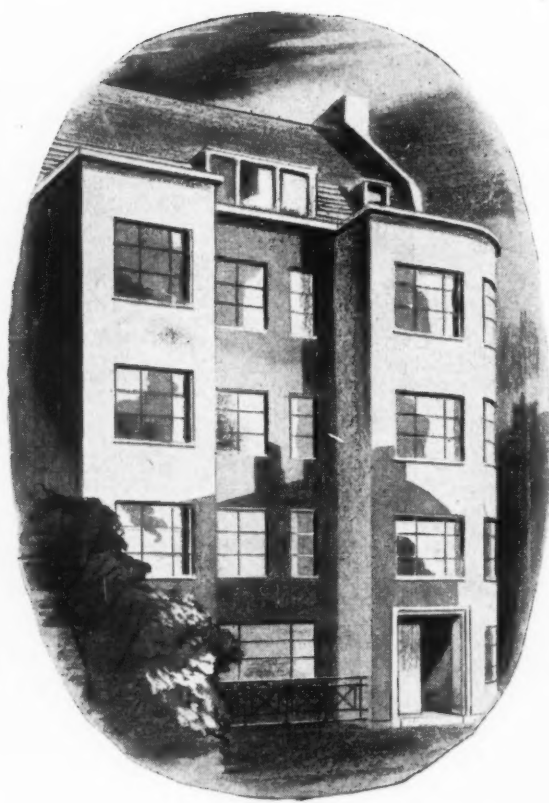
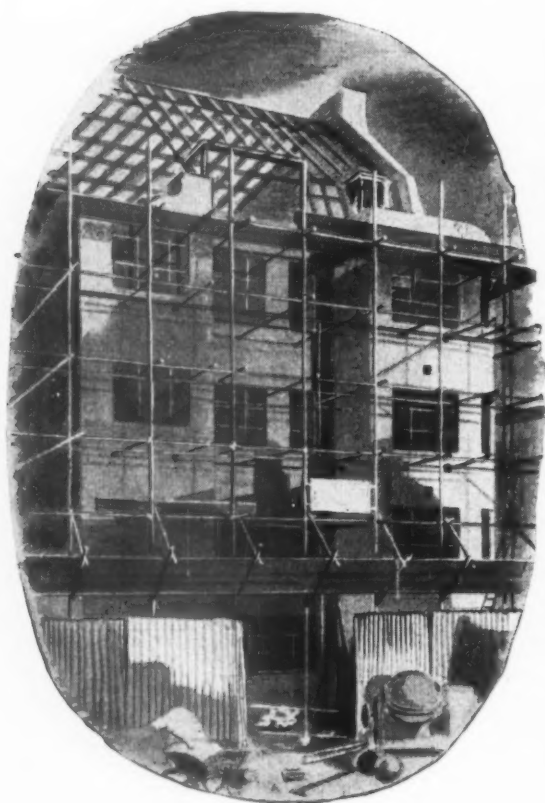
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ATLANTIC WORKS, MACBETH STREET, LONDON W.6

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Telegrams & Cables: "EXPLOITURE, LONDON"

(S 4)



START TO FINISH

Mander's paints cover all the usual needs of the decorator and most of his unusual ones. The site may be a Mayfair drawing room or a gasometer. The surface may be wood, board, metal, concrete, brick, stone or plaster. Whether the system needed is protective or decorative, or both, Manders can supply the right finish in the right quality at the right price. Delivery of most lines is ex stock from any Mander's depot.

Mander's

There's a Mander's paint for every job

MANDER BROTHERS LIMITED · WOLVERHAMPTON

TBVI

Empire Stone *was used in this Building*



CHARLES HOUSE, KENSINGTON

ARCHITECT: ARTHUR S. ASH, F.R.I.B.A.

Empire Stone Co. Ltd.

THANET HOUSE • 231 STRAND • LONDON W.C.2

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... and every
building needs

WEYROC
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MAN-MADE TIMBER

The makers of WEYROC Man-made Timber look forward to the day when Britain receives her fair share of the world's timber. More timber means more building—and so more work for WEYROC, for WEYROC has come to stay as a valuable building material in its own right. More than that: because it utilises what would otherwise be wasted WEYROC will see to it that our extra timber is used to the fullest advantage. More timber means more WEYROC—and that means still *more homes*!

★ ★ ★

WEYROC's 8 ft. by 4 ft. boards can be had Plain Paper-surfaced or Veneered and $\frac{1}{2}$ in. or $\frac{3}{4}$ in. thick. If you don't already stock them, write for the full specification and the name of your nearest Distributor.

A Product of

The Aircrow Company & Jicwood Ltd., Weybridge, Surrey

Telephone: Weybridge 1600. Telegrams: Aircrow, Weybridge

NEW **VISIBLE** Stores & Stocks **LEDGER SYSTEM**



**500 to 12,000 RECORDS
HANDLED BY ONE CLERK**

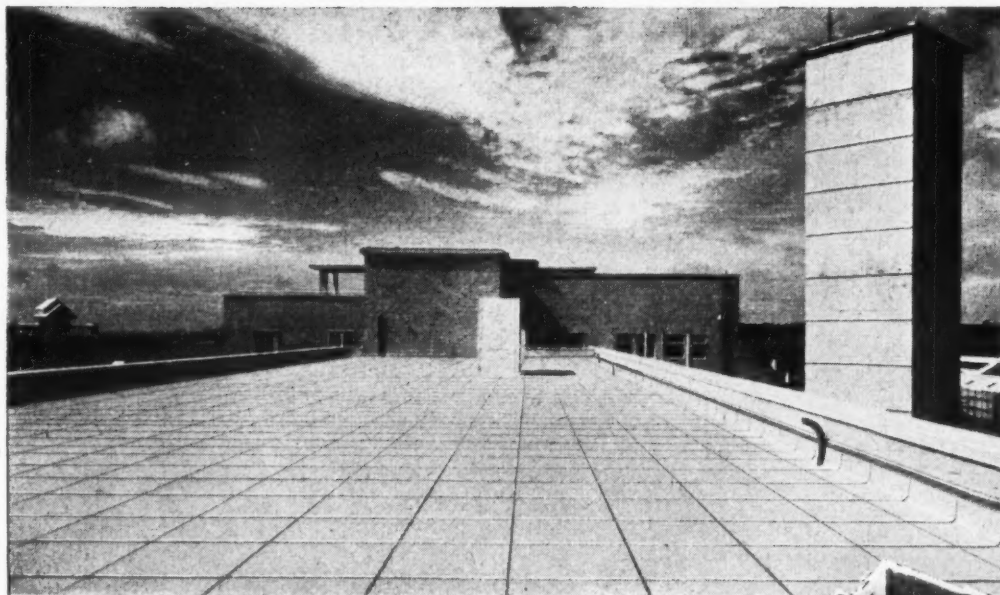
Nowadays, *visible* records tend to replace other forms of records—including bound books, "blind" cards, etc. High labour costs make this change desirable. Here is a new system, Shannoleaf, which is replacing old methods. Each record has an overlapping visible edge—for quick sighting, posting and reference. Each record has a perfectly flat writing surface and is firmly held in position. Removal and replacement is done by a simple flick of the trigger—no keys, no cumbersome mechanisms. The streamlined binder is only $2\frac{1}{4}$ in. thick—the slimmest system ever made. The records themselves—whether standard (lower in cost, quicker in delivery) or specially printed—cover every conceivable need. Just write "Shannoleaf" on your letterheading for full details by return.

Standard Loose Sheet.
Shannoleaf Records.

SALES AND PURCHASE
STORES AND STOCK CONTROL
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PURCHASE, HIRE PURCHASE
SALES, STOCKS, PERSONNEL

Shannon Systems

FIRST IN FILING
The Shannon Limited
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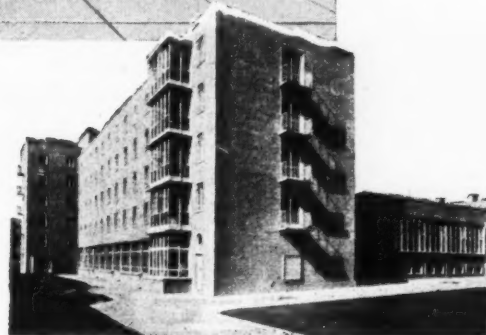
Roof of Nurses' Residence, General Hospital, Jersey, insulated and waterproofed with PAROPA and finished in Granolithic

PAROPA by FRAZZI ROOFS JERSEY'S NEWEST HOSPITAL

The recently completed Nurses' Residence for Jersey's General Hospital has been roofed with PAROPA, providing a durable, waterproof and pleasant recreational facility for the Staff.

PAROPA roofing is attractive, permanent, non-slip and a good insulator. It can be laid *in situ* to any area, shape or angle . . . to any wood, brick or concrete surface.

Your enquiries are invited.



Architects : Grayson and Le Sueur, F/A.R.I.B.A.

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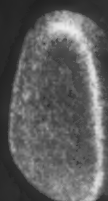
For over forty years Frazzi have specialised in the execution of all types of constructional fire- and sound-resisting floors and roofs, and welcome your enquiries.

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Concealed fitting.
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In this model the patented
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Lacrinoid plastics door furniture is close to functional perfection. It is made to stand up to all the use, and even abuse, it is likely to receive, and to do its job with quiet smooth efficiency throughout its long life.

Though designed primarily for its mechanical purpose, Lacrinoid door furniture is pleasant to the hand and a delight to the eye. The shapes are simple, the colours fast, the brilliance lasting — and the range is wide enough to suit all conditions of use.

Write for details of the full range
to the address below.

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LACRINOID PRODUCTS LTD GIDEA PARK WORKS GIDEA PARK ESSEX

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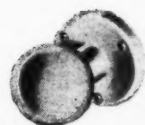


Oval Knob, D.T. spindle
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Spring loaded
"Floating spindle"



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Fixed rose
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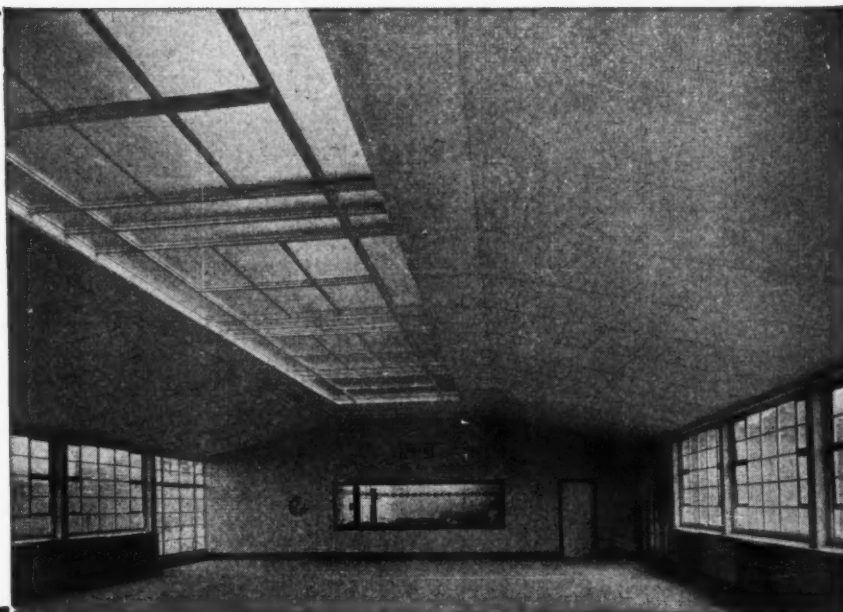
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TENTEST

THE QUALITY BOARD

THE QUALITY JOB!

A ceiling
in TENTEST
Concealed
Fixing . . .



*Canteen for Messrs. A. J. Wade Ltd., Burslem. Architects : Messrs. Wood, Goldstraw, Yorath.
Wall Tiling made and fixed by A. J. Wade Ltd., Burslem.*

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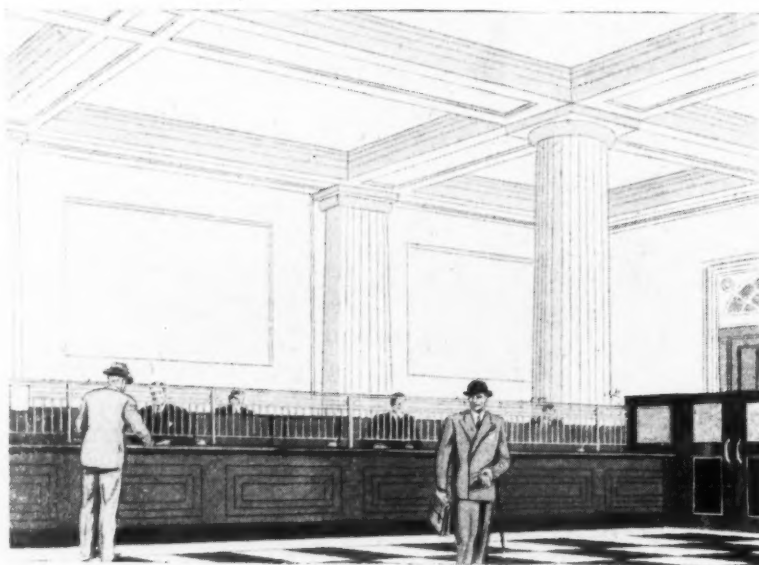
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SPECIALISED CONSTRUCTION DEPARTMENT
Tel.: BARnet 5501 (5 lines). Telegrams : Fiboard, Norphone, London.

A TRADE MARK AS  GOOD AS A BOND



The Banking Hall

FAROMAT *completes the picture*



FAROMAT is the smoothest, most distinctive wall decoration for the essential dignity of Bank premises. The lovely matt surface, in quiet unobtrusive colours, creates an atmosphere of spaciousness and light, congenial to work in and an excellent background for the conduct of efficient business.

FAROMAT is the interior decorator's ideal finish. There is nothing fugitive about FAROMAT charm. All the listed shades are fast to light, and washable. It dries with an exquisite velvety surface.

FAROMAT has immense hiding and covering capacity. It is easy in application, remaining "open" sufficiently long enough to enable the painter to brush a large area without help.

FAROMAT has an "After-Flow" unprecedented with this type of paint.

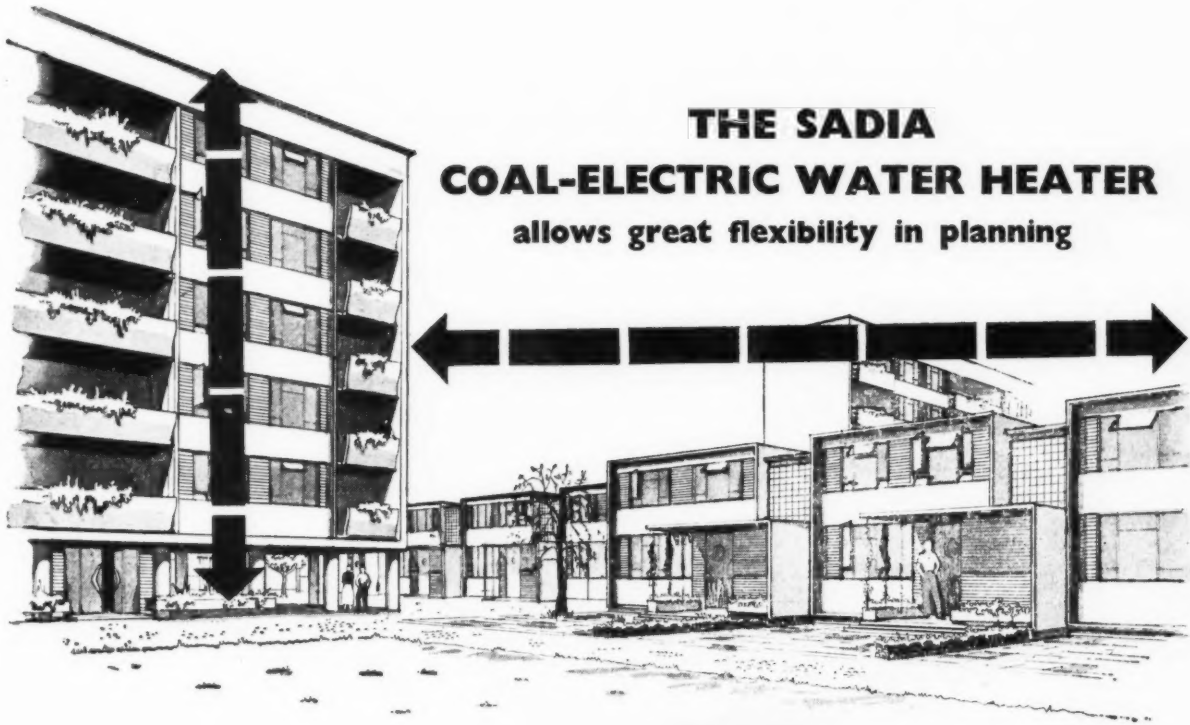
FAROMAT is particularly suitable for use in such places as MUNICIPAL BUILDINGS, HOSPITALS, SCHOOLS, CHURCHES, HOTELS and CLUBS, as well as PRIVATE HOUSES.

FAROMAT

A really superb

FLAT WALL PAINT

T. & W. FARMILOE LIMITED, ROCHESTER ROW, WESTMINSTER, LONDON, S.W.1 Phone : VICtoria 4480



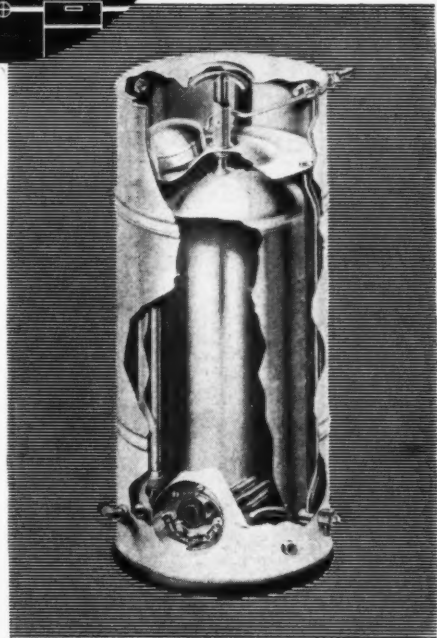
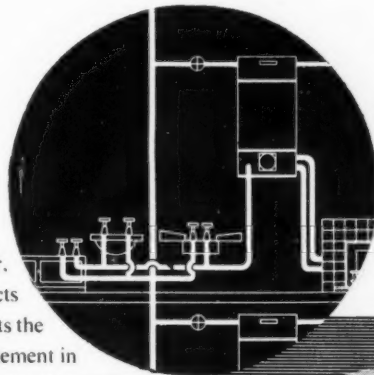
THE SADIA COAL-ELECTRIC WATER HEATER

allows great flexibility in planning

The Sadia coal-electric water heater is suitable for both houses and flats, and can be used either with a back-boiler or an independent boiler. It is a water heater planned to make the best use of available fuels. During winter, when fires are lighted, the Sadia coal-electric water heater acts as a storage tank, the back-boiler or the solid-fuel boiler heats the water, and the thermostatically controlled electric heating element in the Sadia coal-electric water heater takes over only when the fire dies down. In summer, no fires need be lighted, electricity takes over completely, and the house keeps cool.

The Sadia coal-electric water heater is the only factory-built unit of its type; made by water heating specialists it is the result of the accumulated experience of many years in this particular field. Efficiently insulated, it increases the effectiveness of the solid fuel boiler to which it is connected. When installed in blocks of flats, the patented self-venting and self-filling calorifier makes for simplified plumbing. One common down-service pipe can supply all the Sadia water heaters.

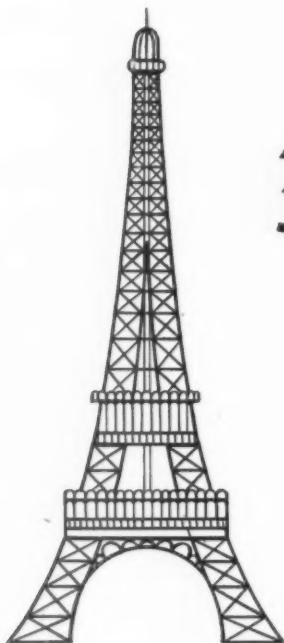
Aidas Electric Ltd., the makers of the Sadia coal-electric water heater, are always very glad to give specialist advice on all aspects of water heating to architects when they are preparing plans.



**Aidas Electric Ltd., Sadia Works,
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Scottish Agents: W. Brown & Co. (Engineers) Ltd.,
89 Douglas Street, Glasgow, C.2. Manufactured in
South Africa by Sadia Water Heaters (Pty.) Ltd.,
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SADIA
HOT WATER BY
ELECTRICITY

INSEPARABLE



CONSTRUCTED 1887-1889
HEIGHT 985 ft.

EIFFEL *and his* TOWER

To everybody who knows Paris, and to millions who don't, the elegant edifice of the Eiffel Tower is linked for ever with the name of the man who conceived and designed it.

Under the ground, too, as well as above it, civil engineering has some triumphantly paired names. The sober and exactly calculated science of foundation piling is a case in point. Franki has long been a great name in piling throughout Europe and other continents, and in Great Britain this unequalled system of cast-in-situ piling has so dominated the scene that custom has merged two words into one and architects and consulting engineers plan their projects, large and small, on FRANKIPILES—the piled foundations which have proved their safety, their speed and their economy.



FRANKI *and* PILES

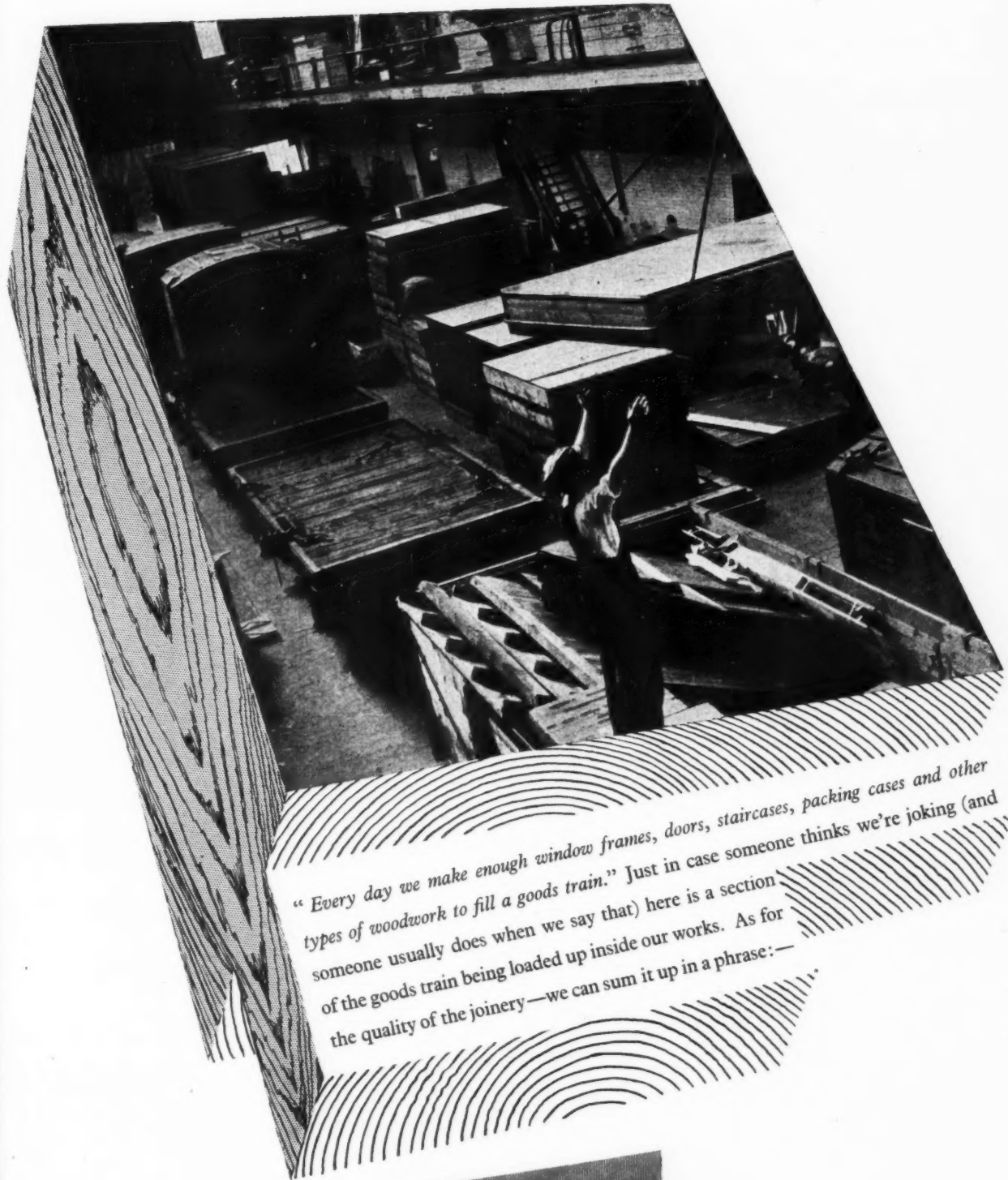
THE FRANKI COMPRESSED PILE
COMPANY LIMITED

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TELEPHONE: ABBey 6006-9

TELEGRAMS: Frankipile, Sowest, London

SOUTH AFRICA: THE FRANKI PILE CO. of S.A. (Pty.) LTD., DURBAN and CAPE TOWN



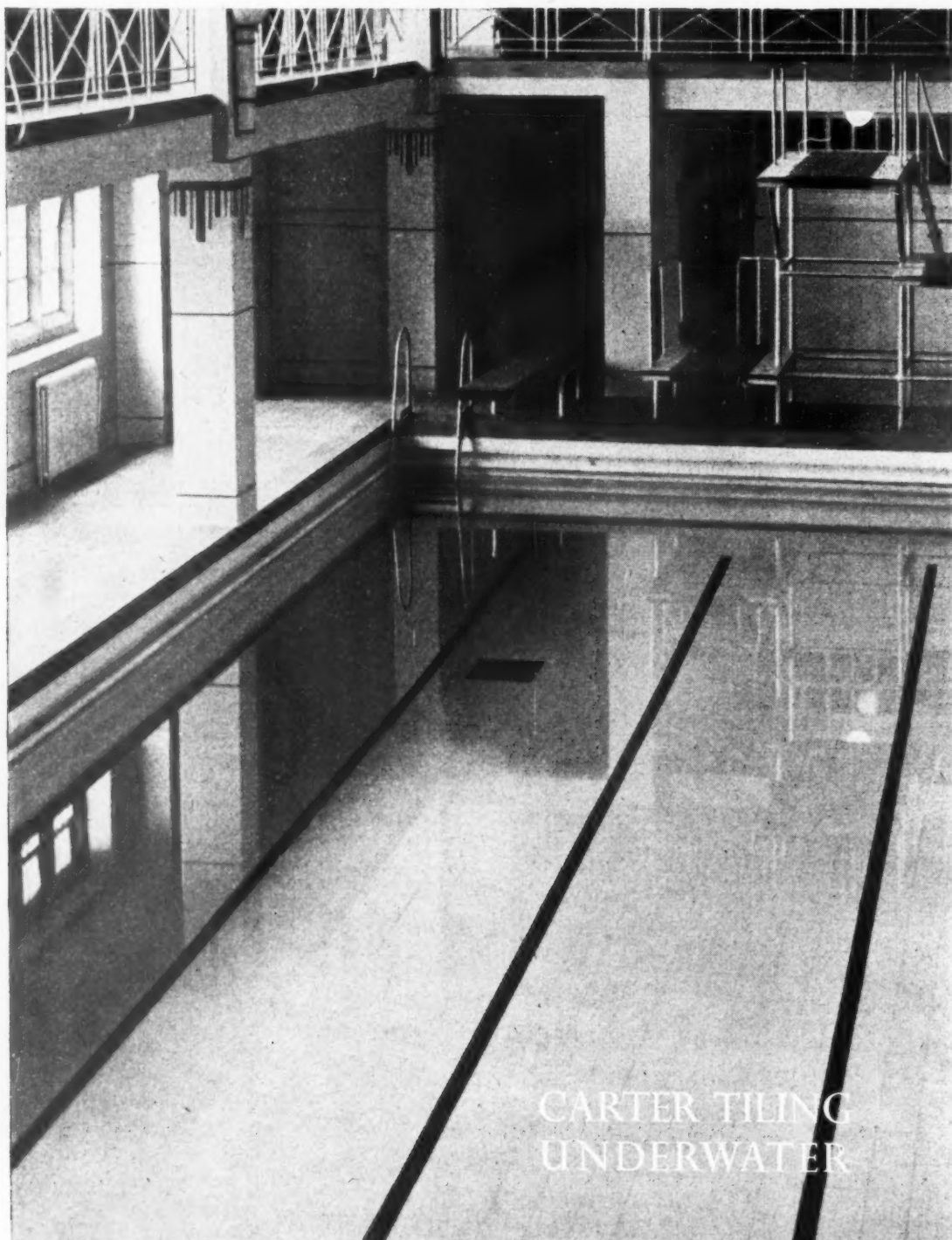
"Every day we make enough window frames, doors, staircases, packing cases and other types of woodwork to fill a goods train." Just in case someone thinks we're joking (and someone usually does when we say that) here is a section of the goods train being loaded up inside our works. As for the quality of the joinery—we can sum it up in a phrase:—

