

The Architects' JOURNAL for February 19, 1959

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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No. 3338]

[Vol. 129

THE ARCHITECTURAL PRESS

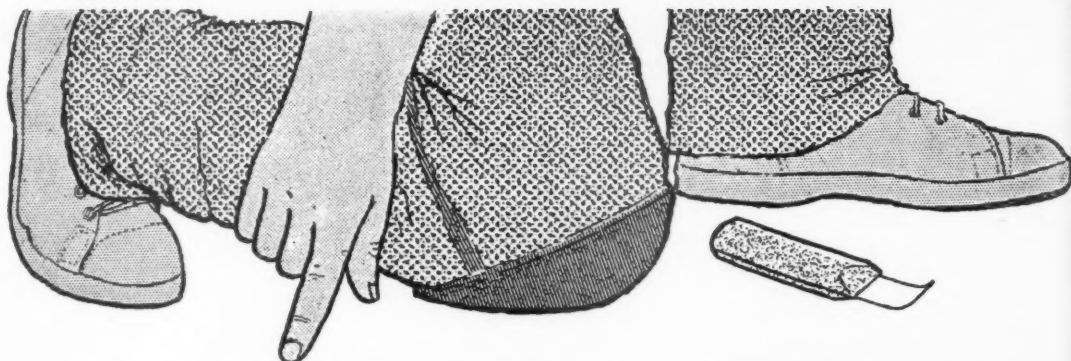
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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ii one week, Ii to Z the next. In all cases where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

ILA	Institute of Landscape Architects. 1, Park Crescent, Portland Place, W.1. Museum 3473
I of Arb	Institute of Arbitrators. Hastings House, 10 Norfolk Street, Strand, W.C.2. Temple Bar 4071
IOB	Institute of Builders. 48, Bedford Square, W.C.1. Museum 7197
IQS	Institute of Quantity Surveyors. 98, Gloucester Place, W.1. Welbeck 1859
IR	Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3. Avenue 6851
IRA	Institute of Registered Architects. 68, Gloucester Place, W.1. Welbeck 9966
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1. Sloane 7128
JFRO	Joint Fire Research Organisation (DSIR & Fire Offices' Committee) Fire Research Station, Boreham Wood, Herts. Elstree 1341/1797
LDA	Lead Development Association. 18, Adam Street, W.C.2. Whitehall 4175
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1. Museum 3891
MAFF	Ministry of Agriculture, Fisheries and Food. Whitehall Place, S.W.1. Trafalgar 7711
MOE	Ministry of Education. Curzon Street House, Curzon Street, W.1. Mayfair 9400
MOH	Ministry of Health. 23, Savile Row, W.1. Regent 8411
MOHLG	Ministry of Housing and Local Government. Whitehall, S.W.1. Whitehall 4300
MOLNS	Ministry of Labour and National Service, 8, St. James' Square, S.W.1. Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, W.C.2. Gerrard 6933
MOT	Ministry of Transport, Berkeley Square House, Berkeley Square, W.1. Mayfair 9494
MOW	Ministry of Works. Lambeth Bridge House, S.E.1. Reliance 7611
NAMMC	Natural Asphalte Mine Owners and Manufacturers Council. 94/98, Petty France, S.W.1. Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1. Abbey 4813
NBR	National Buildings Record, 31, Chester Terrace, Regent's Park, N.W.1. Welbeck 0619
NCBMP	National Council of Building Material Producers, 10, Storey's Gate, S.W.1. Abbey 5111
NEFMAI	National Employers Federation of the Mastic Asphalt Industry. 21, John Adam Street, Adelphi, W.C.2. Trafalgar 3927
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1. Langham 4041/4054
NFBTO	National Federation of Building Trades Operatives. Federal House, Cedars Road, Clapham, S.W.4. Macaulay 4451
NFHS	National Federation of Housing Societies. 12, Suffolk St., S.W.1. Whitehall 1693
NHBRC	National House Builders Registration Council. 58, Portland Place, W.1. Langham 0064/5
NPL	National Physical Laboratory. Head Office, Teddington. Molesey 1380
NRDB	Natural Rubber Development Board. Market Buildings, Mark Lane, E.C.3. Mansion House 9383
NSAS	National Smoke Abatement Society. Palace Chambers, Bridge Street, S.W.1. Trafalgar 6838
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1. Whitehall 0211
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1. Whitehall 7245
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1. Abbey 4504
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh. Fountainbridge 7631
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1. Langham 5533
RICS	Royal Institution of Chartered Surveyors. 12, Great George Street, S.W.1. Whitehall 5322/9245
RFAC	Royal Fine Art Commission. 5, Old Palace Yard, S.W.1. Whitehall 3935
RS	Royal Society. Burlington House, Piccadilly, W.1. Regent 3335
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2. Trafalgar 2366
RSH	Royal Society of Health. 90, Buckingham Palace Road, S.W.1. Sloane 5134
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19. Wimbledon 5101
SBPM	Society of British Paint Manufacturers. Grosvenor Gardens House, Grosvenor Gardens, S.W.1. Victoria 2186
SE	Society of Engineers. 17, Victoria Street, Westminster, S.W.1. Abbey 7244
SFMA	School Furniture Manufacturers' Association. 30, Cornhill, E.C.3. Mansion House 3921
SIA	Society of Industrial Artists. 7, Woburn Square, W.C.1. Langham 1984/5
SIA	Structural Insulation Association. 32, Queen Anne Street, W.1. Langham 7616
SNHTPC	Scottish National Housing. Hon. Sec., Robert Pollock, Town Clerk, Rutherglen W.C.1. Holborn 2646
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street W.C.1. Holborn 2646
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2. Temple Bar 5006
TDA	Timber Development Association. 21, College Hill, E.C.4. City 4771
TPI	Town Planning Institute. 18, Ashley Place, S.W.1. Victoria 8815
TTF	Timber Trades Federation. 75, Cannon Street, E.C.4. City 5040
WDC	War Damage Commission. 6, Carlton House Terrace, S.W.1. Whitehall 4341
ZDA	Zinc Development Association. 34, Berkeley Square, W.1. Grosvenor 6636



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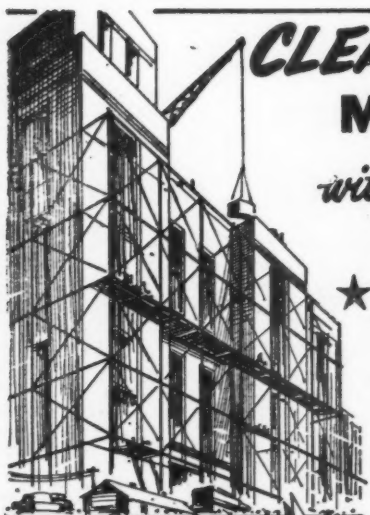
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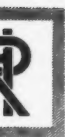


Concrete slab, partly treated. See how the water sinks into the untreated portion and stays in drops elsewhere. Note the sharp division.

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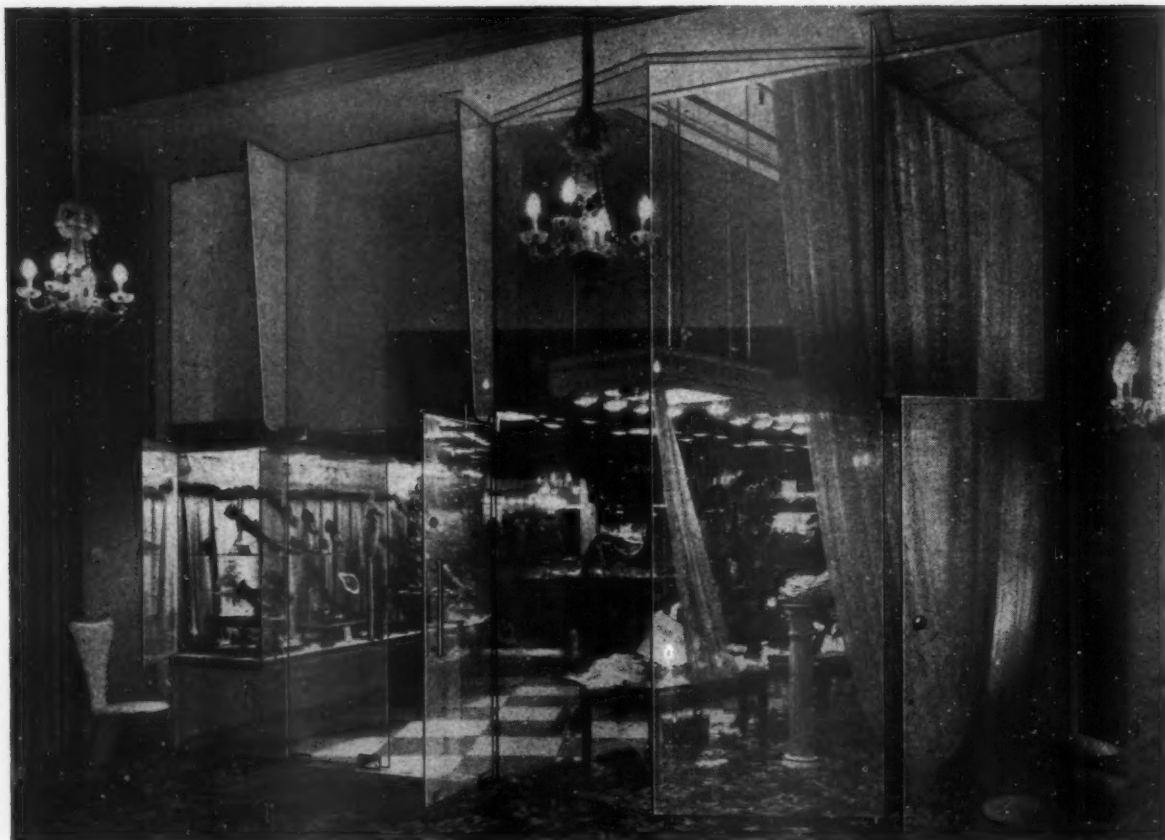


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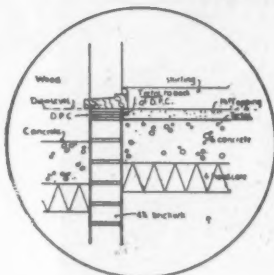
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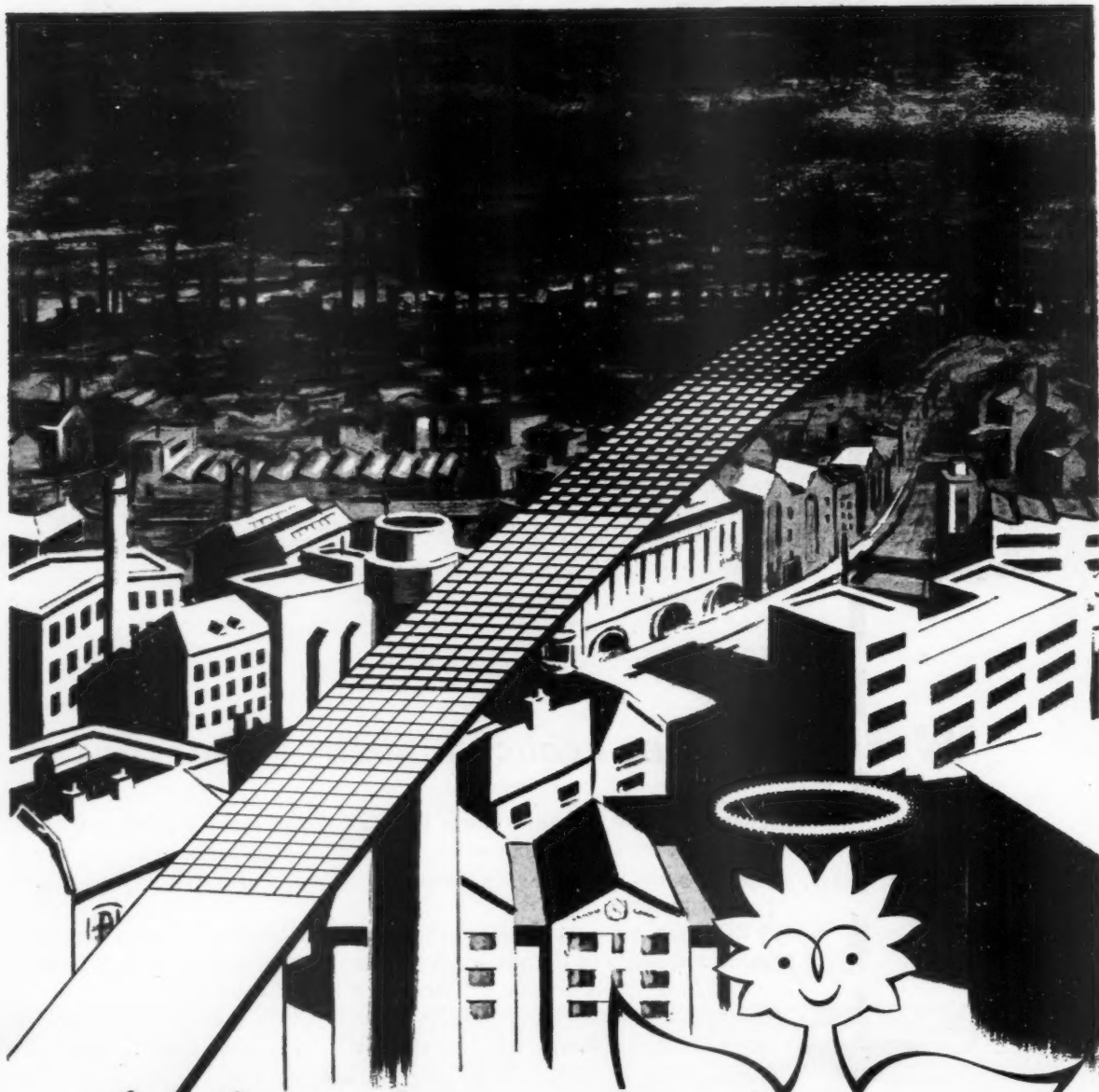


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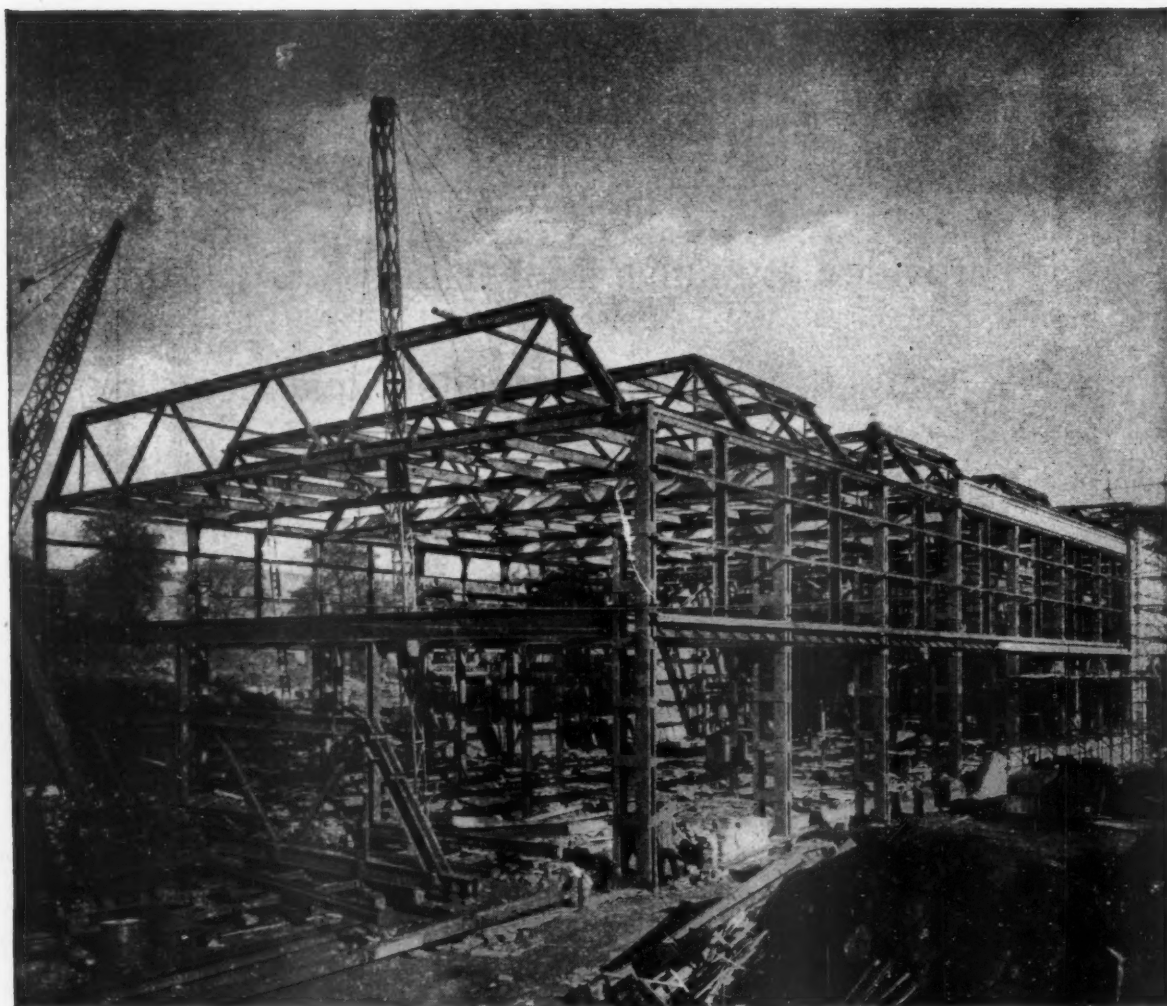
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The photograph shows welded steelwork in course of erection for Messrs. Ferodo Ltd's.

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



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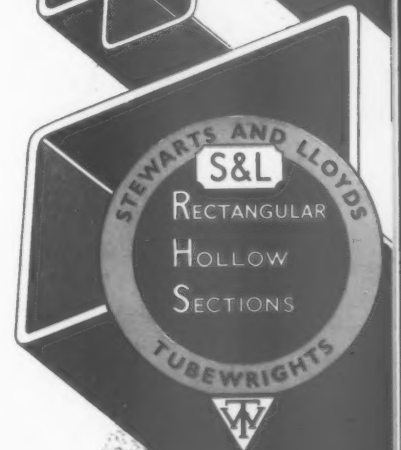
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City of the World

The New Western Architecture is now spreading all over the world and bringing fresh vitality to design in hundreds of cities as, twenty centuries ago, the Classic orders spread throughout the Græco-Roman world. No complete city of contemporary buildings yet exists, but buildings that do are illustrated

here, drawn by Gordon Cullen, and assembled as components of an imaginary city. This shows the part glass plays in the technique of architectural design today, and the light, airy and graceful shapes that are arising in Europe, Africa, North, Central and South America. The Glass Age is here.



1 Lake Shore Drive, Chicago.
Architect: Mies van der Rohe.

2 Ingram Building, Johannesburg.
Architects: Cowan & Ellis.

3 House in Sweden.
Architects: Backstrom & Reinius.

4 Church, in Olinda, Pernambuco,
Brazil.

5 Casino, Pampulho, Brazil.
Architect: Oscar Niemeyer.

6 House in Gold Coast.
Architect: James Cubitt.

7 Palace Hotel, Milan.
Architect: Ramponi.

8 Unilever Building, New York.
Architects: Skidmore, Owings & Merrill.

9 Daimler-Benz Building, Unterturkheim,
Germany. Architect: Rols Gutbier.

10 Oklahoma Tower.
Architect: Frank Lloyd Wright.

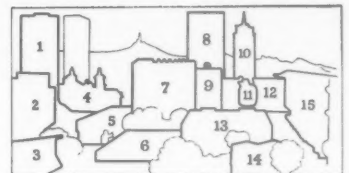
11 University Medical School, Pedregal,
Central Mexico. Architect: Espinoza.

12 Life Insurance Company, W. Berlin.
Architect: Hans Schaefer.

13 Conference Hall, Geneva.
Architect: A. Guyonnet.

14 House, Long Island Sound, New York.
Architect: Ulrich Franzen.

15 Palace Hotel & Office Building,
Helsinki. Architects: Rewell & Petaja.



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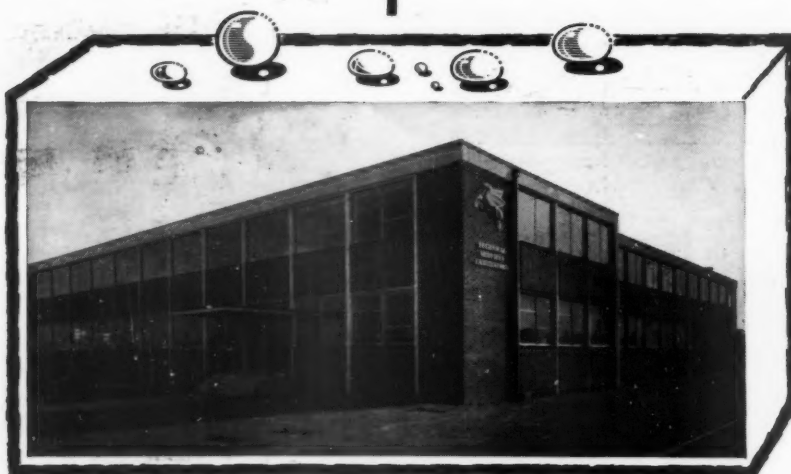
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The external concrete frame of this imposing new Technical Service Laboratory for the Mobil Oil Company at Coryton (Architect S. Greenwood A.R.I.B.A.) is faced with precast concrete units treated with a water repellent based on DRI-SIL silicone. Photo by courtesy of Mobil Oil Company Ltd.

Proof of the effectiveness of these treatments is shown in this table		% Water absorption after 24 hours' immersion	
		Initial Test	Retested after 3 years' natural weathering
Sandstone	untreated	7.0	6.2
	DRI-SIL treated	0.1	0.2
Cement Block	untreated	6.0	5.9
	DRI-SIL treated	0.4	0.7
Common Brick	untreated	20.0	20.1
	DRI-SIL treated	0.1	0.3

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Harvey Langford Ltd, London, W1
W. W. Hill Son & Wallace Ltd, Salford
Hydrol Ltd, London, W3
Indestructible Paint Co. Ltd, London, W1
Irish Cold Bitumen Ltd, Belfast

Leyland Paint & Varnish Co. Ltd, Leyland
George Lillington & Co. Ltd, Mitcham
John Line & Sons Ltd, London, W1
Donald Macpherson Ltd, Manchester 1
Henry Matthews & Co. Ltd, Bristol 1
John Matthews & Co. Ltd, Liverpool 3
John Miller & Son Ltd, Brighouse
Mineralite Ltd, Croydon
Montgomery Stobo & Co. (Chester) Ltd, Saltney and a' Glasgow
Nubold Development Ltd, Luton
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Pickers Ltd, London, W1
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Purimachos Ltd, Bristol 2
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Ribble Paints & Varnishes Ltd, Blackburn
Ripolin Ltd, Southall
Sealcrete Products Ltd, London, NW10
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Silicaseal Ltd, Newcastle-upon-Tyne
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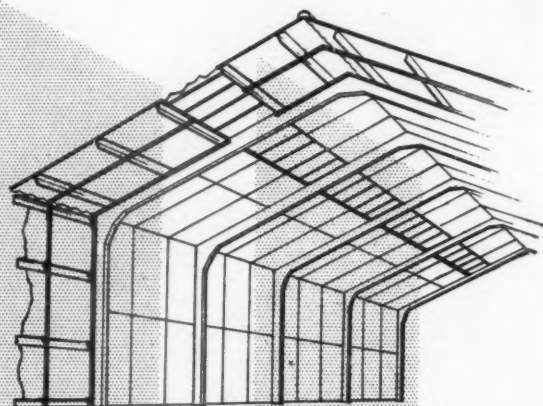
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- ... is equally suitable for forming a continuous, inclined or horizontal underlining, a "dropped" ceiling or a vertical lining;
- ... can be fitted on a fix-it-yourself basis by unskilled labour at any opportune time for about 6s. per sq. yd. (panelling extra);
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The "GRECON" System is based on slotted 'I'-section made in 9ft. lengths from galvanised steel. These are wired to the existing metal purlins, *whether of angle-, tubular-, or I-section*, or nailed to wooden purlins or walls and solid partitions. The insulation panels* are then offered up and secured by spring clips pressed on to the formers. It's as simple as that!