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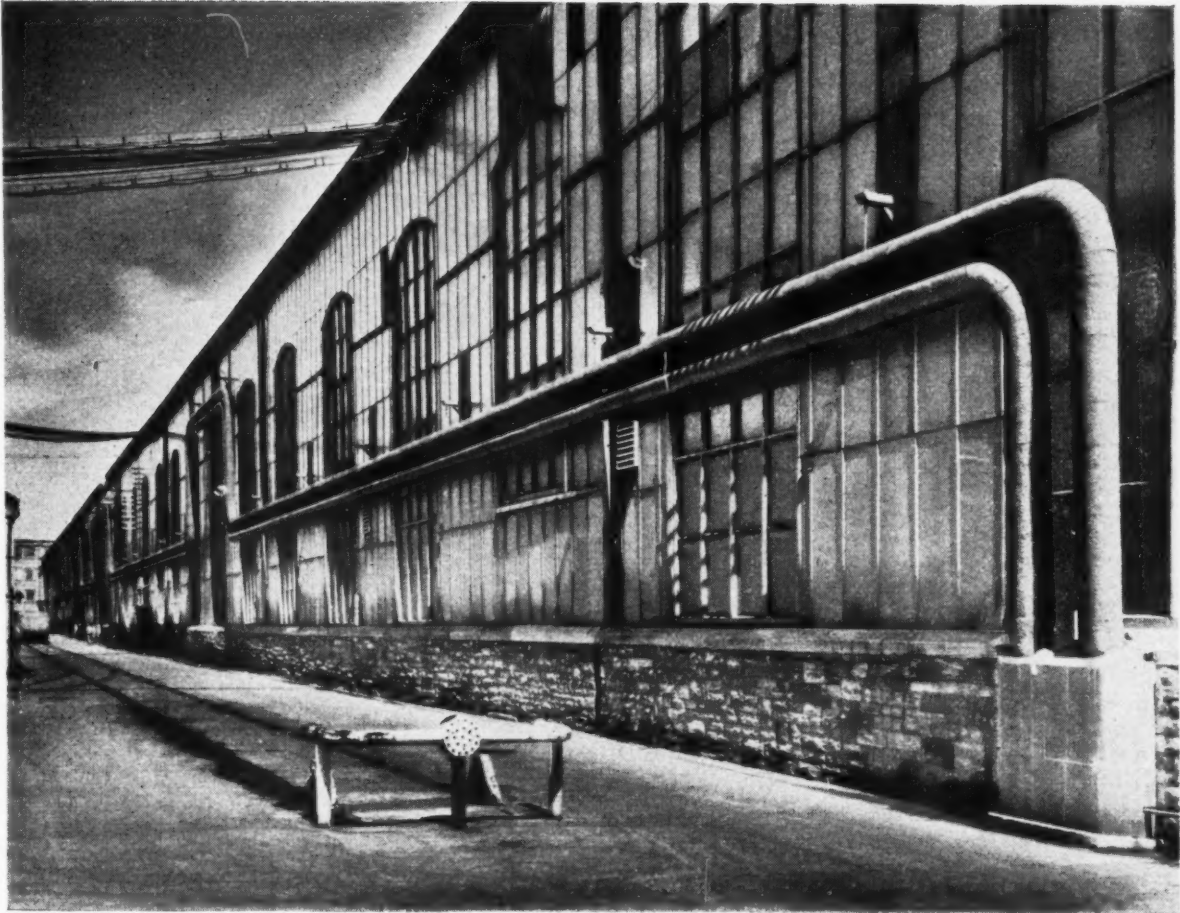
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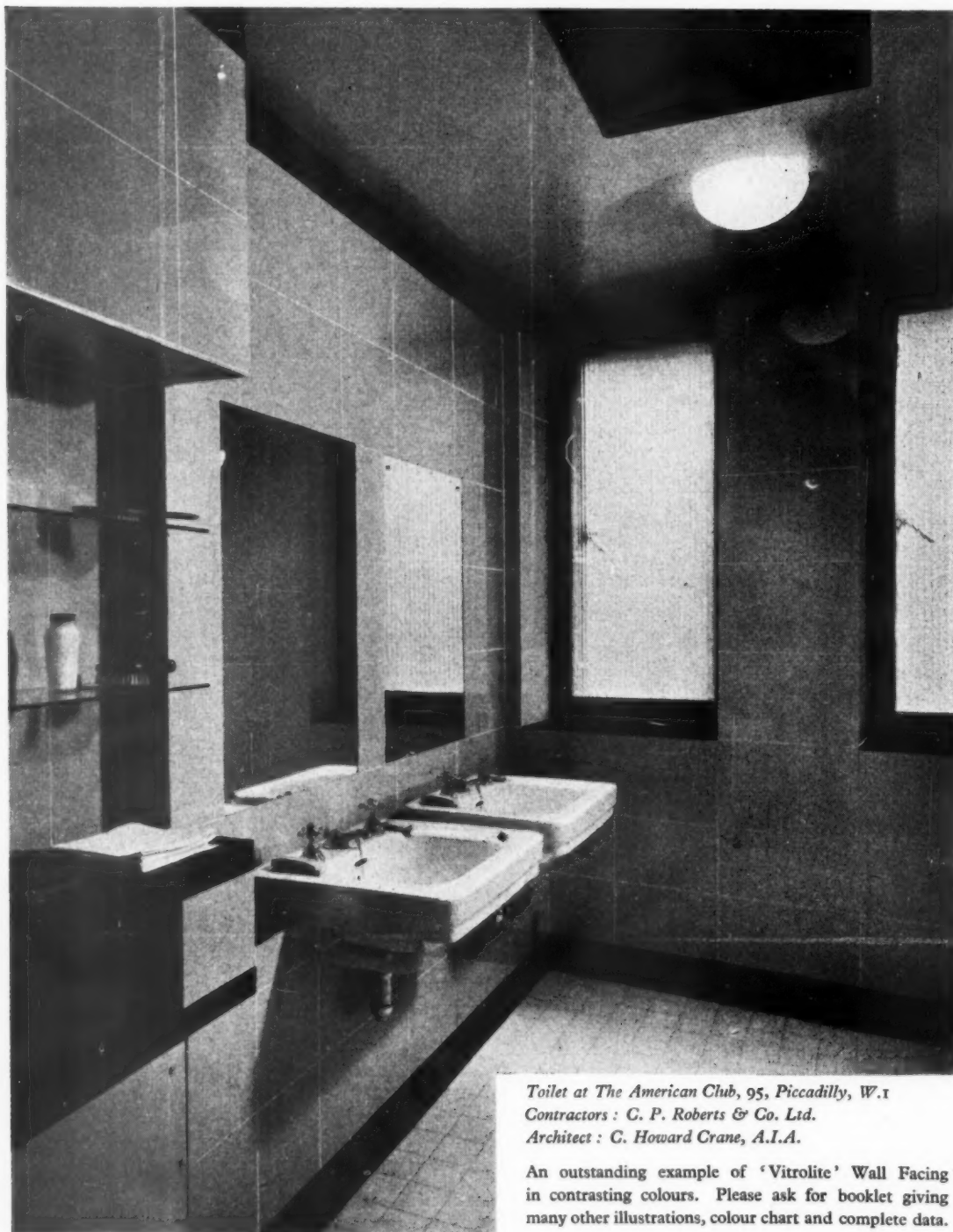
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This exhibit is one of many activities by which The Gas Council seeks to promote the development of gas services for cooking, hot water, space heating and refrigeration. In all cases where the use of gas is envisaged early consultation with the local Gas Undertaking is advisable.

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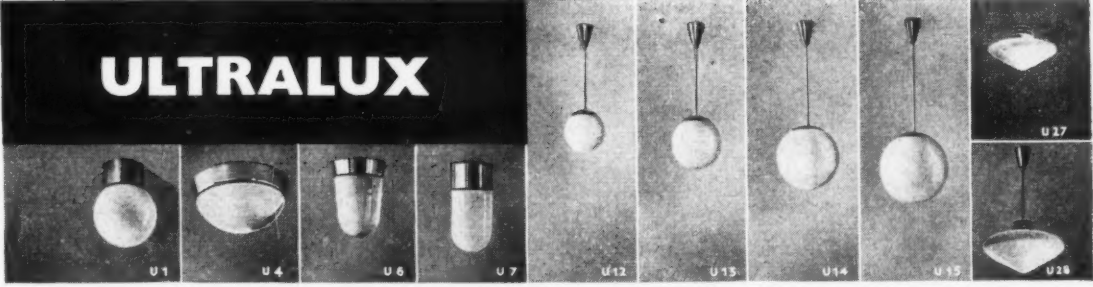
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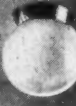












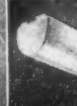





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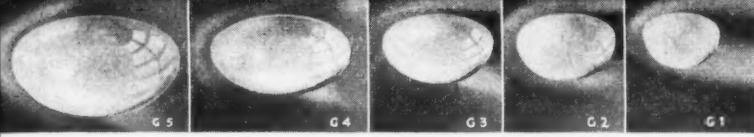
ULTRALUX


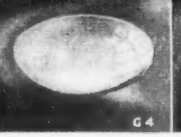
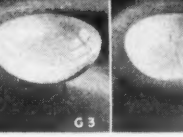
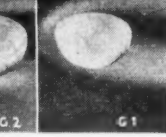



 U1 Glass: 6" dia. Depth: 7½" Lamp: 60 watt B.C.	 U4 Gallery: 9" dia. Depth: 4½" Lamp: 60 watt B.C.	 U6 Gallery: 5½" dia. Depth: 7" Lamp: 60 watt B.C.	 U7 Gallery: 3½" dia. Depth: 7½" Lamp: 60 watt B.C.	 U12 Glass: 8" dia. Lamp: 60 watt B.C.	 U13 Glass: 10" dia. Lamp: 100 watt B.C.	 U14 Glass: 12" dia. Lamp: 150 watt B.C.	 U15 Glass: 14" dia. Lamp: 200 watt E.S.	 U27 Glass: 16" dia. Depth: 9½" Lamp: 150 watt B.C. (with or without suspension).	
 U8 Gallery: 3½" dia. Depth: 5½" including lamp. Lamp: 60 watt B.C.	 U9 Glass: 6" dia. Depth: 6½" Lamp: 60 watt B.C.	 U10 Glass: 8" dia. Depth: 8½" Lamp: 100 watt B.C.	 U11 Glass: 10" dia. Depth: 11" Lamp: 150 watt B.C.	 U17 Height: 9½" Projection: 7½" Lamp: 60 watt B.C.	 U18 Glass: 6" dia. Height: 9" Projection: 8" Lamp: 60 watt B.C.	 U19 Glass: 8" dia. Height: 11" Projection: 9" Lamp: 100 watt B.C.	 U20 Glass: 3½" dia. Height: 9½" Projection: 7" Lamp: 60 watt B.C.	 U13R Glass: 10" dia. Reflector: 20" dia. Lamp: 100 watt B.C.	
 U21 Glass: 6" dia. Height: 8½" Projection: 7" Lamp: 60 watt B.C.	 U22 Glass: 3½" dia. Height: 9" Projection: 5½" Lamp: 60 watt B.C.	 U23 Glass: 6" dia. Height: 9" Projection: 6½" Lamp: 60 watt B.C.	 U24 Height: 6½" including lamp. Width: 3" Projection: 3" Lamp: 60 watt B.C.	 U25 Glass: 11" dia. Depth: 5" Lamp: 60 watt B.C.	 U26 Glass: 14½" dia. Depth: 6" Lamp: 100 watt B.C.	 U100 Length: 8½" Width: 4½" Depth: 4" Lamp: 60 watt B.C.	 U100/3 Length: 27" Other details as for U.100 Lamps: Three 60 watt B.C.	 U12R Glass: 8" dia. Reflector: 20" dia. Lamp: 60 watt B.C.	
									 U14R Glass: 12" dia. Reflector: 20" dia. Lamp: 150 watt B.C.

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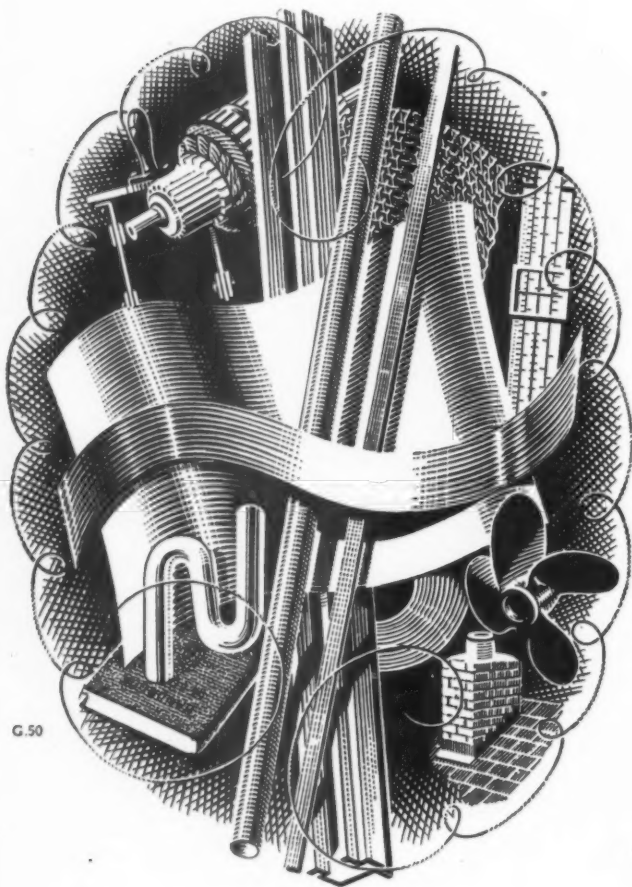


 G5 Glass: 16" dia. Depth: 5½" Lamps: Two 100 watt B.C.	 G4 Glass: 14" dia. Depth: 5" Lamps: Two 75 watt B.C.	 G3 Glass: 12" dia. Depth: 4½" Lamps: Two 60 watt B.C.	 G2 Glass: 10" dia. Depth: 4½" Lamp: 60 watt B.C.	 G1 Glass: 8½" dia. Depth: 4½" Lamp: 40 watt B.C.
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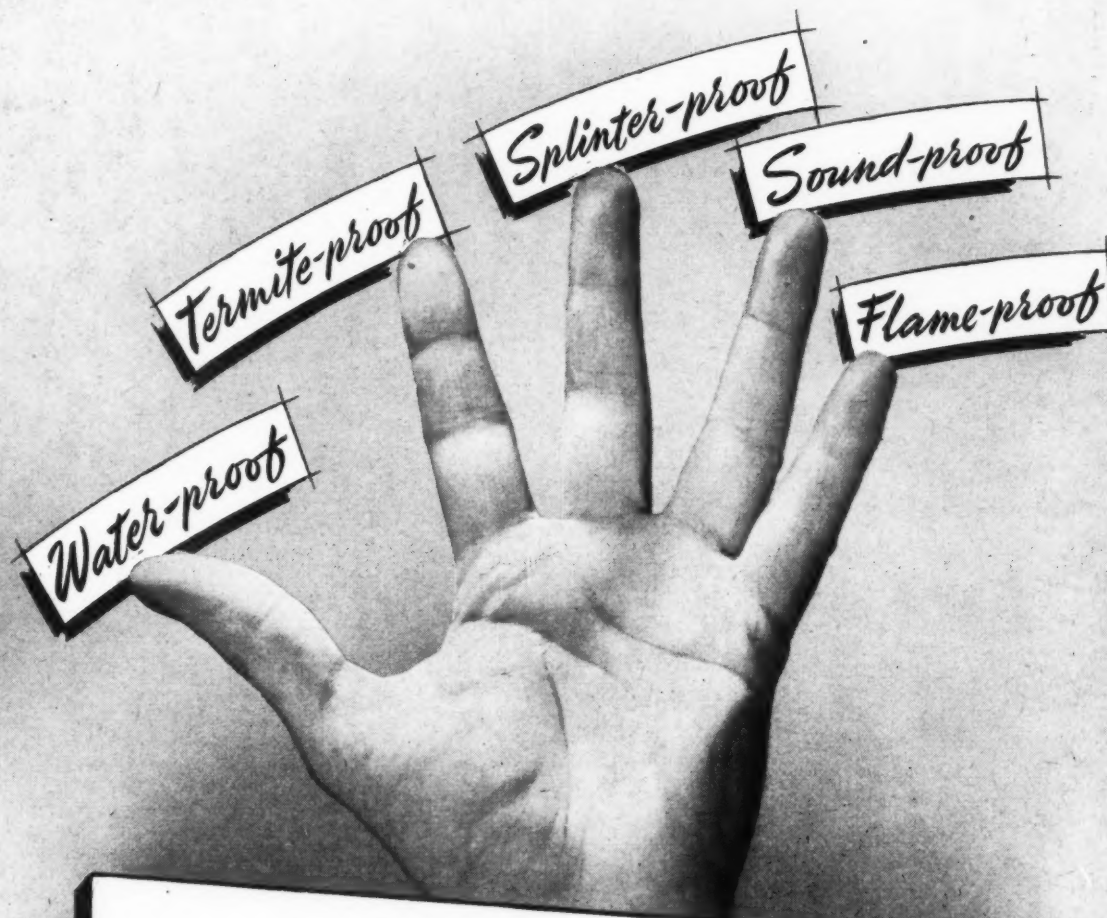
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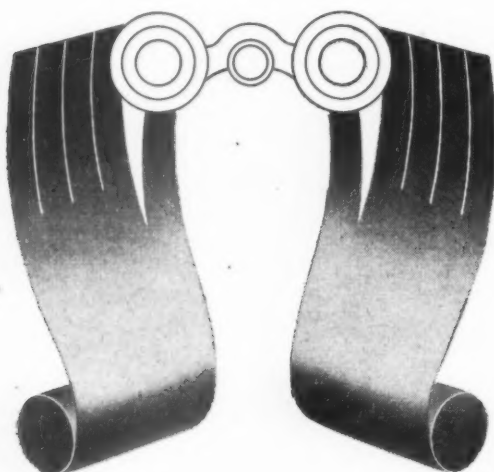


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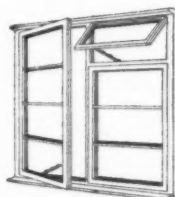
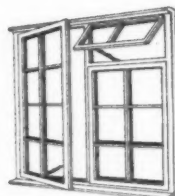


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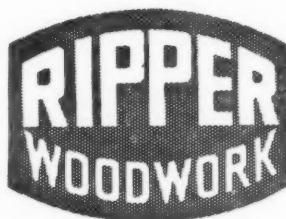
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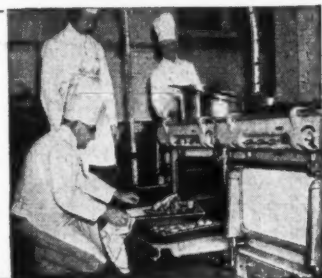


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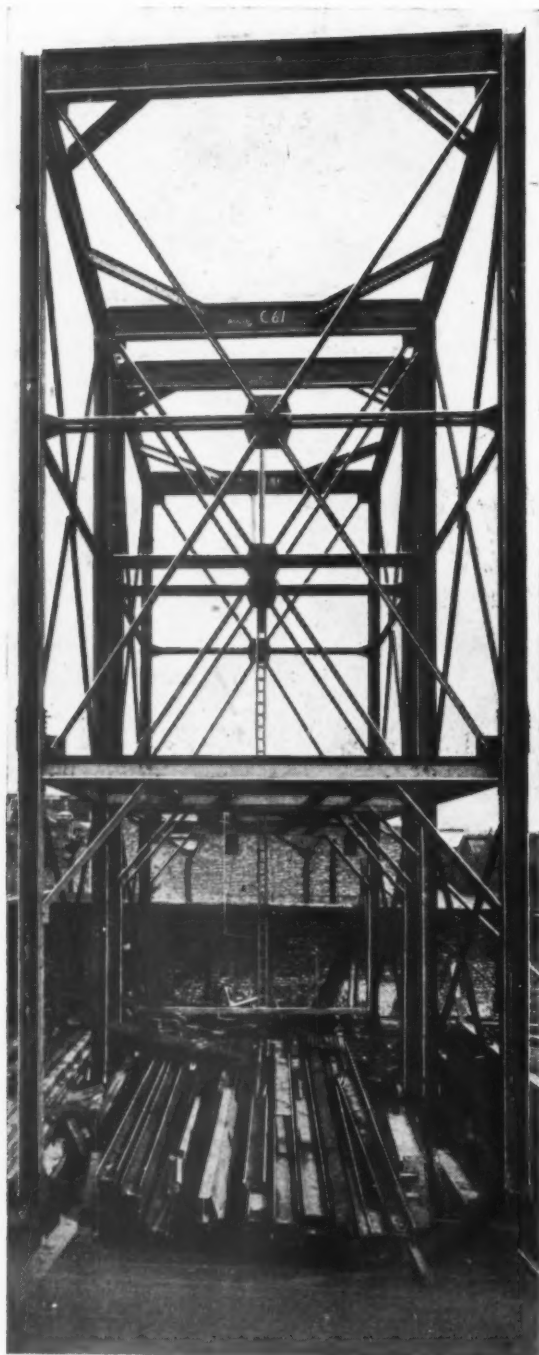
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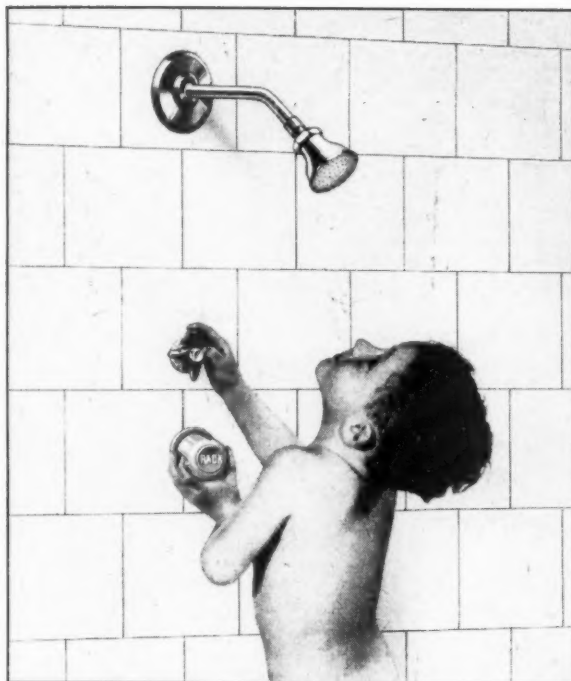


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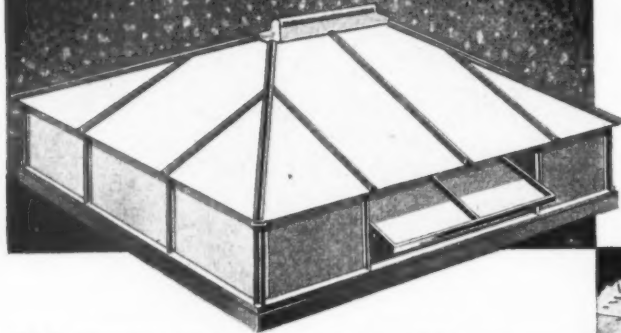
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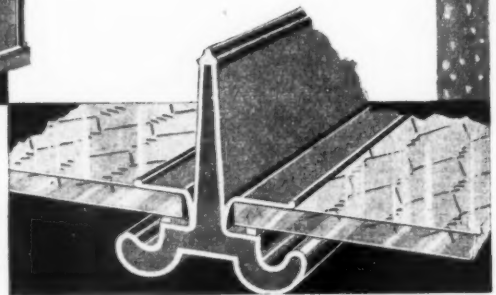
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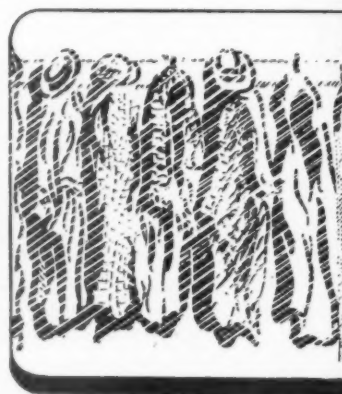
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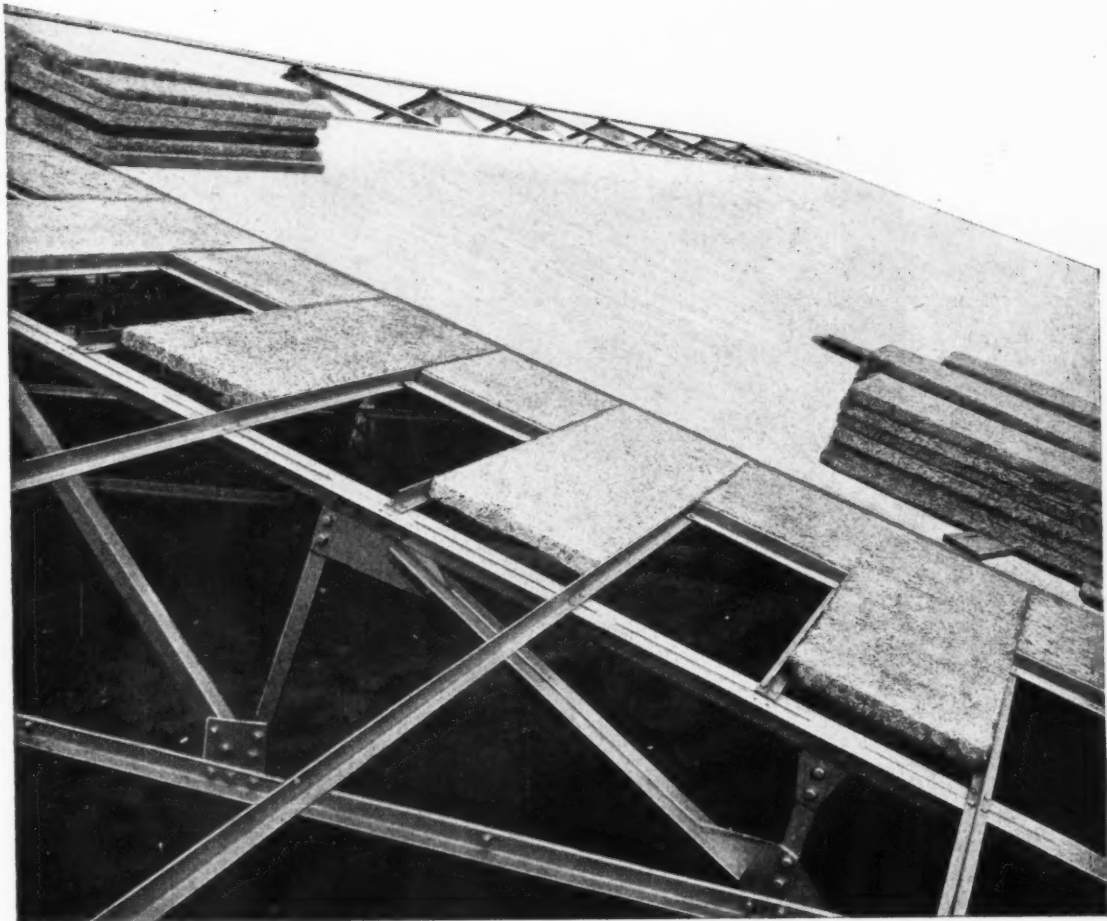


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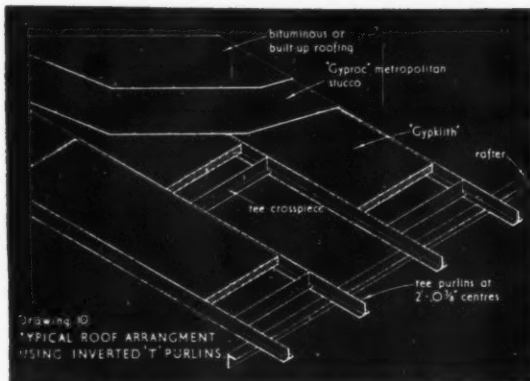
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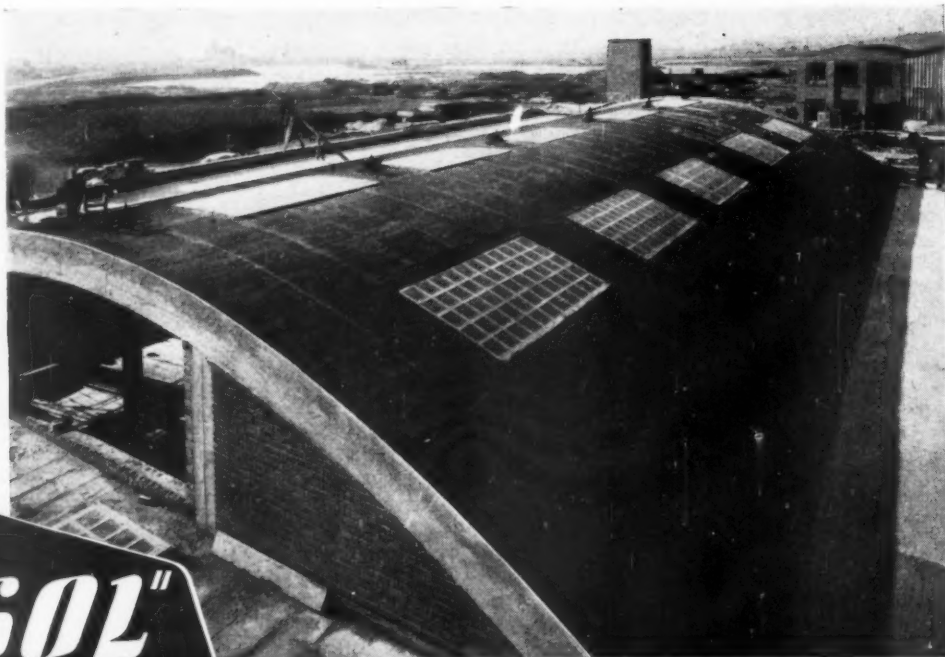
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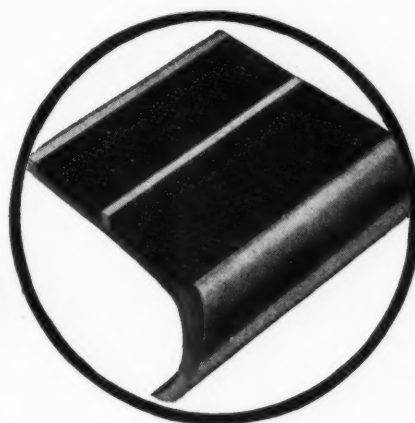
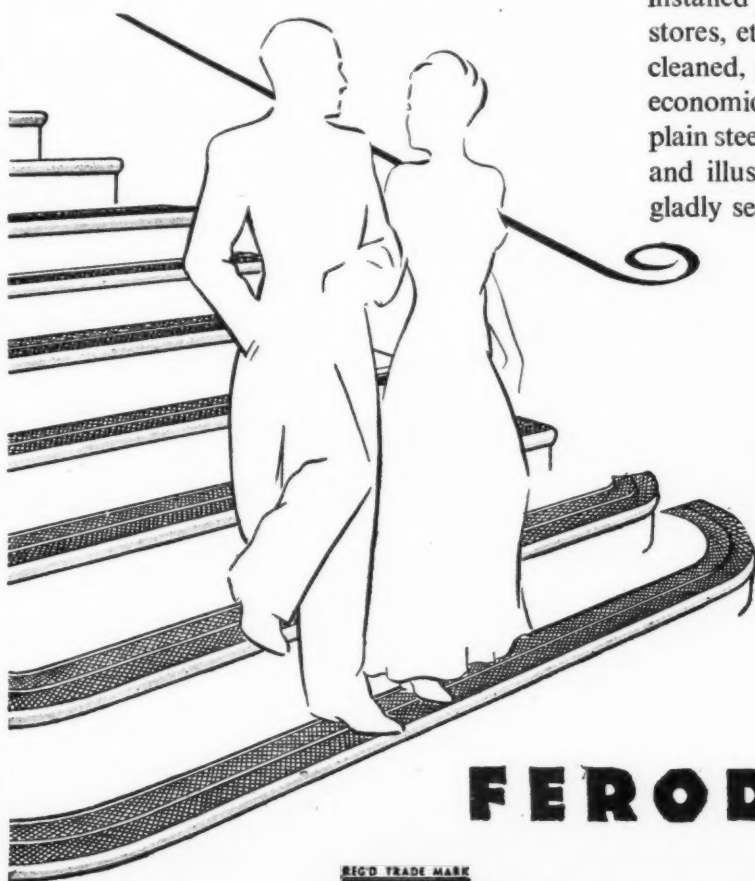
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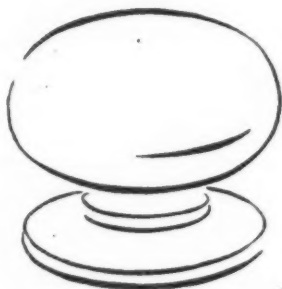
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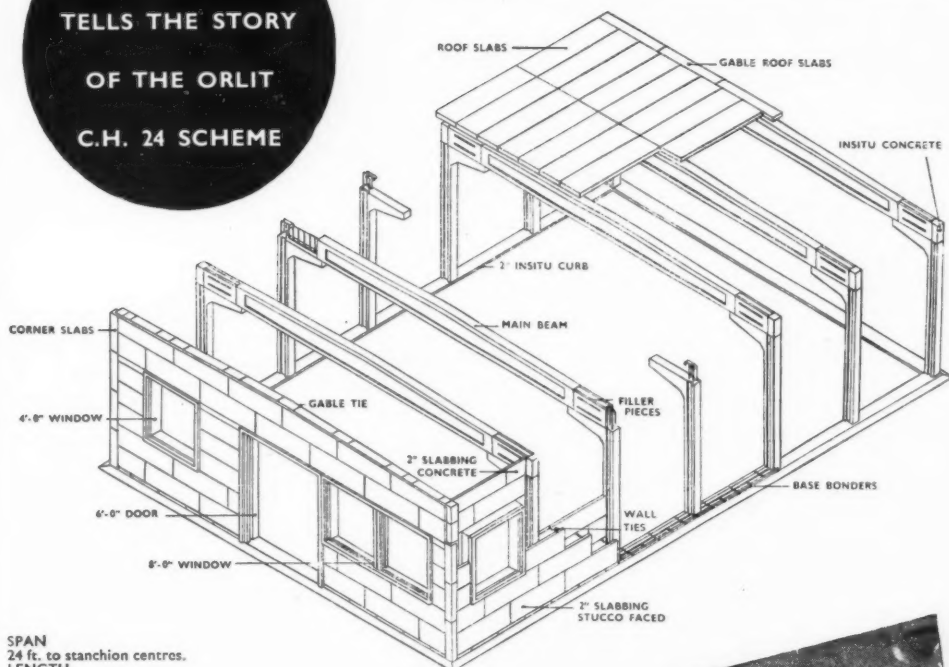
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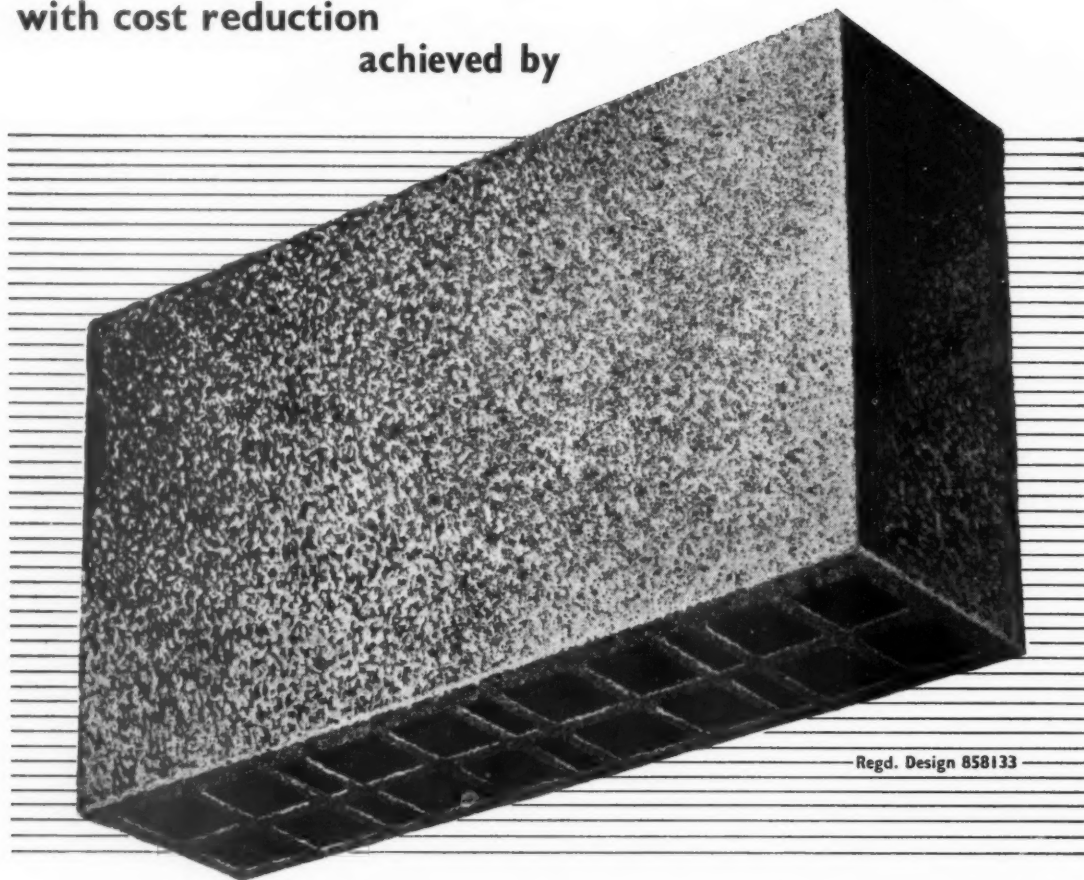
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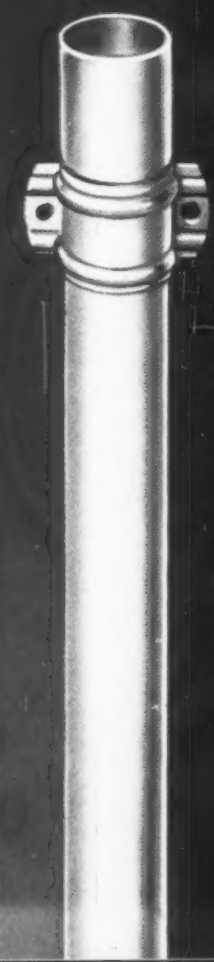
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THE ARCHITECTS' JOURNAL

No 2913 28 DECEMBER 1950 VOL 112



USE THE ORANGERY

Until last week you could have enjoyed a close view of nearly half of the splendid Rubens panels from the Whitehall Banqueting House, for they had been on display at the Kensington Palace Orangery for five days longer than had been planned. This extension was no doubt given on account of the surprising number of visitors who came to see the paintings before they were restored again, after their country retirement, to their old home.

The MOW must be thanked for having taken the initiative of making use of Wren's delightful building in this way. Hitherto it has acted merely as a public shelter from the weather, but I am hoping that this temporary exhibi-

tion will have set a precedent for others to come. The orangery in the Paris Tuileries is used as a gallery. Could we not use our own orangery in this way? The popularity of the present exhibition suggests that we should do so. How pleasant it would be to have a purpose in taking one's constitutional across the Gardens by making for the latest show.

Of course, the Orangery is not ideal as a gallery. The natural lighting is all wrong and the heating system is at present inadequate, but *ad hoc* adjustments should be possible. The building would perhaps lend itself best to sculpture or other three dimensional objects. The London Museum is now going to Kensington Palace. Could not the Orangery be used as a kind of annex to the museum where temporary shows specifically related to London could be held?

INCENTIVES CONTINUING

When an incentives agreement was made between the operatives and the employers, it was for a trial period only, both sides agreeing to think again after practical experience. They have now done so, and the result is that incentives are to go on, though still, apparently, with the proviso that it will be up to the employer to decide whether to operate a scheme or not. I should imagine that most builders will have to or they just won't get the labour, but one hopes that they will produce proper schemes in

which output is really linked with earnings. One gathers that far too many builders can't be bothered with a proper scheme and just pay a pound or so extra as a flat rate. The only new part of the latest agreement is that joint committees are to be set up in various parts of the country to iron out any difficulties and to put forward schemes if employers aren't sure what to do.

THREE BIOGRAPHIES

For architect friends to whom you should now belatedly send a super Christmas card (having received one unexpectedly from them) I can recommend any of three small books that have lately arrived on my desk—all architectural biographies.

For those adventurous enough to fish in the stormy waters of the nineteenth century there is Nikolaus Pevsner's inaugural Slade lecture* on Matthew Digby Wyatt—not a good architect, but a man of ideas who was also secretary to the 1851 Exhibition Committee.

For those who prefer the more placid waters of the eighteenth century there is Marcus Whiffen's scholarly book† on Archer, whose church in Smith Square, Westminster, is the nearest England ever got to full-dress baroque, and for those who want something in

* *Matthew Digby Wyatt: An Inaugural Lecture.* By Nikolaus Pevsner. Cambridge: The University Press. Price 4s. 6d.

† *Thomas Archer.* By Marcus Whiffen. London: Art and Technics. Price 8s. 6d.

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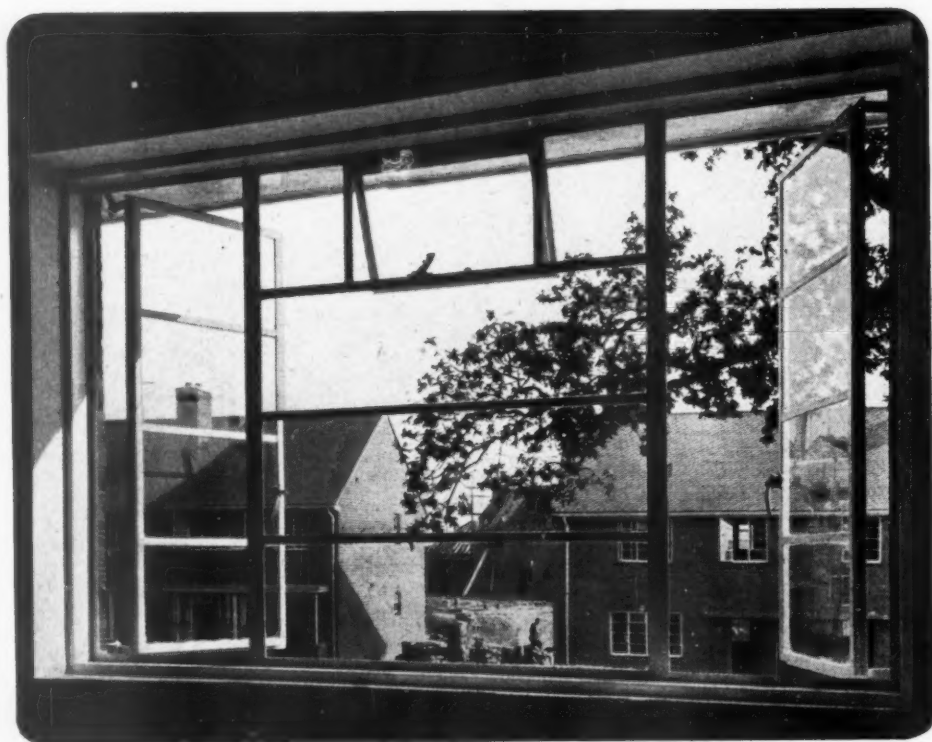
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between the two there is Dorothy Stroud's *Henry Holland*,* the only monograph I know on the highly cultured architect who built Carlton House and the original Brighton Pavilion for the Prince Regent, but whose distinguished design for the latter was soon swamped by his royal patron's exuberant oriental additions.

*

All three are well-produced and illustrated, the Wyatt book being particularly good value for money—almost cheap enough to be used simply as a Christmas card, so enormously has the price of cards risen. The others are the second and third of a biographical series which I hope will continue for a long time. They are much better and more authoritative than the first, which was on the more famous Wyatt. The next volumes promised are on Voysey and Le Corbusier.

*

One of Holland's claims to fame, incidentally, which has some topical significance is that he converted Lady Melbourne's mansion in Piccadilly into the block of chambers known as the Albany. He may therefore be said to be the precursor of the many architects who are busy at the moment converting too-large mansions into flats. I wish they all did it as well.

AN ANCIENT MONUMENT?

I was alarmed to read that the remarkable piece of architecture at the London Zoo—Tecton's Penguin Pool—is to be adapted for the use of seals, without, I understand, any reference being made to the architects. You will remember the excitement and enthusiasm this surprising work generated in the early 'thirties when it was built.

*

The smooth ellipse, the plastic intertwining of the twin ramps, a tribute alike to the designer and Ove Arup's engineering skill, the elevated glass-sided tank through which the penguins could be seen pursuing their breakfast, lunch and dinner, startled architects with a new vision. This one building alone showed the whole world, so widely was it pub-

* *Henry Holland*. By Dorothy Stroud. London: Art and Technics. Price 8s. 6d.



A scene from "The Mendacious Mariner," a play performed at the Architectural Association School's end of term dance. (See Astragal's note below).

lished, that there were some architects, even in England, who were exploring a world of new forms.

*

The excuse that there is room elsewhere in the gardens for penguins in another pool is singularly unconvincing, there always has been, but the Tecton Pool, designed for penguins, displays these engaging birds superbly. And it is at present an unique monument to a significant architectural development.

AA PANTOMIME

"There are two things one doesn't do," said Oscar Wilde, or someone like him, "folk dancing and incest." Well, they have started the former at the AA. In

an endeavour to reserve some energies for the study of architecture, the students wisely combined their annual pantomime and dance into a single evening's entertainment, comprising plays, cabaret, films, fancy dress and both folk and ballroom dancing, all taking place in 34-36, Bedford Square. This brought down to reasonable proportions what was rapidly becoming a term of rehearsals, scene painting and script writing, with architecture as an incidental pursuit thrown in. It also, of course, makes the critics' task more difficult. There was more to see, greater variety, more stairs to climb, and always the possibility of catching up with something *really* enthralling on another floor,



Tecton's Penguin Pool. (See note on this page).



Country Life

Threatened With Demolition

Rushbrooke Hall, Suffolk, the property of Lord Rothschild, is in danger of demolition. The owner has applied for a licence to pull it down after failing to find a buyer in the open market and after having it refused by the West Suffolk Council, who can make no use of it. Lord Rothschild is still trying to find someone who needs the

building and in the meantime it has been listed by the MOTCP. This is but one of many country houses which are in danger as is apparent from the list recently published by the NBR in its annual report. Others were illustrated in the JOURNAL on November 30 and a further series of photographs will appear shortly.

in another room, or up another staircase.

*

Two melodramas, still happily stuck in the groove of Victoriana, were all that remained of the old pantomime, but very pleasant remains, as you would see for yourself if the taut-jerseyed sailor in my illustration (p. 561) had been facing the other way. The films were the celluloid equivalent of the plays: mainly slapstick. The fancy dresses combined the nauseous, the amusing and the beautiful to just the right degree: a knight in armour like a cartoon by André Francois, two dear gum-chewing Apaches, and an effort-economizing young man, quite ready for bed, in pyjamas and dressing gown.

*

A very pleasant evening, with carol singing under a mobile in Ching's Yard, steady drinking in the bars, and the tippity-tupperty of folk dancers weaving never-ending patterns (doubtless the result of Summer Schools) under garlands of perennial sukebind.

VALE ET QUE AVE

The latest number of *Plan*, the journal of the Architectural Students' Association, is the last one to be produced by the AA Plan group; the next number will appear from Birmingham. I think the producers are to be congratulated on having maintained so high a standard for the first nine numbers of this very lively publication. There is inevitably a good deal of what is currently known as "waffle," but the eagerness of the contemporary student to get to grips with what he or she regards as the immediate problem is undeniable. I commend to many doctrinaires the article by Bill Watson "Professional boxer and journalist turned anthropologist."

*

Birmingham *Plan* group have been set a difficult task and I am looking forward to receiving their first issue. I hope they will show that the provincial student is no whit behind his metropolitan colleague.

ASTRAGAL

No. 2: Guest Editor

AU REVOIR FROM ARCON

DURING the past year we have endeavoured to give readers food for thought in relation to the problems of running a contemporary practice. At the outset we gave our own views as to the nature of the contemporary problems and also indicated the way in which we had organized ourselves to deal with them. We followed on with a series of articles by allied specialist consultants whom we asked to explain the part they play in the total building team and, further, to explain how an architect should organize himself in order to obtain the best possible service from his consultants. This series was followed by articles from two other architectural firms both working a form of group practice if not similar to our own, at least attempting to solve similar problems in their own particular way.

We hope that these efforts throughout the year have been of interest to the JOURNAL's readers and that perhaps a few have even benefited from a study of the various points that have been made. The JOURNAL has now asked us for some conclusions to wind up our year as guest editors. There is not a great deal we can say.

We were at pains in the opening articles to explain that our organization had not arisen as a result of any hard-and-fast preconceived plan but rather that it had developed empirically out of the problems we had encountered on our way. The organization of the office has always been flexible and has been in a constant state of flux according to the particular requirements at any given time.

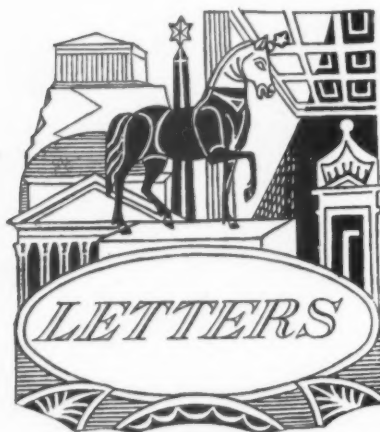
As readers may know, one of our partners has parted company with us during the past year but this does not mean that we, including the departing partner, have in any sense changed our basic ideas—as set out in our first articles—in relation to the manner in which the problems of contemporary practice should be tackled.

The success of a practice will still depend on the quality of its service to its clients; the object of administration must still be to combine efficiency with flexibility; the problem of staff relationship still remains that of how to obtain the benefits of specialization without destroying the sense of responsibility which is so necessary if an individual interest and keenness are to be kept alive; the question as to when and where to employ outside specialist advice still exists and the necessity for accurate and efficient bookkeeping becomes more and more obvious.

We did not pretend at the outset that we could give any "slick" answers to these problems, nor do we believe that they are susceptible to any such solutions. We would, however, offer these five points as being basic to the success of any practice. Searching analysis of the clients' requirements is the first and foremost requisite. Administration should be considered from the point of view of a smooth and efficient

background rather than as an end in itself. Staff must be treated as human beings rather than cogs in a machine. To get the best out of a specialist his method of working must be studied. Whatever happens, go to a good accountant. Further than this we can only recommend "hard work." This recommendation is very much bandied about by politicians and the like today, but we can only say that it has been a very pressing necessity for us ever since we commenced in practice.

And now, au revoir.



{ Walter E. Cross, A.R.I.B.A.

{ Robert McKinstry, A.R.I.B.A.

"Operation Disgorge" Wanted

SIR.—I was most interested in Mr. Sidney Loweth's letter, published in your issue of November 30, which referred to the lack of architects serving as members of local authorities.

Mr. Loweth is absolutely correct in his contentions. Enormous benefit to the public, architecture and the profession could result if more architects gave voluntary and public-spirited service as urban district, borough and county councillors.

Many officials, of County Councils especially, would welcome such members having technical knowledge to facilitate the consideration of town planning, architectural and general building matters upon the appropriate committees.

With the complex town planning laws and controls of today, it is essential to have at least a good proportion of technically trained members serving upon committees dealing with such matters, i.e., if the public interest is to be adequately represented. Unfortunately, I am afraid it is also true that not all L.A. engineers and surveyors like having architects as councillors upon their committees, but many realize that their work is greatly eased thereby and I have heard real regrets expressed when terms of office of such architect-councillors have expired.

In my own sphere of public service, as chairman of a county area planning committee, chairman of a borough council town planning committee, and chairman of a county architect's special committee, I have always strongly advocated the employment of private and official architects, and public architectural work of great value has been placed in the hands of practitioners as a consequence.

The RIBA has, to my knowledge, consistently supported the plea for a greater number of architects to take public office, but there is a snag: the voluntary public service of the architect for the community invariably means making a world for other people and losing his own! Therefore, his public spirit must be strong indeed. Not for him are the housing schemes, the schools, the hospitals and other public buildings—he is a councillor and therefore, well, think what his political opponents would say! No matter how qualified and equipped he or his firm might be to assist in relieving the congestion of work in public offices, public opinion demands that he should be above accepting work emanating from the authorities upon which he serves. And so, for the higher motives of public service and for a beloved profession, the architect who becomes a councillor must be prepared to play a lone hand to pay the price of a diminishing practice. Alternatively he does not succumb to a local popular demand to offer himself for election, and utilizes all his time upon maintaining his practice, often made possible by the unknown services of the very few professional colleagues serving as members of local authorities: that, I regret, is the answer to the other half of Mr. Loweth's letter.

May I suggest that unless "Operation Disgorge" is put in hand immediately, architects' departments in public offices will ever increase and private practice will ever decrease to the eternal deprivation of "a stream of fresh thought and inspiration which the private architect is well suited to contribute" (page 15: RIBA Report).

WALTER E. CROSS.

Isleworth.

The New Old Vic

SIR.—Now that there appears to be a definite movement among theatre architects and producers to revive the forestage, it was interesting to read T. H. M. Nesbitt's letter concerning the reconstructed Old Vic Theatre with its new apron stage and proscenium doors which Astragal has called "the most significant innovation in the history of the British theatre for the past 50 years."

Mr. Nesbitt claims that the architect of the new Old Vic, in his treatment of the fore-

stage, has provided a "third and quite distinct architectural element, neither auditorium nor stage, but serving both," which may "by its different architectural character only serve to divorce" the two.

In your issue of November 30, in the article on the reconstructed Old Vic, there is a photograph illustrating the relationship between forestage and auditorium clearly showing how the architects, Pierre Sonrel and Douglas Rowntree, have linked these two elements by continuing the lines of the balcony fronts right through, and above the proscenium doors, as far as the proscenium opening. In fact, the Georgian theatre forestage has been revived except that there are louvres in the "windows" above the proscenium doors and only in the frieze is there a repetition of the auditorium decoration, though, of course, the colour scheme is the same throughout. Similarly, the arch above the forestage resembles the 18th century proscenium ceiling, but it now forms an arched canopy of light partially concealed by the hanging sounding boards. The result, to my mind, is a very subtle blend of the old and the new, with the exception of the arches to the proscenium door openings, which in no way harmonize with the rest of the auditorium. I hope they are only a temporary feature echoing the arches of the "Twelfth Night" decor behind.*

At Stratford, in the Shakespeare Memorial Theatre, the great brown sycamore veneer "bastions," with their proscenium doors on either side of the forestage, most clearly form a third architectural element, as Mr. Nesbitt points out. Their bulky overwhelming presence has been a headache to nearly all producers, and the only time I have seen them linked to the stage, where they rightly belong, was in Tyrone Guthrie's production of Henry VIII, when the architecture of the permanent set was similar to the "bastions" and was painted the same colour. (Furthermore, the two elements, auditorium and stage, were closely united with remarkable success by the fact that the curtain was never lowered and the lights in the auditorium only slightly dimmed.) This solution of making the forestage walls part of the stage meant that, strictly speaking, the apron-stage no longer penetrated into the auditorium.

The problem of how to unite the stage "architecture" with the real, three-dimensional architecture of the auditorium seems to have been solved in the 18th century, when the lines of the balcony fronts did not end at the proscenium opening, but were produced again in the architectural perspective of the painted scene beyond. Today probably the only stage designer to link up stage and auditorium in this way is the French producer Andre Barsacq, who was trained as an architect and today runs his own theatre in Paris, the Atelier. Recently at Stratford a few of the permanent sets show a marked classical influence, but generally in England stage decor still favours the "painterly" style and asymmetry. It would seem, therefore, that if the forestage is treated architecturally as part of the auditorium, then the close juxtaposition of the two entirely different "worlds" of actor and audience is too sharp and must be softened by the introduction of some sort of neutral area between the two. In other words, this forestage must act as bridge between auditorium and stage, so becoming a third architectural element.

It should be possible for the ingenious architect and stage designer to unite the forestage to both stage and auditorium so that there is no "mystical abyss" between the two. Nevertheless, it may be better, in the first place, to have the closest possible link with the auditorium and follow the example set by the New Old Vic whose architect, M. Sonrel, has been inspired by our Georgian theatre tradition.

Northern Ireland. ROBERT MCKINSTRY.

* This assumption is correct.—ED.



COMPETITIONS

Recreation Centre

The Royal Society of Ulster Architects, in association with CEMA (Northern Ireland), invites architects and student architects to submit in competition, designs for a recreation centre. Although it is unlikely that this subject will be built it has been carefully selected to meet a known need. One or several of the designs will be displayed in a public exhibition of architecture to be held in Belfast as part of the Festival of Britain activities.

Entry to the competition is limited to the following:—persons born or normally resident in Northern Ireland who possess one or more of the following qualifications: (a) member, associate or student of the Royal Society of Ulster Architects; (b) fellow, associate, licentiate or student of the Royal Institute of British Architects; (c) member of any society allied to the Royal Institute of British Architects; (d) fellow, member or student of the Royal Institute of the Architects of Ireland; (e) name upon the statutory Register of the Architects' Registration Council of the United Kingdom.

Desmond FitzGerald will be the assessor. The first prize will be £100; the second, £50; and the third, £25.

Designs must be received by the Hon. Secretary, Royal Society of Ulster Architects, 7, College Square North, Belfast, not later than 5 p.m., March 31, 1951.

It is intended that not more than £15,000 be spent on the construction of the Recreation Centre inclusive of heating, lighting and other permanent installations, but exclusive of furniture and the expenditure to be incurred in the layout of the site. The estimate of cost must not exceed this sum.

Seaside Hotel

The above Society also invites architects and student architects to submit in competition, designs for a seaside hotel. It is unlikely that this subject will be built. As with the first competition, one or several of the designs will be displayed in a public exhibition of architecture to be held in Belfast as part of the Festival of Britain activities.

Entry to this competition is limited as for the first. Desmond FitzGerald will again be the assessor. The first prize will be £200; the second, £100; and the third, £50.

The date by which designs should be submitted is March 31 (5 p.m.), 1951. They should be addressed as for the first competition.

The site is Glencraig, Craigavad, Co. Down. Competitors may inspect the site by applying

on arrival to the caretaker at Glencraig. A plan of the site may be obtained on application to the Hon. Secretary of the Society.

It is intended that not more than £125,000 shall be the estimated cost of the hotel, inclusive of heating, lighting and other permanent installations but exclusive of kitchen equipment, furniture and the expenditure to be incurred in the layout of the site. The estimate of cost must not exceed this sum.

LCC

Study of Planning Standards to Continue

In 1949 the LCC approved certain planning standards in connection with the preparation of the Administrative County of London Development Plan, and for the purpose of considering development applications under the 1947 Town and Country Planning Act. For the last eighteen months all residential and other development applications have been examined by the Town Planning Committee in the light of the Daylighting Code issued by the MOTCP, with a view to determining whether the code would be likely to provide a satisfactory method of control in the Administrative County. The Town Planning Committee has recently stated that it is not ready to report on these results and have recommended that these examinations, together with a study of the relation between plot ratio zones and the angular lines of set back of buildings, shall be continued for another three months.

Plan to Buy Peckham Health Centre

A proposal by the Health Committee that the LCC should buy the Pioneer Health Centre, Peckham, for £60,000 was approved by the council last week. The council's use of the premises would not constitute a true continuation of the centre's activities as originally conducted, says the Committee's report, but would make a valuable contribution to London's health service and provide a useful adjunct to the education service.

When the building came into full use the facilities would, it was hoped, perpetuate to some extent the aims of the centre, which was renowned for its pioneer research into health and the biological observation of the family as a unit. It was forced to close last March because of insufficient financial support.

The committee proposed that arrangements for conversion and full use of the premises should be made in three stages:—

Immediately after acquisition, the education service to have the full benefit of the use of the swimming bath, gymnasium, and lecture hall; an ante-natal centre to be established in the existing medical rooms; and the ground floor to be adapted, at a cost of about £10,800, for use as a day nursery to replace an existing day nursery in requisitioned premises nearby.

Adaptation of the first and second floors as a general medical practitioner health centre; and replacement of existing medical rooms by a specially designed maternity and child welfare centre. The cost would be £39,000.

Establishment of a medical research unit; expansion of the general medical practitioner health centre; and dental accommodation up to the full scale for a health centre serving 26,500 people. The cost would be £12,850.

It is proposed that the first stage should be carried out during the next two years. The full scheme is estimated to involve capital expenditure of nearly £126,000, states the report.

EDINBURGH

Medical Buildings Extension: Competition Results

The following are winners of the competition for an extension to the Medical Building to be erected on a site on the north side of George Square, Edinburgh.

First prize (1,000 guineas): W. N. W. Ramsay, of McNair Elder and Ridley, 529, Sauchiehall Street, Glasgow. Second prize (600 guineas): P. N. Taylor and J. Holt, of 2, Rokeby Avenue, Bristol. Third prize (300 guineas): A. J. N. Tolhurst, "Terriers," Riverside Drive, Esher, Surrey. The assessor was A. G. R. MacKenzie. The competition was sponsored by Edinburgh University.

CWMBRAN

New Town Master Plan Nearly Ready

The Cwmbran Development Corporation hopes to produce early in 1951 its master plan for Wales' first New Town, half-way between here and Pontypool to the north. Some important alterations in detail though not in principle are likely to result from the scores of suggestions received by the corporation since it presented its draft outline plan last month.

It has been suggested that both the railway station and the proposed town centre should be still a little farther north. The civic precincts, as originally planned, would be so truly central that they could only be reached from any direction by means of bridges over the two railway lines that cut the town from north to south.

The railway inconvenience seems unavoidable, but there is local support for transposing the central zone and the green area which, on the draft plan, separates it from Pontnewydd, one of the six neighbourhood units.

Some of the land zoned for residential development in the south-east is apt to be encroached upon by floodwaters. Criticism of this part of the siting will remain valid unless the tributary of the Usk can be dredged to open up this and other areas now doubtfully fit for development.

In addition the corporation has a short-term policy which is to proceed with the building of houses either by itself or through the Cwmbran UDC and the Pontypool RDC in places where they cannot prejudice the master plan. (Cwmbran New Town is included in those featured in the last of a series of articles by D. Rigby Childs on pages 569-572.)