* Expanded polystyrene panels can be temporarily fixed by being pressed on to pre-formed "teeth" and the clips then fitted. These panels also have superior "U" values ($\frac{1}{4}$ in. thick—.24). Use only non-corrosive, non-flam, or standard grade.

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Price.—One "GRECON" Pack, containing all the necessary fittings to cover a 50 sq. yd. area, costs only £10.

For further details of "Grecon" see your local Builders' Merchant or write direct to:

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AP 104

Ascot and the Se-Duct make history

Ascot and the new Se-Duct system of vertical duct flueing made architectural history on October 27th, 1958, when a block of 160 new flats was officially opened at Anne Street, Gateshead.

Built for the Gateshead Corporation, the flats are the first multi-storey dwellings to be constructed with the Se-Duct replacing traditional flues for high efficiency room-sealed gas appliances such as the Ascot 727 water heater. As a result, improved layout and considerable savings in capital installation costs have been achieved.

Thanks to the Se-Duct system, full heat services from high efficiency gas appliances are available at the Anne Street flats at a low running cost comparable with that of a solid fuel system. These comprise 160 Ascot 727 'multipoints' and 30 Ascot 503/2 sink water heaters, as well as gas fired drying cabinets, cookers, radiant/convector fires and washboilers



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on old masters



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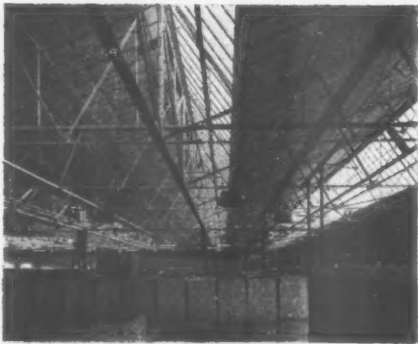
... to put you in the picture the city whose god is Hephaestus likes to see its Masters with a clear eye unprejudiced by smog. At the Feeney Galleries it is evident that smelted metal, the lifeblood of Birmingham, has not been the death blow to culture. Luve-tiles have been specified. Here in fact you see them shedding a clear, diffused light on the creations of craftsmen in paint for craftsmen in metal to come and see. If you have lighting problems Harris & Sheldon will solve them for you.

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First for its inherent fire-resistant properties—essential for a factory of this kind.

Secondly for its value as an insulating material which fully satisfies current regulations to limit heat loss from industrial buildings.

Bryant & May Ltd. Empire Works, Maryhill, Glasgow.

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Insulating Gypsum Plasterboard, which is faced on one side with aluminium foil, costs approximately 5d. per square foot. It provides excellent thermal insulation, and has the same qualities of fire resistance as plain plasterboard. Plasterboard of either type is readily available and is easy to handle, erect and decorate.

IT'S THE CORE THAT COUNTS

All plasterboard has an incombustible core of Gypsum, which contains 20% combined water. During a fire this water is gradually released in the form of vapour, which provides an effective barrier to the fire's progress.

FACTS AND DIAGRAMS

concerning fire resistance and thermal insulation are contained in our free illustrated brochure.

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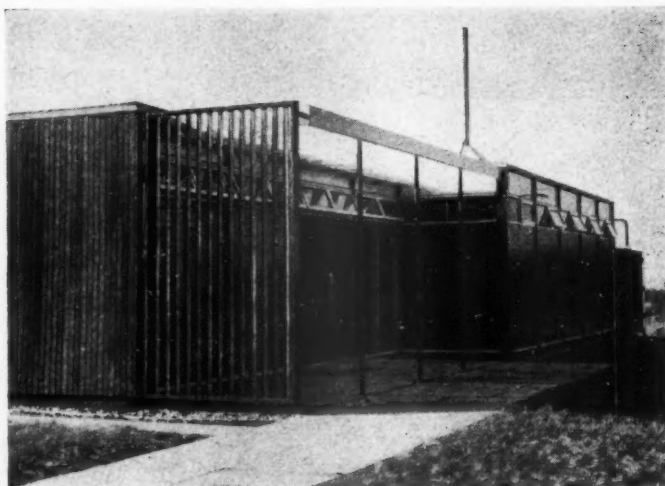
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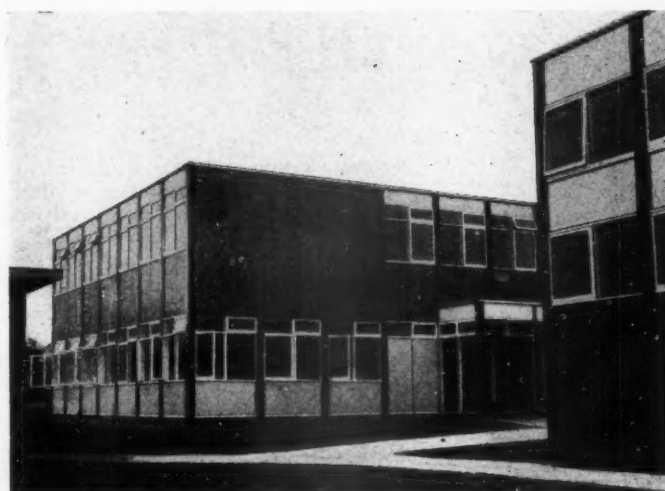
Single Storey

Coleshill C.E. School: A first instalment of a larger school; single storey construction (8 ft. ceiling height).



Two Storey

Park Hall Secondary Modern School: Two storey block with classrooms of 8 ft. ceiling height and (on the right) gymnasium (16 ft. ceiling height).



Both schools for Warwickshire County Council

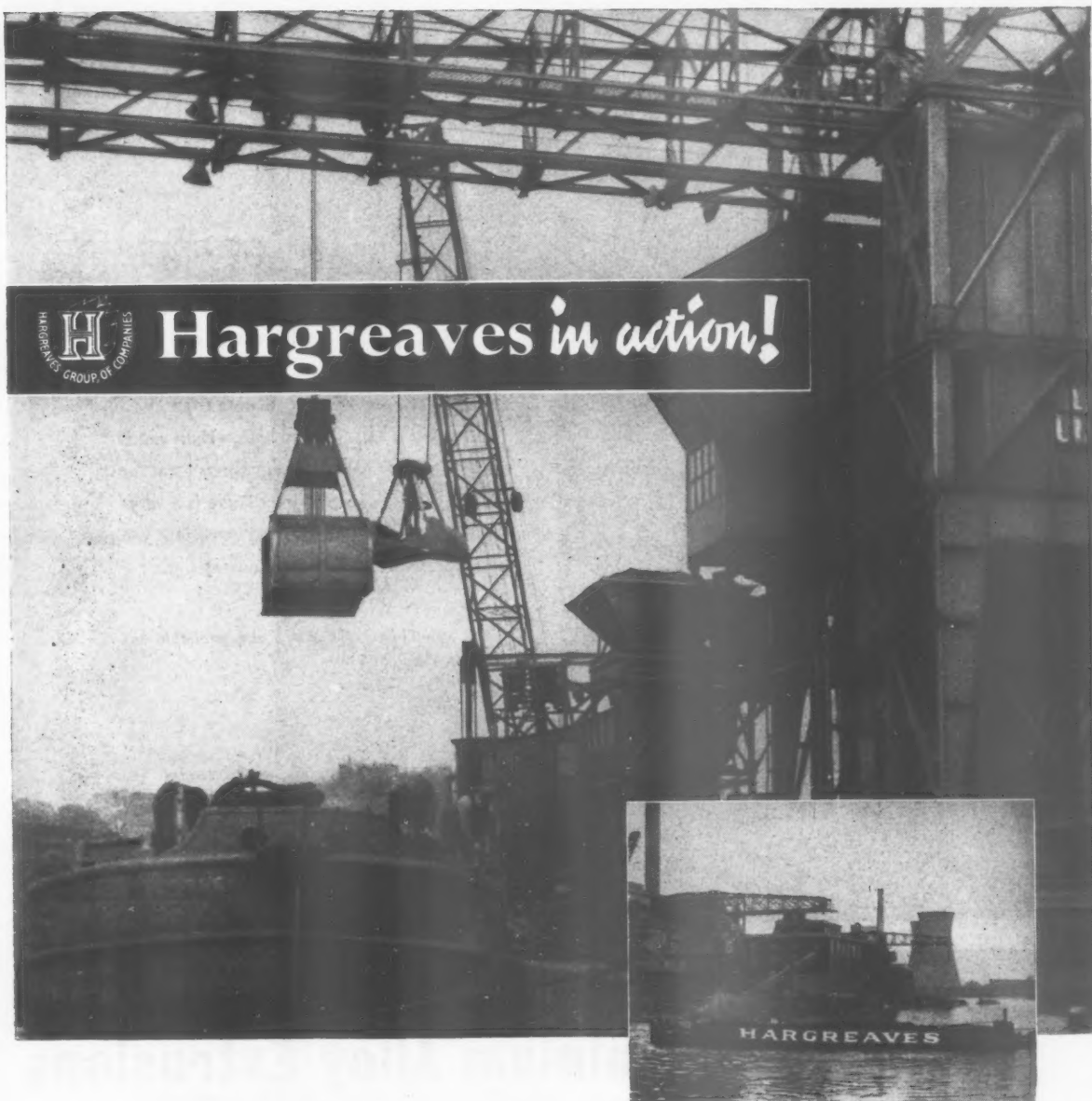
Architects:

Farmer & Dark F.R.I.B.A., in conjunction with G. R. Barnsley, F.R.I.B.A., County Architect

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At Golden Lane, E.C.1.

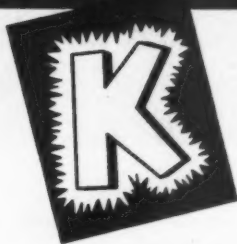
'K' aluminium alloy extrusions in natural finish were used for the curtain wall and side windows of this housing block. Extreme adaptability, freedom from corrosion, and high strength/weight ratio combine to make 'K' extrusions ideal for this type of construction. There is a very wide range of sections, and extrusions can be provided to architects' own designs.

'K' aluminium alloys are also available as rods, tubes and bars.

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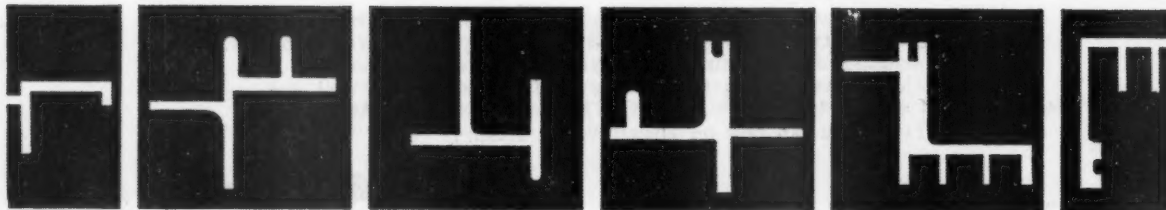
Curtain walling manufacturers: Quicktho (Engineering) Ltd.

Architects: Chamberlin, Powell & Bonn



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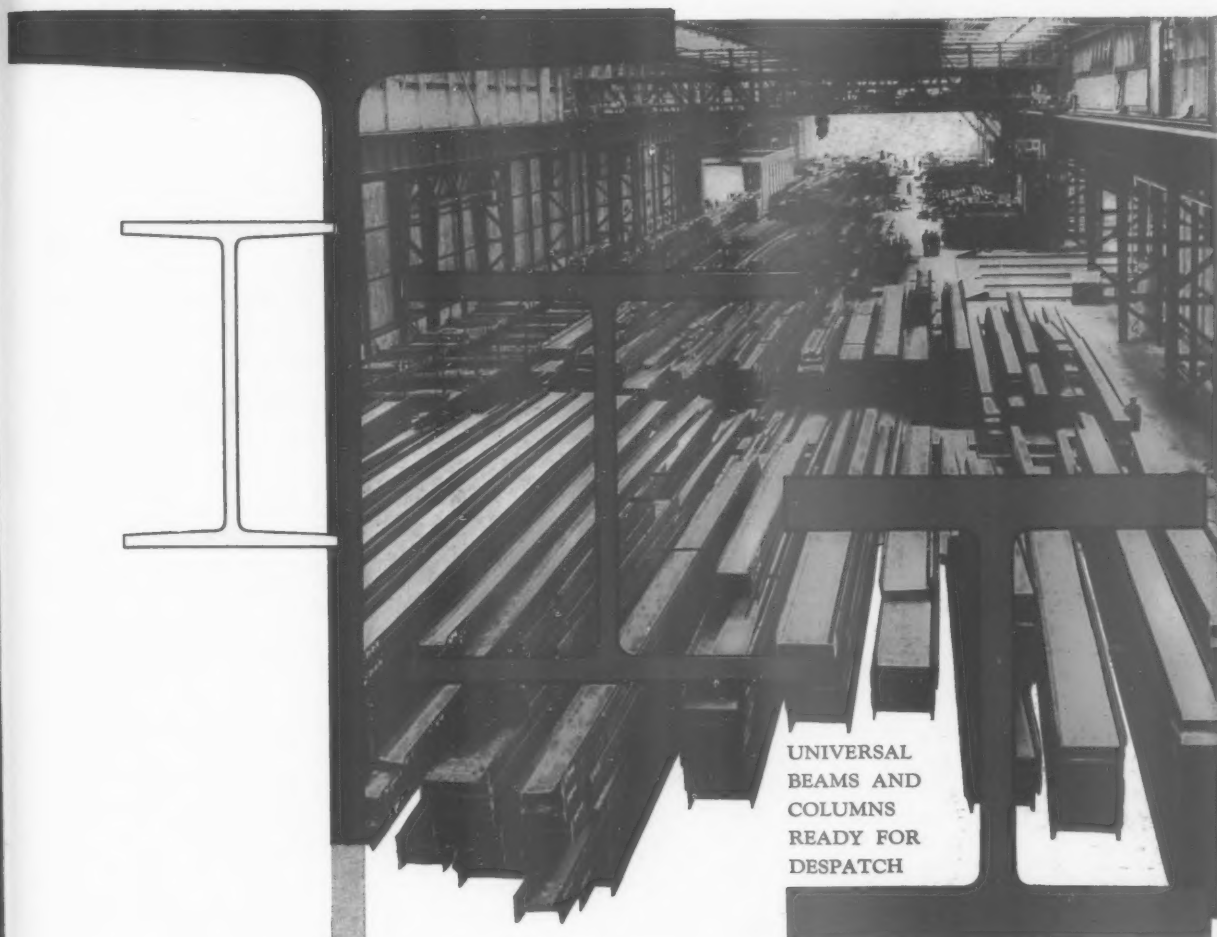
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DELIVERIES FROM THE UNIVERSAL BEAM MILL

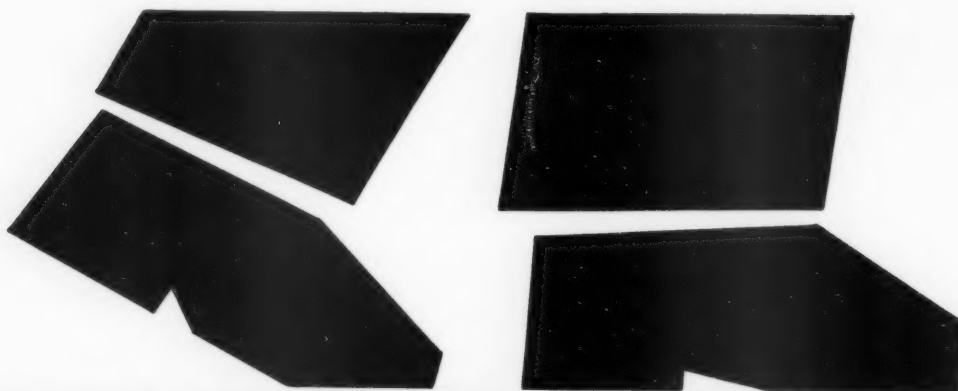
The new beam and column sections, in different weights, are now being rolled in substantial quantities and are available for early delivery.

The beams include the largest rolled in Europe. Columns are also rolled in 'families' of suitably related sections for multi-storey buildings.

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Universal beams have opened a new field for steelwork designers, offering far-reaching economies and increasing the efficiency of the structure.

DORMAN LONG



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Glamorock Glaze possesses all the decorative and wear-resistant advantages of polished granite or Terrazzo, plus a far greater and altogether more attractive range of *natural* stone colours. It is simple to lay and highly economical. Depending on the size of the job, and the locality, its cost works out at between 25/- and 45/- per square yard. Glamorock Glaze is the ideal material for private dwellings, or wherever a modern, very beautiful floor or wall surface is required.

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Glamorock Granite was evolved to give an exceptional degree of wear-resistance under the most severe conditions, while retaining the beauty, colour and design possibilities of Glamorock Glaze. Glamorock Granite makes a perfect surfacing for factories, schools, hospitals, public buildings and similar places. It is completely slip-proof and after a normal floor polish has been applied it can be thoroughly cleaned simply by water.

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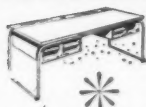
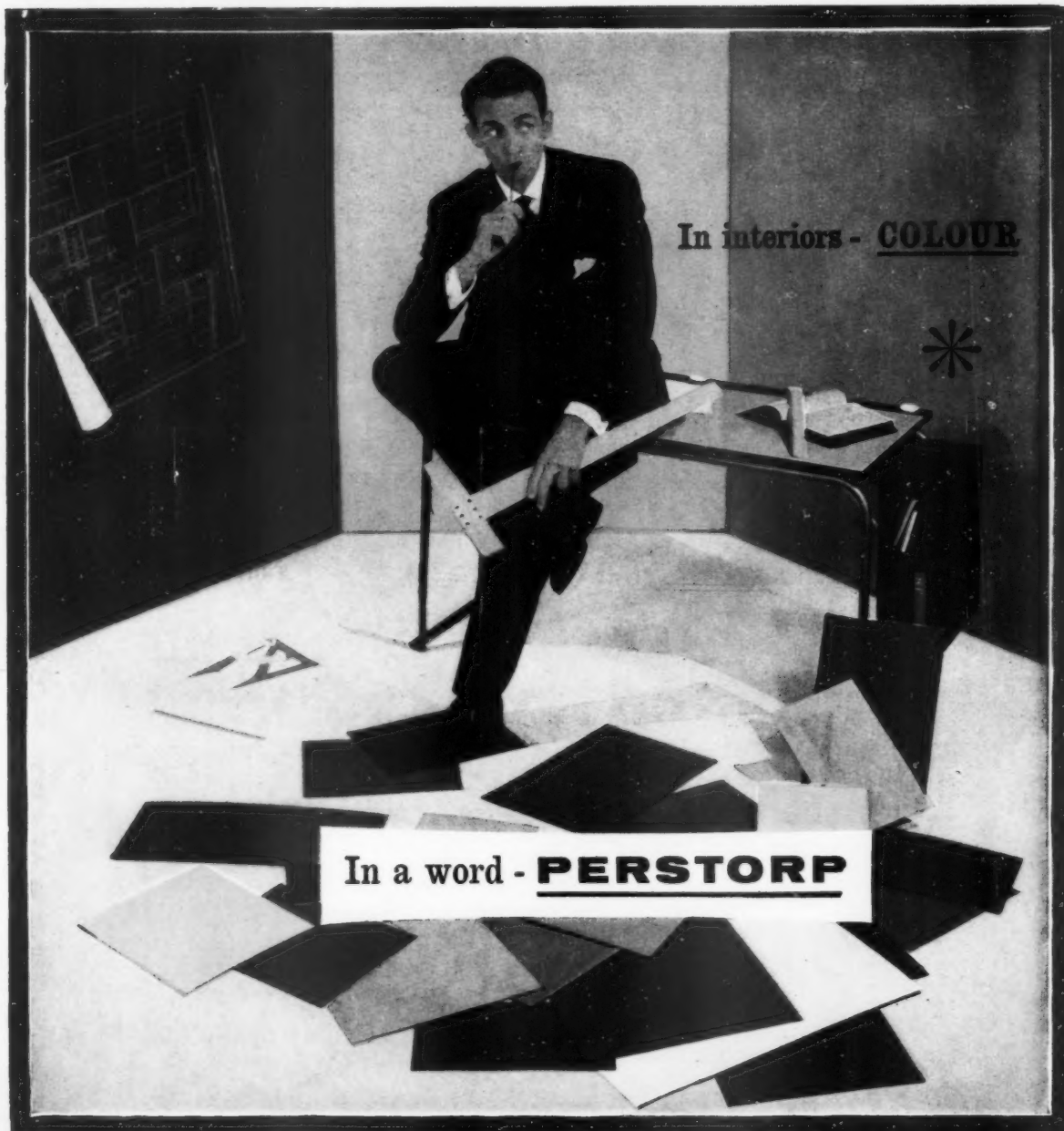
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GLAMOROCK

a magic carpet of natural stone

Glamorock Glaze used dramatically on a corridor floor and wall. The right hand wall is faced with standard Glamorock.



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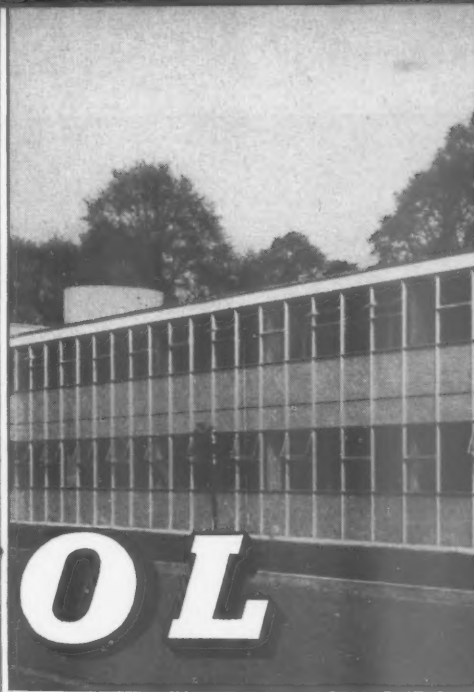
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Project for: National Physical Laboratory, Teddington.
Architect: A. S. Reid, A.R.I.B.A., of the Chief
Architect's Division, Ministry of Works
Contractor: W. E. Chivers & Son.
Escol panels shown are in pale grey (B.S.I. 7-078)
and those on the north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