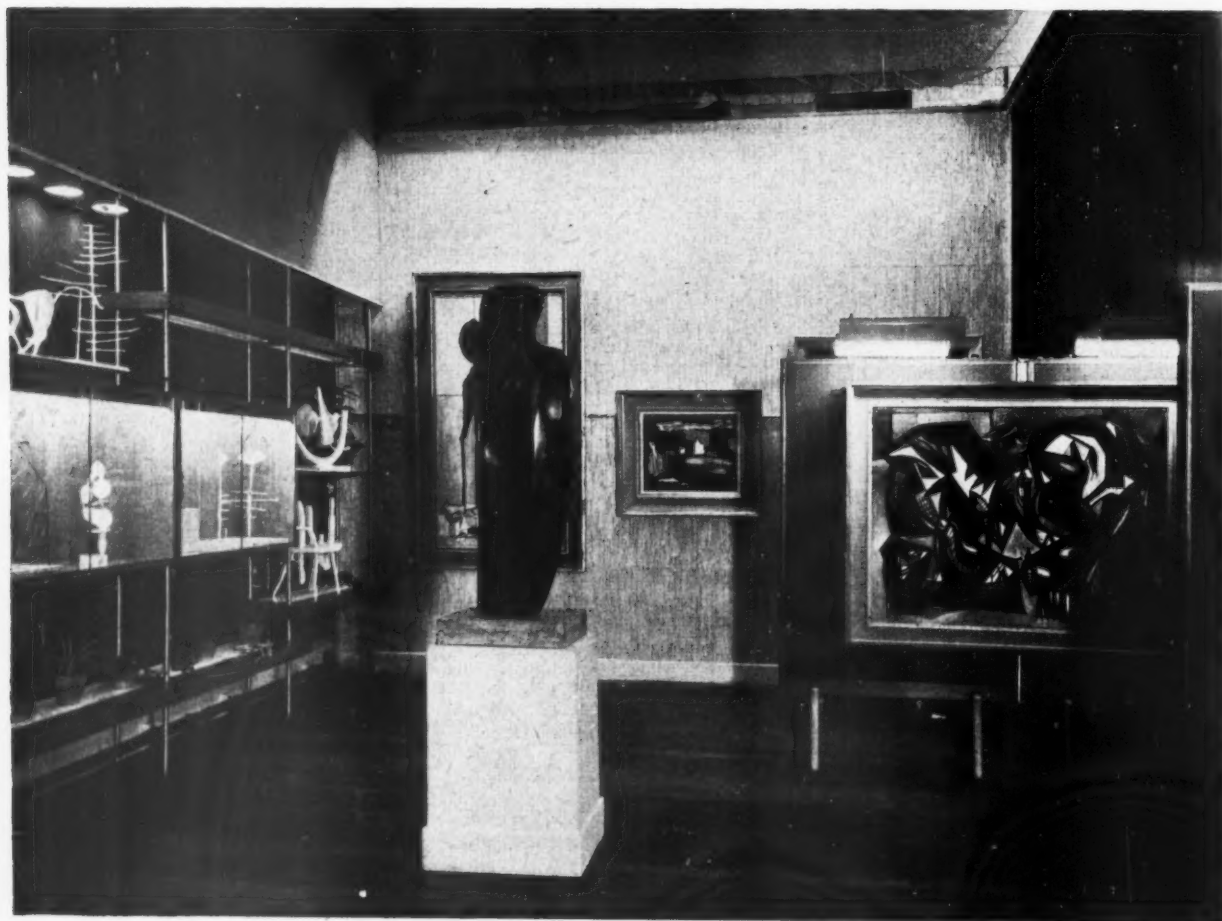
WEST HARTLEPOOL

MOTCP Enquiry

At the conclusion of the MOTCP enquiry held recently at Hartlepool into the Corporations Development Plan which Michael Rowe, K.C., considered to be contrary to the spirit of the 1947 Act, the town clerk summed up by saying that the attitude of some objectors who "don't want to be moved" was useless as opposition as an objection to the scheme.

He gave an assurance that it was not proposed to destroy any good residential property within the foreseeable future. To professional men with office property in the reconstruction area he said that when the time came for dispersal, owners' sacrifices would not be high and they would be provided under the plan with suitable alternative accommodation. Maintaining that only the high-speed action of a few Chamber of Trade executives had turned a long period of indecision among shopkeepers into eleventh-hour opposition, he insisted that

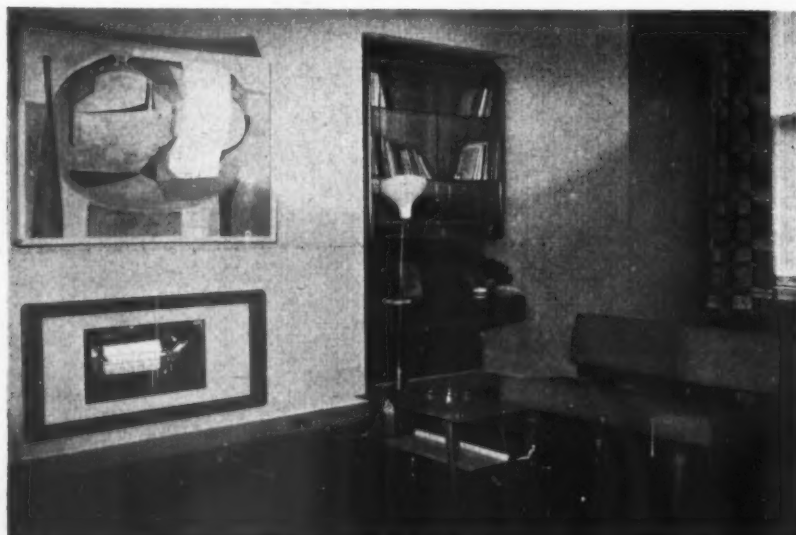
NEW INTERIOR DESIGN FOR ICA BY JANE DREW AND



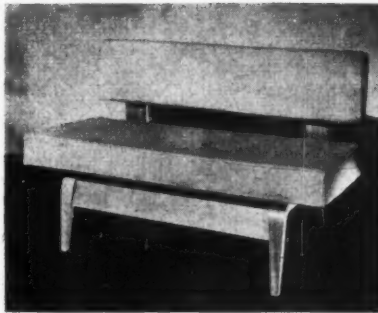
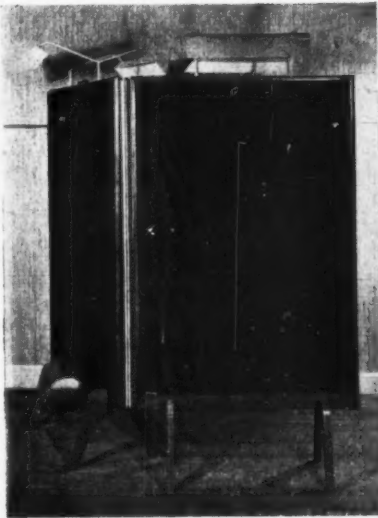
Above, the main exhibition hall of the new ICA premises at 17, Dover Street, London, which were recently opened (see last week's JOURNAL). The design is by Jane Drew and Maxwell Fry. On the left, in the photograph, is a wall fitment for small exhibits with adjustable shelving, each

containing its own lighting fixture. The wall behind the sculpture by Barbara Hepworth is lined with woven straw. The special picture rail supports movable light fittings. Below left, the clubroom. The picture over the fire is by Ben Nicholson. The book-case was made and given

to the Institute, together with most of the furniture and fitments, by Neil Morris of Glasgow. The standard lamp was designed by B. M. Shottlander. Below right, the entrance. The photographs in the right-hand column, reading from top to bottom, are: a pair of adjustable



MAXWELL FRY



double-sided screens used for display purposes; a settee in the clubroom, made of laminated Honduras mahogany and Canadian birch; a chair of the same wood, similarly upholstered in rubber foam. All designed by Jane Drew and Maxwell Fry and made by Neil Morris.



many traders, far from being injuriously affected, would be in a much more favourable position in the new shopping centre. The plan was not merely desirable, it was essential. "Would it be wise," he asked, "to throw planning to the winds and say 'build where you like'?"

The bulk of objections could be summed up in the words: "We don't want to be moved." That was a very reasonable and human thing to say. He had the greatest sympathy with people who did not want to be pushed about. But that if that was going to be the argument against planning the Act might as well be torn up and thrown on the rubbish heap. Built-up areas could not be planned without people being moved about to some extent. Everything had been done to ensure that the new plan would cause minimum disturbance. It had been pondered for years, and the best experts had been employed. Nothing better than this could be done.

The town clerk concluded with the assurance that everything possible would be done to implement the plan, if approved, in such a way as to cause the least inconvenience to every shopkeeper and business-man affected.

RIBA

Christmas Holiday Lectures

A series of three informal lectures for boys and girls will be given during the Christmas holidays at the RIBA, 66, Portland Place, W.1, by Professor W. G. Holford. The lectures will be illustrated by lantern slides and will be followed by questions and discussion. The title of the series is:—The Growth of a Town. It is designed for boys and girls of thirteen years of age and upwards. Talks will be given at 3 p.m. on Wednesday, January 3 (Towns and Town-Places); Thursday, January 4 (Towns and Townspeople); and Friday, January 5 (New Towns). Tickets may be obtained free on application to the secretary at the RIBA. Envelopes should be marked "Christmas Holiday Lectures" in top left-hand corner.

ICE

Christmas Lectures for Boys

As in previous years, Christmas lectures are being arranged at the Institution for boys, primarily between the ages of thirteen and seventeen years. This year, the lectures on "Railways; how they are built and how they run," which were given so successfully four years ago, will be repeated. They will be given at 3 p.m. on December 29, January 1, 1951, and January 3, 1951. The speakers will be Cecil J. Allen, L. G. B. Rock and O. S. Nock. Tickets may be obtained free of charge from the secretary of the ICE, Great George Street, S.W.1.

NFBTE

Extension of Incentive Schemes

A new agreement on incentive payment schemes in the building industry which, without making them obligatory, will provide machinery to enable the operatives to bring pressure on employers who do not introduce them, was announced in a joint statement by the National Federation of Building Trades Employers and the National Federation of Building Trades Operatives recently.

Both sides agree that experience of operating the first agreement on the subject, made three years ago, has shown that well-organized schemes of incentive payments

have resulted in increased production and higher earnings, and both are in favour of their extension. Because the system is still regarded as experimental, no precise and detailed scheme is laid down.

The federations will set up in each region special joint advisory panels on incentive payments. It is laid down that where the operatives on a site are aggrieved by the bonus scheme operated there, or where there is no such scheme, they may request the district organizer of their union to discuss the position with the employer. If no settlement follows, it can be reported by either side to the incentives panel, which will then give guidance. In the same way, if an employer is aggrieved by non-co-operation of his operatives in a scheme, he can report it to the incentives panel.

An agreement on sub-contracting for labour only was also announced. The employers will inform their members that they share the view of the operatives that the piecework type of labour-only sub-contracting is liable to abuses and should be under more effective control. The essential factor of such control would be that the individual labour-only sub-contractor must be prepared to prove his *bona-fides*. The operatives, on their side, will make it clear that they do not object to genuine sub-contracting of this kind.

It is believed that this action to deal with operatives' grievances about sub-contracting will make them more ready to co-operate in new incentive schemes.

LANCASHIRE

Houses for Overspill Population

As a result of suggestions put forward in the preliminary plan for Lancashire and negotiations between Lancashire County Council and the Ministry of Health, 717 houses are to be allocated in the County area in 1951 for the reception of overspill population from the overcrowded County Boroughs.

Under this scheme Worsley Urban District Council will be allocated 367 houses for people from Salford; subject to agreement being reached with other "overspilling" and "receiving" authorities, it is proposed to allocate the other 350 houses on the following basis: 150 to Central Lancashire, 150 to South Lancashire, 50 to South-West Lancashire.

This decision of the County Planning and Development Committee to approach these authorities is a further step in the scheme which enables the County Council and the County District Councils, acting jointly where necessary, to provide houses for persons from overcrowded towns.

Under this scheme, houses have already been completed at Worsley and the results achieved have encouraged the County Council to seek the co-operation of the County District Councils and County Boroughs elsewhere in the County in an endeavour to relieve the housing problem of the overcrowded towns. This allocation of houses will be additional to and will not affect the normal allocations for individual County District Councils' own housing programmes.

NEW FOREIGN OFFICE

Nash Frontage to be Preserved

The whole south side of Nash's Carlton House Terrace, overlooking The Mall, may become Britain's new Foreign Office. The Nash frontage is to be maintained, but the general height of the two blocks of buildings

proposed will be about 96 ft. above the present level. Seven of the 18 houses on the south side are already occupied by the Foreign Office. Until recently 12 were entirely and four partly occupied by Government departments.

A report by the town planning and improvements committee of Westminster City Council gives details of the scheme submitted by Louis de Soissons and Partners, the architects.

A lower ground floor will have a garage and facilities for loading and unloading vehicles with an access ramp, about 24 ft. wide, in the middle of Waterloo Place. This will begin at a point opposite the southern boundary of the Athenæum Club and end approximately under the line of the north side of the terrace.

About 90 ft. of the highway at the eastern end of the terrace is shown to be incorporated in the building site. Most of the remaining highway is to be widened.

The report adds: "The City Council offers no objection in principle to the proposed scheme provided the architectural treatment of the proposed ramp in Waterloo Place is approved by the Council, and

"(a) adequate provision is made within the building for the garaging of cars both by people working there and visitors to the new building;

"(b) adjoining street car parks are available to the general public;

"(c) satisfactory arrangements are made with the City Council regarding the incorporation in the site of part of the highway of Carlton House Terrace;

"(d) any part of the site proposed for the general use of the public to be dedicated to the public without compensation; and

"(e) all underground works beneath the public way to be carried out without cost to Westminster."

IRA

Assistance for Students

At a recent meeting, the Council of the Institute of Registered Architects considered a number of requests for assistance from architectural students. It was noted that these were mainly from students in provincial towns and that they were almost identical in character in that they sought the opinion of practising architects on various aspects of their studies.

The Council have, therefore, decided to set up a Students' Service for the purpose of meeting this need. To this end, a panel of architects, each a specialist in his own field, has been appointed to collaborate with consultants in materials and building technology.

The Council wish to emphasise that the Students' Service is not (a) a students' union or similar organisation to further the general interests of students; (b) a teaching organisation; (c) an examining body.

On the contrary, the service will serve the specific purpose of enabling students to take the opinion of practising architects and other specialists on any matters connected with their studies where they feel this will be helpful to them. There is ample evidence that many students, especially those living in the provinces, are working under considerable difficulty and it is they whom the service is particularly designed to assist.

A feature of the service is that student subscribers will be able to use the Institute's library service organised in conjunction with "Books & Careers," Oxford Street, London, W.1. Under this, any books on architecture, building technology, building and planning law and allied subjects may be borrowed and students may be assured that only current editions are retained in the library.

Students interested in becoming subscribers to the service are invited to communicate with the secretary of the Institute, 47, Victoria Street, London, S.W.1.

DIARY

Housing Association's Post-War Housing Schemes. At 13, Suffolk Street, S.W.1 (HC). Housing schemes and reconditioning carried out by housing associations since 1945. Daily: 9.30 a.m. to 5.30 p.m. Saturdays: 9.30 a.m. to 12.30 p.m. UNTIL JAN. 13

The Structural and Decorative Use of Timber. J. R. M. Poole. At 13, Suffolk Street, S.W.1. (Sponsor, IRA.) 6.30 p.m. JAN. 5

Draughtsmanship of the Past. H. S. Goodhart-Rendel. At RIBA, 66, Portland Place, W.1, on the occasion of the announcement of awards of prizes and studentships. 6 p.m. JAN. 9

The Early Years of Illuminating Engineering in Great Britain. Dr. J. W. T. Walsh. At the Royal Institution, Albemarle Street, W.1. (Sponsor, IES.) 6 p.m. JAN. 17

This feature covers aspects of legislation, parliamentary news or statutory rules and regulations which are of special significance to the architectural profession.

ERNEST WATKINS

The Architect and Current Affairs

The text has now been published of the new Government Bill amending the Town and Country Planning Act of 1947, and its Scottish counterpart, and I should add, lest hopes rise too high, that the amendments proposed are extremely modest. The Bill seeks to remedy two flaws in the original Act discovered by the Ministry in the course of the Act's operation. It makes no attempt to remedy any of the flaws (and the number is far greater than two) discovered by anyone else over the same period.

The Bill would amend two Sections only of the 1947 Act and one amendment can be described as no more than a drafting amendment, probably overlooked in the original Bill. That is the amendment to Section 23 sub-section 1 (which deals with enforcement notices). Under the Act as it stands, a planning authority can only take action to end an unauthorised development if it serves an enforcement notice within four years of the time the development was made. If it fails to do that, the development becomes, in effect, authorised. The amendment proposed would allow an enforcement notice also to be served in case of a breach of a condition imposed when the development itself was authorised. At the moment, so the Ministry seems to think, the Section is defective in that it gives the planning authority no means of enforcing a planning condition as distinct from putting an end to an unauthorised development. No one will quarrel with such a proposal.

The other amendment has more sub-

stance. It is an amendment to Section 12, sub-section 2 para (a). Under that paragraph in the Section, owners of war damaged buildings are entitled to rebuild without planning permission. The Ministry has discovered that, when they do, the result frequently does not conform to the development plan for that area. The amendment now proposed would require every owner of a war damaged building to obtain planning permission before starting on its restoration; and, of course, the theoretical arguments in support of that are strong. If an area is to be replanned in its entirety, it is pointless to permit time, money and material to be spent on the restoration of buildings that have no place in the final plan.

But is it fair, is it practical, to seek to retrace this particular step today? True, the amendment in this Bill would not affect works put in hand between the appointed day and December 13, 1950, the day the text of the Bill was published. But is the prospect of wholesale redevelopment in many areas so imminent, today, that all reconstruction work should be held up by the need to get planning permission as well as a building licence? Are all authorities' development plans so complete and final? There is a real belief in many minds that too many plans are still so fluid that they can only be described as extremely muddy. This amendment is three years too late.

There is another aspect of this Bill. MOTCP has decided to open the ball for planning in Parliament with this Bill, but I hope that Parliament will not leave the dance programme with no more than the two rather minor measures proposed. For example, the Federation of British Industries has recently published a pamphlet containing a number of practical suggestions for revisions to the 1947 Act. I do not propose to deal with the financial side of their arguments in this article; they deserve fuller treatment. But here are a selection from the others:—

(a) Is it necessary to allow a planning authority as long as two months within which to deal with any application for planning permission? Should not the period now be cut down?

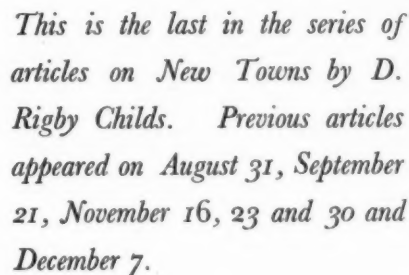
(b) Is it fair to allow a planning authority to impose "such conditions as they think fit" on the grant of planning permission, when, in fact, some authorities use that power to impose conditions that have nothing to do with planning at all.

(c) Is it not time that the Board of Trade's location of industry policy was made at least as public and as definite as a planning authority's development plan? At the moment, so the FBI alleges, a state of complete confusion reigns in some areas.

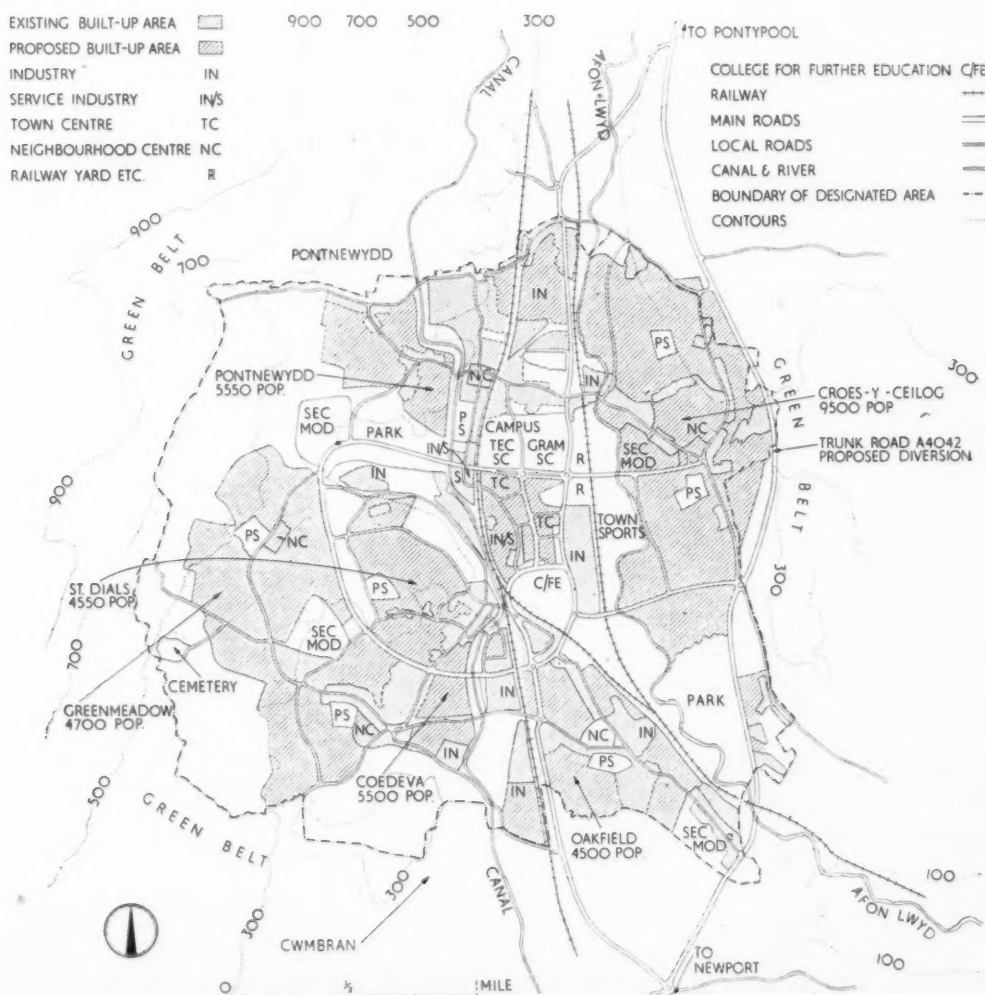
And so on throughout the Act. But the list of amendments to the Bill is not confined to that drawn up by the FBI. The Treasury, too, has its list. Three days after MOTCP published its draft, the Chancellor of the Exchequer announced in the Commons that the 1947 Act would need amendment to meet the recognised hardship suffered by those concerns which had, before the Act came into force, bought land adjoining their factories for extensions and had, under the Act, lost both their right to develop it freely and their right to fair compensation for the rights they had lost. Can it be that the Chancellor was in ignorance of the terms of the Ministry's own draft, or that the Ministry was unaware of what was in the Chancellor's mind? If so, Government departments are even more ivory towers than one had suspected.

I trust that we shall see in the Order Papers of both Houses of Parliament considerably fuller range of amendments to the 1947 Act than those two contained in the original draft. I have the impression that the Ministry may well have opened what it may come to think of as a Pandora's box.

1950: *March*.—Preparation of the master plan began.



EXISTING BUILT-UP AREA	
PROPOSED BUILT-UP AREA	
INDUSTRY	IN
SERVICE INDUSTRY	IN/S
TOWN CENTRE	TC
NEIGHBOURHOOD CENTRE	NC
RAILWAY YARD ETC.	R



Plan of Cwmbran New Town. Area of proposed town lands: 2,550 acres. Population of neighbourhood units: 34,300 Population of scattered housing: 378. Population of town centre: 322.



The site for Cwmbran New Town.

October.—Final draft of the master plan submitted to the Development Corporation.

November.—Draft outline plan presented to government departments, local authorities and the public for comment.

COMMENT

As the site of the new town is just outside the mining area, the planning of Cwmbran will be free from subsidence problems. Sufficient industrial employment is already provided in the area to meet the needs of the new population. Since the war two new factories, of a combined floor area of 116,000 square feet have been built and two small ones, of a combined floor area of 6,700 square feet are to be built. Although no further direction of major industries into the area is anticipated, existing industries are being extended and some extension of service industries is contemplated. Extensions, totalling 154,800 square feet, have been completed to factories making biscuits, fire-bricks, tin plates, valves and tin boxes, and

extensions for a further 39,700 square feet have been approved to other factories.

The first draft of the outline plan has just been made available for publication and the following is a brief note about the plan.

The New Town site is roughly a square measuring about 2½ miles in each direction. The photo above brings out the character of topography in the valley—the meandering river and pleasant pasture lands, already broken into, especially by the large Girling's brake linings factory adjoining the Hereford and Newport Railway. On the terrace above the river there are the Monmouthshire and Brecon Canal and the Eastern Valleys Railway and the characterless and rather sprawling development of the present townships of Pontnewydd and Cwmbran, the latter containing in addition several large old clay pits. Elsewhere is substantially open country, except for some pockets of development east of Afon Llwd.

The consultants propose that the land between the river and the Hereford and Newport line shall be preserved as a greenway

through the town. The land in the centre of the town between the two railways forms one of the most attractive building sites, and is earmarked for the town centre, service industry, technical school, grammar schools and college of further education. The principal buildings will stand on a low ridge parallel to the railway.

The new residential areas are disposed very compactly around the town centre and have been carefully placed to screen the present housing wherever possible. It is proposed that residential density for the new areas should be around 35 persons per acre net. This is a high density where infilling of sites is entailed and where frequently levels are fairly steep, and it is expected that much of the new housing will consist of closely-spaced houses with small gardens attached.

An attractive feature of the plan is the open space distribution; greenways following the river, canal and streams give form to the plan; and the siting of parks and playing fields on the fringes of the town has enabled all housing to be within a mile of the town centre. The sites for schools, all of which are new, are closely related to the open spaces and housing areas.

The layout of the main roads is simple; the Newport-Pontypool trunk road (A 4042) on the eastern boundary of the designated area enables through traffic to by-pass the town; a loop off the trunk road provides the main approaches to the town centre and industrial areas from the north and south, while a ring road around the hill of St. Dials provides for internal traffic circulation. In detail, however, layout of the new roads is made difficult by the variations in levels and the frequent crossings of the river, canal and railways, necessitating many bridges and approaches.

It is hoped to fill in some of the old clay pits with refuse from Panteg steelworks and to reclaim such land for recreational or other purposes.

Sewerage facilities will be provided by the new main trunk sewer now being laid through Cwmbran to serve the whole of this eastern valley of Monmouthshire.

To sum up, the building of the New Town starts with three important advantages: provision for industrial employment is already ensured; building will not be held up through lack of drainage facilities; and, above all, the idea of the new town is welcomed by the local people as it will be the means of obtaining many sorely-needed amenities.

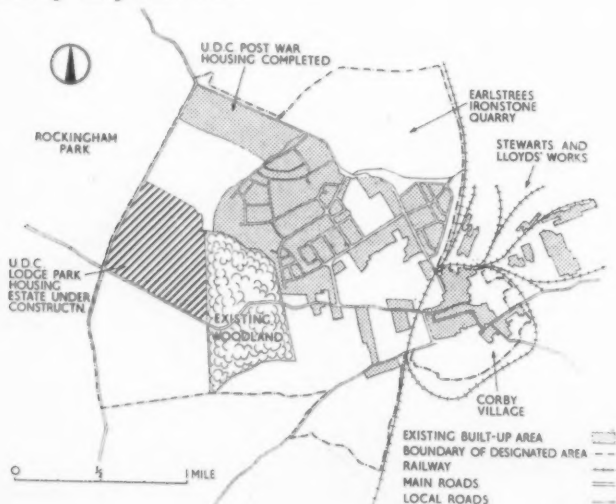
NOTES ON PROGRESS

The work of the Corporation is still in the preliminary stages. It was established in November last year, and has appointed its chief officers and a few of its staff. There is a shortage of staff and great pressure of work is experienced by the staff already appointed. The offices were moved a short while ago from Pontnewydd to Newport.

The Corporation states that it has embarked on a short term policy of immediate building which can be undertaken both by local bodies and the Corporation without prejudice to the master plan.

N.B. Since this article was written suggested alterations to the Cwmbran plan have been suggested. See news item on page 565.

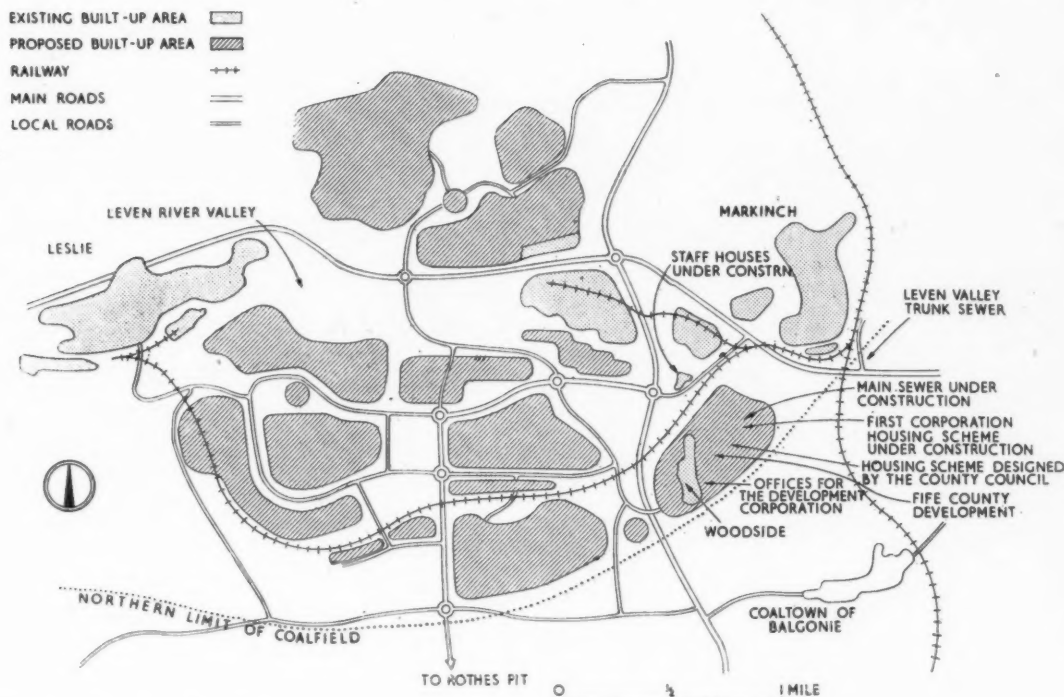
Plan of Corby New Town



NEW TOWNS: No. 12

Progress report on Corby by D. Rigby Childs

The new town of Corby provides an instance of how the Minister of Town and Country Planning has made use of the powers bestowed upon him by the 1946 New Towns Act to set up a Development



Plan of Glenrothes New Town.

Corporation whose terms of reference is to create a complete town in an area where a considerable amount of residential development has taken place over the last twenty years in open country away from an existing town.

There are two main aims in making Corby a New Town. The first is to provide, as a matter of urgency, the dwellings needed for a big expansion of Messrs. Stewarts and Lloyds' activities. Secondly, to provide everything else needed to make Corby a pleasant place to live in for about 40,000 people.

Corby is in Northamptonshire, about seven miles north of Kettering, and up to 1930 was a picturesque stone-built village of about 1,600 inhabitants. Between 1930 and 1939, Messrs. Stewarts and Lloyds erected their large works on the outskirts of the village. This works is based on the Northamptonshire ironstone and is one of the most up-to-date in the world. The ironstone is quarried and converted into iron and then steel and then into steel tubes in a continuous process; 6,000 people are already at work on a continuous shift basis, and many have to travel considerable distances every day, often at inconvenient times, because they cannot find accommodation nearby. Another 4,000 people are expected to have employment at these works after their expansion.

The site of the designated area contains the existing village of Corby and the large housing estate. Stewarts and Lloyds' works are just to the north of Corby village and lie outside the designated area. Immediately to the north-west is Rockingham Park, an amenity of great value to the New Town which is situated in the pleasant but dull Midland countryside. Within the site there is one large wood, and generally the hedge-rows are well developed. The population at Corby was about 11,000 by 1939 and the present population is 15,000.

Corby is on a plateau about 400 feet up at the northern end of the Northamptonshire uplands. The levels tend to slope from west to east, falling from about 430 to 360 feet above sea level. The subsoil is mainly Northampton sand.

DEVELOPMENT CORPORATION

The Development Corporation includes the following members and staff:—chairman, Henry Chisholm; vice-chairman, Lord Douglas of Barloch; general manager; R. F. Brooks Grundy. No technical staff has yet been appointed. The planning consultants are William Holford and H. Myles Wright.

PROGRESS

1950: March.—Designation order made for 2,500 acres.

August.—Planning consultants appointed.

October.—Interim report dealing with the site of the future town centre, the first building programme and other matters was submitted by the consultants.

November.—General manager took office.

COMMENT

The present town is deficient in shops, cafes, places of amusement, and other services and amenities, and a considerable expansion of service industries is intended. There will also be some development of industries other than steel-making, but the scale on which this is to be done has not yet been decided.

The planning of this New Town has to take into account the need for quarrying the great majority of the ironstone which underlies most of the land around the town and some of the land within the designated area. The Earlstrees portion of the designated area, amounting to about 400 acres, is being quarried for ironstone and afterwards it is intended to restore the land and make it over for New Town purposes. One of the questions to be solved is whether, and if so how soon, it will be possible to build on land from which the ironstone has been extracted.

NOTES ON PROGRESS

Corby differs from other New Towns in a number of ways. One of them is that a large programme of house building was in hand when the Corporation was set up.

These houses are being erected by the Urban District Council and the rate of building is now about 400 houses a year. Among the first problems of the Corporation are those of deciding the site of the town centre, the main road framework, and the choice of sites for the Corporation's first building programme.

It is expected that a further report by the Consultants will be submitted to the Corporation in February or March, 1951.

NEW TOWNS: No. 13

Progress report on Glenrothes by D. Rigby Childs

Sir Frank Mears, in his Regional Survey and plan for Central and South-east Scotland, recommended the building of a New Town at Leslie-Markinch for the purpose of housing the miners who will be working in the new Rothes coalfield and in other mines nearby. The Secretary of State for Scotland accepted this proposal and approved the site recommended. It is expected that the miners, who will come to the New Town, will be from the areas of declining coalfields in Lanarkshire and Central Fife. About 3,500 miners are expected to be accommodated, who with their families and other persons will amount in all to an ultimate population of about 30,000. It is intended that not more than 1 in 9 of the population shall be a miner.

Glenrothes is in East Fife. The site, largely open country, contains the villages of Woodside and Cadham. The existing population is 775. Immediately to the west of the new town site is the small burgh of Leslie, and to the east the burgh of Markinch.

The topography is undulating and well wooded. The levels of the land for develop-



A model of Bracknell New Town.

ment lie between the 200 ft. and 550 ft. contours and generally fall toward the River Leven which flows through the middle of the site from west to east. The major part of the development is on the south bank and lies not higher than the 400 ft. contour. The subsoil is light clay.

DEVELOPMENT CORPORATION

The Development Corporation is made up as follows:—chairman, Sir Hector McNeill; vice-chairman, John Skeddons; general manager, F. A. B. Preston; chief architect and planning officer, P. Tinto.

PROGRESS

1947: First drafts of the master plan prepared by the Department of Health for Scotland.

1948: July.—Designation order made for 5,730 acres.

1950: July.—First Building construction contract let. Work under construction included 56 houses of all types and roadworks for 388 houses.

Information on total expenditure to date on civil engineering and building construction and on size of labour force at work is not at present available.

COMMENT

There are already in the area of the New Town several large factories and the workers engaged in these will be encouraged to settle in Glenrothes, and some new factories will be introduced.

The residential areas will be developed at an average net density of 50 to 55 persons per acre (based on 3.5 persons per house), but in detail the densities will, of course, vary—around the town centre the density will be higher than the average and in some outlying areas they will be lower.

NOTES ON PROGRESS

Active work by the Corporation has been in progress for only just over a year as the Corporation's technical staff did not arrive until September 1949. Before this, however, the Department of Health had allocated in January 1949, 250 houses to the Corporation. In order to make a start the Corporation entrusted the design and layout of the first 132 houses to Fife County Council. A scheme was prepared for building in Woodside, where house construction had already been started by the County Council at the time the Development Corporation was set up. The balance of 118 houses have been designed by the Corporation's architect and construction of 38 houses has been started.

Later in 1949 another allocation was made of 18 houses for the use of the Corporation staff. Construction of these began in July this year and it is hoped to complete all 18 houses by the end of April 1951.

The 1950 allocation was 200 houses and a contract for 140 houses is expected to be let shortly.

The County Council began work in 1948 on the trunk sewer which is designed to carry all the foul water sewage from Glenrothes. This is the Leven Valley trunk sewer. It will begin on the far side of Leslie, and passing through the Leven River valley it will finish at the sea at Leven.

NEW TOWNS: No. 14

Progress Report on Bracknell by D. Rigby Childs

Sir Patrick Abercrombie, in his Greater London Plan, 1944, recommended the building of a new town at White Waltham, near Maidenhead, to relieve congestion in boroughs on the west side of London. The proposal was adopted in principle, but the site finally selected for the New Town was one about five miles south in the area of the small market town of Bracknell, which lies between Wokingham and Ascot and is about ten miles from Reading. The ultimate size of population in Bracknell is to be 25,000 persons.

Bracknell is in Berkshire and in the rural district of Easthampstead. The site, partially built-up, contains the town of Bracknell and the hamlets of Bullbrook, Borough Green and Easthampstead, which together have an existing population of between 5,000-6,000 persons.

The topography is predominantly gently undulating countryside, well planted with the wide variety of deciduous trees that is typical of the Thames Valley area. In the southern part of the area scrubland and conifers mark the beginning of the Camberley heath country. The subsoil is London clay with an overlay towards the south of Bagshot sands.

DEVELOPMENT CORPORATION

The Development Corporation includes the following members and staff:—Chairman, Sir Lancelot Keay; vice-chairman, H. W. Wells; general manager, Sir Ambrose Flux

Dundas; architect, E. A. Ferriby; engineer, J. T. Kendal.

The Corporation decided not to appoint a consultant but an architect planner.

The only outside architects who have so far been engaged by the Corporation are Louis de Soissons & Partners for the design of 72 houses to be built on the outskirts of the northern side of the present town.

PROGRESS

1949: June. Designation Order made for 1,850 acres.

1950: July. By this month 14 acres of land had been acquired.

The Corporation moved from London into office quarters on the site.

The senior staff took up their appointments.

COMMENT

As far as the provision of the main services are concerned the building of the New Town should be a fairly straightforward job, but from the start of the general constructional work, new main drainage will have to be installed as the present local sewerage system will be loaded to capacity on completion of the initial building programme of 72 houses.

The chief problem likely to be encountered in the preparation of the master plan will be to find a method of accommodating within the designated area the full complement of residential and industrial buildings and services for a total population of 25,000 at an average density, which will be appropriate to the character of Bracknell. The reasons for this are two-fold: relative to the size of population the site area is smaller than in many other New Towns; the average density of the existing development is very low, and is of a scattered nature. There is the town of Bracknell, possessing a few old buildings but otherwise varying quality ribbon development of the last eighty years; a RAF Staff College occupies an estate to the south of the town; around the town numerous late Victorian houses and villas, with extensive gardens, take up, between them, a considerable acreage of land; well outside the town area modern ribbon development has spread out along the main roads and off the main roads isolated groups of small houses, bungalows and even huts, and some with large gardens, have appeared over the last twenty years; even scrubland has not been immune from the spread of this sporadic development—uncontrolled to the point that boundaries of some plots have never been defined; the remaining pockets of land are occupied by small holdings.

The site of Bracknell presents a challenge to the planners, and the outcome of their work will be awaited with great interest.

There is a small amount of light and service industry in Bracknell; the majority of the workers come from within the area, and others travel in. New industry will have to be attracted to Bracknell and the Corporation have recognized the importance of making an early start on industrial building.

NOTES ON PROGRESS

The planning of this New Town began three months ago, after the Corporation had spent the early months of its existence in finding and appointing the senior staff, some of whom have still to join the Corporation. The whole of the work on the survey and the master plan will be carried out by the Corporation staff, and by the middle of next year it is hoped to have substantially completed this phase of the programme.

The Corporation hope to let the contract for the construction of the first group of houses in November of this year.

It is estimated that the planning and building of this New Town will take about fifteen years.

NURSES' RESIDENCE

at ST. HELIER, JERSEY

designed by GRAYSON and LE SUEUR

It was thought desirable to locate the new nurses' home at the St. Helier General Hospital as far from the existing buildings as the limits of the site allow, to achieve a sense of detachment and a good aspect. There is accommodation for a matron, assistant matron, administrative staff, 12 sisters, 100 nurses and cadet nurses. For reasons of economy, the building is very simply detailed and the elevational treatment relies for effect upon massing.

General view from the north-east.





View from the south-east, with the main entrance on the left.

NURSES' RESIDENCE

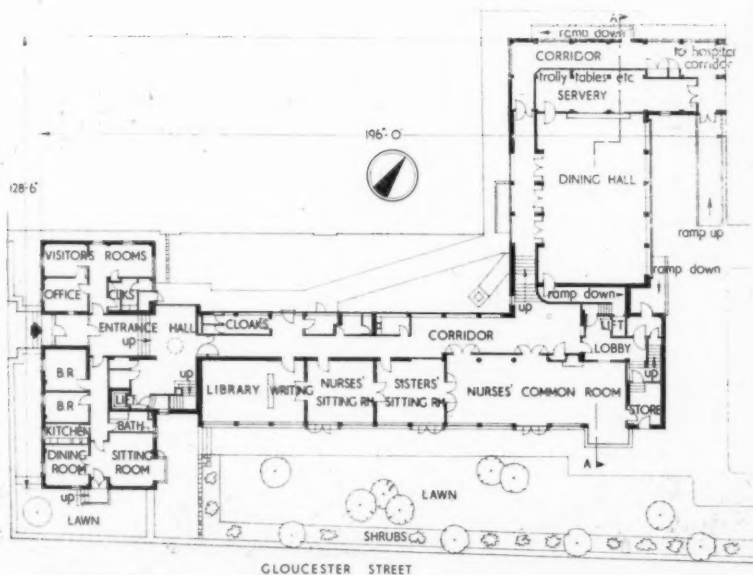
at ST. HELIER, JERSEY

designed by GRAYSON and LE SUEUR

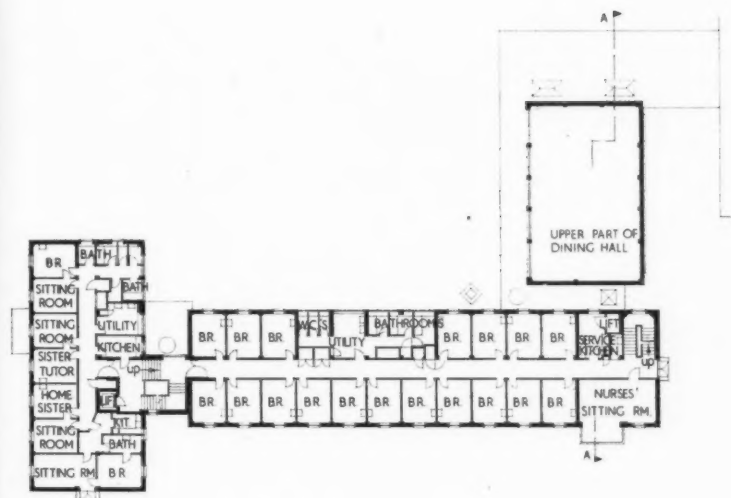
PLAN.—In order to avoid an institutional atmosphere something in the nature of an hotel plan has been adopted. The principal ground floor rooms facing Gloucester Street are planned *en suite* to provide good facilities for dances and other entertainments. Cloakroom and lavatory accommodation for male guests is provided off the entrance hall. The dining room is planned to take advantage of the view



Basement plan



Ground floor plan [Scale: 1/16"=1'0"]

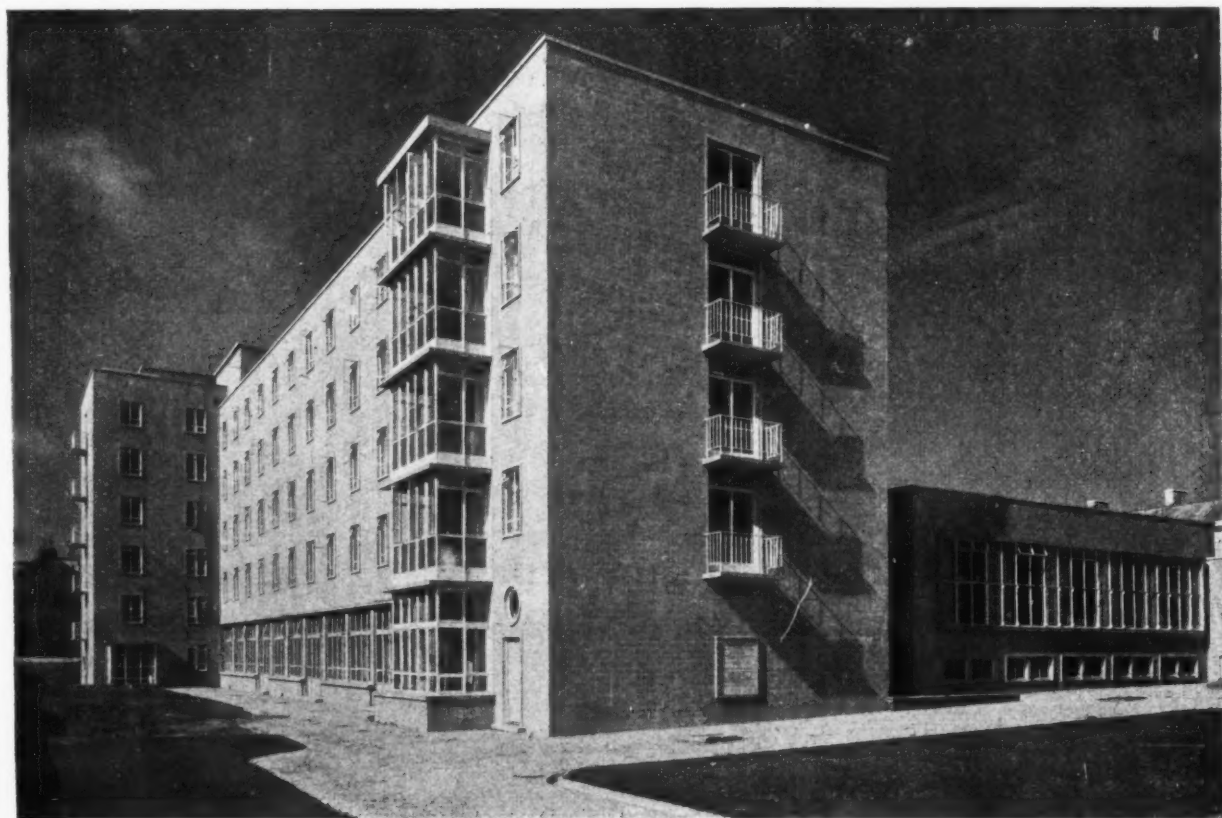


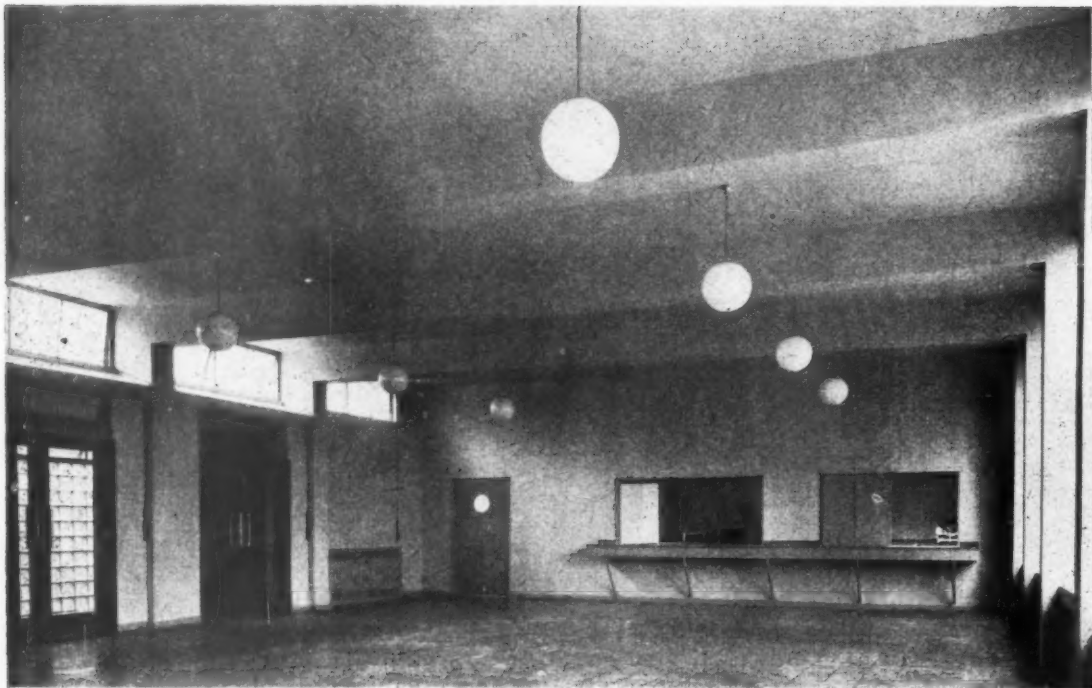
First floor plan

across the hospital garden and the parapet level is kept low in order to keep the windows of the hospital clear. However, provision is made in the construction for the addition of bedroom accommodation above the dining room if required later. The site is bounded on the north-west side by the island prison and, although it is hoped that this institution will soon be re-located and the site used for hospital purposes, it was a condition that as few as possible of the bedrooms should overlook it. A direct-link with the hospital has been built for service purposes and the convenience of the staff.

CONSTRUCTION.—Owing to the acute shortage of building craftsmen in Jersey and the considerable cost of dressing the local granite, with which the hospital is faced, concrete, in various forms, is used throughout the new building. Reinforced concrete is used for the frame, floors and roofs; concrete blocks for walls and partitions; 3-in. foamed concrete screed for insulation to the main roofs and precast

*View from the north-east with
the dining hall on the right.*



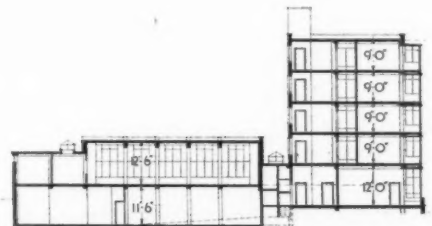


Dining hall showing servery.

NURSES' RESIDENCE

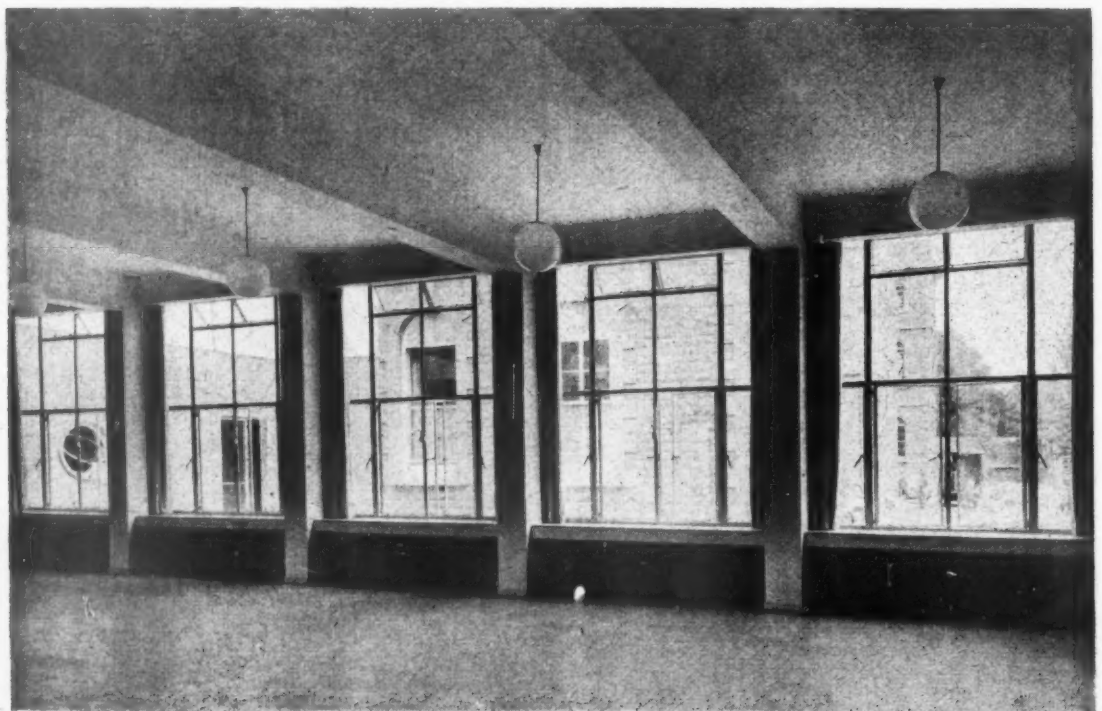
at ST. HELIER, JERSEY

designed by GRAYSON and LE SUEUR



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

Dining hall windows showing under-cill convectors.



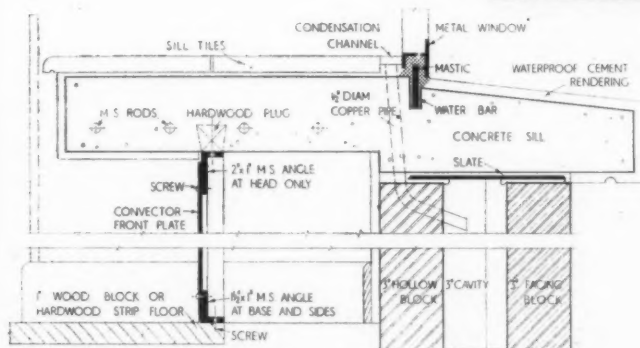
concrete for the window surrounds. Pile foundations were used. There are two types of concrete blocks, specially made 3-in. blocks with a facing of exposed crushed granite aggregate for the outer skin of the cavity walls (cavity 3 in.), and 4-in. lightweight hollow blocks for the inner skin and for internal partitions. The granite aggregate has a warm pink colour, which blends well with the hard local granite of the existing hospital.

FINISHES.—The main roofs are covered with bituminous felt and cement tiles, and for smaller areas of roofing asphalt is used. The entrance hall, dining hall, bedrooms and corridors have rubber covered floors; servery, bathrooms and w.c.s are finished with terrazzo and elsewhere there are hardwood blocks or strips. Bedroom and corridor walls are distempered pink; staircases and entrance hall are quaker grey.

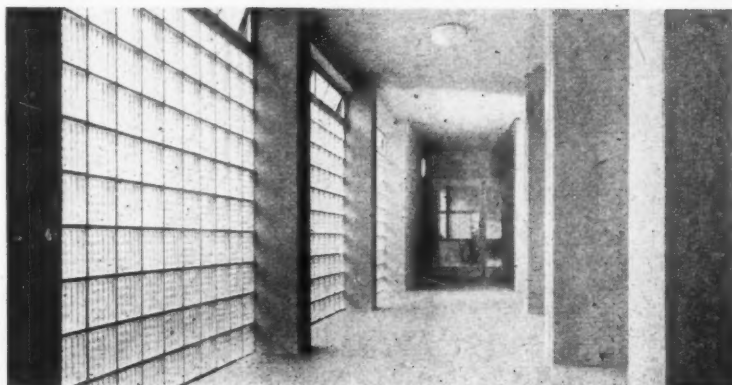
SERVICES.—The building is equipped with two lifts, a 10-cwt. passenger lift in the south-west and an 8-cwt. service lift at the north-east end of the main block. The heating and hot water installation

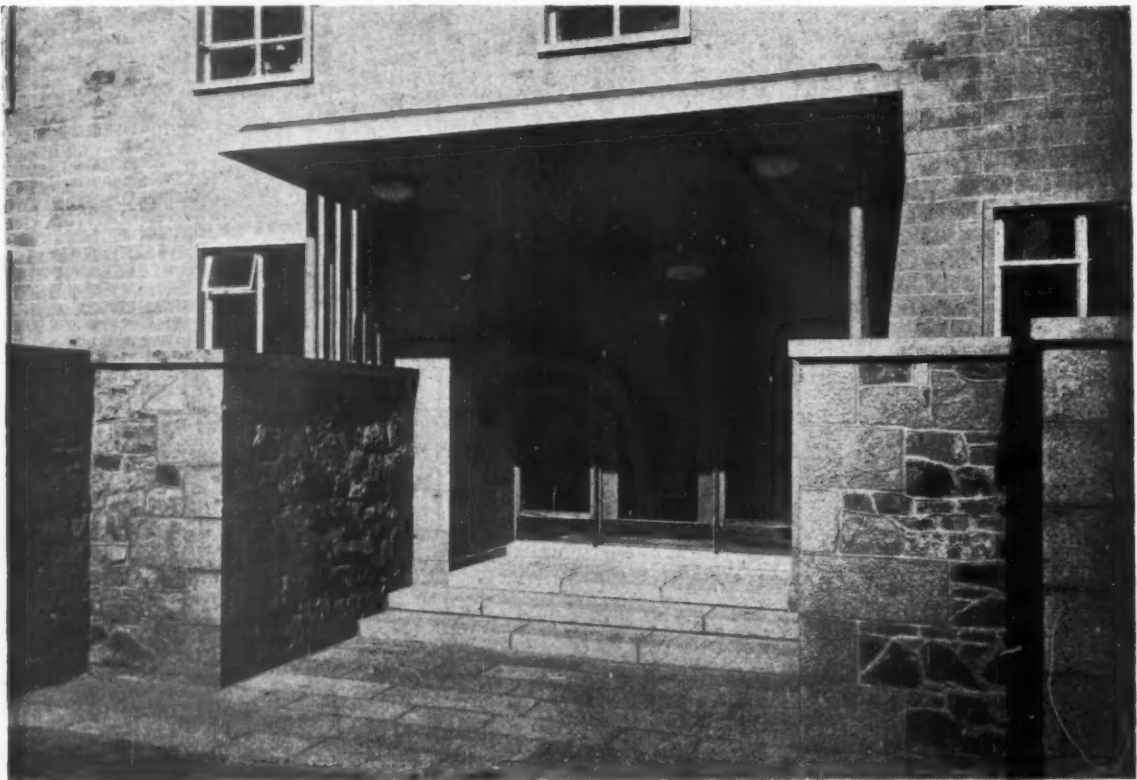


Above, staircase from the dining hall to the common room. Below, the dining hall corridor.



Section A-A through convective hood [Scale: 1 1/2"=1'0"]





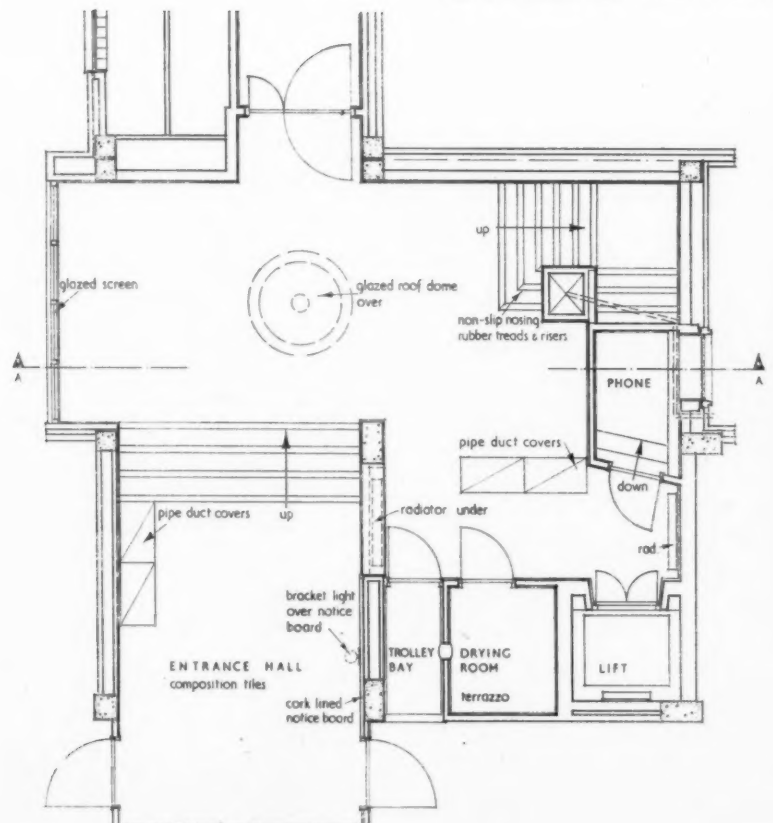
Main entrance from Newgate Street.

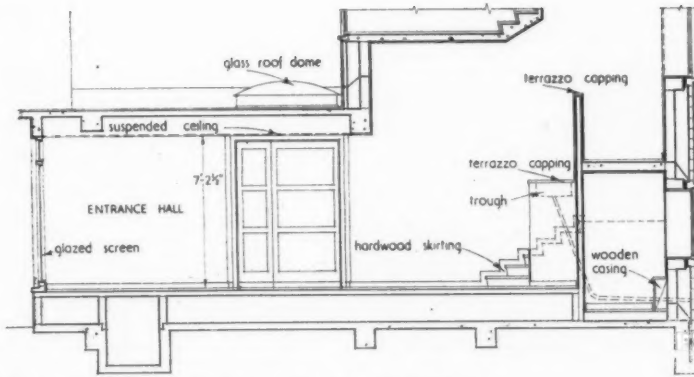
NURSES' RESIDENCE

at ST. HELIER, JERSEY

designed by GRAYSON and LE SUEUR

Plan of entrance hall [Scale: 1" = 1'0"]





Section A-A through entrance hall [Scale: 1/2" = 1'0"]

is fed by two oil-fired boilers with a total capacity of 1,808,000 B.Th.U. Space heating is by means of hot water radiators, but due to the mild climate, bedrooms are provided with portable electric fires only. Hot water supply is from a large capacity, high-pressure steam-heated calorifier.