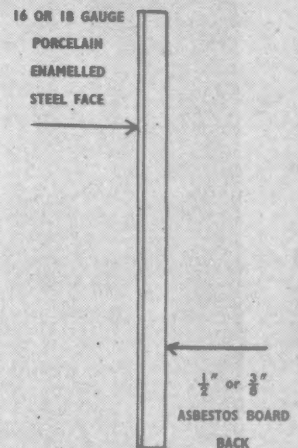


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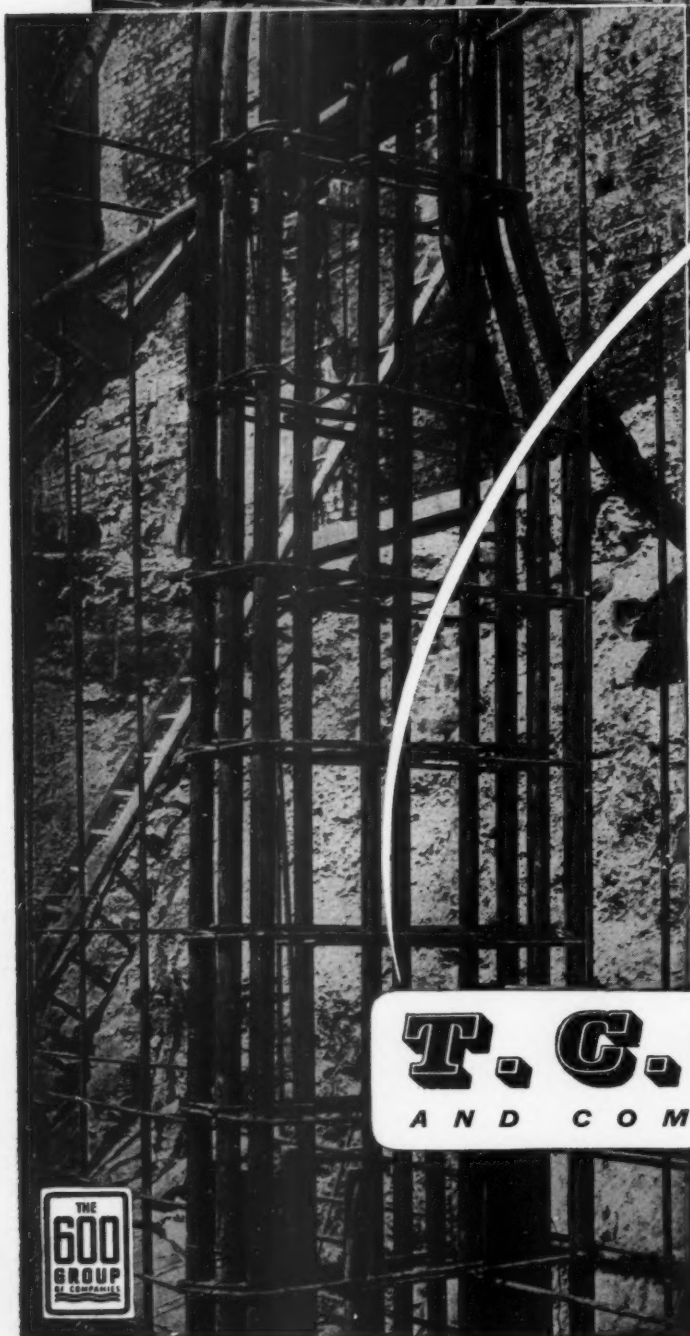
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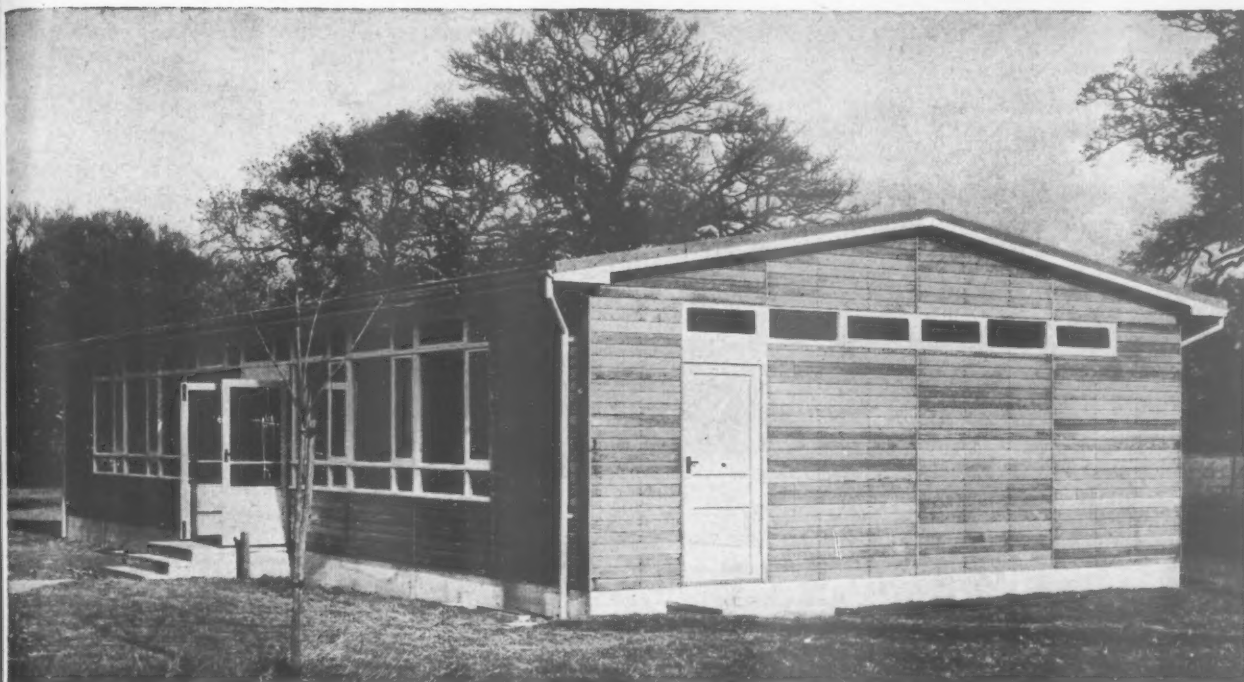
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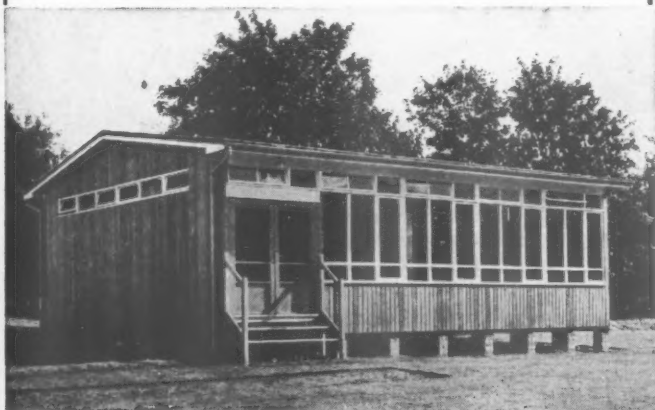


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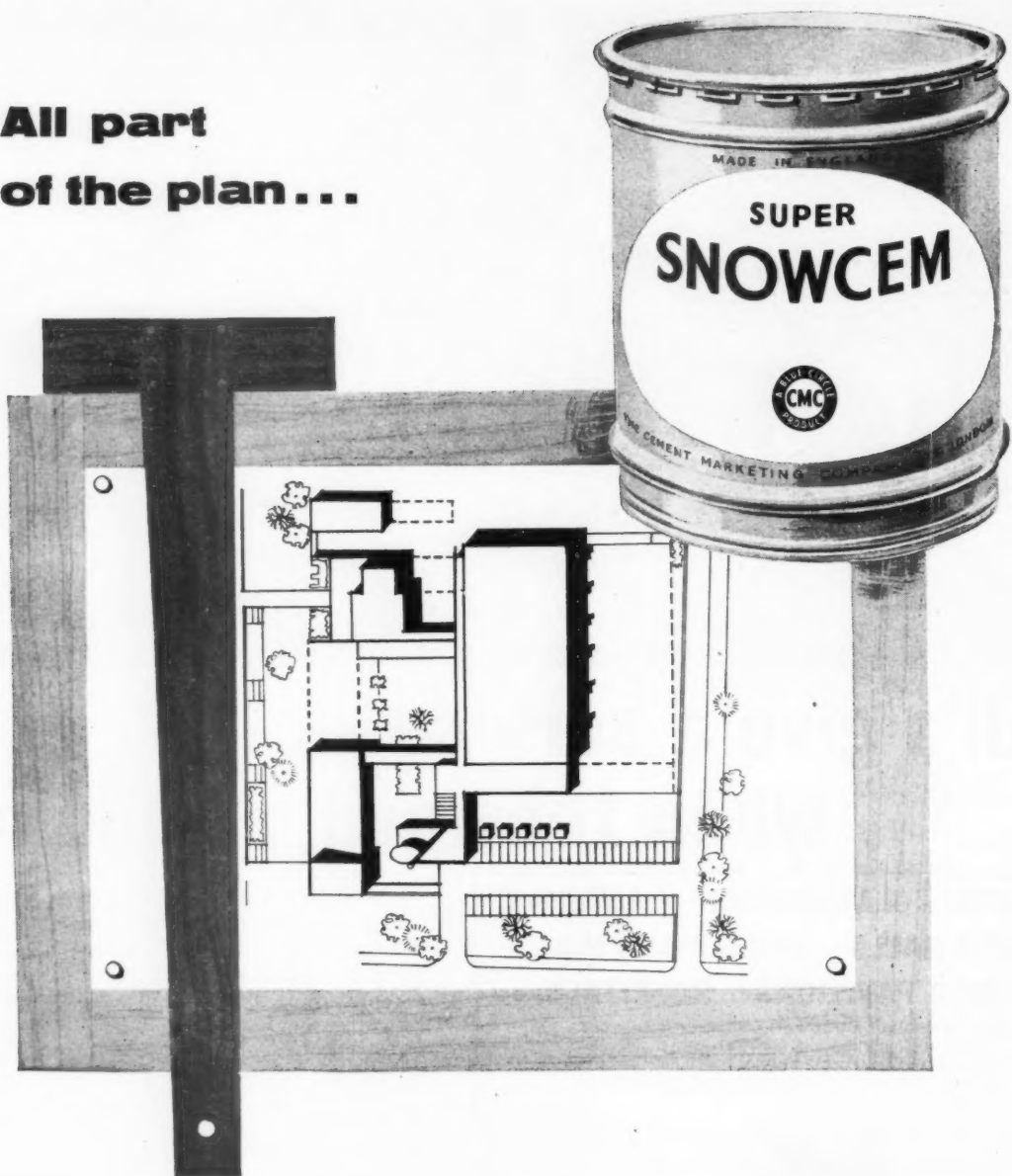
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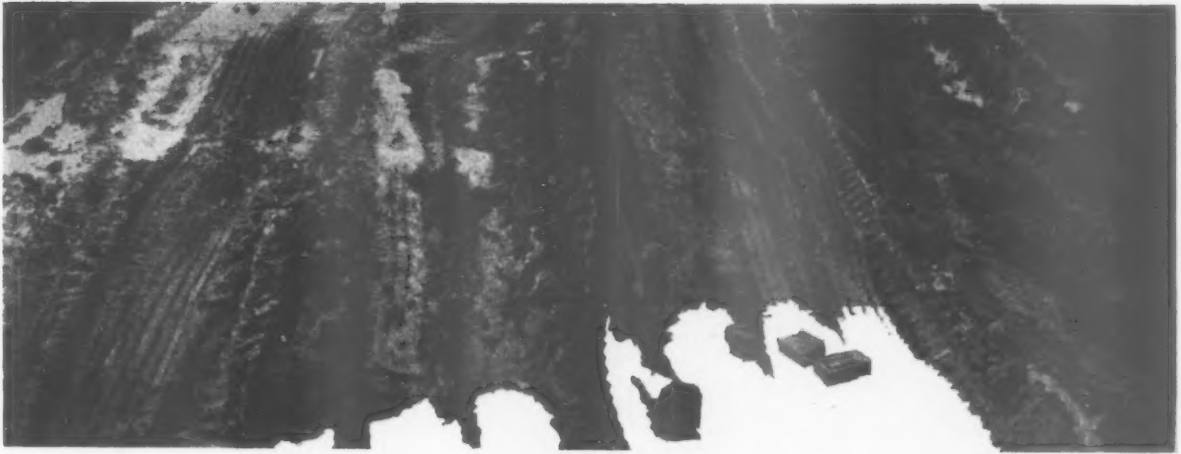
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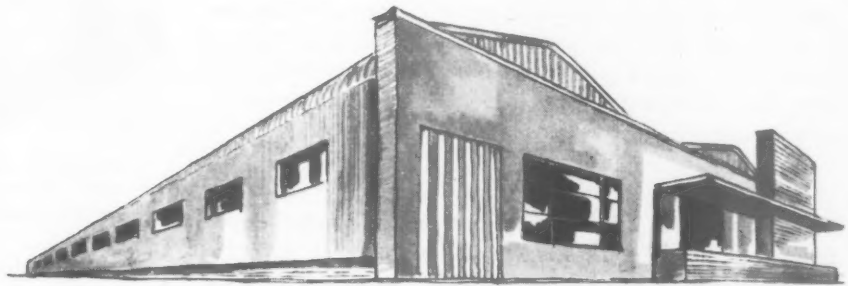


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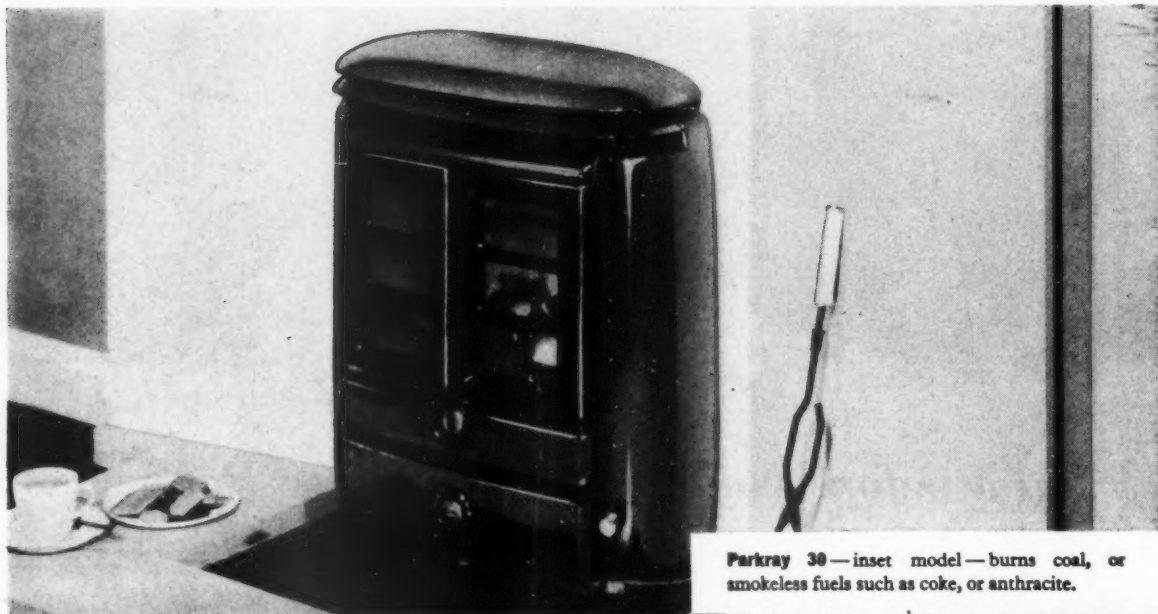
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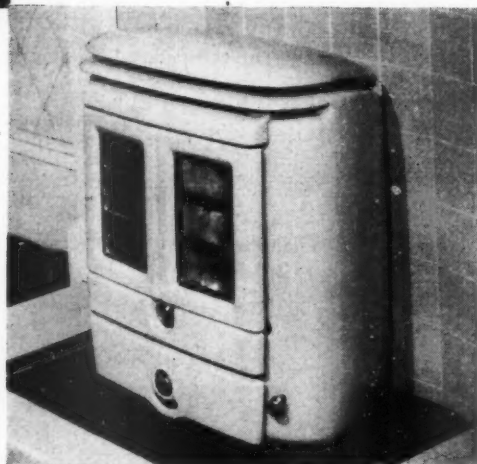
Trend-setting new design from Radiation

The **Parkray 30**, latest thing in inset stoves, fits almost any fireplace opening yet *projects only 7" on to the hearth*. The heater will fit any existing fireplace opening 16" to 18" wide and 20" to 24" high—a particularly useful point if you are seeking to replace an old inefficient fire.

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The **Parkray 32** is a freestanding room heater—another elegant design from Radiation that has taken all the boxy look out of the traditional stove. Both room heaters will provide full heating for rooms of up to 3,000 cu. ft.

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Parkray 32—freestanding model. Both have special Parkray air control—idling fire springs to life in a moment—burns for hours unattended.



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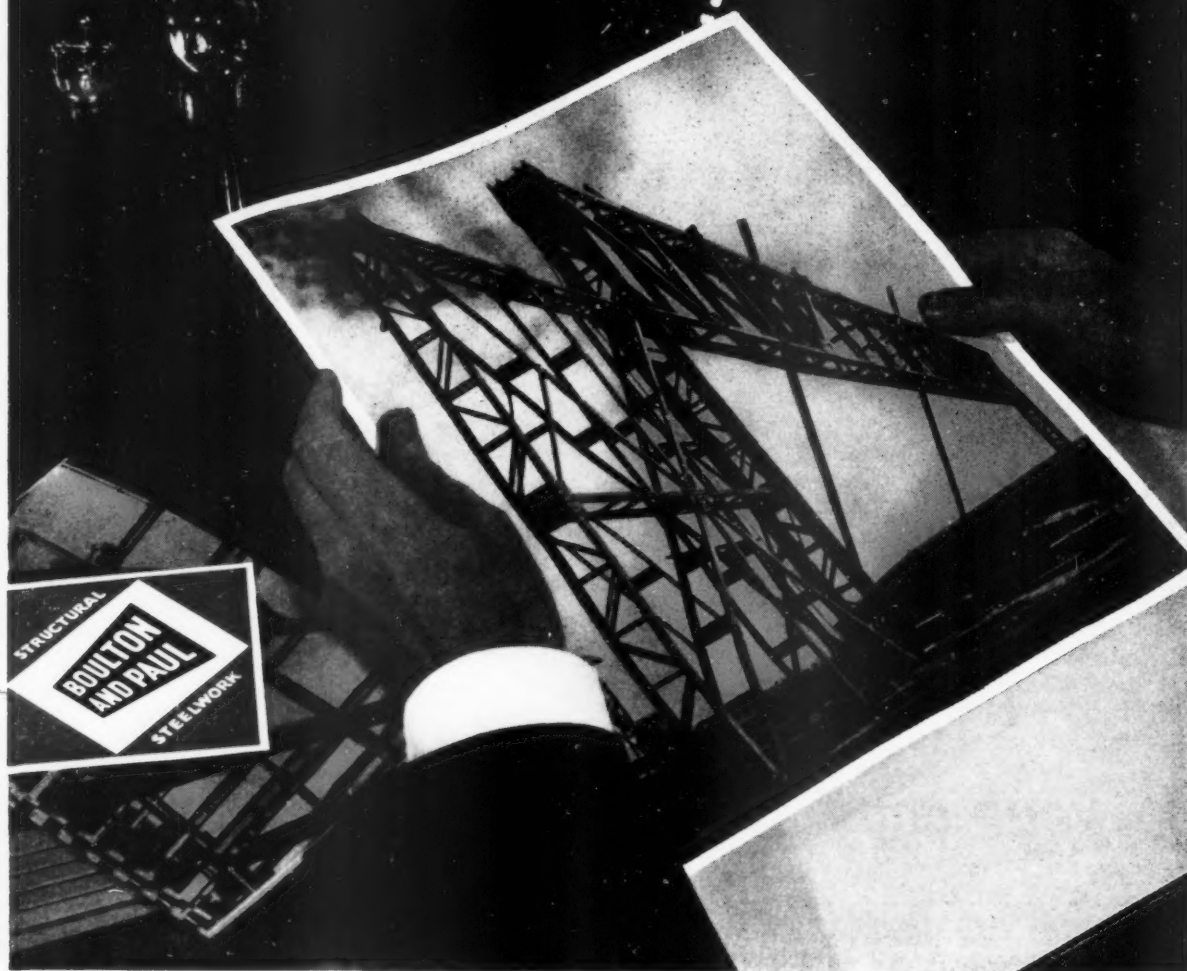
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417

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NORWICH · LONDON · BIRMINGHAM

AP/CE40

**Modern
Doors**

for

**Modern
Projects**

'No Fines' houses at Half Hyde, Shephall Neighbourhood. Contractors: George Wimpey & Co., Ltd.; Photograph by kind permission of the Stevenage Development Corporation.



Standard Sizes:

6'6" x 2'9"	6'6" x 2'0"
6'6" x 2'6"	6'6" x 1'9"
6'6" x 2'3"	6'6" x 1'6"
	6'0" x 2'0"

Finished thickness — 1.5/8"

Special Features:

- * Uniform support of door facings, ensuring complete freedom from surface undulation.
- * Much greater strength, with complete stability and rigidity.
- * Considerable saving in weight.
- * Dimensioned to size, ensuring instant readiness for use.

The selection of Hills DURADOR for so many projects of the Stevenage Development Corporation is another impressive tribute to the quality-with-economy which these fine interior flush doors offer.

301 houses at Half Hyde, constructed on the 'new-traditional' 'No Fines' method, are equipped with DURADOR.

DURADOR are also being fitted in the new dwellings at Long Meadow N.E. and Broom Barns.

DURADOR is the flush door with the exclusive 'Placarol' core and balanced West African plywood facings. It is generally accepted as the outstanding flush door at its price in quality and dependability. The 'Placarol' core, consisting of hundreds of wood spirals bonded in immovable unity with the plywood facings, is the most successful advance of its kind in flush door manufacture.

Available in three grades: A for painting; B for Staining and Varnishing; C with Oak faced plywood and matching edge strip.



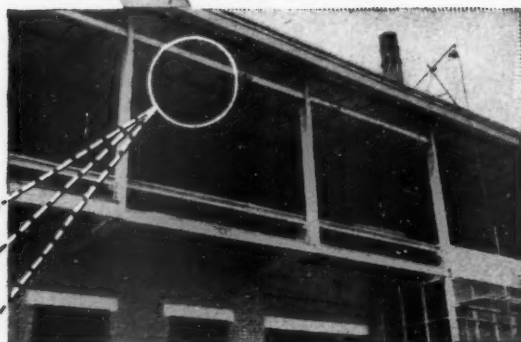
There is a HILLS Door for every building project: ask about our extensive range. All HILLS Doors have a 3-year guarantee of workmanship and materials.

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Pyrodek specified for Bakery



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A Pyrodek gypsum concrete roof was specified for Parkcake Bakeries' new extensions at Oldham. Unique fire protection, high speed construction, flat dust-free soffit, low maintenance.... This versatile roof construction possesses all these features which are essential for an efficient roof. May we send details? Publication 2.20 will gladly be sent on request.

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This aluminium sash window costs £7.7.6

SIZE 3' 8½" x 3' 5½": QUANTITIES OVER 48

ALOMEGA windows are made of aluminium—they need no maintenance *ever* and cost far less in the long-run.

ALOMEGA windows work *without* counter-balancing mechanism. They are draught-proofed, supplied glazed, and are fixed with 4 screws. 12 standard sizes. Or purpose-made up to 19 ft. perimeter.



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Resists 4,800 lbs side pressure!

Yale M.555 Five lever mortice lock

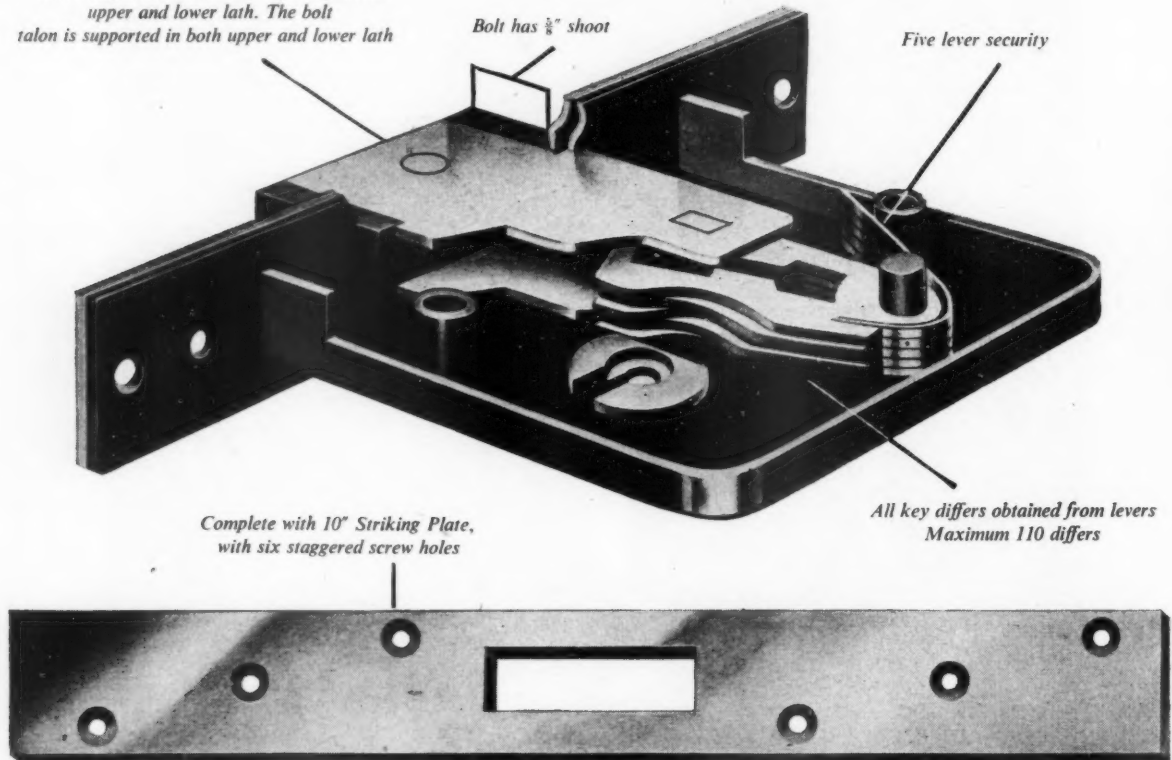
Steel reinforced Deadbolt comprising Steel upper and lower lath. The bolt talon is supported in both upper and lower lath

Bolt has $\frac{1}{8}$ " shoot

Five lever security

Complete with 10" Striking Plate, with six staggered screw holes

All key differs obtained from levers
Maximum 110 differs



SPECIFICATION

Case:

Steel. Art black. $2\frac{1}{2}$ x $2\frac{1}{2}$ x $\frac{1}{8}$ in.