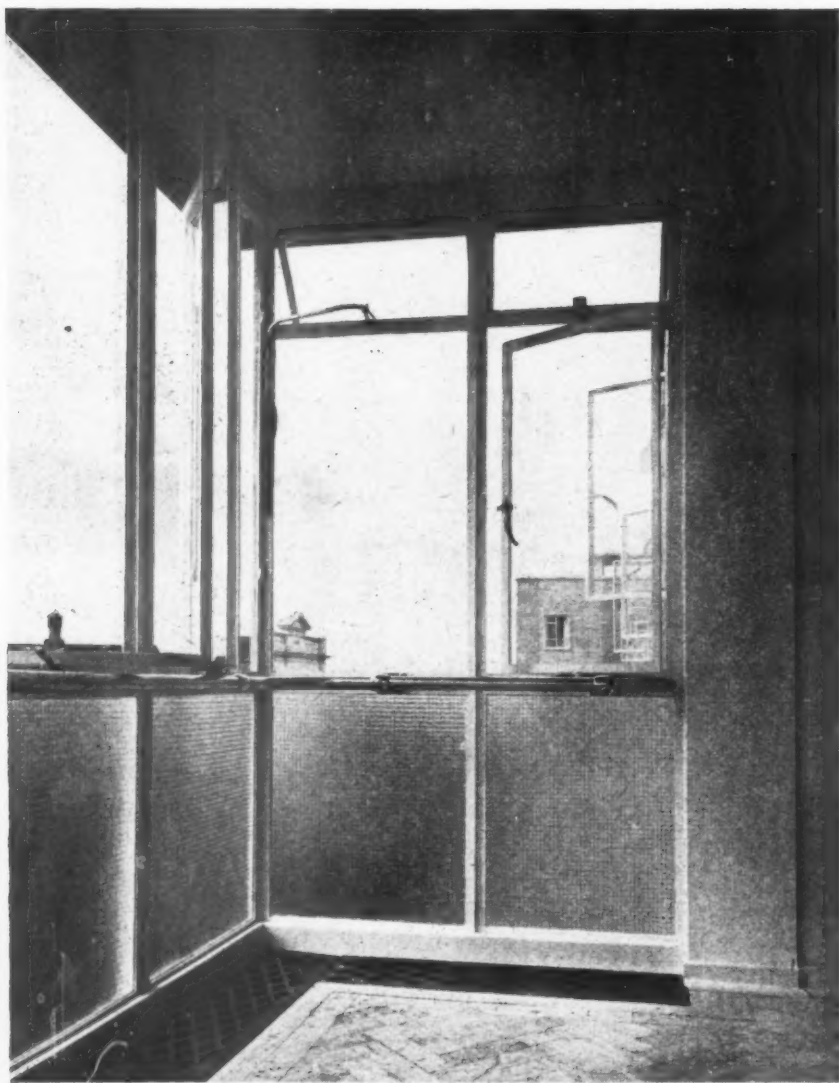
PRICE.—Building costs in Jersey are said to be nearly twice those in England and the cost per foot cube for this building was 6s. 4d. The contract price was £157,309.

The general contractors were Jersey Contractors Ltd. For list of sub-contractors see page 588.



Above, the main staircase looking down from the fifth floor. Below, the main staircase from the entrance hall.



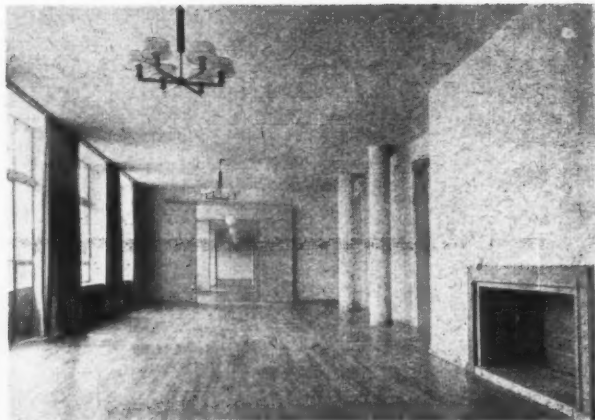
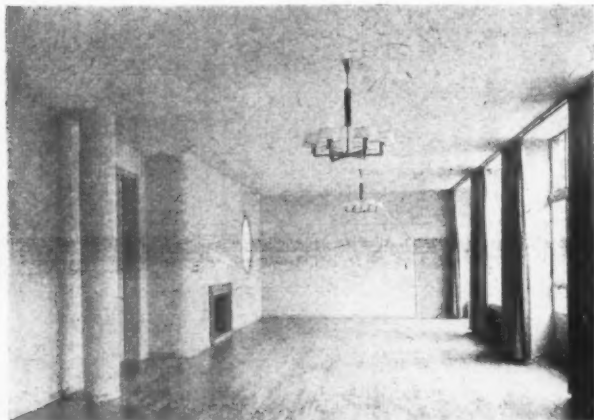


Left, bay window in typical nurses' sitting room. Below, left, nurses' common room. Below, right, rooms en suite on ground floor.

NURSES' RESIDENCE

at ST. HELIER, JERSEY

designed by GRAYSON and LE SUEUR



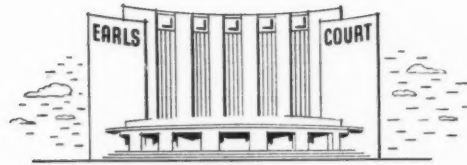
MATERNITY HOSPITAL

in ST. SAVIOUR'S ROAD, JERSEY
designed by GRAYSON and LE SUEUR

The new extensions to the maternity hospital in Jersey, which was originally a private nursing home, are confined to one side of the original Edwardian buildings. Because no encroachment on to the existing, well laid out garden was permitted, the planning had to be somewhat cramped. The peculiar shape of the delivery suite was dictated by the position of an existing structure and the need to avoid sunlight.

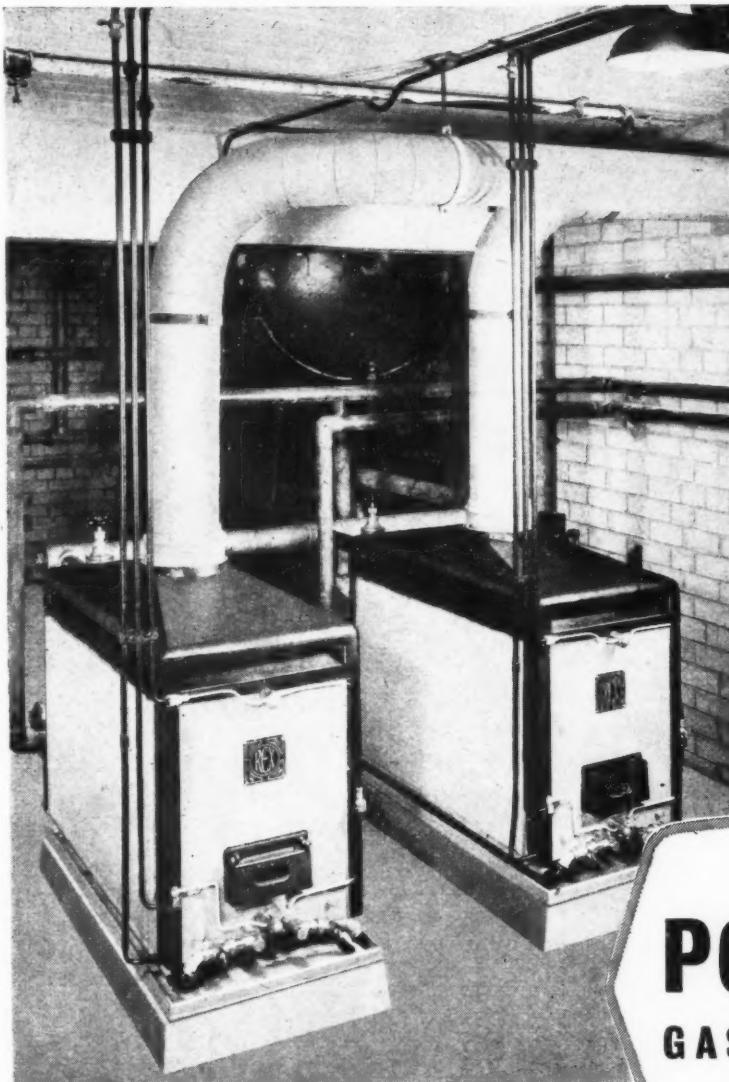
View of nursery 1 and bathroom.





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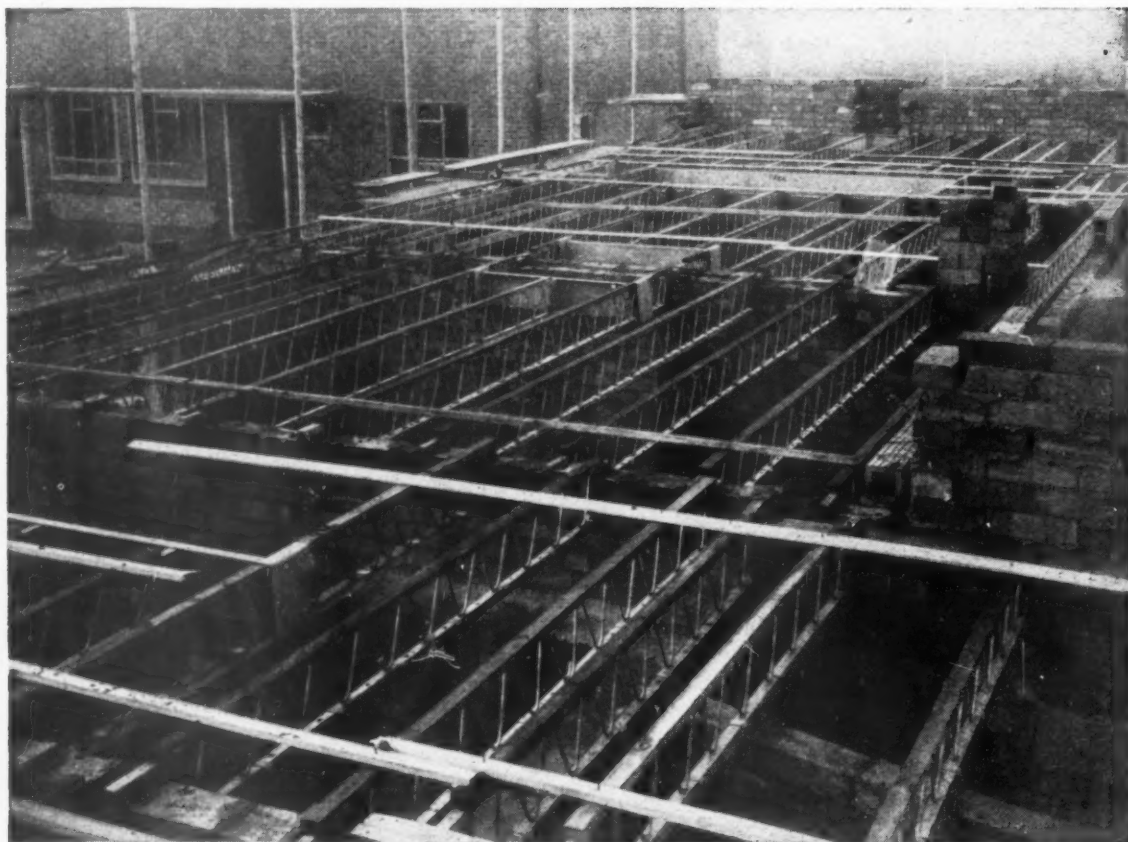
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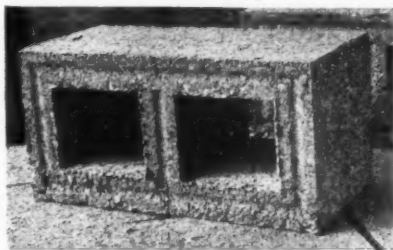
TECHNICAL SECTION

It is alleged that, for several years, the USA concrete block industry has doubled its annual output. Here in Great Britain, modern methods of manufacture are turning out, economically, a vastly improved product and it is opportune that we reconsider the place of the concrete block in building technique.

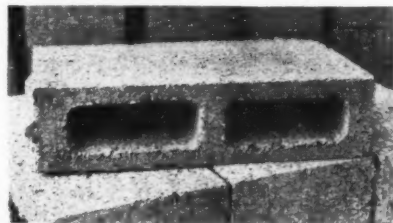
CONCRETE BLOCKS

MATERIALS

The principal materials used for concrete blocks are ballast, clinker and foamed slag. The weight of ballast blocks is a distinct drawback; a standard 18 in. x 9 in. x 9 in. hollow block (see Fig. 1) usually weighs between 75 and 80 lb. and requires two men to lift it into position. (The CCA recommend that no concrete blocks should weigh more than 85 lb. and experience in the USA indi-



Standard hollow concrete blocks. Above, Fig. 1, 18 in. x 9 in. x 9 in. Below, Fig. 2, 18 in. x 9 in. x 4½ in.



cates that blocks weighing over 30 lb. unduly lessen the rate of laying.)

Bricklayers are not particularly enthusiastic about heavy concrete blocks and are asking for extra pay when using them. This problem is less acute if lightweight aggregates are used. Clinker blocks are the cheapest and one of the lightest; 3 in. solid clinker blocks usually weigh only 21 lb. as compared with approximately 35 lb. for ballast, but should not, of course, be used externally without rendering. When Grade "A" clinker is used they bear little resemblance to the much maligned "breeze block." One manufacturer produces a unique clinker block (see Fig. 3) with a high cement content and a double row

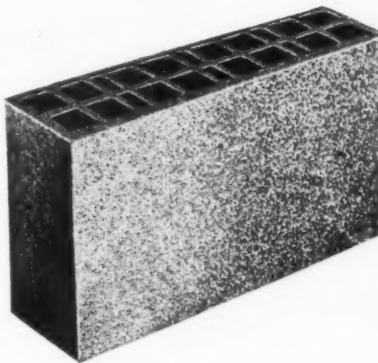


Fig. 3, high grade clinker block with double row of cavities.

of cavities, having high compressive strength and so designed that it can be readily broken into two halves for bonding; thus eliminating the need for half-blocks.

It is interesting to note that in post-war Germany one-half to two-thirds of the total output of blast furnace slag is utilized in the building and other industries. It is, therefore, becoming the policy at many German power stations and steel plants to control carefully the quality of their waste products.

The use of foamed slag is becoming very popular in this country. The cost is approximately the same as ballast, being a little higher ex works, but transport costs are lower, the weight being almost as low as, or lower than, that of clinker. If the blocks are

not vibrated during manufacture, the weight is decreased and the high thermal resistance made even higher; there is, of course, a loss of strength, but great strength is not often required of concrete blocks.

An alternative form of light-weight block can be made from an aerated mixture of cement and sand. This does not need to be pressure moulded, but the curing is most important—high pressure steam being used. Depending on the degree of aeration, weight is between 18 lb. and 50 lb. per cu. ft.; hence an 18 in. x 9 in. x 3 in. block can weigh as little as 5 lb. 1 oz. Cost is slightly higher than that of most concrete blocks, but at 18 lb. per cu. ft., thermal conductivity is only half that of solid foamed slag. The main advantage of aerated cement blocks is their high resistance to moisture penetration, and they can be cut very easily—with a hacksaw or an ordinary cross saw.

MANUFACTURE

Modern methods of manufacturing concrete blocks are highly mechanized. There is one plant in this country where the only labour required is for feeding materials into the machine and stacking the blocks as they are emitted from it. Even the stacking is partly automatic—a pneumatic air hoist being used. Altogether 10 men attend the machine which is capable of producing up to 1,200 4½ in. blocks per hour. There is another plant, not quite so fully automatic, but where the stacking is done entirely mechanically. Both these plants produce several blocks at each operation. Most modern methods are based on an extrusion process from metal moulds on to pallets, and the materials are thoroughly vibrated. These factors ensure a strong, well consolidated block, having dimensional uniformity, sharp angles and regular surfaces. The blocks should be carefully cured, most firms use a steam chamber, and well matured, to prevent shrinkage at a later date. One obvious result of using these highly mechanized plants is efficient and economical production.

COST

In 1948, a "Work Study in Blocklaying" was carried out by BRS. A summary of some of the results is given in the table on page 584.

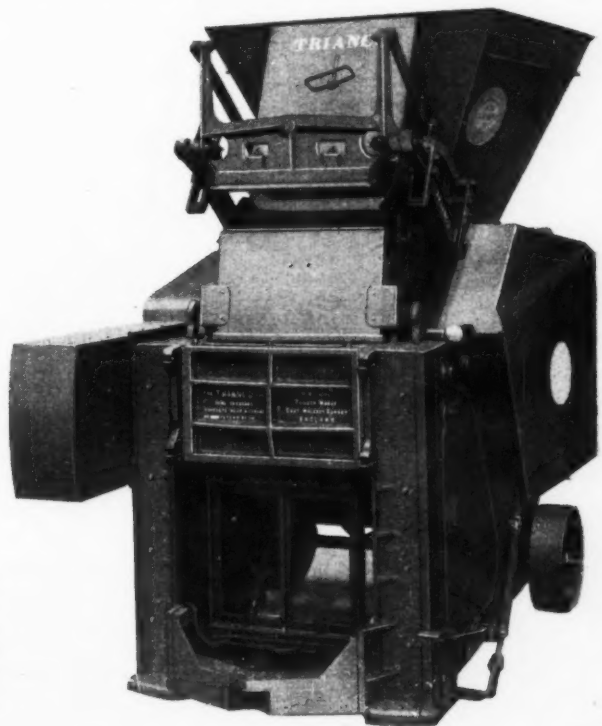
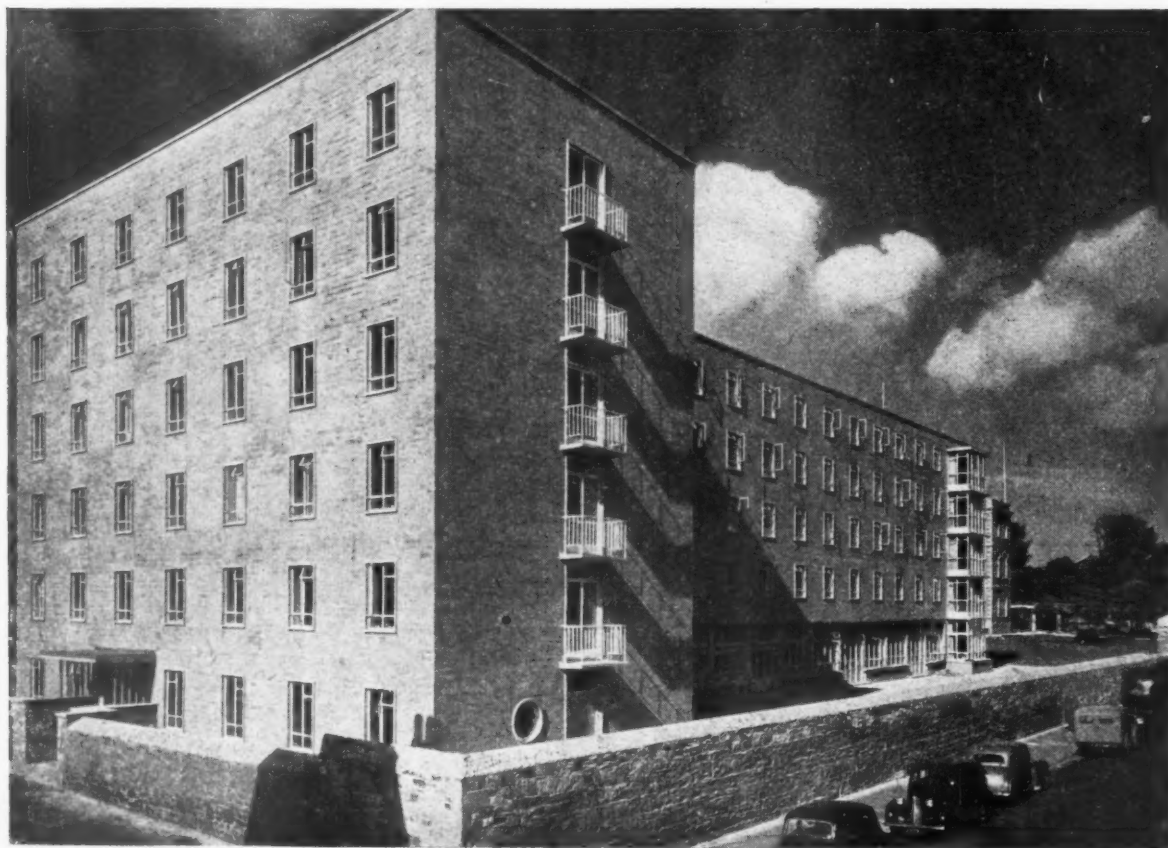


Fig. 4, small scale, but fully automatic, block-making machine, with output of 300 blocks per hour. As used for blocks shown in Figs. 1, 2, 5, 6 and 7.

Nurses' Residence, Jersey General Hospital, St. Helier, Jersey, C.I. ARCHITECTS: GRAYSON AND LE SUEUR
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Fig. 8
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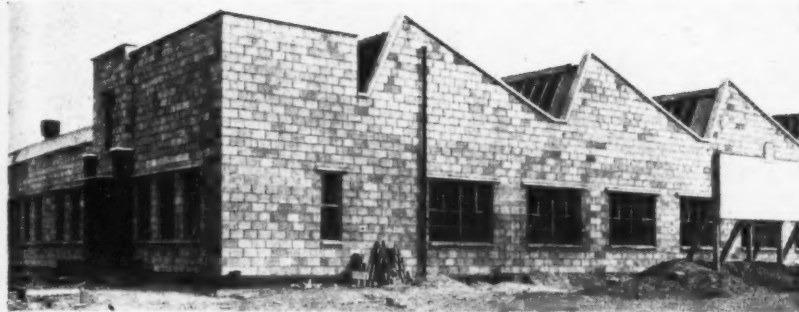
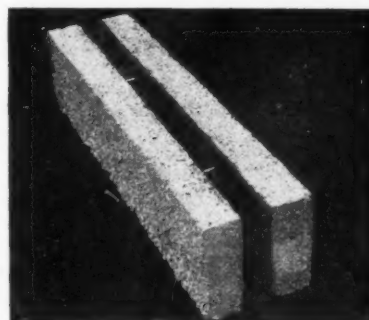


Fig. 8, factory built with continuous cavity blocks. Above, right, Fig. 7, close-up of a similar block.



The conclusions show clearly that as much as two-thirds of the labour employed in erecting walls and partitions can be saved by substituting concrete blocks. In most cases this was more than counteracted by the fact that the concrete blocks were more expensive than bricks. However, since 1948, the cost of bricks has risen by approximately 23 per cent., whilst the prices (*ex works*) of concrete blocks do not appear to have risen greatly. Therefore, in many cases, it may now be possible to save, not only in labour, but in total cost, too, by using concrete blocks. This will depend, largely, on the proximity of the building site to a concrete block works—these being far less numerous than brickworks. Transport costs are high and a journey of 30 miles can add as much as 25 per cent. on to the *ex works* price.

In considering costs, it should be borne in mind that when aerated cement blocks, or other blocks with a high finish, are used a single coat of plaster will suffice for internal finishing. The value of the increased thermal insulation, which light weight blocks provide, should also be taken into account.

THERMAL INSULATION

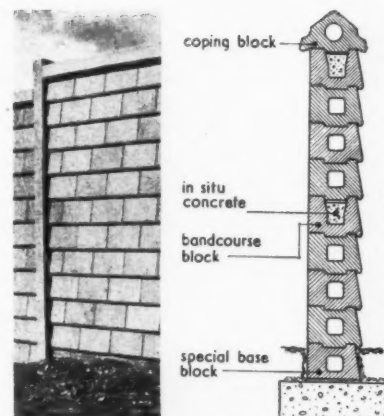
The increased thermal resistance of lightweight concrete over brickwork is much stressed by manufacturers of concrete blocks. Neither 9 in. brickwork rendered or 11 in. cavity brickwork provides insulation to Egerston Standards ($U = 0.2$ for walls), and therefore an extra lining of cork, insulation board or other similar material is desirable. If the inner skin of the cavity wall is replaced by lightweight concrete blocks, at, if anything, a financial saving, no additional insulation is required. Using foamed slag, 3 in. hollow blocks will suffice; at lower cost the 4½ in.

hollow clinker blocks (shown in Fig. 3) reduce the U value of the wall to as little as 0.17.

FURTHER DEVELOPMENTS

The use of masonry without mortar was, at one time, quite common in certain parts of the country. Since the war, an interlocking concrete block with a weathered face has been patented (Patent No. 609019/46), which can be laid without mortar. To gain stability, bandcourses of special U-shaped blocks, which are filled with concrete *in situ* (and reinforced, if necessary), are incorporated every fourth course (see Fig. 5). These interlocking blocks, available in various materials and colours, are particularly suitable for boundary walls (see Fig. 6), but a complete building system has been developed employing these blocks and a series of other precast concrete units for posts, lintels, jambs, etc. Here, once again, only the dimensional accuracy resulting from modern methods of manufacture has made possible this walling system.

Another development, which manufacturers have patented, is the cavity unit, consisting of two separate concrete blocks, held together by steel ties, with a cavity between (see Fig. 7). One manufacturer makes the two skins each only 2 in. thick, but the steel ties ensure adequate strength and lateral stability for normal loading as would occur in two-storey houses. The illustration (Fig. 8) shows a factory built with these blocks. A variety of materials and finishes can be obtained, and an improved unit has a projecting nailing strip of sawdust concrete, 1 in. thick, cast on to the inner skin.



Interlocking blocks; left, Fig. 6, a boundary wall; right, Fig. 5, typical cross section.



Fig. 9, walling of concrete blocks with crushed stone aggregate.

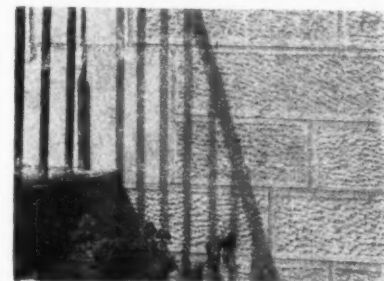


Fig. 10, tooled surface.



Fig. 11, exposed aggregate.

Walling materials of each pair of houses.	Normal time : bricklayer-hours at 60 rate	Total bricklaying wage-cost (including labourers)	Scaffolding wage-cost per house	Rendering cost per house	Cost of materials (blocks, lintels and mortar)	Total cost (based on normal bricklaying rate)
Common flattons	195	£ s. d. 45 10 0	£ s. d. 4 5 0	£ s. d. 34 15 0	£ s. d. 163 0 0	£ s. d. 247 10 0
18 x 9 x 6 in. lightweight concrete blocks.	77	18 0 0	2 10 0	34 15 0	232 0 0	287 5 0
18 x 9 x 9 in. lightweight concrete blocks.	57	13 5 0	3 5 0	34 15 0	191 5 0	242 10 0
18 x 9 x 9 in. dense concrete blocks.	50	17 0 0	3 5 0	34 15 0	210 15 0	265 15 0
Inner leaf—18 x 3 x 9 in. lightweight concrete slabs. Outer leaf—18 x 3 x 9 in. lightweight concrete slabs.	90	21 0 0	8 9 0	34 15 0	240 5 0	304 10 0
Inner leaf—18 x 3 x 9 in. lightweight concrete slabs. Outer leaf—18 x 3 x 9 in. dense concrete slabs.	109	25 10 0	8 9 0		239 0 0	273 0 0
Inner leaf—18 x 3 x 9 in. lightweight concrete slabs. Outer leaf—Rustic flattons	173	40 0 0	6 6 0		191 5 0	237 10 0
Inner leaf—Common flattons Outer leaf—Rustic flattons	239	55 15 0	4 5 0		154 0 0	214 0 0

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APPEARANCE

European countries have developed the use of external renderings to a degree which is rarely found in Britain. The use of hollow blocks under renderings is almost universal. We are not so successful with renderings in this country, though there is no reason why we should not be, so that one accepts the block which needs rendering for an external finish with a certain reserve. Clinker blocks fall into this category and the manufacturers themselves do not advise their customers to use clinker concrete blocks externally.

Foamed slag, ballast and aerated cement are suitable for external use without rendering, providing the walls are of cavity construction. (This is most essential in the case of the foamed slag.)

Many people object to the appearance of concrete blocks on the grounds of scale, but in districts where houses built of stone are more common than houses built of brick, the concrete blocks do not look so out of place. In fact, there are several firms producing facing blocks with an aggregate of granulated natural stone. The blocks can be made in a number of different sizes so that an external effect of "squared rubble built to courses" can be obtained (see Fig. 9). The cost, in some districts, is hardly greater than that of brickwork, and certainly far lower than that of normal masonry.

Some attractive finishes can be obtained with ballast blocks by tooling the surface (Fig. 10), or exposing the aggregate (Fig. 11), but it seems illogical to hand-finish the product of a highly mechanized plant, and the cost of exposing the aggregate is high, due to the extra handling and restacking involved. These finishes do have the advantage of permanence and require no maintenance.

Some blocks produced by modern methods present an agreeable appearance without any special finishing. As mentioned above, they can have a high degree of dimensional uniformity and clean, sharp arises. Several firms make what they call a "sand-faced" block. This is a ballast block with a high sand content, giving a very smooth finish. Another attractive solution, the author's favourite, is a foamed slag block made with a coarse aggregate and having a pleasantly textured surface.

SOURCES OF INFORMATION

Information was obtained from a cross-section of nine manufacturers and from four trade associations. Four works were inspected, each employing different plant and methods. Housing estates were visited where concrete blocks had been used externally.

REFERENCES

- "A Work Study in Blocklaying" (National Building Studies, Technical Paper, No. 1), HMSO, 1948.
- "Concrete Block Walls." Cement and Concrete Association, 1949.
- "Concrete Bricks and Blocks" (Notes on the Science of Building). Commonwealth Experimental Building Station, New South Wales.
- "The Foamed Slag Hollow Block," by M. Gallai-Hatchard. *AJ*, February 15, 1945.
- "Clinker Aggregate Building Blocks." Federation of Clinker Block Manufacturers.

BRITISH STANDARD SPECIFICATIONS

- BS 492, 728, 834—1944. Precast concrete blocks.
- BS 879—1939. Foamed blast furnace slag for concrete aggregates.
- BS 1047—1942. Air-cooled blast furnace slag coarse aggregate.
- BS 1165—1947. Clinker aggregate for plain concrete.
- BS 1364—1947. Aerated concrete building blocks.