Striking Plate:

Steel art black.

Bushes:

Double Brass

Action:

Deadbolt. Five lever.

Keys:

Two.

Wards:

Brass double sash.

Plain Forend:

Brass, $4\frac{1}{2}$ x 1 x $\frac{1}{8}$ in. Armoured. For doors of either hand.

Rebated Forend:

Brass, not reversible. Hand required must be specified.

Standard rebate: $\frac{1}{8}$ in.
—other rebates $\frac{1}{8}$ in. to $\frac{1}{4}$ in. in $\frac{1}{16}$ " stages.

Here is a lock that more than satisfies most insurance requirements. This five lever mortice lock under test has withstood a side pressure of 4,800 lbs. without breaking. This is 4,000 lbs. more than is suggested as a general specification for mortice locks by British Standards Specification. That is one of the reasons why the M.555 is recommended by so many leading insurance companies. When you specify Yale you specify security . . . there's a Yale lock for every kind of security risk.

Literature Explanatory leaflets and detailed specifications will be gladly sent on request. Please order through your usual Merchant or Ironmonger.

**Where there's a door
there's a need for**

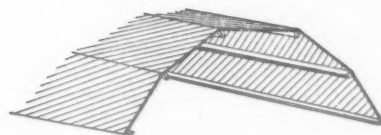
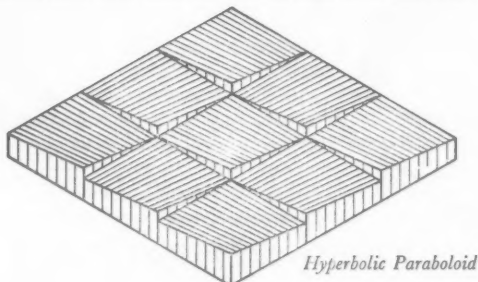
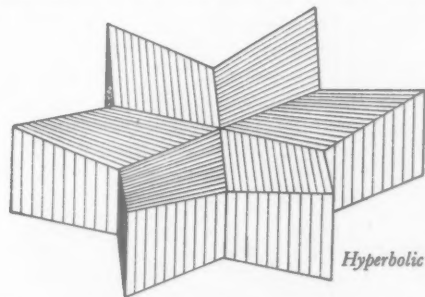
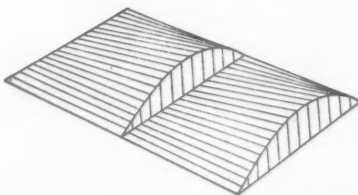
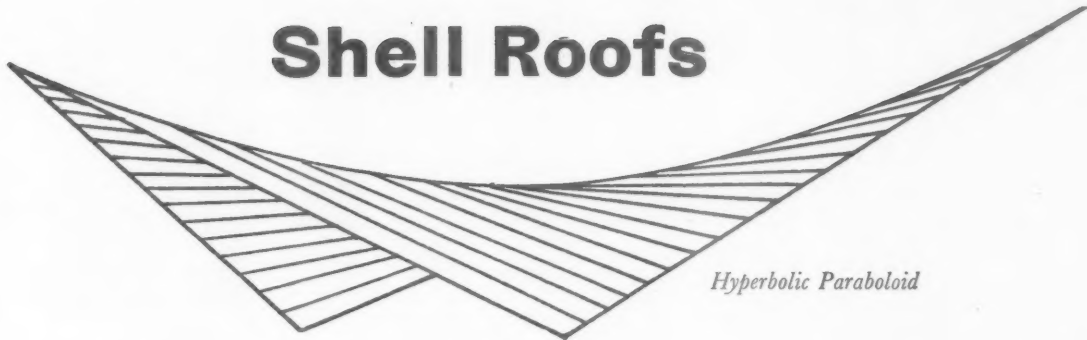


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Shell Roofs



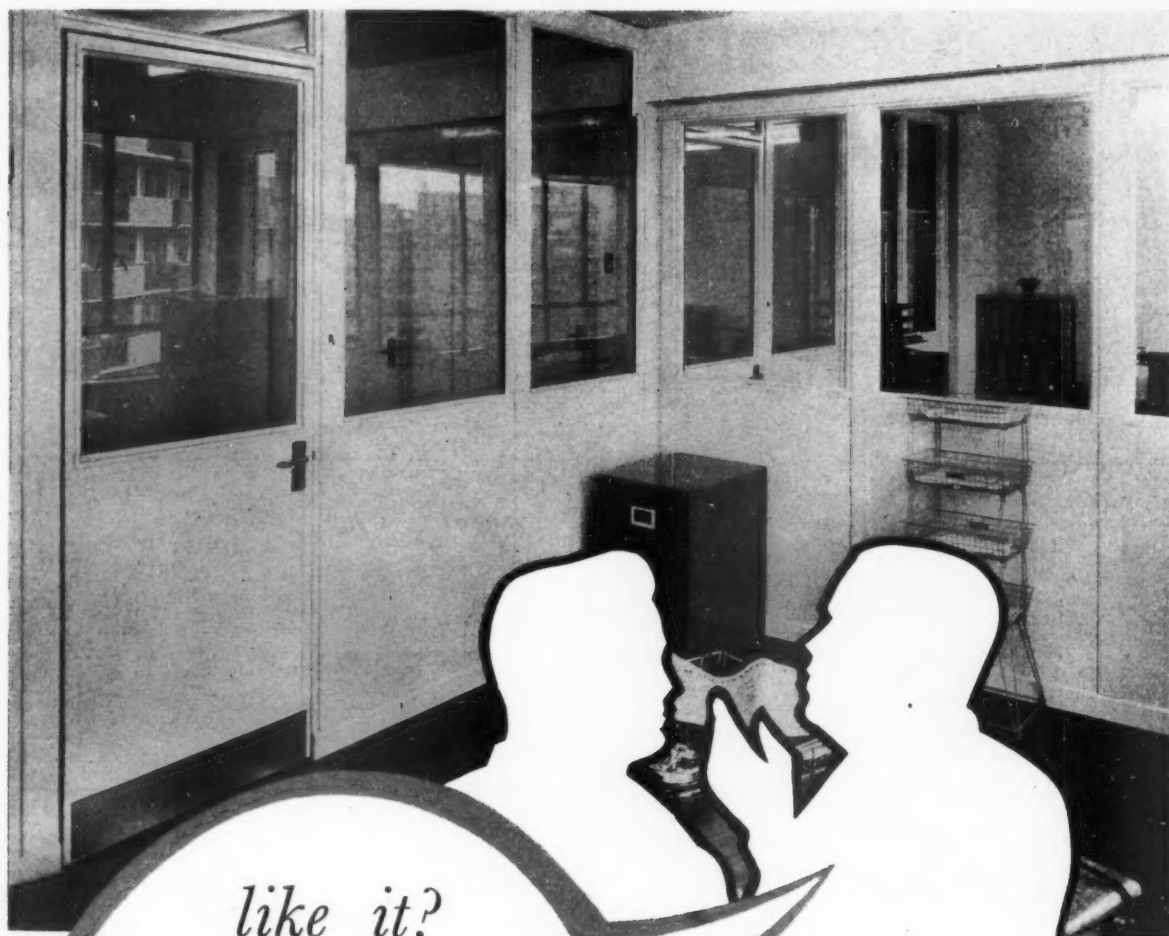
FOR INDUSTRIAL AND PUBLIC BUILDINGS

Suitable for industrial and public buildings, these new structures in timber provide an exceptionally clear floor space.

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please do not hesitate to consult the T.D.A. who will gladly supply you with information on the use of softwoods, hardwoods, plywoods, modern timber design and names of timber fabricators.

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*Individually tailored
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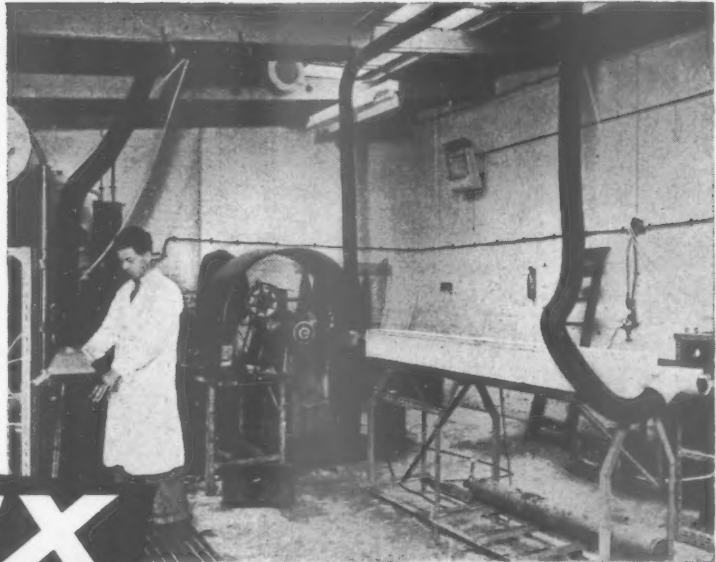
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Save labour
costs with

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* TEMPORARY AND PERMANENT DUCTING—KOPEX Pliable Ducting can be quickly erected in any experimental and development shop as this photograph clearly indicates, and can be quickly dismantled and stored for the next job. It is just as easy, and costs no more, to erect permanent KOPEX Pliable Ducting for Domestic and industrial ventilation schemes.



* Cut through tube to show closely interlocked layers.

Detailed pre-planning and prefabrication are unnecessary with Kopex Pliable Ducting. It can be cut, bent by hand—even to small radii—and fixed to conform with the most intricate layout on site. Jointing is reduced to a minimum because Kopex can be supplied in continuous lengths.

Good heat insulation properties are a special feature of Kopex composite paper and metal ducting, making it ideal for heating and ventilation installations. It is also particularly suited for dust and fume extraction. Grades are available for all types of installations, high or low temperatures, in sizes up to 7½" I/D in all metal, and metal and paper.

EASILY SHAPED Can be bent to small radii without distortion of bore.	CUTS ON SITE Cuts easily with a knife.	SIMPLE TO ERECT Strong but light in weight, greatly simplifying erection.

KOPEX Pliable Ducting is supplied to heating and ventilating engineers, Government authorities and principal Industrial Companies in Great Britain.



* Kopex Pliable Ducting is easily coiled for storage and transport.

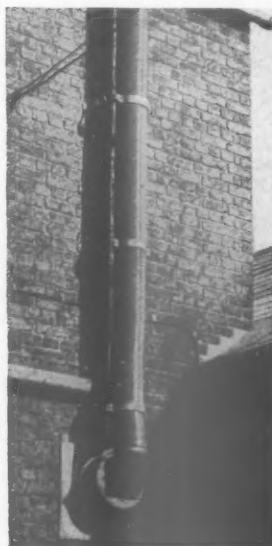
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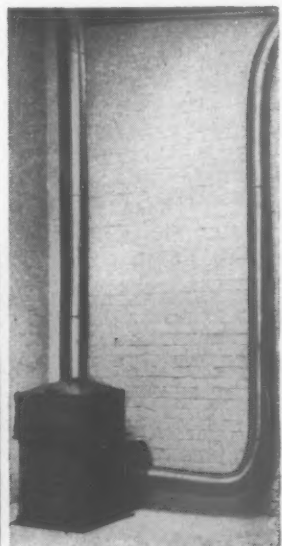
Head Office: 1/2 LANGHAM PLACE, LONDON, W.1.
Tel: LANGHAM 6807/8/9.

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* Fume extraction.



* Air filter showing arrangement of ducting free from joints.



SPUR

ADJUSTABLE SHELF SUPPORT

*for good looks
and functional efficiency*

Here is a scientifically-designed shelf support which has the strength required for industrial applications, yet is attractive enough for use in showrooms, libraries and the home. SPUR is scientifically-designed, simple in principle, easy to install and flexible in arrangement. There are only two main components — slotted U-channel uprights, and flanged brackets which key into the slots.



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Shelve those problems of support on

SPUR

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FLEXIBILITY OF ARRANGEMENT

The height of SPUR brackets can be altered without the use of tools whenever storage needs change. Alignment is automatic. Both right-angled and slanting brackets are available.

UNOBSTRUCTED ACCESS

No upright supports at front or side are needed with SPUR. This means a more pleasing design as well as easier access to shelves.

PRE-DETERMINED STRENGTH

Uprights are available in lengths up to 94½ in., and brackets are supplied in seven standard sizes up to a maximum of 18½ in. Loadings have been calculated for each size, and the largest will support 1½ cwt.



WALL FIXING OR FREE STANDING

The uprights are easily screwed to walls, but where free standing units are required with shelves both sides—in libraries or storerooms for example—double-sided uprights can be used. Special collars are available for fixing uprights to the floor and ceiling.

ATTRACTIVE FINISH

SPUR uprights and brackets are attractively finished in four standard colours: Willow Grey, Terra Cotta, Frost White and Jet Black. Alternatively they can be nickel or chromium plated, zinc sprayed or galvanised when required for special service.

RANGE OF FITTINGS

A full range of accessories such as shelf straps and book supports give the SPUR system added flexibility.

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Wall and floor tiling to new Cigarette Factory for Messrs. Gallaher Ltd., Lisnafillan.
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RICHARDS

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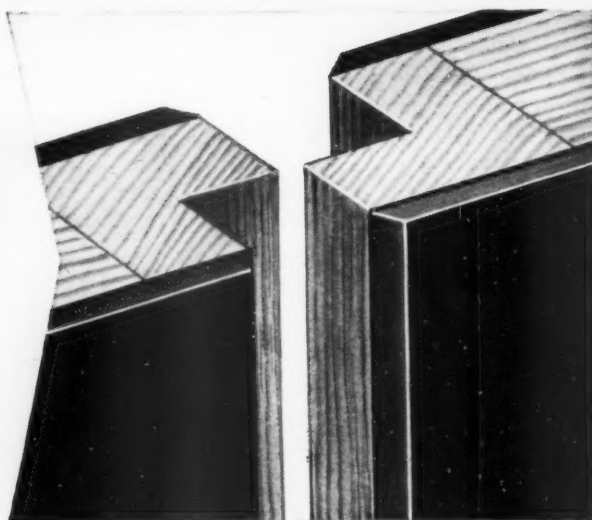
Ceramic Mosaic in new Offices for
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Architects: W. V. Betts & Son., A.R.I.B.A.

Decorative Tiling
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Architect: Halstead Best, F.R.I.B.A.



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Here's something **NEW** in partitions

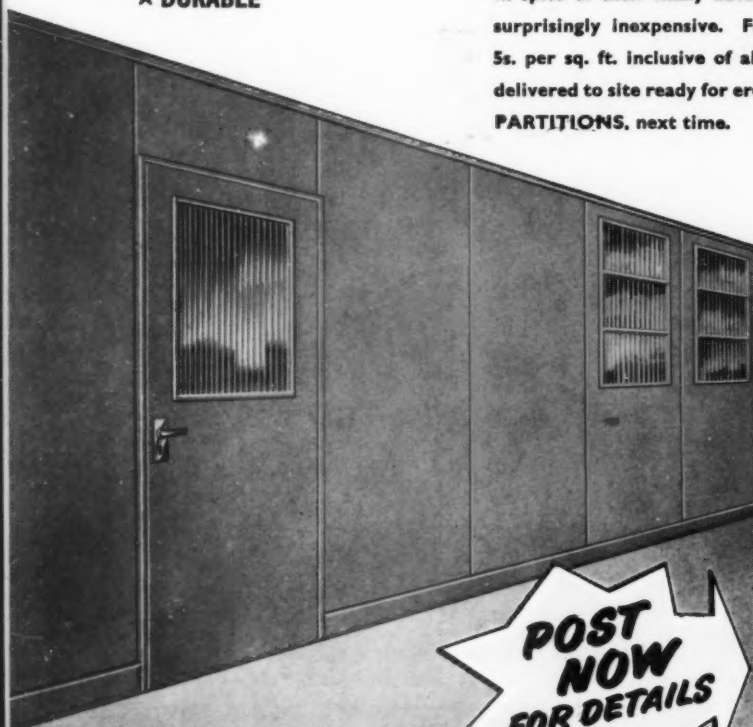


- ★ RAPID DRY-CONSTRUCTION
- ★ FLEXIBLE LAYOUT
- ★ DE-MOUNTABLE
- ★ LOW COST
- ★ HARD SURFACE
- ★ SOUND REDUCING
- ★ DURABLE

Thanks to their ingenious design, STRAMIT 'MOVAFLUSH' PARTITIONS can be erected really quickly. Whilst top and bottom edges of each hardboard-faced Stramit panel are finished with square timber, the long edges have an L-shaped member. This means that successive panels can be rapidly, easily fitted together to give a flush finish. These new, dry-construction partitions are simply placed on a sole-plate and secured, being fixed to one another with screws which are neatly seated in brass cups.

STRAMIT 'MOVAFLUSH' PARTITIONS comprise essentially the familiar and well-tried Stramit building slabs and so have all the advantages of Stramit. They are strong, rigid, fire-resistant and have remarkable sound-deadening properties. As STRAMIT 'MOVAFLUSH' PARTITIONS are faced with hardboard, they offer an exceptionally good surface for decoration.

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STRAMIT 'MOVAFLUSH'

-THE EASY-TO-ERECT PARTITION

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Please send me, without obligation, full details of Stramit 'Movaflush' partitions

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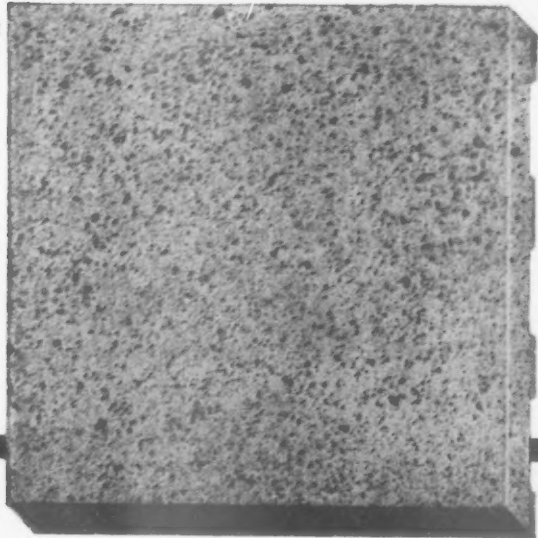
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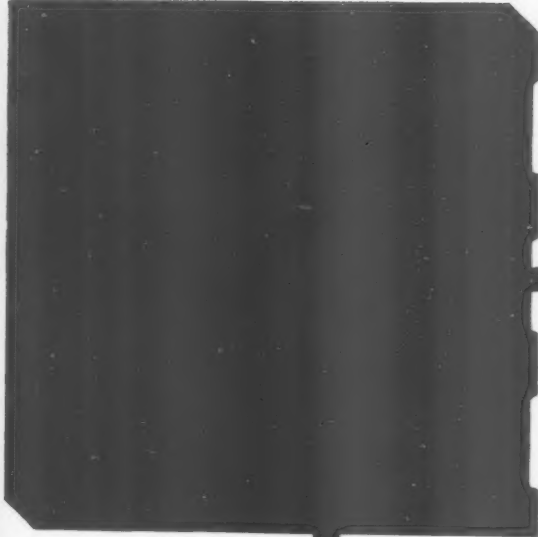
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DORSET STONE



DORSET RED



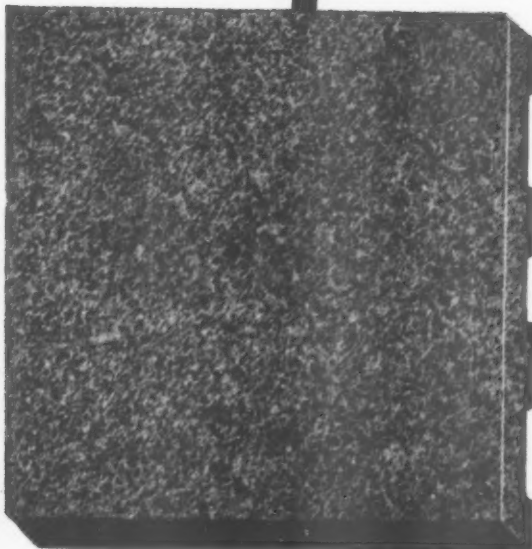
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FLOORS TO WORK ON

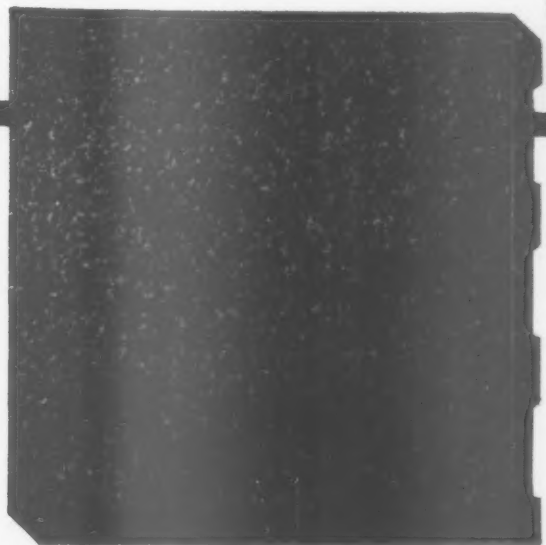
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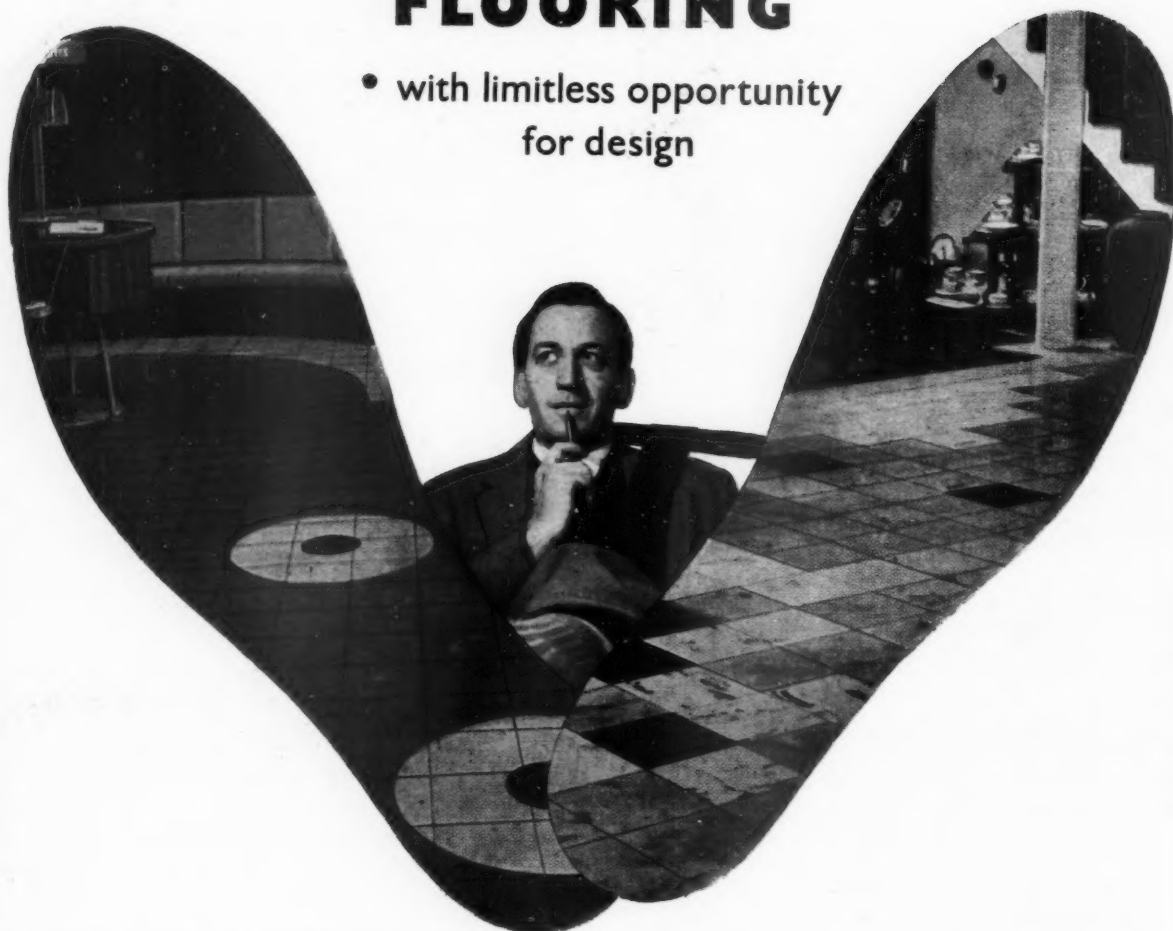
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Semtex, with over 25 branches, provides a complete laying service throughout the United Kingdom, including technical and design advice. There are also independent approved laying facilities in the majority of the principal towns. For full information write or telephone to the address below.

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The examples above show that Semtex flooring has been accepted as the most practical and decorative solution to flooring problems—(left) Dunlop Rubber Flooring at Tilbury Passenger Terminal —(right) Vinylex Tiles in a continental showroom.

CFH/BSE/S4

Shower Song

*Bending and turning and gaily carolling
Loving the feel of the tropical rain
Leaving to Leonard the job of controlling
Once she gets in she just wants to remain.*

*Gone are the quirks of the old fashioned mixer
Everything else but never just warm,
Thermostat Leonard is fitted to fix her
And keep the temp. fast at divinity's norm.*

"Keeping the temp fast" is just what Leonard control by thermostat does. It turns stone-cold and stinging-hot into steady warm-immovable until the bather moves it. It makes the shower, the Leonard shower, the best bath in the world. That's why the Leonard valve has come to be specified by architects everywhere not just for showers in hospitals and schools, but also in factories and mines and ships.

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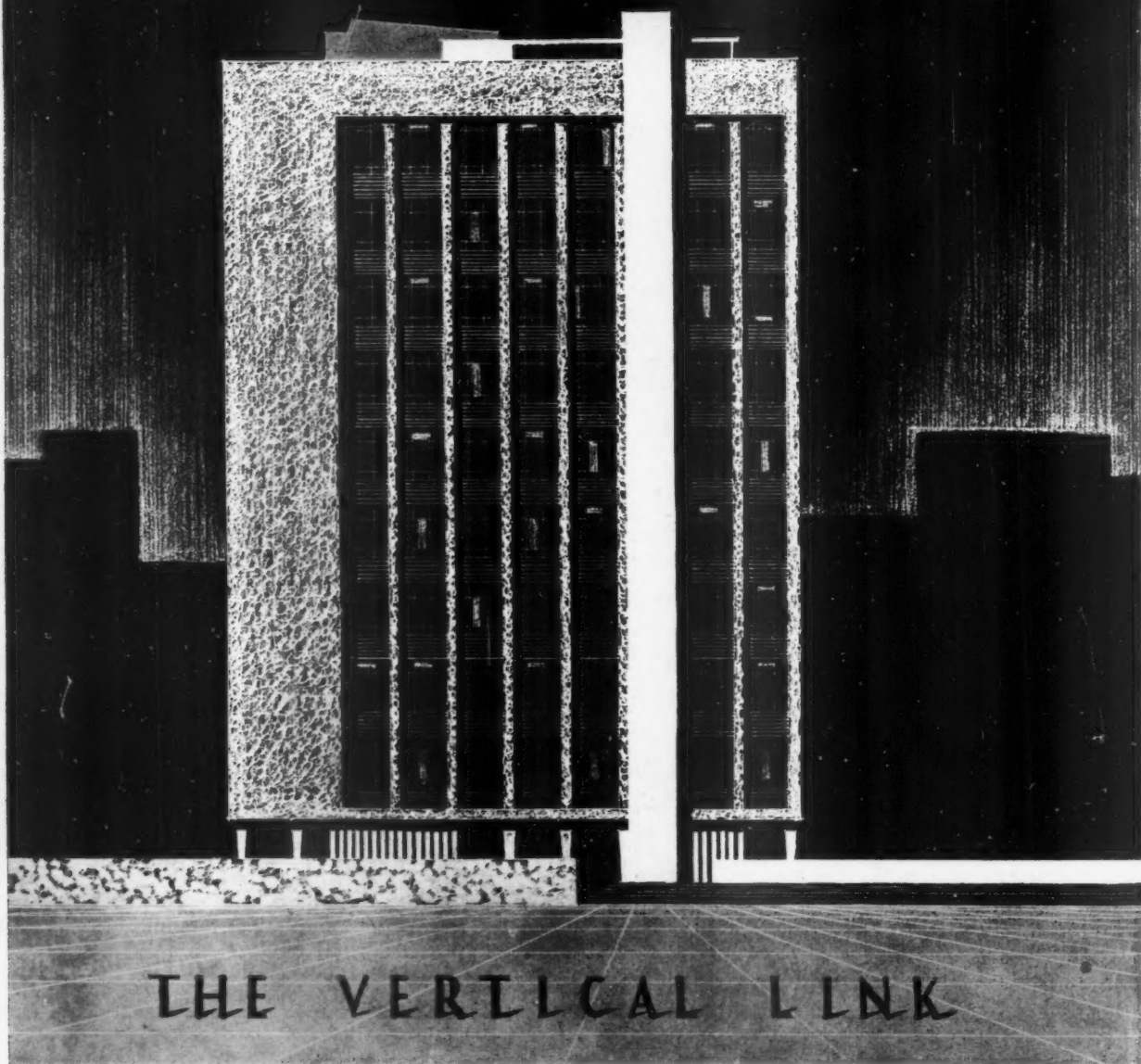
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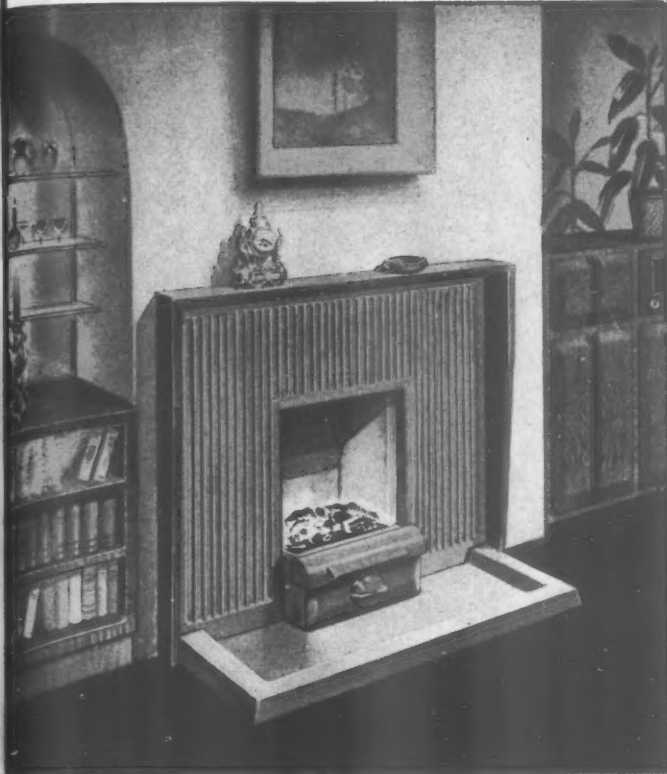


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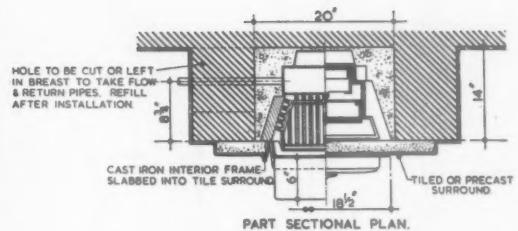
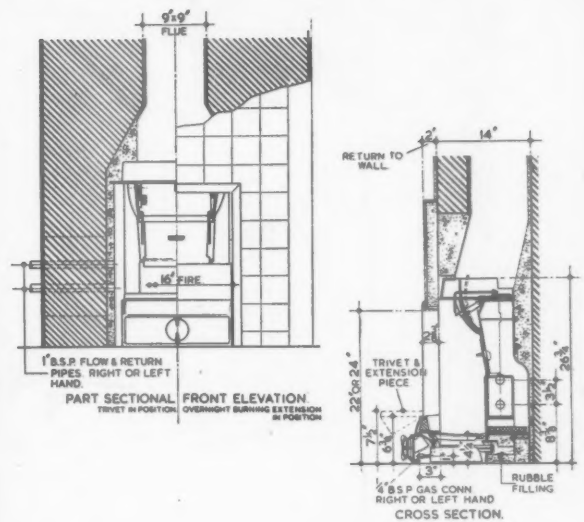


A good looking fire that keeps
costs down-**LOWBURN**



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

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



...with a special low front

Advanced design and a shallow front give the Lowburn Fire a very high radiant output, *at a low level*. This makes it much more effective than other fires of its type.

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AND OPTIONAL BOILER with self-contained flue set

The Lowburn is available with a back-boiler, which will provide ample hot water for the average household, *or* heat up to 45 sq. ft. of radiation surface. The boiler has an entirely self-contained flue set, complete with restrictable throat, to cut down room draughts, and save fuel.

Models available

- 16" fire with boiler, to heat 1,750 cu. ft.
- 16" fire without boiler, to heat 1,750 cu. ft.
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The high performance and low costs of a Lowburn, give it a special application in Housing Estate Schemes.

For full details of the Lowburn Fire, write to the Housing Division of:

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Makers of cookers, boilers, fires, stoves and baths.

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Ronseal is the seal designed to protect and prolong the life of floors. In just a few hours Ronseal hardens into a thin, tough coat that gives floors a lasting safeguard against wear, moisture and dirt, and provides a gloss finish.

Specify Ronseal for wood, concrete and thermoplastic floors, cork, linoleum and hardboard. In sizes up to 5 gallons.

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A RONUK PRODUCT

For information leaflet showing the many uses of Ronseal, write to:

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By Appointment
to Her Majesty
the Queen
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Manufacturers





This continuous run of hot- and cold-cupboards, complete with cash section and tea and coffee set, forms the counter of the staff canteen installed at the Bank of London & South America. The colours and appearance have been specially planned by Falkirk's designers to blend with the overall decor.

Falcon food service equipment in stainless steel

Falkirk provide everything for serving food in bulk, including hot- and cold-cupboards, countering, belt conveyors and set-up tables, sinks, cabinets, bins, pot-racks, and tabling.

The equipment can be supplied to any size or specification, to suit all kinds of catering establishment, large and small.

It will resist the roughest treatment, and conforms to the highest standards of hygiene. Heating, where applicable, can be by steam, gas, or electricity.



Hot-cupboards can be supplied with bains-marie, shown here with flush sliding covers to provide extra plating space. Frames are interchangeable, to take rectangular, square, or round containers.



Features such as this self-cleaning door-slide ensure the utmost cleanliness with Falcon equipment.

Falcon food service equipment is made by

THE FALKIRK IRON CO. LTD

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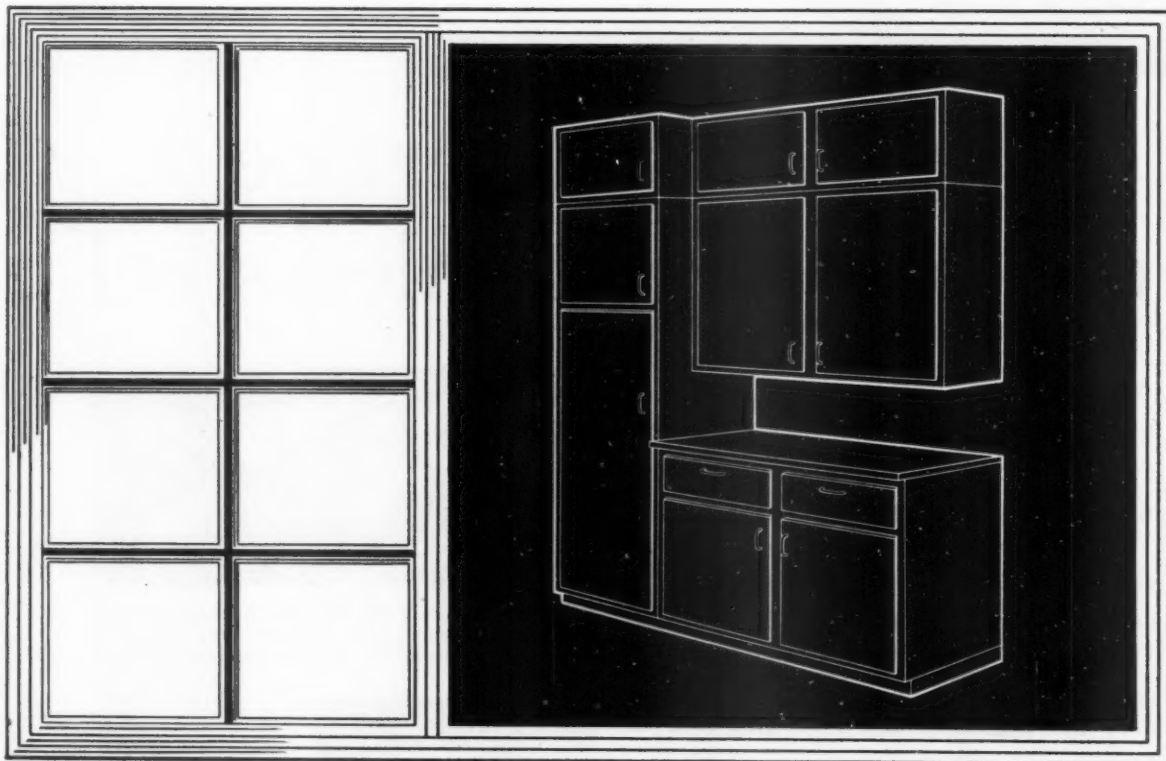
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SADDS

STANDARD FLUSH DOORS

of quality...and in five designs

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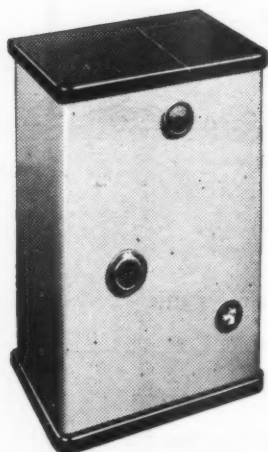
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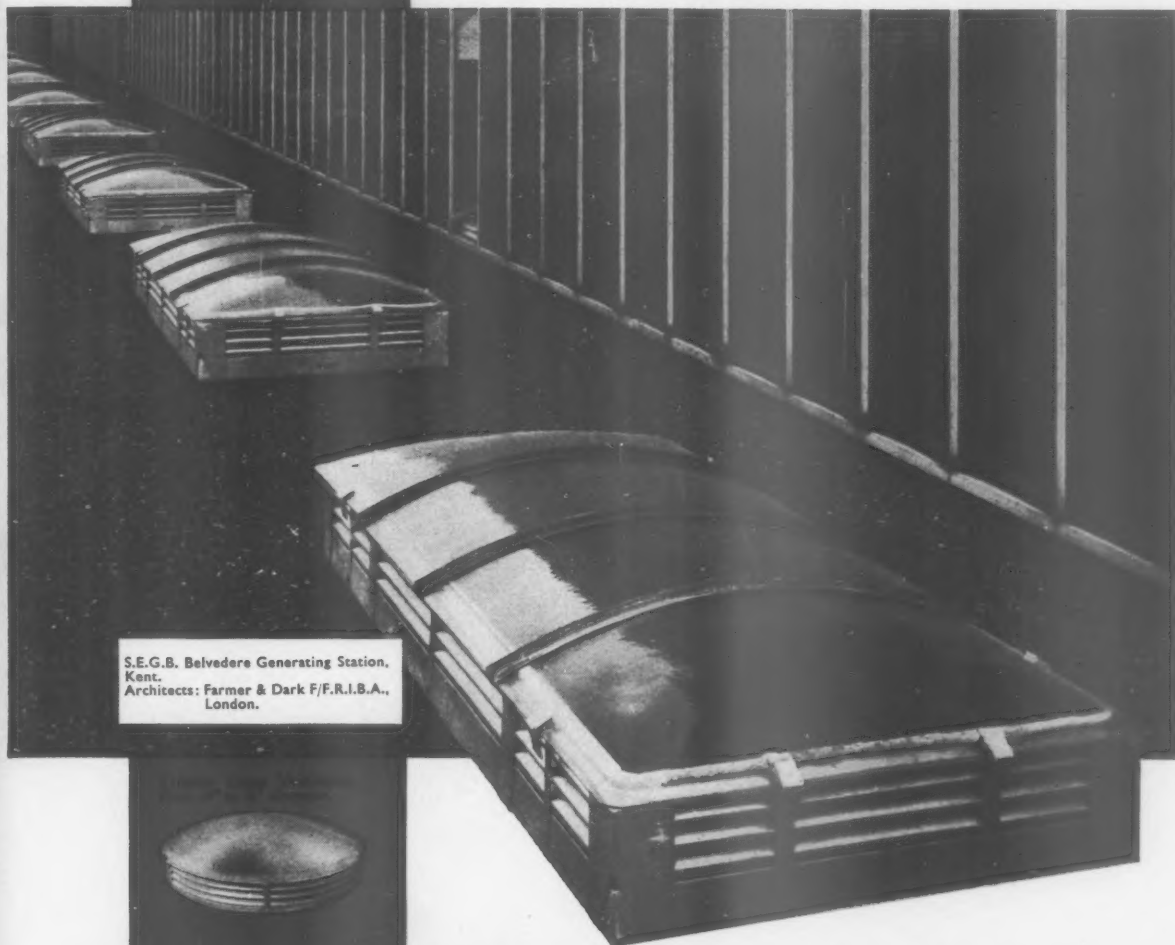
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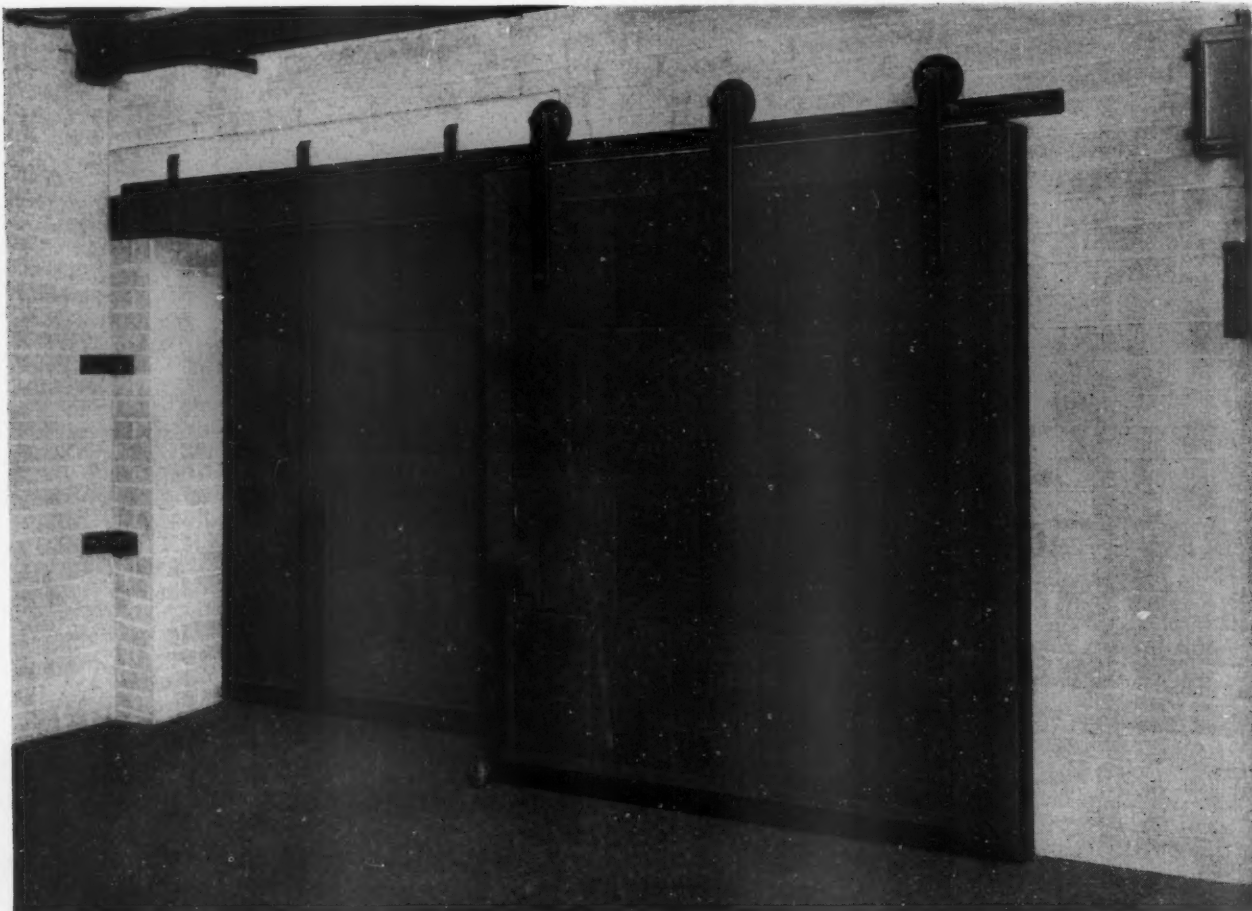


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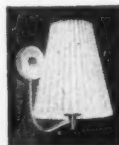
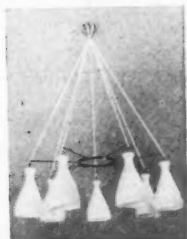
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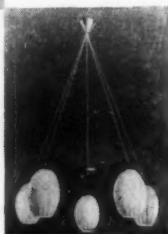
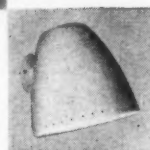
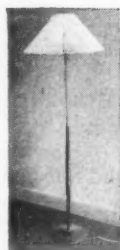
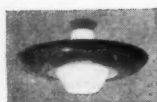
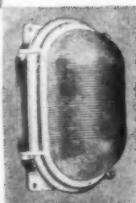
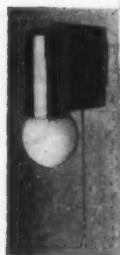
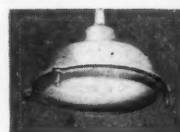
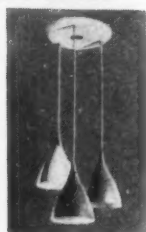
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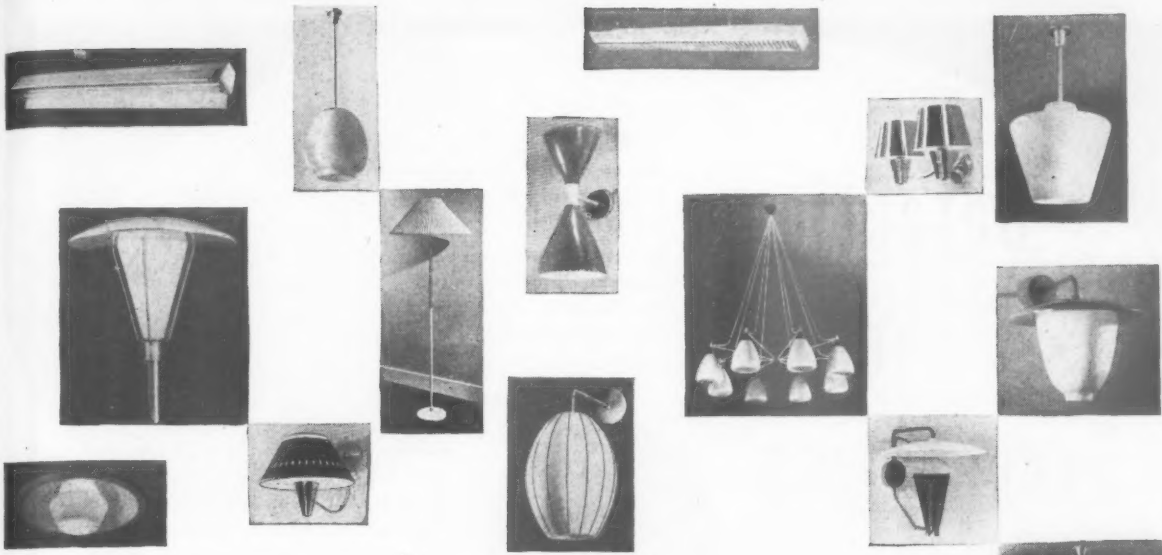
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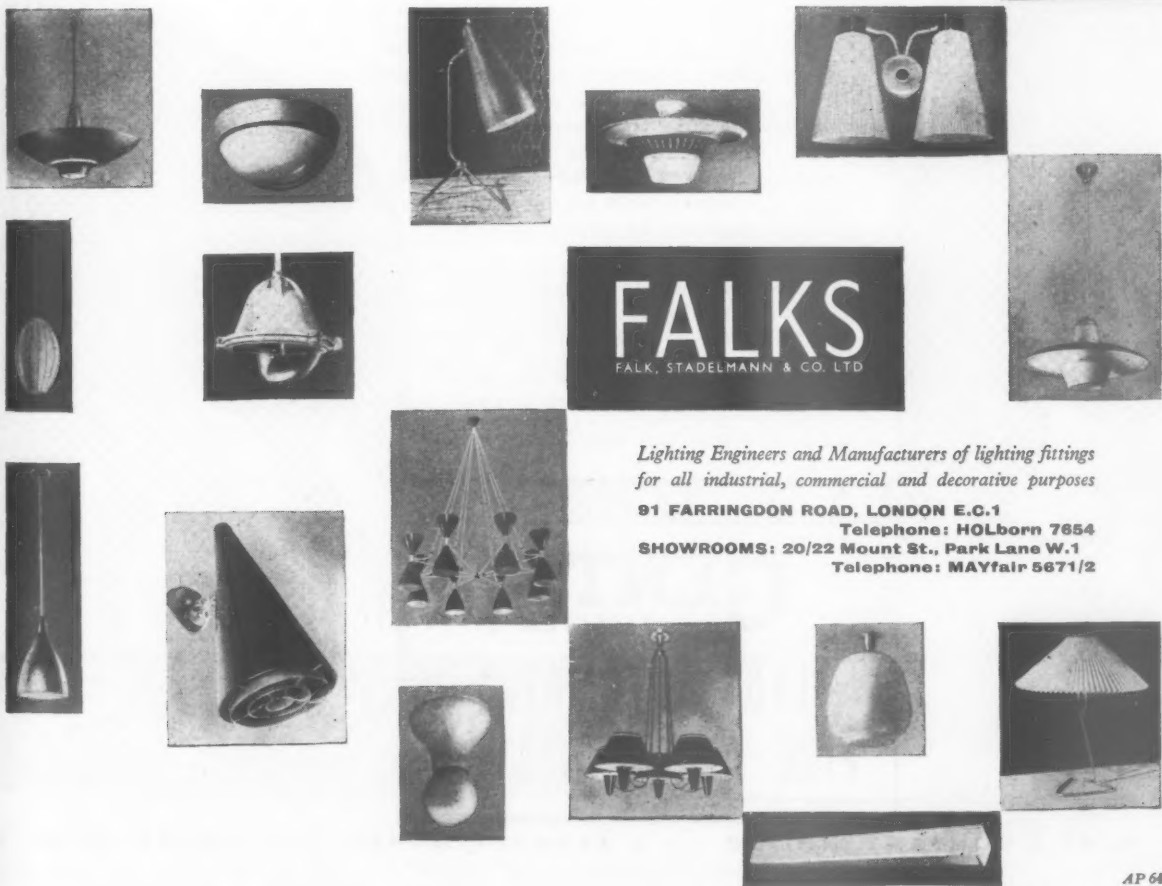
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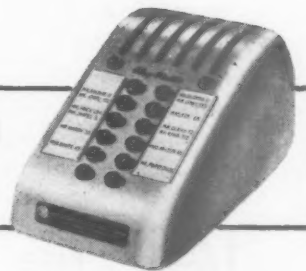
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The Common Brick

THERE is a tendency in most industries today to pay more and more attention to visual appeal. Manufactured goods of all kinds, from pots and pans to motorcars, are becoming more glamorous, and considerations of substance and performance tend to be overshadowed by external finishes.