Concrete block houses built for employees on the Ernest Debenham Estate, Brians Puddle, Dorset.



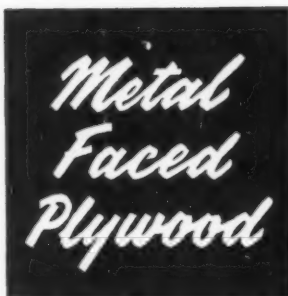
Left, flats at Falcon Road, Edinburgh. Right, house at Painswick.



Concrete block houses for Melksham UDC.

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This feature covers both the production and marketing of new materials and designs of equipment, as well as the general trend of developments within the Building Industry.

THE INDUSTRY

By Brian Grant

DATA ON GRANITE

With the exception of the LCC's new river walk running eastwards from County Hall past the Festival site, I imagine that there has been comparatively little large-scale use of granite for building purposes since the war, though, of course, many thousands of tons must have been used as aggregates for roads and pavings. Rather naturally, one tends to take aggregates somewhat for granted, and I was therefore interested to find out, from a booklet recently published by the Penmaenmawr and Welsh Granite Co., what a lot I didn't know about granite and its production. I still know only the beginning of it, but the booklet is full of information and most admirable photographs. Neolithic stone axe heads, I find, reached from Penmaenmawr as far as the Fen Country nearly 3,000 years ago, though the present company is comparatively youthful and goes back a mere 120 years. A most excellent booklet in which the whole of the production methods are clearly and interestingly described, and very well worth reading. (*The Penmaenmawr & Welsh Granite Co. Ltd., Penmaenmawr, North Wales.*)

BOILING WATER SUPPLIES

For restaurants and refreshment rooms there is always an urgent need for boiling

water for tea and coffee making, and the new 4½-gallon Derby boiler by Stotts of Oldham should be a useful piece of equipment.

The unit is contained in a one-piece Birmabright case, and it supplies boiling water more cheaply than the domestic kettle. This unit was originally designed to afford a constant supply of boiling water at low cost in fuel consumption, at the same time being automatic and foolproof in action. It has a reserve capacity of 4½ gallons of boiling water always available, and this water is maintained at boiling point, ready for immediate draw-off, at a cost of 2½ cubic feet of gas per hour. It has a capacity of 6 to 7 gallons of boiling water per hour, and when 2 gallons have been drawn off from the reserve, the heating element is automatically brought into operation.

To rebuild the reserve to the full 4½ gallons, the boiler is automatically self-fed from the mains and all parts are readily interchangeable.

The electric version of the boiler has a total loading of 3½ kW, but the maintenance consumption is only 250 W. It can be plugged into a 15-amp. electric supply, and the element has an automatic control which will cut off the electricity if the water supply should fail. (*James Stott & Co. (Oldham) Ltd., Oldham.*)

PAINTING ASBESTOS-CEMENT

Solignum Ltd. have just produced a new paint, Solana-Sol, for application direct to asbestos-cement sheeting, pipes, lagging and similar surfaces. It is not affected by the alkali in the asbestos-cement, requires no primer, and dries with a semi-gloss finish. (*Solignum Ltd., 30, Norfolk Street, Strand, London, W.C.2.*)

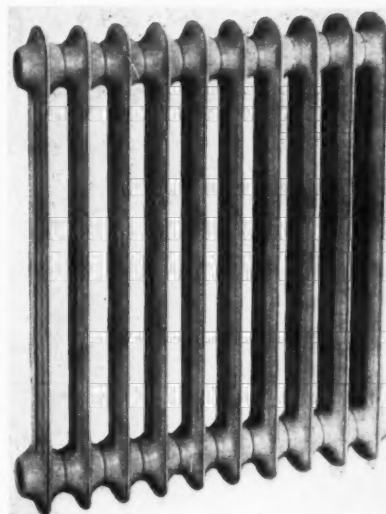
FLUORESCENT LAMPS WITH TUNGSTEN LAMP BALLAST

BTH research engineers have devoted a good deal of attention to the problems involved in producing a fluorescent lighting unit with a lower initial cost than would be possible with the standard auxiliary gear. Their work has resulted in the development of an instant-start circuit of low cost, due to the elimination of the conventional choke, starter, and power factor correction capacitor. In place of all these a special Mazda tungsten lamp and a filament heating transformer are introduced into the circuit, the transformer supplying a small steady current to the cathodes to facilitate the striking of the fluorescent lamp. The tungsten lamp ballast, which is rated at approximately 60 watts, itself gives light which, in conjunction with the light from the fluorescent lamps, is very useful for all applications where a combination of tungsten and fluorescent lighting is desirable.

The new Mazda circuit is most readily applicable to a combination of two fluorescent lamps and two tungsten lamp ballasts, with one filament heating transformer supplying the four cathodes. The fluorescent tubes are standard instant start 40 watt, but the tungsten ballast lamps are specially designed for the purpose; they have non-standard ratings and are therefore fitted with 3-pin caps, in order to avoid confusion with standard bayonet-cap lamps.

In the circuit described in the preceding paragraph the efficiency of the combined light output is approximately 20 lumens per watt and the overall consumption approximately 200 watts, varying somewhat with applied voltage.

At the present time equipment is available for the 220/250 volt range, but work proceeding will extend the application to 200/210 volt supplies as soon as possible. The tungsten lamp ballasts and the transformer



The new "Easy-Clean" Stelrad two column, steel radiator.

must be suitable for the particular voltage available, as indicated in the following table:—

TRANSFORMER AND BALLAST LAMP RATINGS		
Mains Voltage	Transformer Rating Volts	Ballast lamp Rating Volts
50 CPS		
220	200/220	220/230
230	230/240	220/230
240	230/240	240
250	240/250	250

The light output of the tungsten ballast lamp varies with the supply voltage, and the approximate lumen output for the complete twin-lamp assembly is 4,250 lumens with about 32 per cent. tungsten and 68 per cent. fluorescent light. (*The British Thomson-Houston Co. Ltd., Crown House, Aldwych, London, W.C.2.*)

STEEL RADIATORS

The illustration above shows a new Stelrad design produced for domestic work and designed for easy cleaning. Standard colours are beige and cream and the price is £2 17s. 6d. for a unit with 10 sq. ft. of heating surface. (*Steel Radiators Ltd., Southall, Middlesex.*)

PUBLICATIONS RECEIVED

Adastra Lighting Standards. Catalogue No. 260, showing galvanized steel sectional columns for street and floodlighting. Circular or hexagonal in section, the poles are supplied in sections and are easily assembled on the site. Twin and single lighting arms and ladder brackets also available. (*Poles Ltd., Nickel Works, Tyburn Road, Erdington, Birmingham.*)

Architectural Metalwork. Illustrations of sculpture, grills, doors, balustrades, gates, railings, memorial tablets, etc., by a firm which has specialized in work of this kind for over a century. (*The Morris Singer Co. Ltd., Hope House, Great Peter Street, Westminster, London, S.W.1.*)

Raylux Lighting and Heating. Looseleaf catalogue of pleasantly designed ceiling and wall fittings for tungsten filament lamps, fluorescent fitting sheets to follow. Convection heaters up to 3 kW. with or without thermostats. (*Hume, Atkins & Co. Ltd., 66, Victoria Street, London, S.W.1.*)



The new 4½-gallon Derby water boiler.

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

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Buildings Illustrated

Nurses' Residence, Gloucester Street, St. Helier, Jersey. (Pages 573-580.) Architects: Grayson & Le Sueur, F./A.R.I.B.A. General Contractors: Jersey Contractors Ltd. Quantity Surveyors: Wallace Chapple & Partners. Sub-contractors: Demolition, excavations, chimney stack, fitted bedroom cupboards, Jersey Contractors Ltd.; bore holes (soil tests), Le Grand, Sutcliffe & Gell Ltd.; piling, Franki Compressed Pile Co.; reinforced concrete, frames, floors and roof slabs, The Trussed Concrete Steel Co. Ltd.; granite faced blocks, precast concrete windows, linings, copings, etc., Jersey Granite & Concrete Co.; hollow partition blocks ("Phorpres"), window-cill tiles ("Langborough"), Normans Ltd.; asphalt, Rock Asphalte Co. Ltd.; roofing ("Paropa"), Frazzi Ltd.; "Ruberoid," Ruberoid Co. Ltd.; metal windows, lightning conductor, railings, etc., Gardiner Sons & Co. Ltd.; glass, glass bricks and roof domes, Pilkington Bros. Ltd. and A. P. Hedouin; pressed steel door frames, Williams & Williams Ltd.; suspended ceilings, Hy-Rib Ltd.; central heating and hot water installation, J. Jackson & Co.; cold water services, general plumbing and refuse chutes, A. Scull & Sons Ltd.; pressed steel storage tanks, Horseley Bridge & Thomas Piggott Ltd.; water supply, Jersey New Waterworks Co. Ltd.; electric installation and fittings, Metro Vending Co.; electric incinerators ("Barrywald"), Allied Metals Ltd.; electricity supply, Jersey Electrical Co. Ltd.; gas supply and gas fittings, Jersey Gas Light Co. Ltd.; general plastering, A. C. V. Telling (Southern) Ltd.; flooring, wood block and hardwood strip flooring, rubber, ter-

razzo flooring, staircase handrails and skirtings, The National Flooring Company Ltd.; "Semtex" flooring, Semtex Limited; granite paving, Granite Products Ltd.; floor duct covers, Meadow Foundry Co. Ltd.; stair tread nosings, Ferodo Ltd.; lifts, Marryat & Scott Ltd.; sanitary fittings, A. Scull & Sons Ltd., J. W. Huelin Ltd., Woods & Co.; special joinery—doors and frames, J. Long & Sons; ironmongery, Dryad Metal Works, Ltd.; servery equipment, Fosters Ltd.; rolling shutters, E. Pollard & Co. Ltd.; perforated metal screens, G. A. Harvey & Co. (London) Ltd.; paints and distempers, E. Parsons & Sons, Walpamur Co. Ltd., Sissons Bros. & Co. Ltd.; telephones, States of Jersey Telephone Dept.; fire extinguishers, Minimax Ltd.; garden, Day's (Nurserymen).

Jersey Maternity Hospital. (Pages 581-582.) Architects: Grayson & Le Sueur, F./A.R.I.B.A., A.A.DIPLOMA. General Contractor: Jersey Contractors Ltd. Quantity Surveyors: W. Chapple & Partners. Sub-contractors: Demolition, excavation, plumbing, Jersey Contractors Ltd.; reinforced concrete Trussed Concrete Steel Co. Ltd.; special roofings, Rock Asphalte Co. Ltd.; roofing felt, Ruberoid Co. Ltd.; woodblock flooring, H. W. Humberstone & Son; rubber flooring, Dunlop Rubber Co. Ltd.; central heating, ventilation, G. N. Haden & Sons Ltd.; steel chimney, J. W. Shephard & Co. Ltd.; gas-fitting, Jersey Gas Light Co. Ltd.; boilers, Beeston Boiler Co. Ltd.; electric wiring, electric light fixtures, bells, Jersey Electricity Co. Ltd.; sanitary fittings, Associated Clay Industries Ltd., J. W. Huelin Ltd.; stair treads, Ferodo Ltd.; door furniture, case-ments, window furniture, Gardiner, Sons & Co. Ltd., Normans Ltd.; plaster, W. A. Telling & Co.; joinery, J. Long & Sons (Bath) Ltd.; wall and floor tiling, Carter & Co. (London) Ltd.; clocks, H. Letto.



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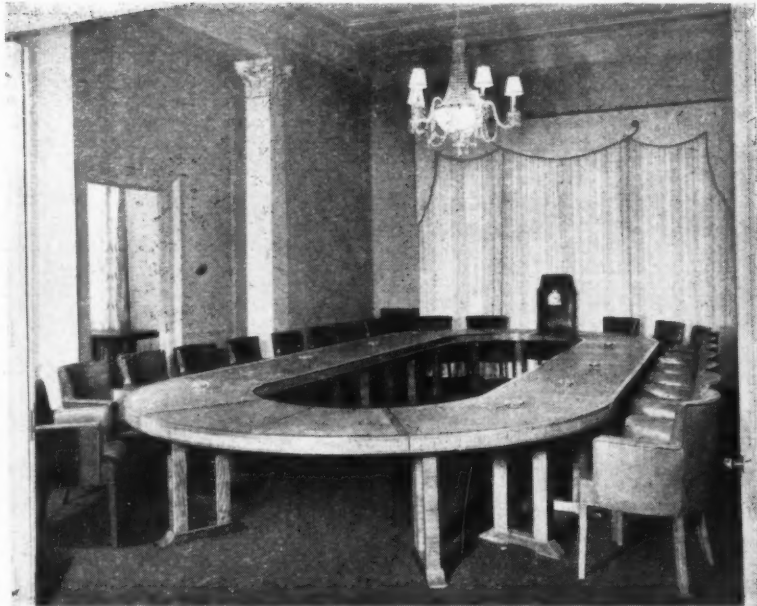
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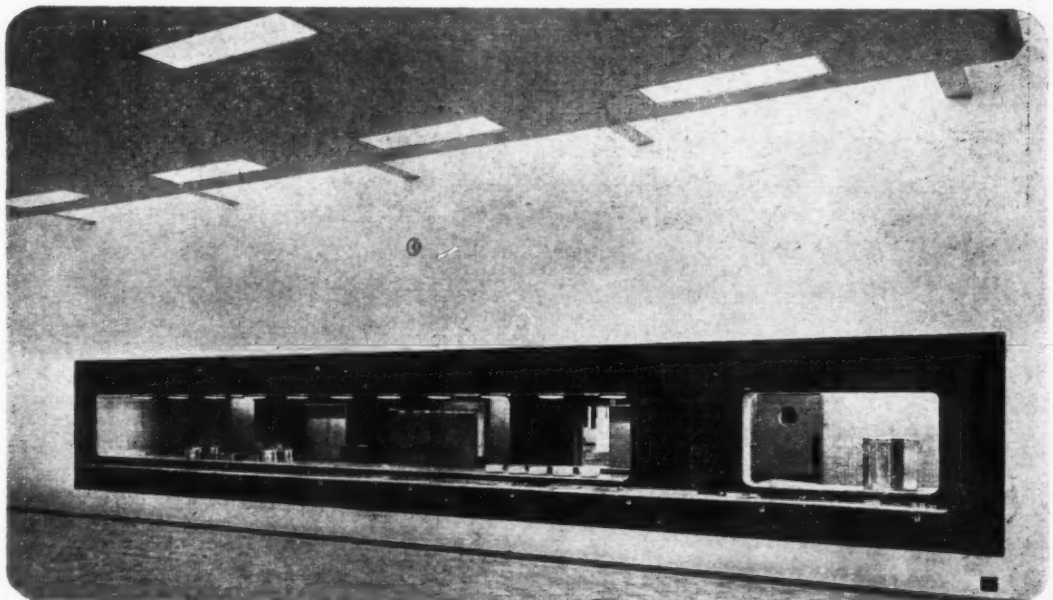


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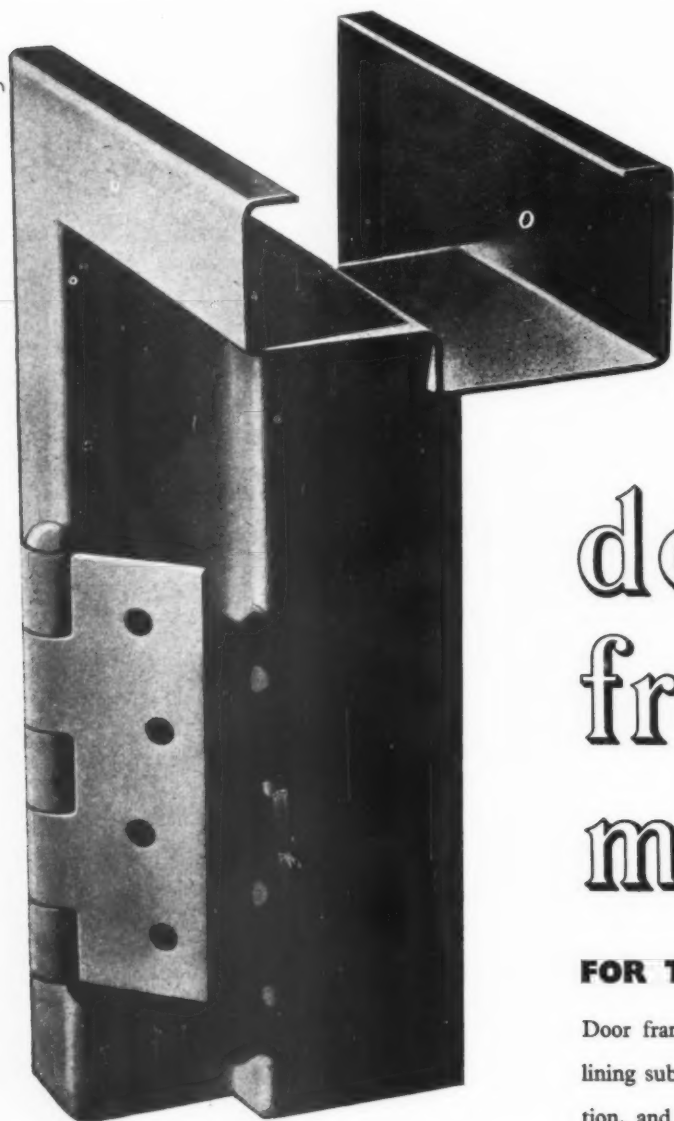
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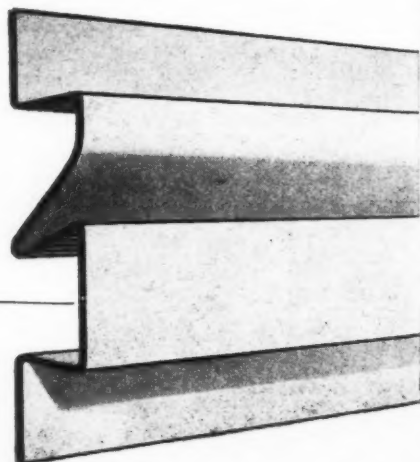
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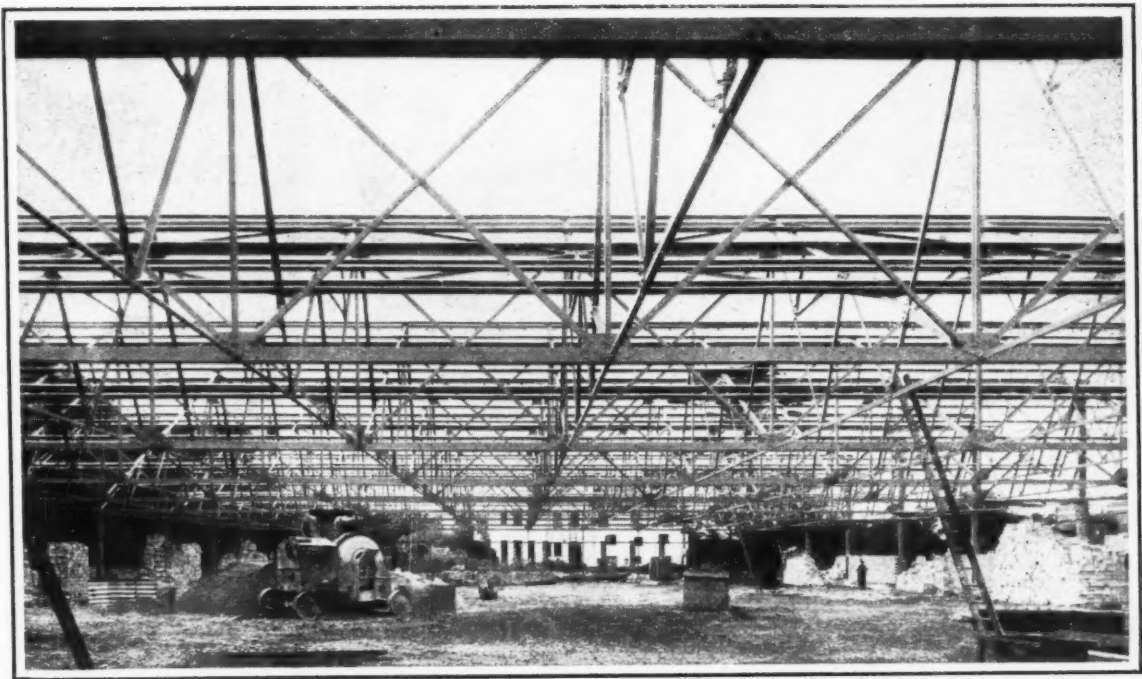
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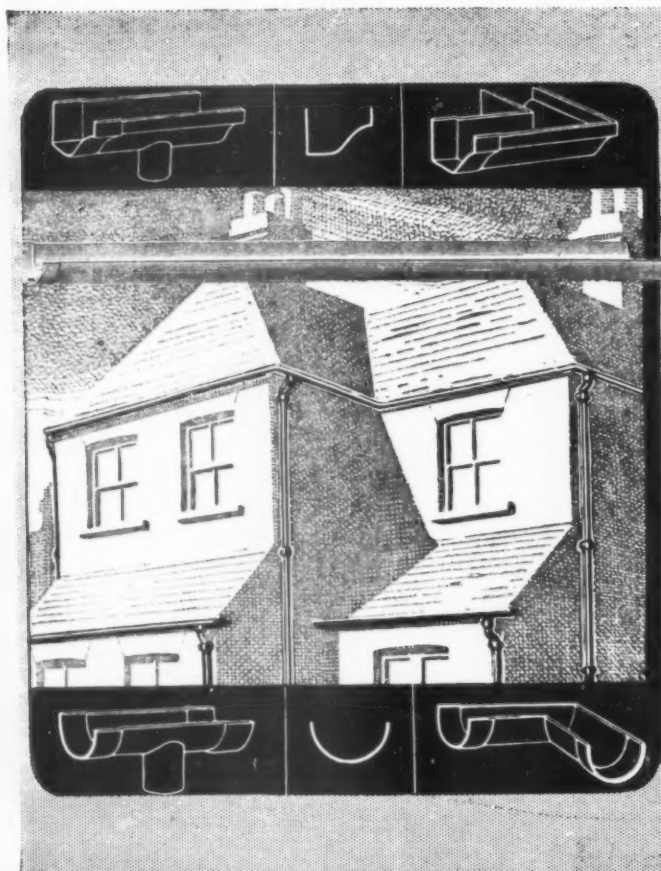


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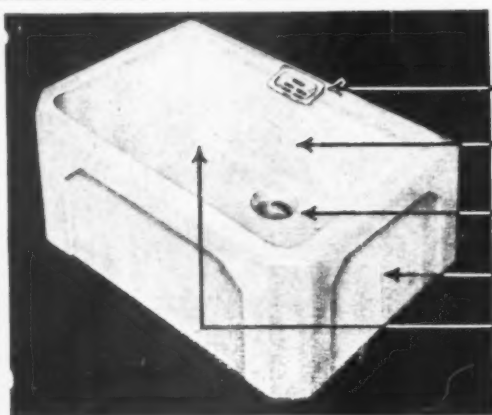
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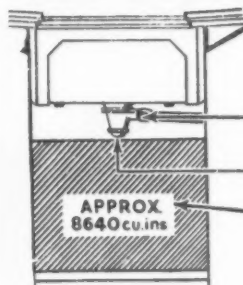
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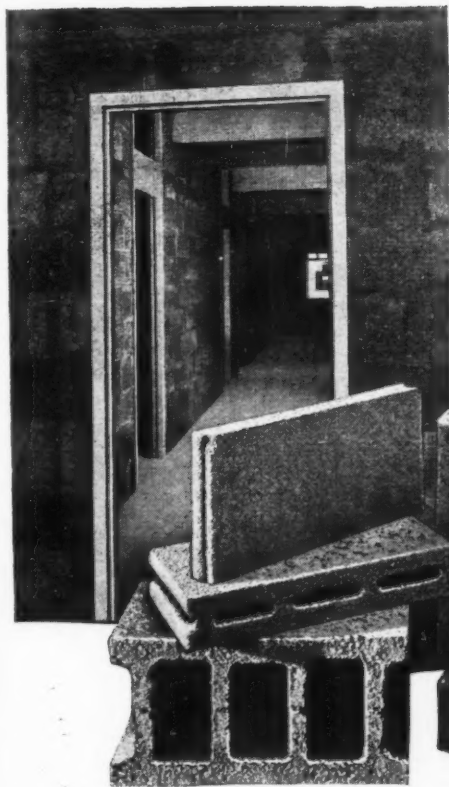
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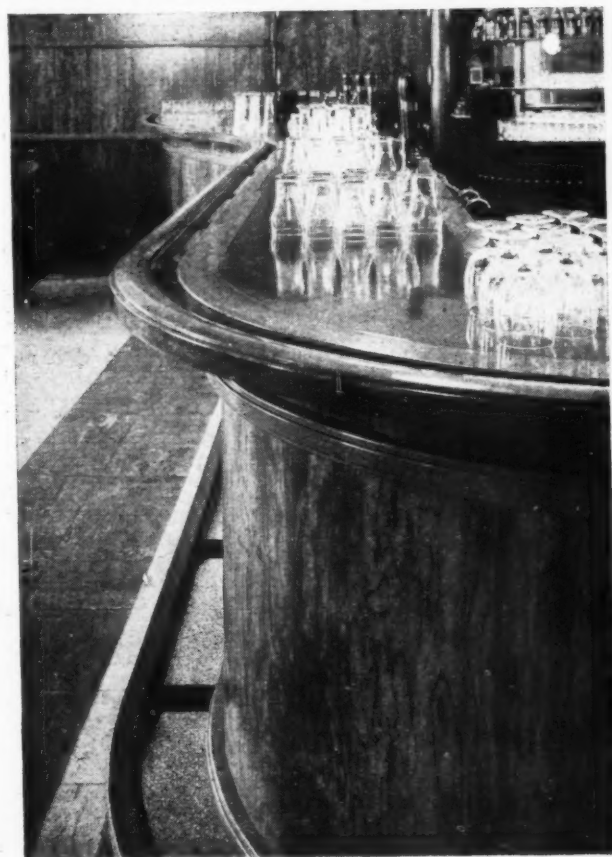
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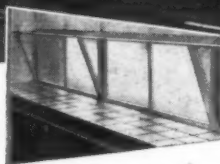
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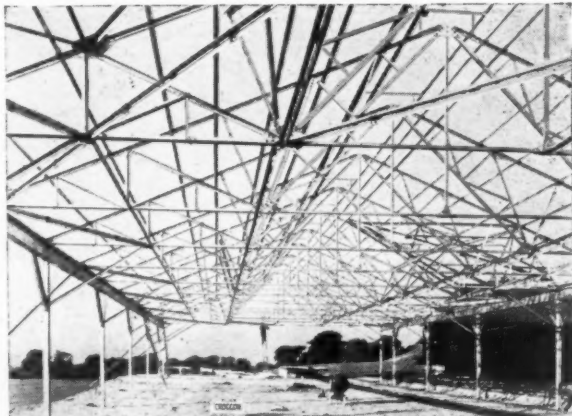
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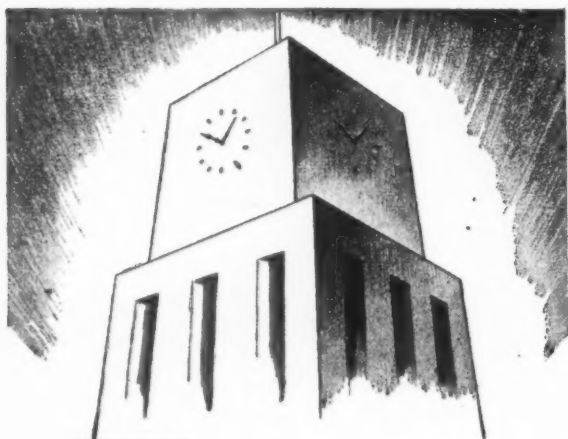
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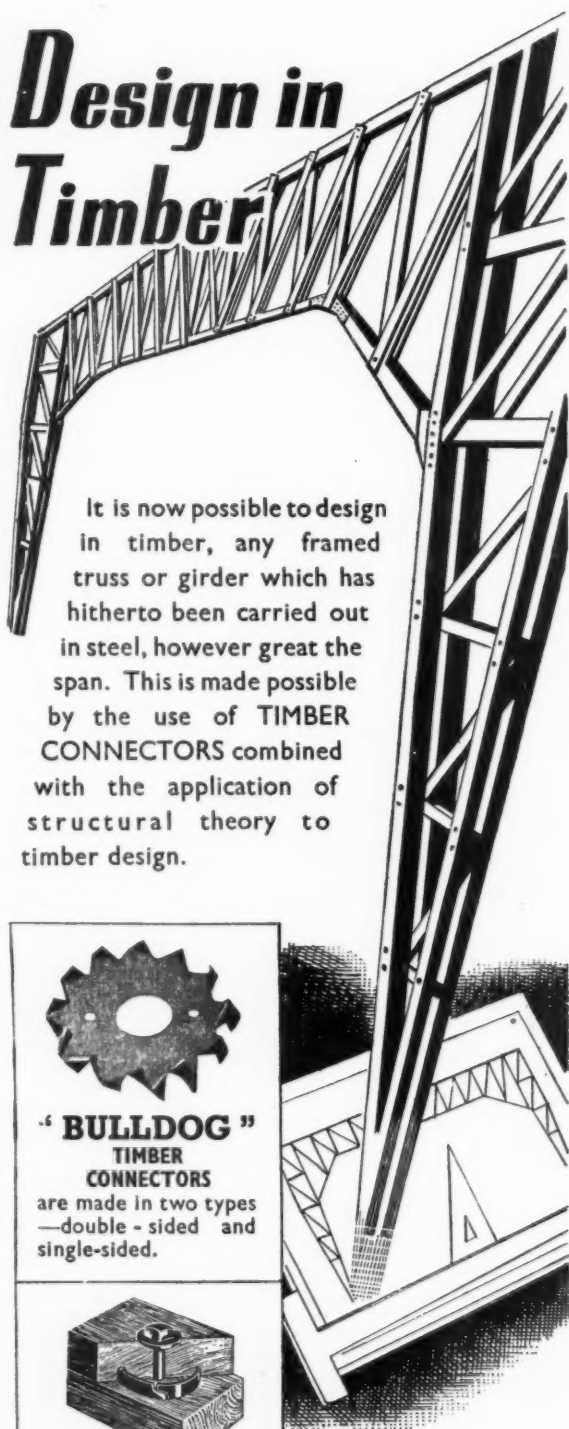
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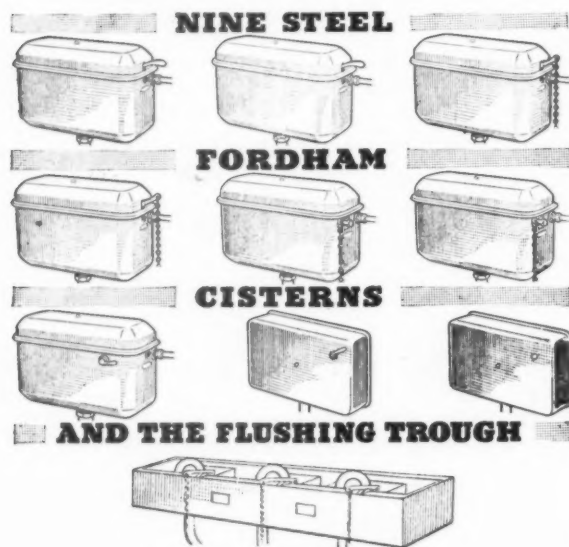
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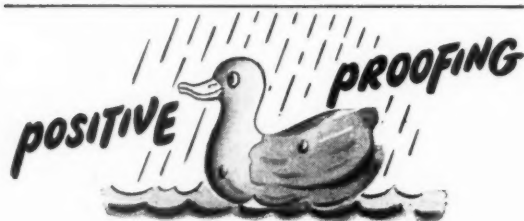
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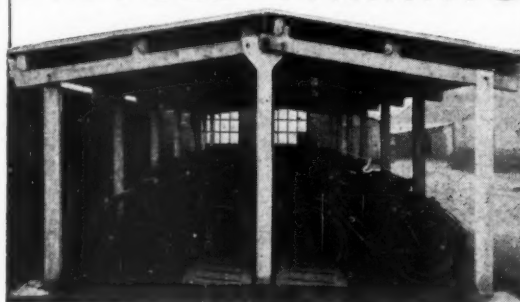
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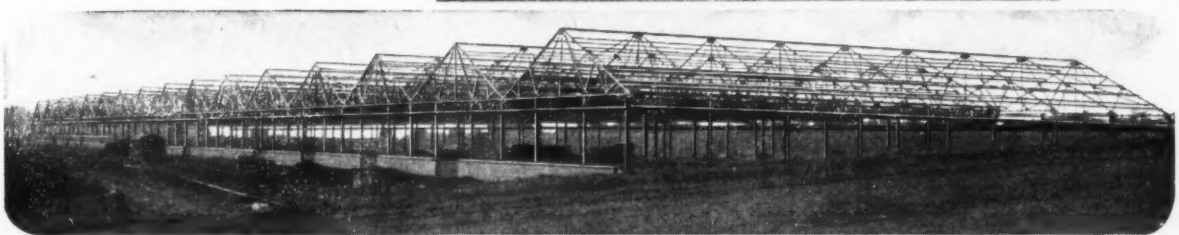
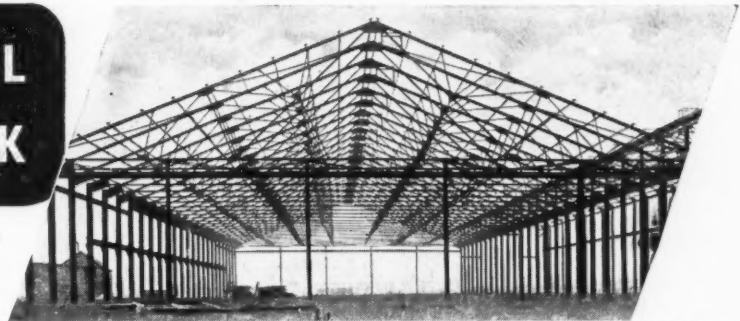
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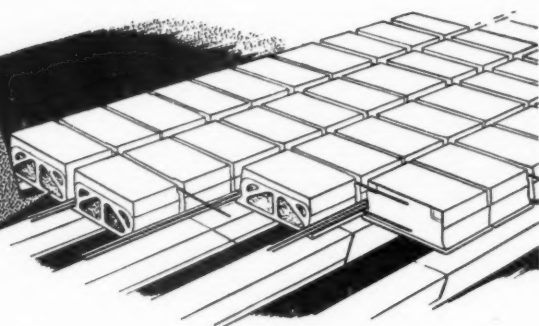
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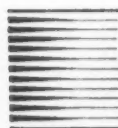
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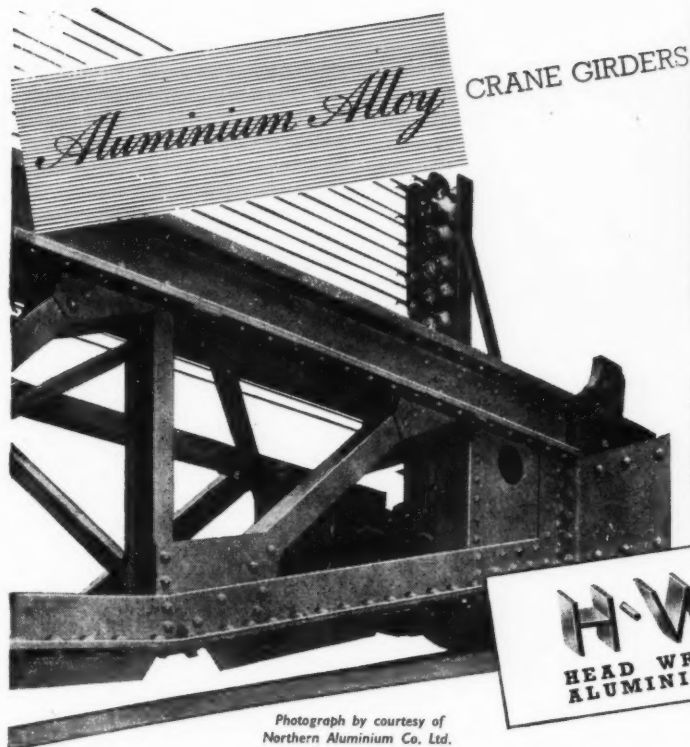
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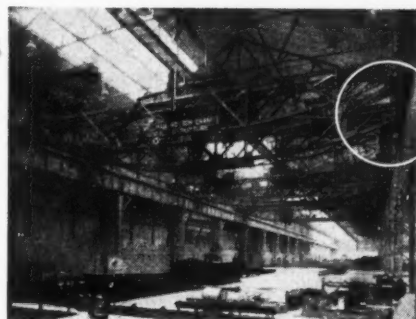
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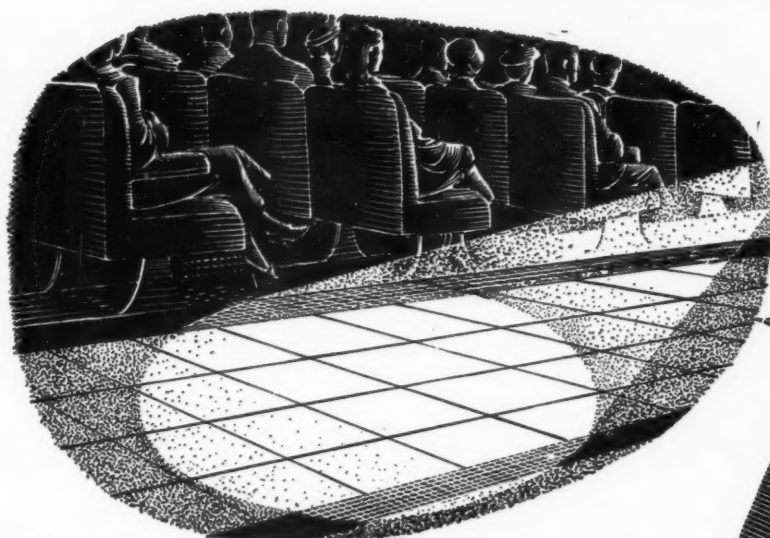