In earlier days, a brick was a brick. No doubt some were better than others, and the principle of sorting for facing and backing must have been practised centuries ago, but during the last few decades, with the premium on aesthetic appeal, facings and commons seem to have moved far apart. In fact, in some works today, backing bricks are no longer simply a by-product of facing brick production; common bricks are specifically made as commons, by modern scientific methods.

Encouraged by architects and builders, manufacturers of facing bricks have steadily widened their ranges; new colours have been produced to whet the appetite of the designer; new textures devised to exploit light and shade. Meanwhile, the common brick has had to compete with various alternative materials for backing and inner-leaf construction. Some of these may offer some advantage so far as thermal conductivity is concerned, but experience has shown that one property alone is no criterion for the selection of a structural building material, and the common brick, with its all-round good performance, is regaining lost friends.

The common brick combines strength, durability and resistance to fire with reasonable standards of thermal insulation and sound deadening. It forms an ideal backing for rendering and plastering. Where walls are liable to receive rough

treatment, good, solid brick construction eliminates periodical repairs. Wall fittings may be easily and securely anchored, and cutting and chasing may be undertaken without risk of serious damage. Where good standards of hygiene are desirable, the common brick is a safeguard against infestation.

Internal skins built of brick have a greater ability to take up movement, and are not so liable to cause pattern cracking of plaster applied as a skim coat only. Further, the common brick is much more convenient and adaptable than larger units for use internally in buildings where there are large numbers of openings such as doors and windows. Cutting is reduced to a minimum.

For many parts of a building where the work is finally obscured, chimney breasts for example, the common brick has no serious rival. Colour washed common brick provides an attractive and serviceable exterior. Many grades of common brick have good loadbearing capacities, and may be bonded in with facings in positions where good appearance is not vital.

The common brick has no pretension to beauty, but it is the jack-of-all-jobs, proved by long usage, convenient, adaptable, economical and—even in these days of scientific building—quite indispensable.

(Reprinted from 'The Brick Bulletin')



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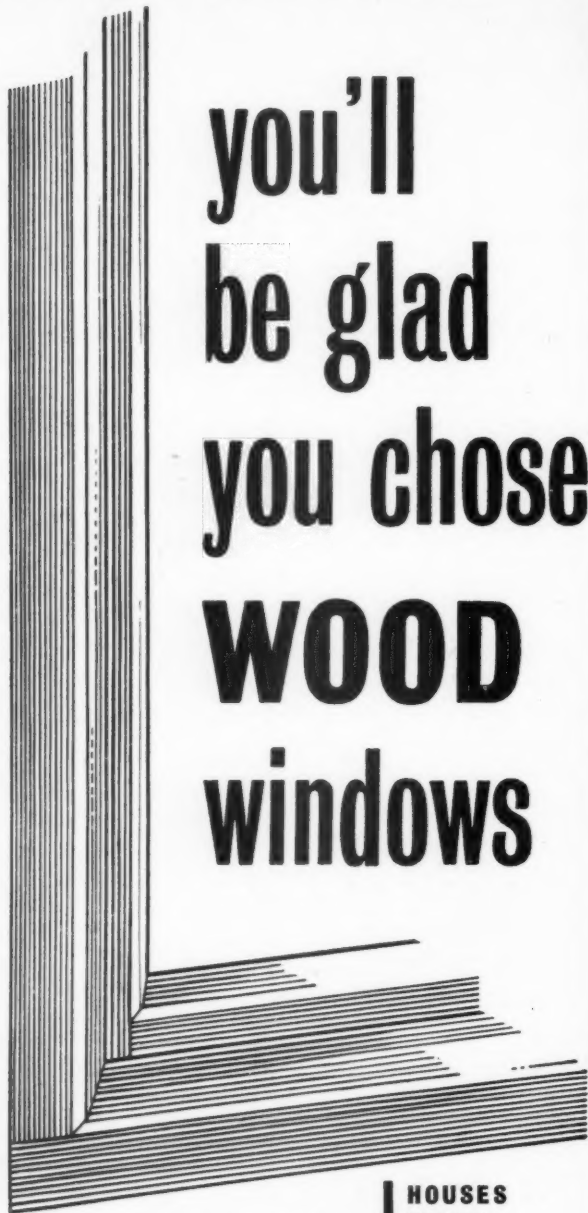
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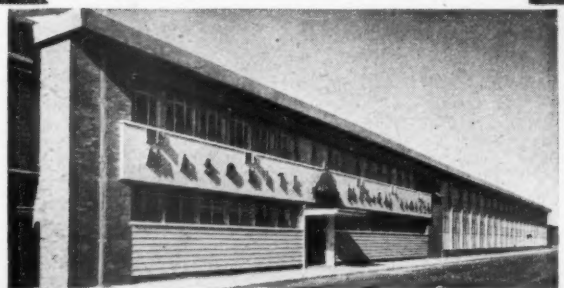
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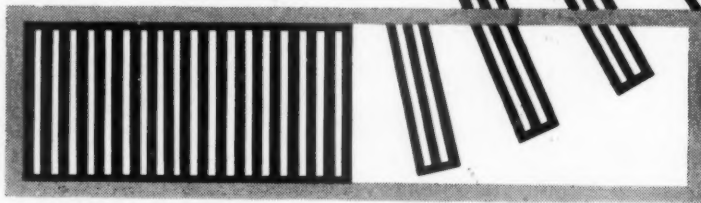
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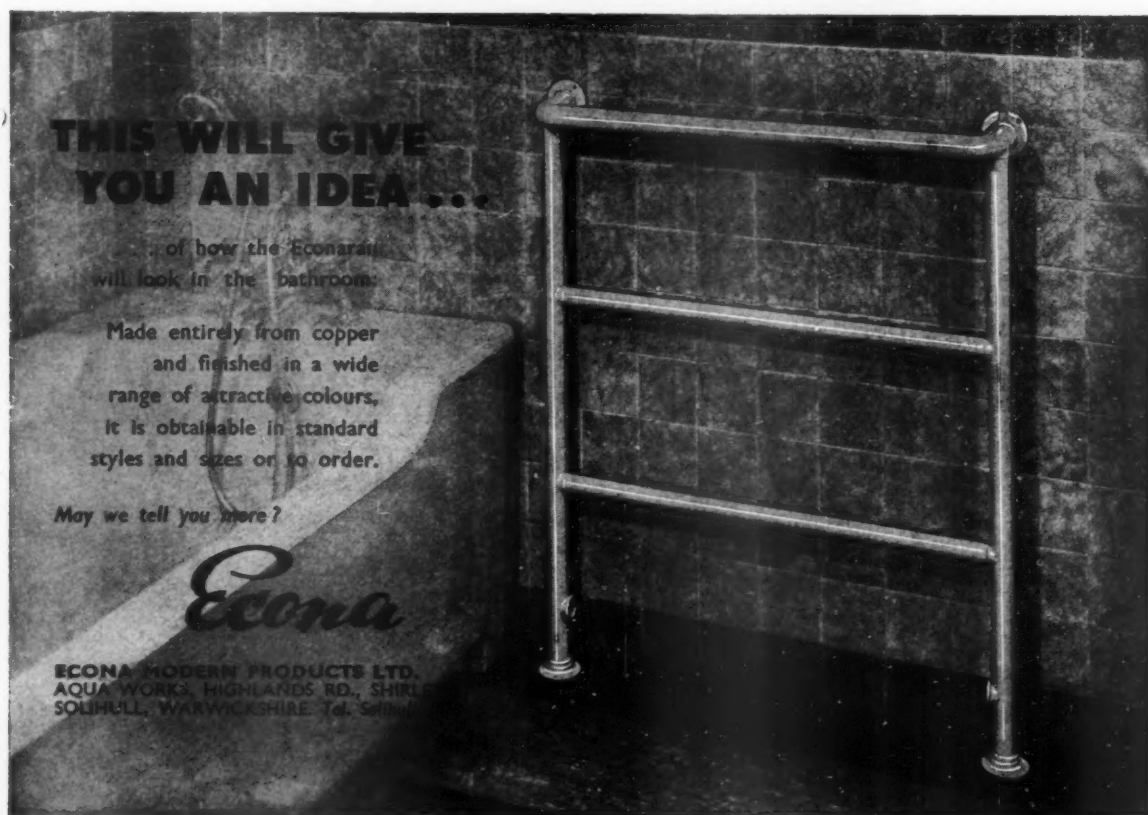
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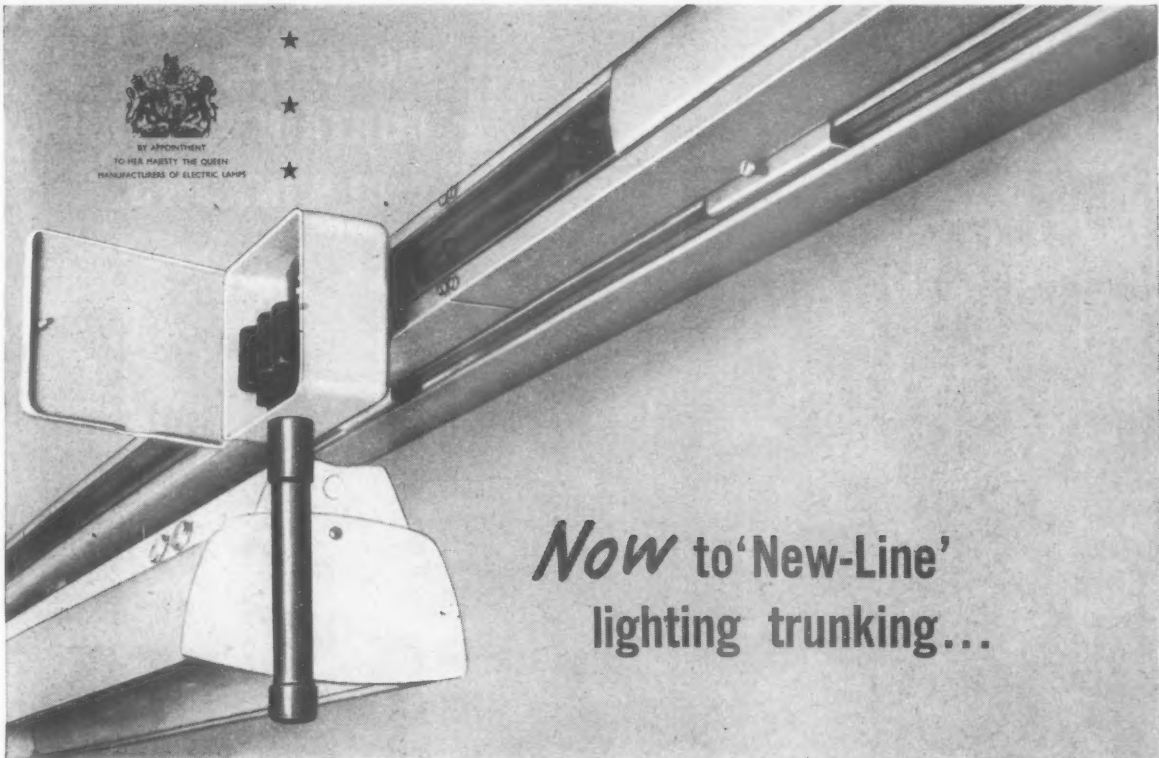
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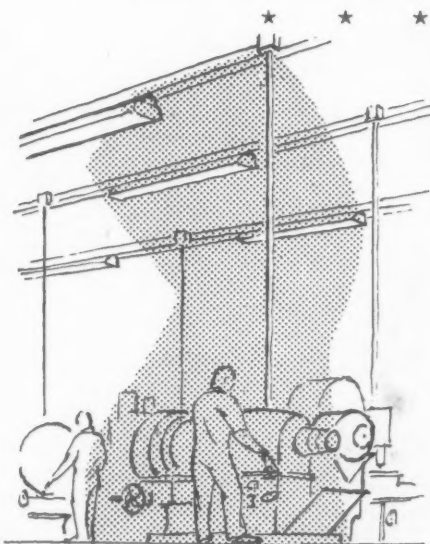
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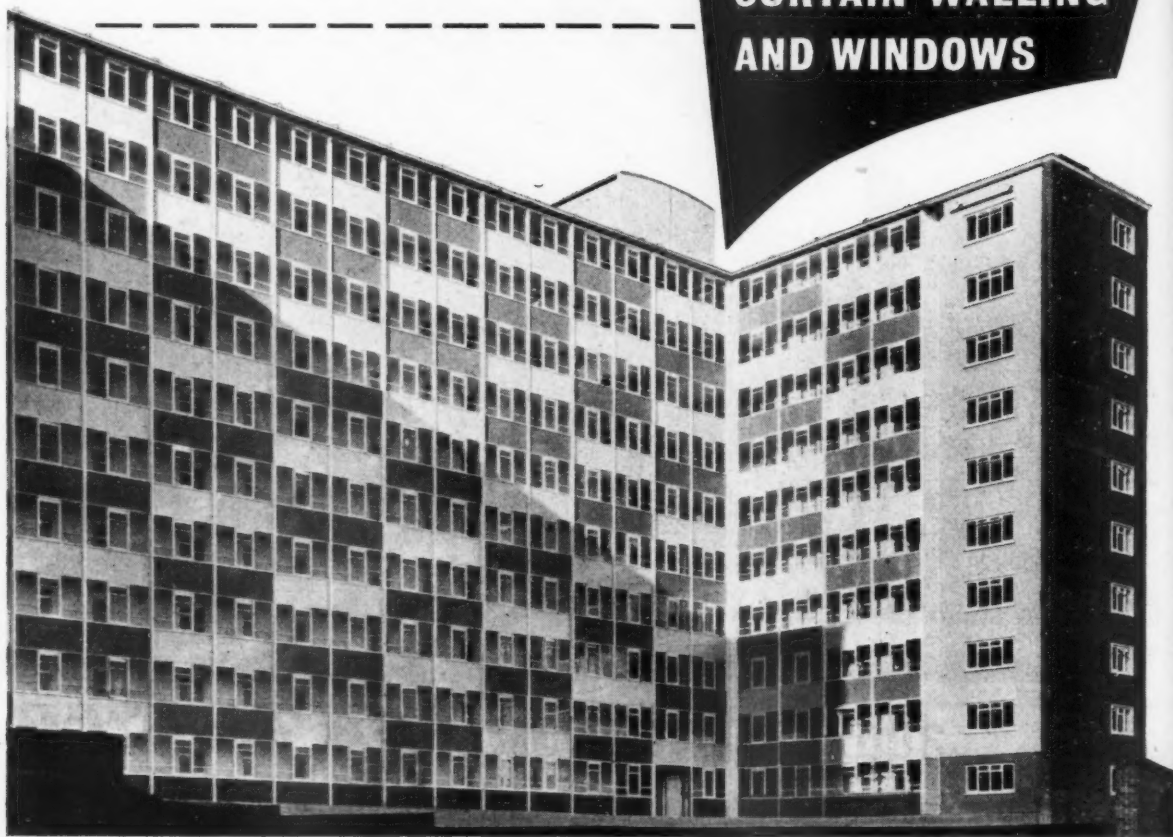
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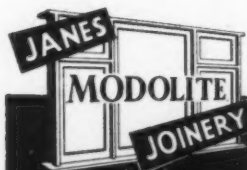
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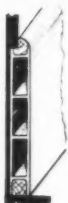
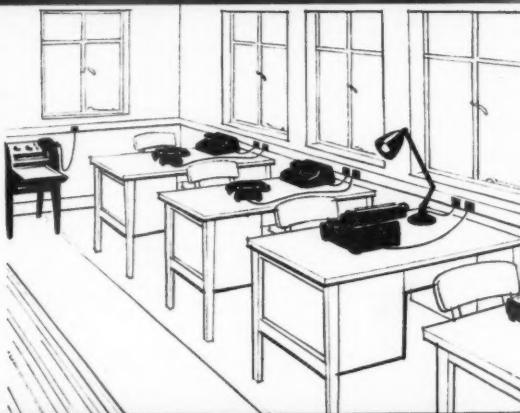


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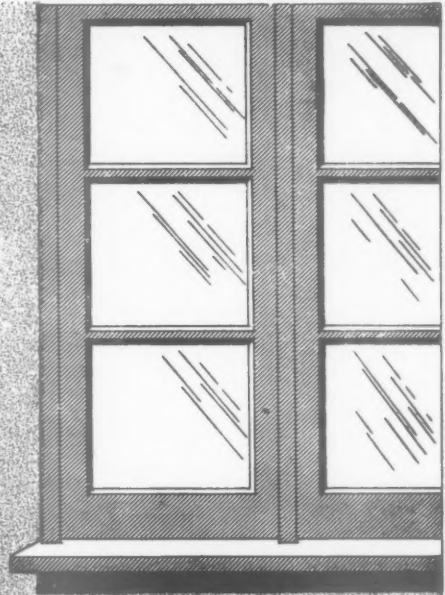
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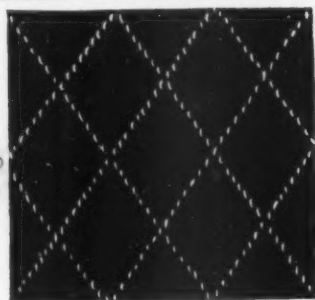
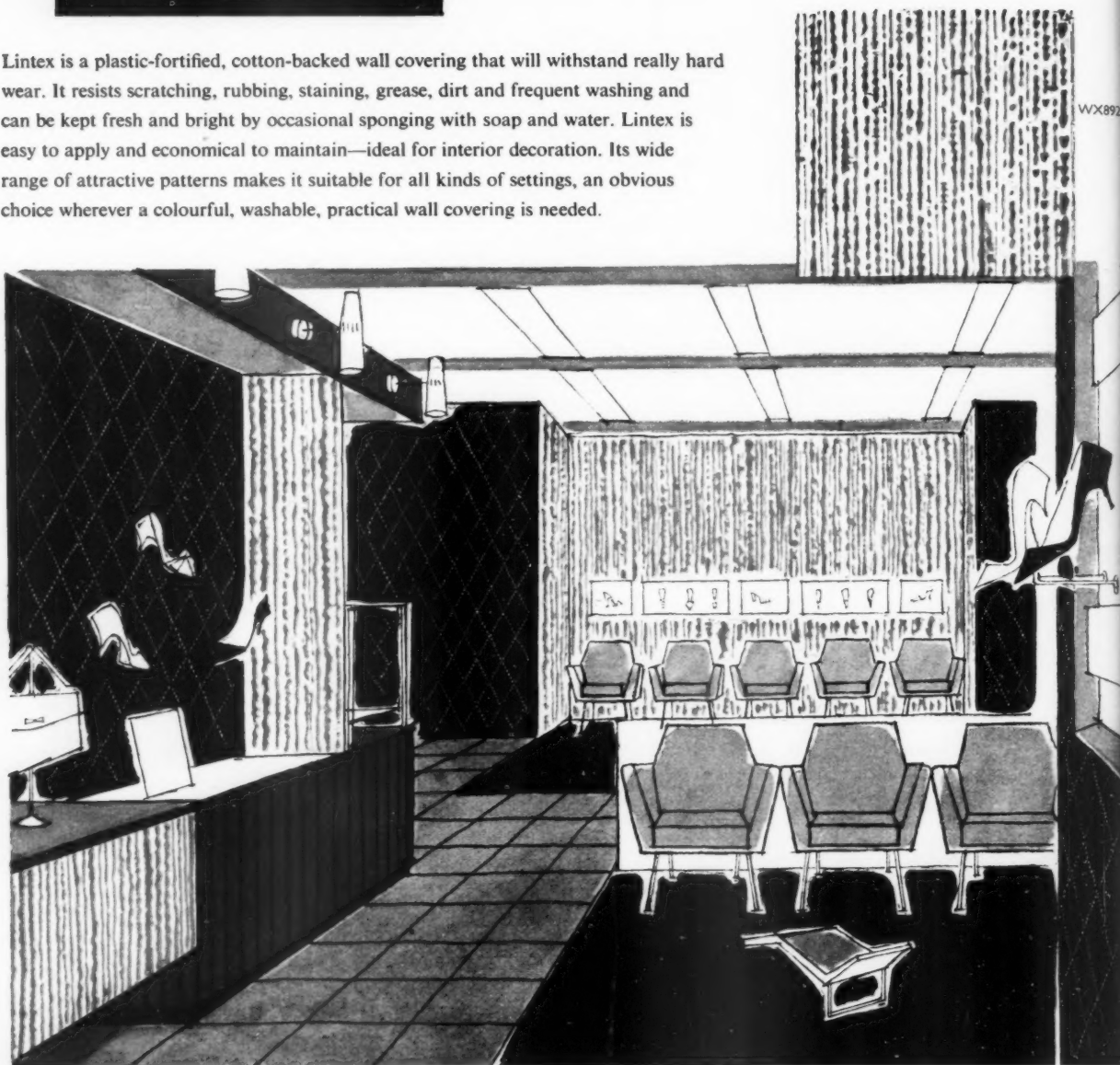
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The Architects' Journal

No 3338. Vol 129. February 19, 1959

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NOT QUITE ARCHITECTURE

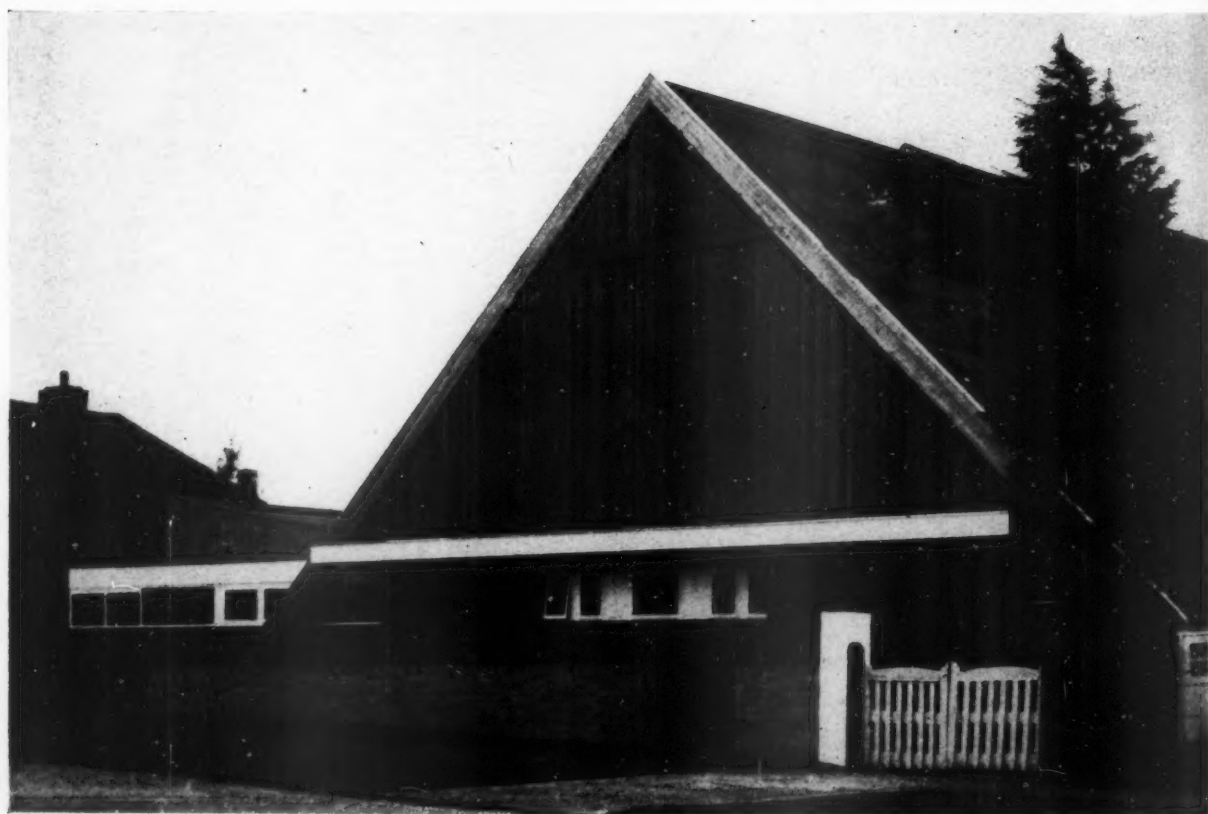
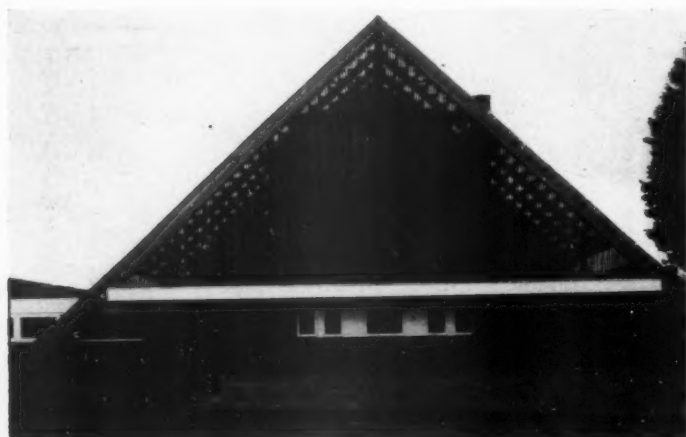
IF YOU WANT TO GET AHEAD—GET A MONKEY BUSBY

Eighteen months ago every other Chelsea girl was going round as a John model. Today, one major fashion change and a St. Laurent later, competition is running high all through London—but largely due to the establishment BAZAAR, a Kings Road boutique that is the best thing to come out of the RCA. And with the opening of its Conran-designed Knightsbridge branch—with the *prêt à porter* on the window more prominent than the establishment name—it is "in," as definitely U and fringe Establishment.

Clothes from here are so dramatic that a Monkey (as near Russian Black Bear as you can now get) busby and trim to a high-waisted black leather coat can turn the heads of a whole top deck. Maybe even the eyes of the bottom deck, but I cannot be in two places at once.

This is different from the treatment meted out to the short skirt if one, say, appears at 5 o'clock on a market day in Stockton-on-Tees. Mums with skirts a foot longer—and so *passé* they might as well be a yard longer—give one's legs and pointed shoes face and back-to-the-knees, the look that was last seen *en masse* round the Smithsons' *House of the Future*. It would be a brave girl who would wear coloured stockings as well. Particularly the nylon kind that cannot pass as "art school" going up (as they do) into pants to be as functional as "the white architecture of the Twenties"—as against wool stockings, gap, crazy craft fixing and so on; gim-crackery of the same order as a city office block.

However I am not disparaging the provinces—all our most potent stuff for every age group—be you a Mooreite or a Paolozziite comes from there. But I believe it is the fault of supply—clothing or what have you—and not demand. For example, "Modern"



A Face-lift

All too many buildings in Britain are structurally satisfactory but visually appalling, and financial resources are not available to enable them to be rebuilt. One such example was Emmanuel Church, Tolworth, Surrey (top left). Fortunately, in this case, funds were available to build alongside a church hall, and the architect, Kenneth Wood, insisted on using this as an opportunity for drawing a veil—in cedar—over the main facade. As can be seen from the photograph below cedar planks carry on the ridge line and pitch of the roof and form louvres which conceal the church proper except when viewed from directly in front (left). These louvres are held on 9-in. by 3-in. purlins which are supported by a laminated Douglas fir arch, from which hangs a screen of 1½-in. square timber slats. The result, however false, is more attractive than the original. There is, unfortunately, plenty of scope for architects in this type of camouflage.

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furniture of any kind is literally unseen and therefore unbought in the provinces, and when heard of has long order lists with long British-type waits attached. The demand is getting recognizably the better of supply.

I had to get out of the car in Edinburgh, so I removed my fur hat. (I was wearing a fur hat in a car because everyone had been getting in and out and opening doors.) Not removed, I repeat, because I expect Edinburgh or provincial cities to be behind London—not being a Londoner myself; and although our blunter friends had said straight out on Tees-side "You are not going to wear that thing and expect to go in here with us. Are you?" (no question mark)—but in deference to the place. It was one of the unspoilt stretches of George Street. When I came back to the car with my 2 lb. hairy Scotch, island-white-type wool and saw walking past pale blue trousers and pale blue boots I could have kicked myself, green suede boot straight into pale pink knitted for not having added my support.

Us girls must stick together. Supply and demand; the right client and the right article and æsthetic control would be a thing of the past.

MARGARET GILL

DIARY

Hampstead Civic Centre. Basil Spence at Hampstead Town Hall. New Hampstead Society. 8.30 p.m. FEBRUARY 20

Exhibition of Paintings by Bernard Myers. AA, 34/36, Bedford Square, W. C. 1. FEBRUARY 23-MARCH 20

Designing, Building and Sailing Yachts and Boats. Talk by Uffa Fox. RSA, John Adam Street, W.C.2. 2.30 p.m. FEBRUARY 25

Prague—Its Architectural Continuity and Unique Townscape. An illustrated talk by Walter G. Bor. AA, 34/36, Bedford Square, W.C.1. 8 p.m. FEBRUARY 25

Work Study Aids Builders. British Productivity Committee Film. Henry Jarvis Hall, RIBA, 66, Portland Place, W.1. 6 p.m. FEBRUARY 25

Le Corbusier. Lectures by Fello Atkinson and Harper Ellis. At the BC, 26, Store Street, W.C.1. 5 p.m. and 6 p.m. FEBRUARY 26

Exhibition of the Work of Arne Jacobsen. RIBA, 66, Portland Place, W.C.1. Weekdays 10 a.m. to 7 p.m. Saturdays 10 a.m. to 5 p.m. FEBRUARY 26 TO MARCH 25

Le Corbusier Exhibition. At the BC, 26, Store Street, W.C.1. Monday to Friday, 9.30 a.m. to 5 p.m. (Thursday till 7 p.m.) Saturday, 9.30 a.m. to 1 p.m. Sunday, 2 to 6 p.m. UNTIL MARCH 6

The Editors

CHOOSING AN ARCHITECT

PROFESSOR ARNE JACOBSEN, the Danish architect, may be given the job of designing the new St. Catherine's College, Oxford. Here is welcome news that Oxford, like Cambridge, is abandoning the conservatism which has done so much visual harm to both cities. We see no objection to the employment of foreign architects. Architecture is international, and a new building should be given to the man best fitted to design it. Whether, however, Arne Jacobsen is the best choice for the job (should he be chosen) will, unfortunately, only be discovered too late, when the building is finished, or when the clients are too far committed to withdraw. The reasons why foreign architects are not chosen more often for British buildings are surely that the foreigner has less experience of the client's requirements (particularly applicable in the case of that peculiarly British institution, a Oxford college) than a British architect, and has less knowledge of the British building industry. For a foreigner to be chosen, despite such heavy handicaps, shows that the client has very little confidence in British architects. Is that lack of confidence justified?

For Oxford to complain that they have had bad service from British architects in the recent past would not be entirely fair. Recent university architecture has been very bad, but that is partly the fault of the clients in making the wrong choice of architect.

This country is internationally famous for certain categories of building: in terms of value for money our schools are far ahead of Denmark and everywhere else. And our best housing is the equal of any in Scandinavia. Why, then, should Oxford University show its lack of confidence in British architects? It would be fair to assume that the generation of architects who made such a success of schools and housing could also succeed in other types of building, if given the chance. It must not be forgotten that British architects will not be able to acquire skill in university design unless given the opportunity to practise it. We hope the Oxford college authorities will only appoint a foreign architect, however famous, when they are convinced (i) that it is impossible to hold an international competition; (ii) that the results of the Churchill College competition support their views about the inadequacy of British architects.

The great problem with regard to university and college building, however, is not just the appointment of architects by individual bodies unduly jealous of their independence, but the need for a co-ordinated building programme to ensure that the resources available are used to the maximum benefit. There is little evidence that autonomous bodies are prepared to co-operate for the common good, or that the University Grants Committee has given sufficient support to its architects' department to enable any radical progress in university building to be made.



WHY WAS THE CIVIC TRUSSED?

"This," said Duncan Sandys, "is more constructive and more inspiring than hydrogen bombs and recruiting figures." He was speaking, on Thursday of last week, at the National Film Theatre, where an invited audience saw a preview of four BBC television films about the menace of Subtopia. The films, which were made in collaboration with the Civic Trust—the anti-Subtopia organization founded by Mr. Sandys in 1957—are being shown by the BBC at 10.15 p.m. on successive Tuesdays, starting this week. They were directed by Pamela Wilcox Bowyer and produced by Paul Johnstone, and they "star" A. Douglas Jones, who has done some lively work—as readers will know—as head of the Birmingham School of Architecture.

Mr. Jones is the Roving Enquirer who wanders among derelict service buildings in Pembrokeshire (*Any Old Iron*), slums and new housing in Birmingham (*A New Way Home*), the suburban outskirts of Tunbridge Wells (*A Road to Ruin*) and people who know how to lop trees without ruining them (*Spare That Tree*). The questions he is obliged, by bad scripting, to ask are sometimes incredibly naïve. He asks two children if they find Birmingham's flats "too modern." And in the tree film—which contains an ex-

cellent pep-talk by Peter Shephard—he consults a young Geordie about the subconscious motives behind teenage vandalism—after first making sure that he isn't actually talking to a vandal.

In spite of having to ask questions which are either naïve or clumsy ("Why are so many people indifferent to the welfare of trees?") Mr. Jones comes over as a television personality—and I'm not only thinking of the way he settles down, by film No. 4, into a casual foot-on-fallen-bough manner which suggests that a romantic song is imminent. But he is suppressed by the extraordinary technique the BBC have of mishandling the expert. It is absurd to call in a man like Mr. Jones and then to get someone else to write the script. Surely Douglas Jones would never have allowed the big laugh of the film, which comes when a city councillor suggests that Birmingham will become "one of the most beautiful cities in Europe." Nor would he have condoned the smart-Alec touch of closing this film about Birmingham's dreary-looking new housing with an unexplained shot of the Golden Lane flats. Anyway, why Birmingham, when there is much more imaginative housing in the country?

How much good can these films do? Colonel K. G. Post, the director of the Civic Trust, says in one of them that a handful of people can do a lot, if you make sure you get the proper right handful. This series will do well if it gets at the right handful in every town and city, and jolts them into forming a local amenity society. Let me remind you that anyone wishing to do this can seek the help—financial or otherwise—of the Civic Trust, at 79, Buckingham Palace Road, S.W.1. Incidentally, the Trust have just issued a well-written booklet called *Your Town*, which tells what an amenity society can do, and how it should do it.

WESTMINSTER SOCIETY

This publication coincides with the formation of an amenity society in a place no less important than Westminster. Last week the Dean of Westminster presided over the inaugural meeting of the Westminster Society, and the good-sized crowd that filled

the Blewcoat School in Caxton Street listened to speeches by Dame Edith Evans (born, raised, works and lives in Westminster) and (inevitably) John Betjeman.

ASTRAGAL is all for it—the more civic societies the merrier (and the bigger the chance that bad planning and building will be stopped in time)—but he hopes the Society will be constructive rather than preservationist. It must be willing to accept changes. Its task is to see that they are not changes for the worse, as is too often the case.

The Civic Trust will no doubt give this new society, and Mrs. Christensen, who brought it into being, all the support it can.

A LIGHT DINNER

Fifty years ago a diverse group of twenty-six men met in the Criterion, Piccadilly and formed a society to spread a knowledge of the principles of good lighting. Last week the highly successful Illuminating Engineering Society, which was the outcome of that meeting, returned four-hundred strong to the Criterion to eat a lavish five-course dinner and listen to seven speeches in celebration of their golden jubilee. And in 14 local centres, spread as far apart as South Africa and Scotland, 1,500 other members tucked into different food but listened, thanks to the GPO, to the same speeches.

The speakers were the appropriate top brass. The Dean of Westminster looked forward to what lighting engineers will achieve in Westminster Abbey (let's hope that there will be flexibility so that a variety of effects can be obtained); President C. C. Smith expressed a hope for the minimum time lag in the applications of results of research; Sir Charles (RA) Wheeler, melodiously accompanied by the chiming of the Guinness clock in Piccadilly, spoke of his dependence on illumination, which a painter might not have admitted; and Leslie (GEC) Gamage, although referring, naturally, to a hatred of gas, claimed that the British lighting industry led the world. Dr. G. B. B. M. Sutherland, Director of the NPL, stopped the audience from becoming too swollen-headed with praise by pointing out the inefficiency of the fila-

ment lamp, and how little we understood the mechanism by which the firefly sheds its light. He aroused the imagination by visualising a road surface which absorbed light during the day to emit it at night—a solution which would give the anti-ugly lamp standard boys a chance to relax—or would it?

LIVERPUDIANS IN LONDON

The re-formed Liverpool School of Architecture Society held its first dinner in the Tallow Chandlers' Hall, London, last week. This society was first formed in 1938, under the chairmanship of J. H. Forshaw, who very appropriately took the chair again, and by a clever choice of the eminent speakers available bridged most of the intervening years and gave a most propitious start to this potentially influential body. Robert Gardner-Medwin, the present Principal of the Liverpool School, described the work of the new chair of building science and the formation of an architect's office in the school. Paul Reilly reminisced very entertainingly about his remarkable father.

Sir William Holford was able, as no one else can, to list the careers of architects in at least three continents—one of the virtues of going to Liverpool seems to be that there is a Liverpool-trained architect stationed at the four corners of the world to welcome the traveller. Another virtue is that the products of the Liverpool School are hardworking and dynamic, at least so says Percy Johnson-Marshall, one of the LCC's planners, who goes back annually to seek recruits. It is a pity Liverpool City doesn't copy him.

ASTRAGAL looks forward to hearing more of this society, which was formed largely by the initiative of Robert Shaw. It would not be only the schools of architecture and civic design that would profit from the judgment and skill embodied in it.

DICTATORSHIP

Reigate Borough Town Planning Committee obviously take their duties very seriously and command respect, judging from a report ASTRAGAL has read in the *Surrey Mirror and County Post*. They have had assurances from two applicants who want to rebuild in the town that

designs submitted will be "Georgian in character" in one case (the architect agreeing, of course) and "in Tudor or Georgian style to harmonize with the general tone" in the other.

It is really amazing that this dictatorship over design continues with so little protest from architects. In some cases, of course, the architect is content to do bastard Georgian (it is only very rarely truly Georgian, of course) but one can't help suspecting that most of the time the architect daren't protest for fear of losing his livelihood. Would doctors protest if chemists or sanitary inspectors told them which drugs they could, or could not, prescribe?

BRUTALISM FOR THE BACKWARD

A little late in the day it seems to me

the Italians have got on to Brutalism, and the current issue of *l'Architettura* describes and illustrates the new buildings for the Istituto Marchiondi, a school for difficult children outside Milan, which is claimed to be Brutal. Its interiors look a bit too pretty, and crowded to satisfy English Brutalists (see my picture), but the exterior has a massive and rough-shuttered quality (some of the shuttering appears to have got permanently built into the concrete) that should satisfy anybody who likes their architecture tough and uncompromising, and looks as though it's made of timber rather than concrete.

It is interesting to note, too, that architect Vittoriano Vigano's Brutalism is fully underwritten by those responsible for the teaching programme

Italian Brutalism. See "Brutalism for the Backward."



at the institute. Not—as you might imagine—because there are no pretty finishes or delicate members to scratch and break, but because it is felt that this architecture is “stimulating, virile, admits the expression of the personality but frames it in a continuous discipline . . . prepares and guides towards a responsible life, and a tough one, but interwoven with strength and dignity.” Will someone in authority please nip over to Milan and have a look at it before our new prison-building programme gets too heavily committed to Institutional Contemporaneous, or whatever?

PETER GREGORY

People connected with any of the arts will miss E. C. Gregory, who died last week aged 71. Though his official job was director of Lund Humphries, printers and publishers, his life's work was helping artists and every kind of organization to do with the arts.

*

He was an enthusiastic patron, with enough discrimination to support artists when they most needed it, before they became known. His Chelsea flat overflowed with the work of young painters and sculptors which he never ceased buying, and he went on helping painters through the monographs on his work that he published—almost the only art books that put English publishing on a level with Continental. He was also the publisher of *Focus*, that lively periodical of the rebellious young architects of the late 1930s.

*

But his two biggest achievements were his endowment of the Gregory Fellowships at Leeds University, which have already brought great benefits to the holders of the fellowships and to Leeds, and the success of the ICA, which he helped to found and supported indefatigably.

*

His bulky, kindly figure was a familiar sight at ICA meetings, where he listened attentively to arguments on every possible topic. His interest never seemed to flag. He accepted no barriers between the arts, and architects, in indirect ways, owe him as much as anyone.

ASTRAGAL



C. D. Morgan, *Secretary, The British Road Federation.*

I. Macpherson.

Walter Segal, *Registered Architect.*

C. B. Martindale, *F.R.I.B.A.*

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Hon. General Secretary, South Eastern Society
of Architects.

Bronek Katz, *F.R.I.B.A.*

Urban Motor Roads

SIR: The Federation's “Town Roads for Today—and Tomorrow” exhibition which has just closed at the Institution of Civil Engineers, has attracted a great deal of attention in many quarters and we are well pleased. If, however, it had had no other effect than to lead your correspondent to write the review that appears in your issue of February 5, the exhibition would have served its purpose.

I would not agree with him that the Great Hall of the Institution was dominated by the American examples. Of the three sections—United Kingdom, Europe, US and the rest of the world—the last occupied something less than a quarter of the available space. What should have dominated the exhibition was the fact that the number of cars in this country has more than doubled in the past ten years and it is expected to double again by 1965.

We refuse to be regarded as philistines because we bring this fact to the attention of the public. The Federation strongly agrees with your editorial that the planning and design of motorways—whether they be in rural or urban areas—must be the job of design teams of engineers, planners, landscape architects and architects. The whole matter is one of almost overwhelming urgency. If, as you suggest, the RIBA and its supporters concert a policy and launch a powerful campaign to put it before the Government, among those lending a hand—either directly or indirectly—could certainly be numbered this Federation.

C. D. MORGAN
Secretary, the British Road Federation

SIR: Your editorial on the Town Roads exhibition raises some very pertinent questions. Perhaps the most bewildering one is what to do with the cars when the motorway has reached the city centre.

If each one of us comes to work in a car, still carrying its present average of under two persons, we are going to need not only office space but another space at least the same size to park the thing. This means that to take care of the future car owning potential the present floor area in central London needs to be doubled. There is a quotation in one of the handouts at this exhibition: “The penalty for not accepting and catering for the motor vehicle is the death of the city.” It looks as if life is only saved by an operation that entirely renews the patient.

America, with 80 per cent. of its travel by car, is a decade ahead of us, and, it would seem, rushing into a universal suburbia. Industries and offices are beginning to spread along the B ring road, a few miles out of town. Perhaps the city centre eventually decays to this suburban level, with the last few townsmen living an off-beat life in Hampstead. After all, even at two gross houses to the acre, a good suburban density, all of us can live within 50 miles of Lime Grove, itself suburban. It is, of course, a moot point whether we want to.

I. MACPHERSON

Leatherhead

Outrage at Ovington Square

SIR: I enclose for your information a copy of a letter which I had the pleasure of addressing to Mr. Ian Nairn, director of *Der Britische Heimatschutz* at the office of *The Architectural Review*.

WALTER SEGAL

London

The following is the letter referred to:

Herrn Direktor Ian Nairn
DER BRITISCHE HEIMATSCHUTZ
(Society for the Protection of
the Beauty of the Mother Country)
c/o *The Architectural Review*,
9, Queen Anne's Gate, S.W.1.

Dear Mr. Nairn: The Modern Outrage at Ovington Square, S.W.3 (*Moderner Vandalismus in einem klassischen Platz*).

It is amusing that you should wish me to read you: however, here are my thanks (for sending me a cutting from the January issue of the *Architectural Review* with your article) and my comments.

I am delighted to have "outraged" you. The feelings of those who, like you, have sympathy for the coarser forms of Victorian speculative builders' classicism deserve no consideration. In such areas I design on principle as if in vacuo.

I have always regarded your Counter Attack Bureau as the dreary British version of the horrid *Heimatschutz* on the Continent which lately made Giedion's life such a misery; and I thank you for giving me an opportunity of saying so. I myself had to go high up into the mountains where your elderly friends could not follow.

In 1959 *Heimatschutz* is an anachronism and its practice a philistine occupation like stamp collecting. Fortunately, unlike planning committees and your colleagues of the *Heimatschutz* abroad, you are quite powerless, however vociferous; but I shudder to think what would now happen to me if you and I lived in the Soviet Union where they share your taste for degenerate classicism. In Epsom your friends recently saved a young architect, Mr. David Dry, from committing an "outrage" against Polytechnic Georgian architecture; in Zurich I was aghast to see your colleagues force another architect to put a pitched roof on a curtain-walled office block to "protect the aerial view of the town." How do you and Mr. McCallum say? Yes, "different and sympathetic."

Guardati, Mr. Nairn, my next "outrage" will be committed in a Gothic Revival area and you are herewith saddled with a watching brief; and, maybe, one day I shall place a genuine Segal building right in front of your office window.

WALTER SEGAL

P.S. The vulgar "classicism" of Ovington Square which fills you with so much respect is, of course, "not protected." Otherwise County Hall would never have let me do what I did. In a few years' time other salutary changes will follow.

St. James' Church

SIR: Mr. Nairn indicts Professor Sir Albert Richardson in the *JOURNAL* for January 15, for his lighting fittings in St. James' Church, Piccadilly (the work at which, Mr. Nairn

says elsewhere, is "more convincing than in any of the other major repairs").