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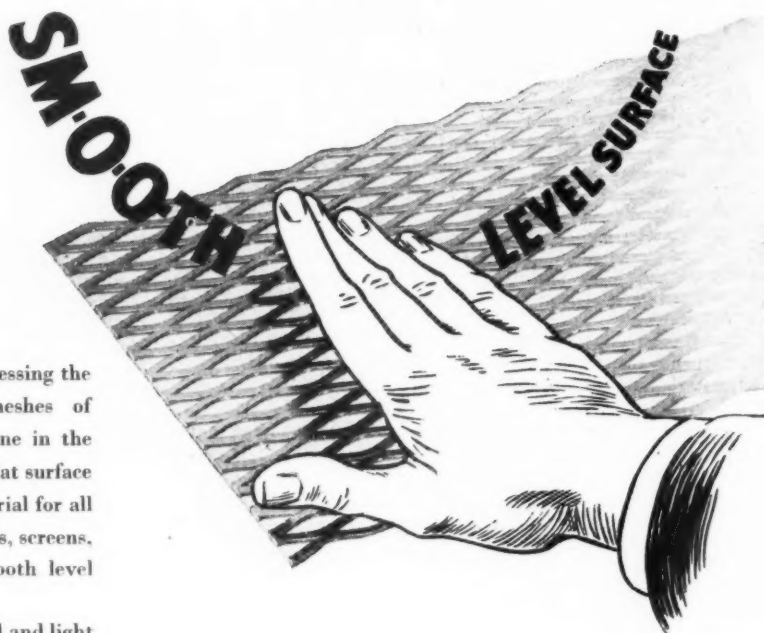
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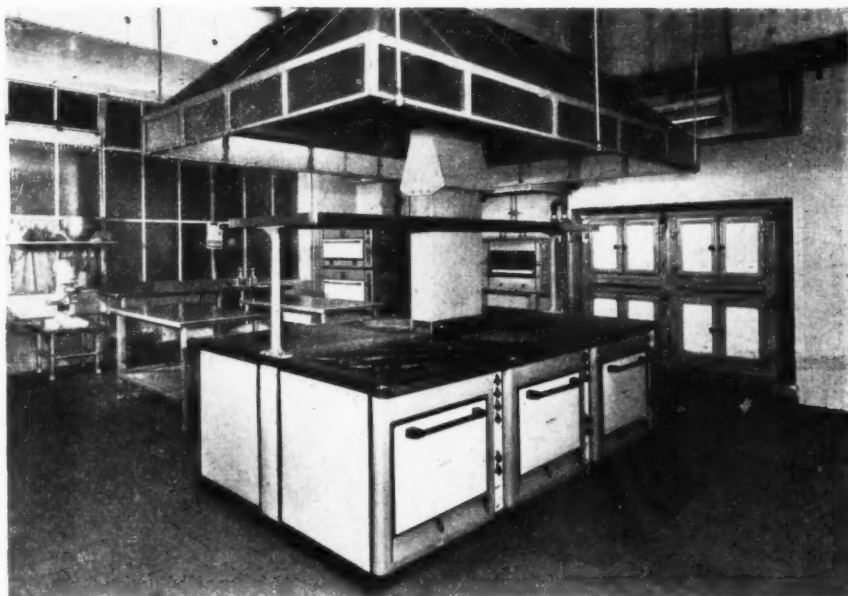
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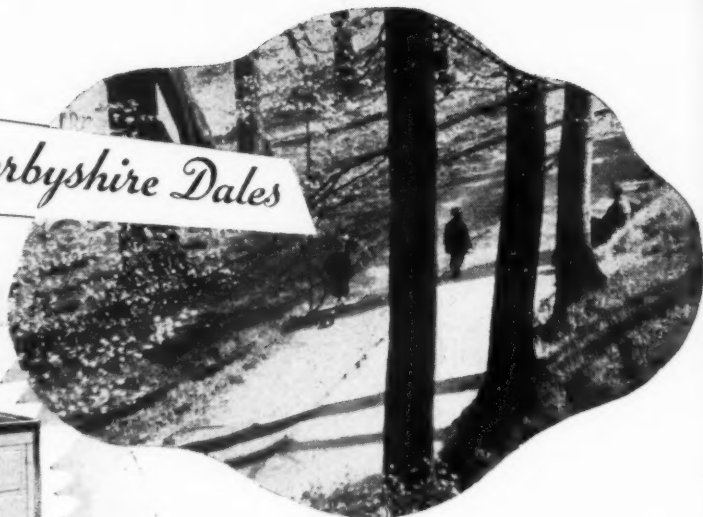
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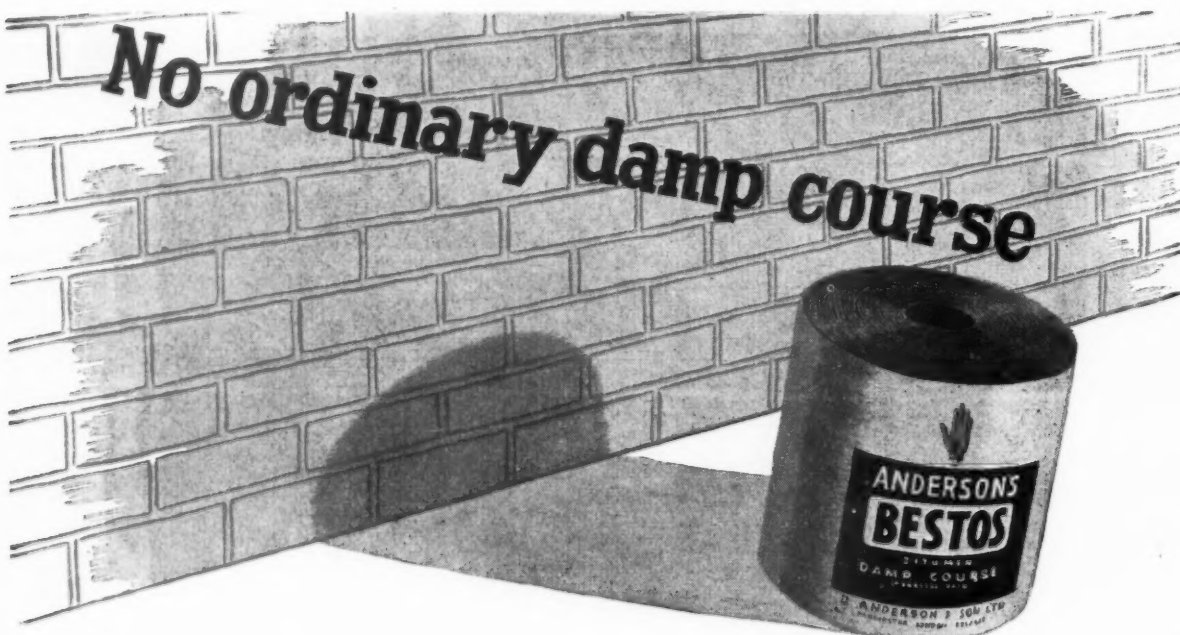
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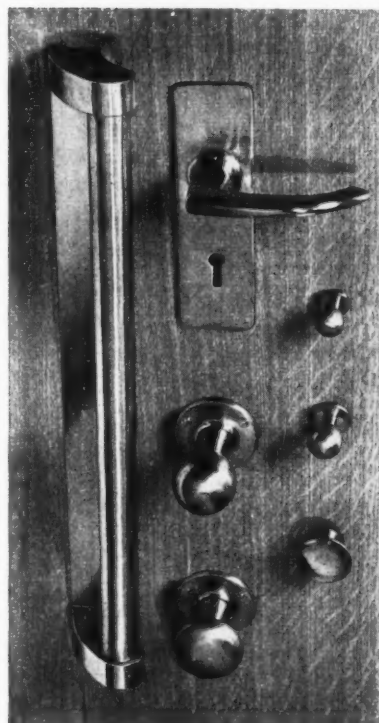
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Applications are invited for the following appointment in the Architects' Section of the Chief Engineer's Department of Westminster: SENIOR ARCHITECTURAL ASSISTANT, minimum starting salary £650 per annum.

Applicants, who must be Registered Architects and should be studying for or have passed the Final Examination of the R.I.B.A., should be capable of preparing working and detailed drawings and specifications, and supervising and controlling the work on contracts. Experience in design and planning of industrial buildings would be an advantage.

The appointment is of a permanent nature, and pension arrangements will be discussed with short list candidates.

Applications, stating age, qualifications, and particulars of previous appointments held, must be submitted to the Staff Controller, North Thames Gas Board, 30, Kensington Church Street, London, W.8, quoting reference 9757. 4341

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BOROUGH OF EALING. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the permanent appointment of an Architectural Assistant, in accordance with Grade VI of the A.P.T. Division of the National Joint Council's Scales, at a salary commencing at £595 per annum, and rising by annual increments to £660 per annum, plus £30 London weighting.

Applicants must either be Associate Members of the Royal Institute of British Architects or possess a recognised equivalent qualification. Preference will be given to candidates with Municipal experience.

The Council are unable to provide housing accommodation for the successful candidate.

Forms of application, together with conditions of appointment, may be obtained from the Borough Engineer and Surveyor, Town Hall, Ealing, W.5, and must be returned to me not later than the 22nd January, 1951.

E. J. COPE-BROWN,

Town Hall, Ealing, W.5.
14th December, 1950.

1478

COUNTY BOROUGH OF HALIFAX. BOROUGH ENGINEER'S DEPARTMENT.

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ARCHITECTURAL ASSISTANT. Salary A.P.T. III (£450 to £495).

The person appointed to the post of Deputy Planning Officer will be expected to take charge under the Borough Engineer, of that section of the department responsible for Town Planning work.

Candidates should possess appropriate technical qualifications, and will be required to pass a medical examination. The appointments will be subject to the conditions of service adopted by the Corporation and to the Local Government Superannuation Act, 1937.

Candidates must disclose whether to their knowledge they are related to any member of or the holder of any senior office under the Council. Applications, stating age, qualifications, present position, salary and experience, accompanied by copies of three recent testimonials, should be appropriately endorsed and delivered to the undersigned not later than Wednesday, 17th January, 1951.

RICHARD DE Z. HALL,
Town Clerk.

Town Hall, Halifax.
15th December, 1950.

1503

COUNTY OF LINCOLN—PARTS OF HOLLAND. COUNTY PLANNING DEPARTMENT.

Applications are invited for the appointment of TWO PLANNING ASSISTANTS, in the Boston Office of the above Department, at a scale in accordance with A.P.T. Grade I, of the National Scale of Salaries (£390-£435 per annum).

Candidates should preferably have had previous experience in the office of a local planning authority and should be neat and expeditious draughtsmen. Intermediate Examination standard of the Town Planning Institute or other technical qualifications will be an advantage.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates must pass a medical examination.

Applications, stating age, education, experience, present position and salary, together with the names of two referees, should reach the undersigned within 14 days from the appearance of this advertisement.

H. C. MARRIS,

Clerk of the County Council.

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Applications, giving full personal details, particulars of qualifications, experience, age, past and present appointments, and the names of two persons to whom reference may be made, should be sent to the City Surveyor, Corporation of London, 55/61, Moorgate, London, E.C.2, not later than Monday, the 8th January 1951. 1501

COUNTY BOROUGH OF SOUTHPORT.

Applications are invited for the appointment of ASSISTANT ARCHITECT in the recently formed Borough Architect and Town Planning Officer's Department, at a salary in accordance with A.P.T. Division, Grade V, of the National Scales of Salaries (£520-£570 per annum). The commencing salary within the Grade will be determined according to the candidate's qualifications and experience.

Candidates should be Registered Architects and/or Associates R.I.B.A., and preferably with experience in the design and construction of schools.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937; to the passing of the necessary medical examination; and to one month's notice on either side.

Forms of application may be obtained from the Borough Architect and Town Planning Officer, Brian Bunch, A.R.I.B.A., A.M.T.P.I., Town Hall, Southport, and should be returned to the undersigned not later than 9th January, 1951.

R. EDGAR PERRINS,

Town Clerk.

Town Hall, Southport.
November, 1950. 1475

**BINGLEY URBAN DISTRICT COUNCIL.
APPOINTMENT OF CHIEF ARCHITECTURAL
ASSISTANT.**

Applications are invited for the permanent appointment of Chief Architectural Assistant, Salary, Grade V, £520 per annum, rising by three annual increments to £570 per annum.

Candidates should have had considerable training and experience in housing design, development and general architectural work. Preference will be given to candidates who have passed the examinations of the Royal Institute of British Architects.

The appointment will be terminable by one month's notice on either side and subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, stating age, qualifications, training and experience, and details of past and present appointments, accompanied by copies of three recent testimonials, should be forwarded, endorsed "Architectural Assistant," to the undersigned before the 10th January, 1951.

F. M. DUNWELL,

Clerk of the Council.

Town Hall, Bingley. 1488

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require a SENIOR DEPUTY to the Director of Works stationed in London. Candidates must be Associate Members of the Institution of Civil Engineers or the Royal Institute of British Architects or the Royal Institution of Chartered Surveyors, and should have had experience in administration on a Directorate level and in carrying out constructional work abroad. Salary on the scale £1,100-£1,320 per annum. The man appointed will be Senior Deputy to the Director of Works in the administration of works at home and overseas. Applications should reach the Appointments Officer, Imperial War Graves Commission, Wooburn House, Wooburn Green, High Wycombe, Bucks, within 14 days of the appearance of this advertisement. 1489

**COUNTY BOROUGH OF BIRKENHEAD.
WATCH COMMITTEE.**

Applications are invited for the post of CLERK OF WORKS (Temporary) in connection with the erection of proposed new Police Headquarters, Birkenhead, under the direction of Messrs. Willink & Dod, F.A.R.I.B.A., Architects.

Candidates must be experienced in the supervision of steel-framed and reinforced concrete structures, and have had at least 5 years previous experience of a Clerk of Works acting under a qualified Architect or Local Authority.

The salary will be in accordance with Grade A.P.T. II, of the National Conditions of Service (£420-£465 p.a.), and the appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and to one week's notice on either side. The successful candidate will be required to pass a medical examination.

Applications in plain sealed envelopes, endorsed "Temporary Clerk of Works—New Police Headquarters," and giving full details and names of two referees, should be addressed to the undersigned, from whom the appropriate form may be obtained, and should be sent by post to arrive not later than the 8th January, 1951.

DONALD P. HEATH,

Town Clerk.

Town Hall, Birkenhead.
December, 1950. 1490

**CITY OF PETERBOROUGH.
CITY ENGINEER AND SURVEYOR'S
DEPARTMENT.**

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT, on the staff of the City Engineer and Surveyor, at a salary in accordance with Grade IV, A.P.T., i.e., £480, rising by annual increments to £525 per annum.

Applicants should be good draughtsmen, possess a sound knowledge of building construction, and be capable of preparing working drawings, etc., with the minimum amount of supervision.

The City Council have adopted the National Scheme of Conditions of Service. The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination. Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials, and suitably endorsed, must be delivered to the undersigned not later than 13th January, 1951.

Applicants must disclose whether they are related to any senior official or member of the Authority.

Housing accommodation is not immediately available, but the Council will, if necessary, assist so far as they are able the successful applicant to obtain accommodation, but it must be distinctly understood that the Council do not guarantee to find either a house or living accommodation.

C. PETER CLARKE,

Town Clerk.

Town Hall, Peterborough.
December, 1950. 1502

**GOVERNMENT OF NORTHERN IRELAND.
SUPERVISORY ARCHITECT (SCHOOLS).**

Applications are invited for an unestablished post of Supervisory Architect (Schools). The appointment will, so far as can be foreseen, last for several years.

The successful candidate will be remunerated according to qualifications and experience within the salary range £1,100-£1,300 per annum.

Qualifications: Candidates must be Registered Architects and have passed the Final Examination of the Royal Institute of British Architects. They must have had extensive experience in up-to-date School design and layout, and should be conversant with the use of non-traditional forms of construction. Administrative experience will be an advantage.

Preference will be given to candidates who served with H.M. Forces during wartime, providing the Ministry is satisfied that such candidates can or within a reasonable time will be able to discharge the duties efficiently.

Applications, giving date of birth, full particulars of qualifications and experience, with copies of two recent testimonials, should be sent to the Director of Establishments, Ministry of Finance, Stormont, Belfast, so as to reach him not later than 15th January, 1951. 1504

LONDON COUNTY COUNCIL.

Applications are invited for positions of ARCHITECTURAL ASSISTANT (salaries up to £580 a year) in the Housing and Valuation Department. Commencing salaries will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Acts, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

Successful candidates will be required to assist in the design, layout and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's Division.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required and quote reference A.A.1). Canvassing disqualifies. (815) 4558

**BOROUGH OF STRATFORD-UPON-AVON.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.**

Applications are invited for the above appointment, at a salary in accordance with A.P.T., Grade III, (£450-£495).

Applicants should have a good general knowledge of building construction and design, and preferably have passed the Intermediate Examination of the R.I.B.A.

The Council will, if necessary, be prepared to consider the provision of housing accommodation.

Conditions of the appointment and forms of application may be obtained from the undersigned, to whom completed application forms should be returned not later than Monday, 8th January, 1951.

P. C. SMART, A.M.I.C.E.,

Borough Engineer.

Municipal Offices, Stratford-upon-Avon. 1452

**THE TRAINING OF TECHNICAL
TEACHERS.**

Applications are invited from men and women of approximately 25 years of age and over, for admission to a one year course of training as full-time teachers of Building and Allied subjects in Technical Colleges and similar institutions.

Applicants should have a University degree in Building or Allied Subjects, or qualifications in a profession associated with Building, or a Higher National Certificate in Building, or for Craft teaching, a Full Technological Certificate of the City and Guilds of London Institute in a Building craft. In certain crafts a Final City and Guilds Certificate (preferably a First-Class) may be accepted.

The courses will begin in September, 1951. Recognised students will pay no fees and they will be eligible for maintenance grants for the period of the course.

Further particulars and application forms may be obtained from:—

THE DIRECTOR,

Bolton Training College,
Manchester Road, Bolton, Lancs.

THE DIRECTOR,

Huddersfield Training College,
Queen Street South, Huddersfield, Yorks. 1499

**NORTH RIDING COUNTY COUNCIL.
ASSISTANT ARCHITECT, A.P.T., GRADE IV
(£480-£525).**

Appointment superannuable, and subject to satisfactory medical examination, and two months' notice in writing on either side. Forms of application are not being issued, but further information may be obtained from the County Architect, County Hall, Northallerton. Applications, stating age, qualifications and experience, together with particulars of present and previous appointments, and the names and addresses of three persons to whom reference can be made, to the undersigned by the 8th January, 1951.

Canvassing will disqualify, and a candidate who is related to a member of, or senior officer under, the Council must disclose the fact when applying.

H. G. THORNLEY,

Clerk of the County Council.

County Hall, Northallerton.
14th December, 1950. 1486

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**BOROUGH OF CHATHAM.
APPOINTMENT OF CHIEF ASSISTANT
ARCHITECT.**

Applications are invited for the appointment of Chief Assistant Architect within Grade VI (£595-£660).

Housing accommodation will be made available if required.

Conditions of appointment and form of application may be obtained from Mr. H. D. Peake, M.Sc.(Eng.), Borough Engineer and Surveyor, Town Hall, Chatham, to whom completed application forms should be returned not later than Friday, 12th January, 1951. 1480

Tenders for Contracts

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

**COUNTY BOROUGH OF READING.
ERECTION OF FLATS, GOSBROOK ROAD,
CAVERSHAM.**

The Corporation propose in due course to invite from selected firms of building contractors tenders for the erection of sixty flats in Gosbrook Road, Caversham. The flats comprise five 3-storey blocks, of which four blocks will contain eight 3-roomed and four 4-roomed flats, and one block containing ten 2-roomed flats and two 3-roomed flats, together with cycle sheds, service roads and footpaths.

The plans have been prepared by Messrs. James & Bywaters, R.A., F.R.I.B.A., F.R.I.C.S., of 5, Bloomsbury Street, London, W.C.1, and may be inspected at their offices or at the office of the Borough Architect, Town Hall, Reading.

Building Contractors who desire their names to be considered in connection with the invitation for tendering are requested to submit their names to the Borough Architect not later than the 20th January, 1951, and with that application Contractors are requested to give full details of their available labour force, plant and organisation. They are also asked to give particulars of any similar works carried out by them.

The Corporation reserve the right to select from the applicants the names of firms to be invited to submit competitive tenders on Bills of Quantities. 1491

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Architectural Appointments Vacant

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ARCHITECTURAL ASSISTANT (Temporary), with good general practice experience, wanted for Railway Civil Engineer's Office in Glasgow. State age, qualifications and experience. Box 1497.

JUNIOR ARCHITECTURAL ASSISTANT required for busy London office. Must be good draughtsman, with knowledge of building construction, etc. Five-day week. Box 1258.

ARCHITECTURAL ASSISTANT. Intermediate standard, required in Westminster. Varied practice, including Housing Schemes, University and Churches. Salary about £7, according to experience. Prospects of promotion. Send full particulars to Box 1506.

THE CO-OPERATIVE WHOLESALE SOCIETY, LTD. invite applications for the following appointments on the staff of the Manchester Architect's Department:—

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Applications, stating age, experience and qualifications, to be addressed to the Chief Architect, Co-operative Wholesale Society, Ltd., 1, Balloon Street, Manchester. 1495

PROPERTY DEVELOPMENT COMPANY require fully experienced **STAFF ARCHITECT** for factory building, also conversion and modernisation of residential buildings, W.I. Applicants should state age, experience, and send curriculum vitae, together with indication of salary required, to Box 1492.

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Architectural Appointments Wanted

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Preference will be given to applicants who are Members of the R.I.C.S. Quantities Sub-Division, and experienced in all aspects.

The salary offered will be up to £575 per annum, according to qualifications, experience, and ability, and applications giving full particulars and accompanied by copies of testimonials, should be sent, by the 10th January, 1957, to the Civil Engineer, North-Eastern Region, British Railways, York, and endorsed "Quantity Surveyor." Canvassing will disqualify. 1494

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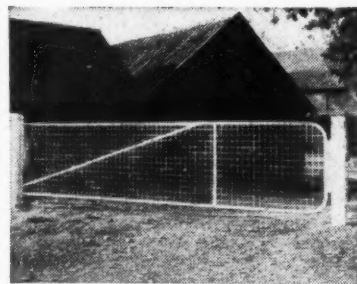
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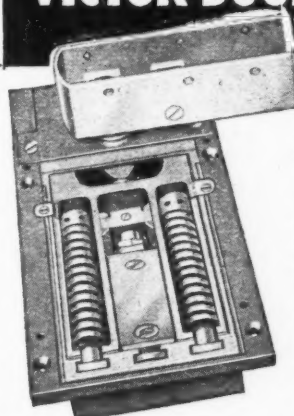


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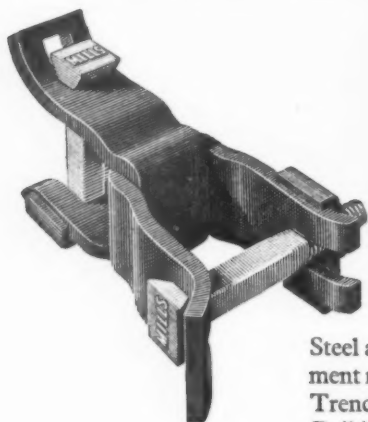
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