To many of us the outrage suffered by Mr. Nairn will be over-emphasized. We would respect him and your *JOURNAL* more if photographs were not taken deliberately to support an opinion. No attempt has been made to produce a reasonably coherent photograph of the interior of the church, as was done in the case of the other churches criticized.

C. B. MARTINDALE

Beaconsfield

Ian Nairn writes: If there had been more space I would certainly have put in another pair of general views. As it was, I especially wanted to show the effect of the light fittings and naturally, and quite deliberately, chose the viewpoints which were not distorted to support my opinion. That these were special cases was, I hoped, made clear in the caption. If this was not so, I'm sorry.

"The Economic Crit"

SIR: We vigorously applaud the article (February 5) "criticizing the critic" and would go so far as to consider this year's criticism as being totally inadequate for such an occasion and conspicuous in its paucity of fire, imagination and instructive expression. The criticism of 30 sets of drawings plus several essays for research fellowships took approximately 20 minutes and was terminated by a sigh of relief from the critic who indicated his non-enjoyment of the task performed. In short "crisp" statements the jury's comments were read to the audience, many of whom must still be suffering from blurred vision caused by the rapid switching of the accompanying slides. If the entries were so poor as the juries suggest, this alone implies the existence of abundant material for the gnashing jaws of an eager critic.

As for the phrases used, e.g. "pedestrian scale" (a definition of this phrase used in its application would be appreciated) and "it looks more like a factory than, etc., etc." one can only imagine that lengthy reference was made to that well-known publication, "Helpful terms for the Successful critic." We also endorse your statement that generally the standard of designs of students is higher than the bulk of the practitioners (compare the third and first designs in last year's r.c. factory competition).

Perhaps we were asleep when the vitality, instructive thought and inspiration were showered upon us; it seems at least it was heard by those who proposed the Votes of Thanks!

"HAPPY," "A PRIZE WINNER,"
"SQUIRREL," "BUCK," "RUSSKIN"
London

Counter-Attack

SIR: Referring to the article in the *JOURNAL* for February 5 on St. Paul's Church, designed by Jack Coia, I am extremely interested and somewhat dismayed by the opening remarks, i.e., "It (St. Paul's) is not only by far the best building yet to be seen in the New Town (the architectural standards of which are poor) . . ." etc.

I agree that the church is a most satisfactory structure, which, I may say, I recommended for approval by my Corporation, but I certainly take strong exception to the statement that "the architectural standards of the New Town are poor." The consensus of opinion of visitors, both technical and lay, to the New Town has been favourable to the architectural and planning solution of a most complex problem, and on two occasions we have been recognized officially, receiving the Saltire Award for my "contribution to the development of the Scottish Tradition in Architecture."

At no time, to my knowledge, has a representative of your *JOURNAL* paid a visit to Glenrothes although *The Builder* and the *RIBA Journal* have been represented here and have produced articles which, in my opinion, do justice to the New Town. Finally, I do appreciate criticism in all architectural design; otherwise I would not have subscribed to your *JOURNAL* over the last 30 years, but please let us have constructive observations and not destructive and ill-informed remarks publicized.

P. TINTO

Chief Architect and Planning Officer,
Glenrothes Development Corporation.

The Editors write: We publish below two of the photographs sent with Mr. Tinto's letter, to allow readers to form their own judgment. Four representatives of the *JOURNAL* have visited Glenrothes on various occasions (though not formally), the last time being in October last, when St. Paul's Church was visited and photographed.

The photographs referred to by Peter Tinto.



A Critic of Le Corbusier

SIR: I have found that although architects will give some consideration to lay criticism of their own work, they will give no consideration at all to such criticism of the great masters (*sic*). However, I cannot let this deter me from commenting on the Third Programme's recent prevaricating discussion on "Le Corbusier and the future of Architecture."

The majority of the many architects I know are to varying degrees disciples of this great master. Although I have heard them criticize his work it has been timid compared with their stronger and surely healthier criticism of other eminent men. Why is there this contrast? Is this the humility of small men faced with what seems to them to be genius?

The anguish I felt at the first (published) sight of Ronchamp has grown into a deep fear for the future of architecture. Architects, educationists and students must realize before it is too late that their true purpose must be service to the people. They must not let themselves be sidetracked into dead ends paved by geniuses—for whom there is no place in architecture. If they continue to allow themselves to be influenced by Le Corbusier at this rate then their work will no longer be creatively uplifting but a wilful abdication of responsibility. They should examine more critically the work of Le Corbusier to see that he designs entirely for himself and that the needs of the people are subordinated to (in his own definition) his "poetry."

If he must be a poet let him write verse, and leave architecture to those who respect humanity.

(MRS.) KATHIE LEEDS

London

Churchill College

SIR: The list of architects for Churchill College seems to be one of the most significant steps in the recognition of the modern movement in this country.

That such an apparently conservative body as one would expect the Trustees to be could produce a list which assures us, almost without exception, that whoever wins will design a building which will make a real contribution to the national and even international architectural scene, is news indeed.

Although with an open competition the unsuccessful competitors receive no fee, it seems in this case that even token remuneration for the first stage could have been expected. Obviously much midnight oil is going to be burnt before April 13 and the bigger firms who will be able to spread the load better will have an unfair advantage over some of the two-man bands who probably have other commitments to honour and are not in a position to recruit a temporary staff of assistants.

R. D. BUTTERELL

London

Preston Motorway

SIR: ASTRAGAL'S column often makes amusing reading but occasionally I am led to wonder how much of ASTRAGAL'S amusement is based on misinformed opinion, as in his final paragraph referring to Preston by-pass (AJ, January 29).

Unfortunately, the carriageways of the by-pass are not made of concrete so his German friend's remarks are inappropriate, and anyway the addition of an anti-freezing admixture to concrete as suggested would have no further effect once the concrete set.

Liverpool

J. PROUDLOVE

ASTRAGAL replies: Mr. Proudlove is quite right, but I am not really as uninformed as he supposes. The only purpose of the quotation by the German engineer was to show that in Germany they seem to be able to build roads in bad weather without suffering subsequent failure.

RIBA Meeting

SIR: My Executive Committee have asked me to write to correct an apparent false impression which has been created by your report, published on January 15, on the Special General Meeting held on January 6 at the RIBA.

That report suggested that there has been a change in the views of this Society, but that is not so. Our intention was, and still is, that those members of the Council who are elected should all be elected regionally and the composition of the Council would be those so elected and the Honorary Officers and Ex-Officio Members to whom we make no objection.

The views of my Council were contained in a letter addressed to the Secretary of the RIBA dated January 15, 1959. This informed him of the re-affirmation of the motion tabled by R. Duncan Scott in April, 1958, but with the word "largely" added to signify my Council's agreement to the recommendation concerning Honorary Officers and Ex-Officio Members.

DUDLEY W. JOEL,
Hon. Gen. Secretary,

South Eastern Society of Architects.

Croydon

The Editors reply: We are happy to publish this correction, arising from a report which accurately conveyed the discussion at the meeting, where it was said that the SE Society's motion for a "wholly" regionally elected Council had been amended to read "largely."

Washington Hotel

SIR: In your article on the Washington Hotel extension in your issue of January 22, you omitted to credit Glen Rees as designer of the interior decorations and furnishings of the bedrooms and corridors.

BRONEK KATZ.

London



BUILDING DESIGN

Study Group's Views

The need for more searching investigations into building design and costs is the theme of a Memorandum sent by the Royal Institute of Public Administration to those government departments which oversee the building programmes of local authorities. The proposal is that Development Groups, modelled on that so successfully used by the Ministry of Education for schools, should be set up to investigate other types of buildings erected by local authorities, such as housing, flats, libraries, police-stations, children's or old people's homes, clinics or municipal offices. The proposal is the outcome of the work of a Study Group of the Institute into the "Organization of Building Construction and Maintenance by Local Authorities."

"A Development Group" (a statement by the Institute states) "provides the opportunity for a small team to devote more time and resources than is normally available for the study of the requirements of a particular type of building. It consists of architects, quantity surveyors and such other technical staff as the project may require who work in the closest collaboration with those who have first-hand experience of the use of such buildings. These would be teachers, doctors and nurses, welfare, children or police officers, according to the type of building. The aim of the team is to carry out a more fundamental analysis of user needs than time in a busy local authority office normally permits, and then by design and cost analysis to find solutions which provide a building better suited to its purpose, and giving better value for money."

"The success of the Ministry of Education's pioneer work has shown the importance of allowing the teams to carry out actual schemes on behalf of local authorities, so that their ideas may be put to the practical test. The experience so gained on a building typical of its kind is then published in detail for the benefit of other authorities. The bulletins of the Ministry of Education, based on the work of their Development

Group, have been of great value to local authorities, and similar searching investigations into needs and costs would be valuable for other types of building.

"The Study Group recommends that similar Development Groups should be set up in collaboration with the local authorities."

ST. CATHERINE'S, OXFORD

Arne Jacobsen to Design New College?

It was announced in Oxford last week that Arne Jacobsen, the Danish architect, is expected to visit Oxford this week to discuss the possibility of designing the new St. Catherine's College. He is coming to England for the exhibition of his work which opens at the RIBA on February 25. The college, to be built in Holywell Great Meadow, is expected to cost £2,500,000.

The Censor of the College, the historian Alan Bullock, and others responsible for selecting the architect, are known to have been considering the names of a number of British architects of the modern school, and to have seen some examples of their work, but not in the universities. A committee of the Hebdomadal Council of the University recently went to Denmark to see examples of Jacobsen's work. His best known buildings are the town halls at Aarhus (in conjunction with Eric Moller), Sollerod (in conjunction with Flemming Lassen) and Rodovre, and the new (but not quite finished) airlines terminal and hotel at Copenhagen, the last being an 18-storey tower block rising from a low podium.

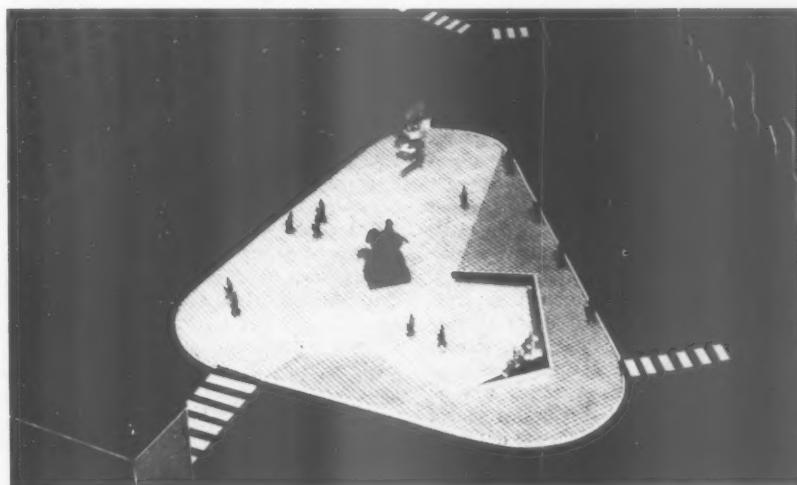
IEE

Disseminating Information

The Institution of Electrical Engineers, which is to the forefront in organizing and presenting well-documented information to its members, held an informal meeting on February 9 to discuss the dissemination of technical literature. The IEE having to a large extent dealt with the problem of collecting the results of the electrical engineering profession's experience, the discussion largely centred on the greater need in the future for organized information services. Such services would be concerned to select only the most valuable material and present it in a form which is easier to use, together with the production of up-to-date "aids to finding information." Experiences with punch cards, a working group currently studying the presentation of technical information, standardization of documents, well-organized indices and better working libraries were also mentioned. One engineer shook the meeting—and the IEE's world-wide reputation—by describing the greater ease of finding information in German and Russian libraries, compared with the IEE. The discussion emphasized the needs of young scientists and engineers who are least equipped to deal with the problem of



Students of Leeds School of Architecture, dismayed by the layouts for Leeds City Square submitted to the City Council, one by the City Engineer (D. Currie) and the Director of Parks (L. G. Knight), the other by the City Architect (R. A. H. Livett), submitted a layout of their own. Their intervention achieved its immediate aim: councillors inspected the students' model, and having done so decided to refer the whole question back to a committee for reconsideration. Top, the City Engineer's "grass and trees" layout ("sentimental and impracticable," say the students); above, the City Architect's layout ("it looks like something from a housing estate"); below, the students' layout. All layouts retain the statue of the Black Prince. Only the students retain eight nude female figures representing "Morn" and "Even," which, they say, are the only things that give life to the square; they suggest a concrete paving, a sunk seating area, lighting from pavement level, and a moving, cascading fountain. Of the two official schemes the West Yorkshire Society of Architects preferred the City Architect's, but pointed out that the planners had been unable to consider total replanning for traffic flow and pedestrian subways. The students also feel that a fully comprehensive scheme is needed, taking the railway station and the road system into account.



finding and using information. As the output of information increases yearly, it was evident from the discussion that there will be a great need for information services which organize knowledge for the user. This means, in effect, more careful selection of the most valuable material, which can only be done by a central organization or a professional institute, or support for the standardization of the means of dissemination and the simplest form of storing and filing for the user, with the addition of more "aids to information," indexes and abstracts.

D. B.

RIBA

President's Tour

Basil Spence, the President of the RIBA, C. D. Spragg the Secretary, and Mrs. Spence leave London Airport on March 4 for their African tour.

CIVIC TRUST

Amenity Awards

The Civic Trust announces the inauguration of the Civic Trust Amenity Awards organized in conjunction with the County Councils: The objects of the awards are: (a) To encourage good local architecture and building of all kinds which can be said to make a desirable contribution to the civic and rural scene as a whole. (b) To stimulate interest in all other types of physical development making a desirable contribution to the civic and rural scene as a whole.

Two classes of award will be made in each administrative County in the United Kingdom participating in the scheme: *Class I*—For the new building or group of buildings in which regard has best been paid to relationship with natural surroundings, any older buildings in the neighbourhood and the character of the local scene. *Class II*—For the improvement making the biggest contribution to the local civic or rural scene as a whole—for instance, the landscape treatment of a park or open space, the design of a bus shelter, the exterior decoration of a street, a road improvement scheme, or a scheme of restoration for an historic building or group of buildings. The awards will be made triennially. The first series will be made in the autumn of 1959 and will cover buildings and improvements completed during the period May 31, 1956, to May 31, 1959.

Independent assessors will be appointed by the Civic Trust, one to each County participating, on the advice of the RIBA. Assessors will consider all entries within their areas from the photographs and drawings submitted; they will make their final awards after visiting such buildings and schemes as they deem appropriate. Assessors will be authorized to withhold the awards should they consider that submissions are not sufficiently worthy of public recognition. Their decisions will be final.

Entries may be submitted by an owner, an architect or designer, or a contractor or manufacturer, and there is no limit to the number allowed from any one source. They should be submitted to County Planning Officers not later than June 30, 1959. They should include: (a) *For Class I* (i) a set of photographs showing elevations and the relationship of the building(s) to its (their) surroundings; (ii) a set of plans, including a site plan. (b) *For Class II* (i) a set of photographs showing the site before and after the improvement, or of the object or structure superseded together with that submitted; (ii) a set of plans, including site plan where applicable, and/or working

drawings. Entrants should, in addition, enclose a brief statement describing the improvement concerned and complete the form facing for submission with their entries.

The awards will take the form of certificates to the successful architects and/or designers, contractors and/or manufacturers in each class, plaques will be presented to the owners of winning buildings and to responsible authorities for suitable display in winning improvement schemes. The cost of fixing or displaying plaques will be met by the County Council. The presentation of the awards will be made during the autumn of 1959.

Richard Edmonds, chairman of the LCC Town Planning Committee, contributes a layman's and a councillor's view on the issue raised by the RIBA—the role of the architect in the planning of urban motor roads and highways.

PLANNING URBAN HIGHWAYS

By Richard Edmonds

The Royal Institute of British Architects and the British Road Federation have each in their own way in recent days done a signal service to urban planning, the RIBA on the one hand by urging on the Ministry of Transport and Civil Aviation the need for the architect's participation in the consideration of new motorways in urban areas, and the BRF on the other by staging an exhibition showing, to the planner's eye at any rate, some outstanding examples of good and bad road building and landscaping. It need hardly be said that the Traffic Engineer might well dissent from this not wholly flattering view of the British Road Federation's display.

To both the Institute and the Federation then we can be indebted for high-lighting this matter before irrevocable action has been taken in Britain, as it has in many American cities and nearer home in cities on the European continent.

Some of the urban expressways of the United States cut like a knife through the built-up areas within the city limits, soulless and starkly efficient, dividing community from community.

Coming nearer home the BRF Exhibition showed plans for a Rhine bridgehead complex designed for a traffic flow of 60,000 vehicles per day. The layout included multi-level routing of the motor roads, tram-lines, footways, and cycle tracks, and at least the town planning requirement that the gardens of a famous castle should be left largely intact was respected by the engineers. One cannot help feeling from the statement accompanying the layout that the decision to thus restrict the traffic area was a bit grudging.

Perhaps enough has been said to indicate the concern that these matters must arouse among those engaged in the planning of our towns and cities in Britain, and who have in mind the well-being of the men, women,

and children who live in them, as also, the need that traffic should flow smoothly for both business and social reasons.

This is one of the great dilemmas of our age, and surely it can only be resolved by harnessing all the resources at professional and administrative level to deal with the problems as a team, engineer, architect, valuer, controller, and clerk working with a common aim—good planning.

Five years ago when London had a road programme (as laid down in the Development Plan) but no Ministerial authorisations, and no work on the ground, any discussion of this subject was largely against a background of inexperience.

Now with a Means of Communication vote at £5,000,000 for the coming financial year, and road developments taking place in every part of the County, the problem of the right and proper planning of urban roads is constantly to the fore.

The LCC has in part tackled this programming and planning by joining with our friends at the Ministry of Transport in setting up the Committee on London Roads (the Nugent Committee), which is due to report shortly. It is not proper to disclose either the nature of the discussions in that committee or its likely findings, but its terms of reference and its membership are revealing.

The terms of reference enable the London Roads Committee to work out a £6,000,000 a year programme and a notional £10,000,000 a year programme to cover a 20 year period, to examine the whole traffic situation against this background and to report on the wider implications. Here the elected representatives, the Parliamentary Secretary and three LCC members sit down to discuss the issues in company with traffic experts from the Ministry and Road Research, and officers representing all the relevant departments of the planning

QUANTUM MERUIT: A RETURN TO FEES?

By Arthur Noel Harris (County Architect, Northampton)

There have been during 1958 distinct signs of a keener interest in matters of policy throughout the profession. A review and professional stock-taking seem to be both indicated and necessary.

In no other profession can be found so many diverse opinions on policy. This might be construed as lively independent thought but the results are lack of unity. As for public opinion of the architect, ability in design is generally acknowledged. The profession's integrity is unchallenged, but strong criticisms have been voiced from time to time on efficiency and productivity. These then are the foundations on which to build. An aura of uncertainty exists in and around the profession and never before in its history was a firm forward policy so necessary.

The architect has been left in an isolated and deteriorating position by the march of events. A knowledge of the arts and personal integrity were sufficient commendation in the days of genteel patronage and master craftsmen, but not so today. Today the patrons are the welfare state and the large commercial and industrial cartels. Their requirements are primarily efficiency and productivity. It is an indisputable fact that to control these requirements at first hand a great number of official and salaried architectural departments have been set up. These departments whilst not achieving eminence in every case, serve their employer clients well. Where eminence has been achieved in an official capacity there has been a noticeable drift back to private practice.

This poses queries on the desirability of two forms of employment of architects. A solution might be met by a return to recognition of fees for all architectural services. Where a specialist service under first hand control is necessary some form of remuneration on a fee basis for the chief and senior architects would seem to be equitable.

There are sound reasons also for the employment of private architects for at least 25 per cent of the capital investment in building by all large corporations and cartels. Building programmes fluctuate markedly and architectural establishments tailored to average output have intermittent periods of serious overwork and strain, or alternative periods "coasting in overdrive." The employment of private architects for a percentage of work would, therefore, dispense with redundancy or inactivity; moreover regular unbiased outside advice on specific recurrent problems would inspire fresh thought on design.

The other serious threat to the architect's relationship with the client potential is the increase in the "package service system." Unprotected competition in this field should not be wished on the practising architect before the RIBA and the ARCUK have considered every possible means of preventative legislation. Perhaps this could also be legislation on a fee remuneration basis.

Cost analysis and efficiency alone cannot compete with the direct approach and the disguised fee.

Public relations in the provinces must also be improved. Exhibitions or symposia do not attract clients. Public relations expenditure could be substantially increased at provincial level if the councils of the allied societies were allowed to advertise the profession in the press. The scheme could be almost self-supporting provided the local councils controlled this group publicity scheme but sponsored individual tax relief for its subscribed expenses.

The present contract procedure retards efficiency. Cost analysis is not a new panacea for all our ills; it has always existed in one form or another but it has never actually controlled the contractors who tender. In pricing a bill they have ever had a keen eye on the market of the moment.

Competitive tendering represents multiple wasted effort; selected tendering similarly so in lesser degree. The established integrity of the architectural and quantity surveying professions warrants a move forward to negotiated tendering on a much wider basis. The advantages would be forward planning, financial assurance for the client, the establishment of the architect/quantity surveyor as leader in a professional "package service system."

In matters of planning control the architect is not represented in sufficient strength. The depressing design of the structures to the new motorway bear witness to this. Some panels are operating on an advisory basis but the obvious need is for architects to be co-opted in strength on to all planning committees.

So much for external affairs. The remedies lie in our internal affairs and within the scope of the Charter. The splinter groups should reunite, private practitioner, chief salaried architects, senior salaried architects and junior salaried architects. This could be generated by an active and regionally representative council prepared to delegate extensive authority down to regional levels. The interim professional report of the constitutional committee is, therefore, extremely questionable in its recommendation for a composite system of election; the "parish pump" reference contained in the introduction is an insult to intelligence. The deserving national names would retain their status on their merits in a purely regional system of election, but a separate National voting list seems a last desperate attempt to save the "dead wood."

The London and Middlesex members having no society would not be represented in any regional election of council, but the RIBA have successfully sponsored a local government assistants society; let them now sponsor a chapter to represent the members in London and Middlesex in order that a democratic regional system for the election of Council may be introduced.

authority. Side by side on this committee sit the Engineer and the Architect of the Council; but to them this is no longer in any sense a new field of co-operation. The Architect of the London County Council has played an active part in this team since the day in 1954 when London's road programme was first given the green light, and of course long before that date in matters of bridge construction and other works.

Even the simplest widening scheme is likely to involve demolishing buildings facing into the existing road, and at intersections the new road line generally differs from the old, sometimes leaving odd triangular pockets and exposing the backs or flanks of buildings beyond. Notting Hill Gate is an instance of the former, and St. Giles's Circus (now awaiting redevelopment) particularly instances the latter case.

At Notting Hill, with the purchase of added lands to give planning depth, the Architect has been able to influence strongly the scheme of redevelopment, and this is so to an even more marked degree at Elephant and Castle, where the opportunities are considerable in this blitzed area, and at Hammersmith where the impact of the fly-over on the heart of the borough, with all that it suggested in loss of amenity, demand a solution at once practical and elegant.

The £5½ million Hyde Park-Marble Arch scheme, now getting under way with a sewer diversion to make room for the double underpass from Piccadilly to Knightsbridge, has presented perhaps the greatest opportunities for the planning team. There it seems it is going to prove possible to create a marked acceleration in traffic flow at two congested intersections in the heart of the capital, and at the same time to achieve one of the most important metropolitan improvements of the century, linking Green Park to Hyde Park by a continuous belt of green through which will flow London's great processional way to its culminating point at Marble Arch. When plans were being prepared for the Parliamentary Bill for this scheme the planning team was in almost continuous session at County Hall in order to be in time to present the completed plans in the House, a first class example of co-operation between engineer and architect.

Let us remember that road improvements today for the most part represent the largest scale urban developments taking place, each having far reaching consequences on the social, economic, and visual life of the metropolis. The need for the planning team in action is vital, and as our experience grows it is certain that we shall be able to improve the technique not only of dealing with the broad issues of redevelopment, but with such issues as the co-ordination of the street scene now so often made hideous by the paraphernalia of lighting, signposting, street maintenance, post office, and other equipment.

As the Council of the RIBA has so rightly said it is essential that we should get an over-all view of the problems to be solved. This is the planning challenge, and in many areas outside London a challenge to the existing administrative machine; but meet it we must, and we cannot afford to fail.

FIRST POST-WAR CINEMA IN THE WEST END: THE COLUMBIA

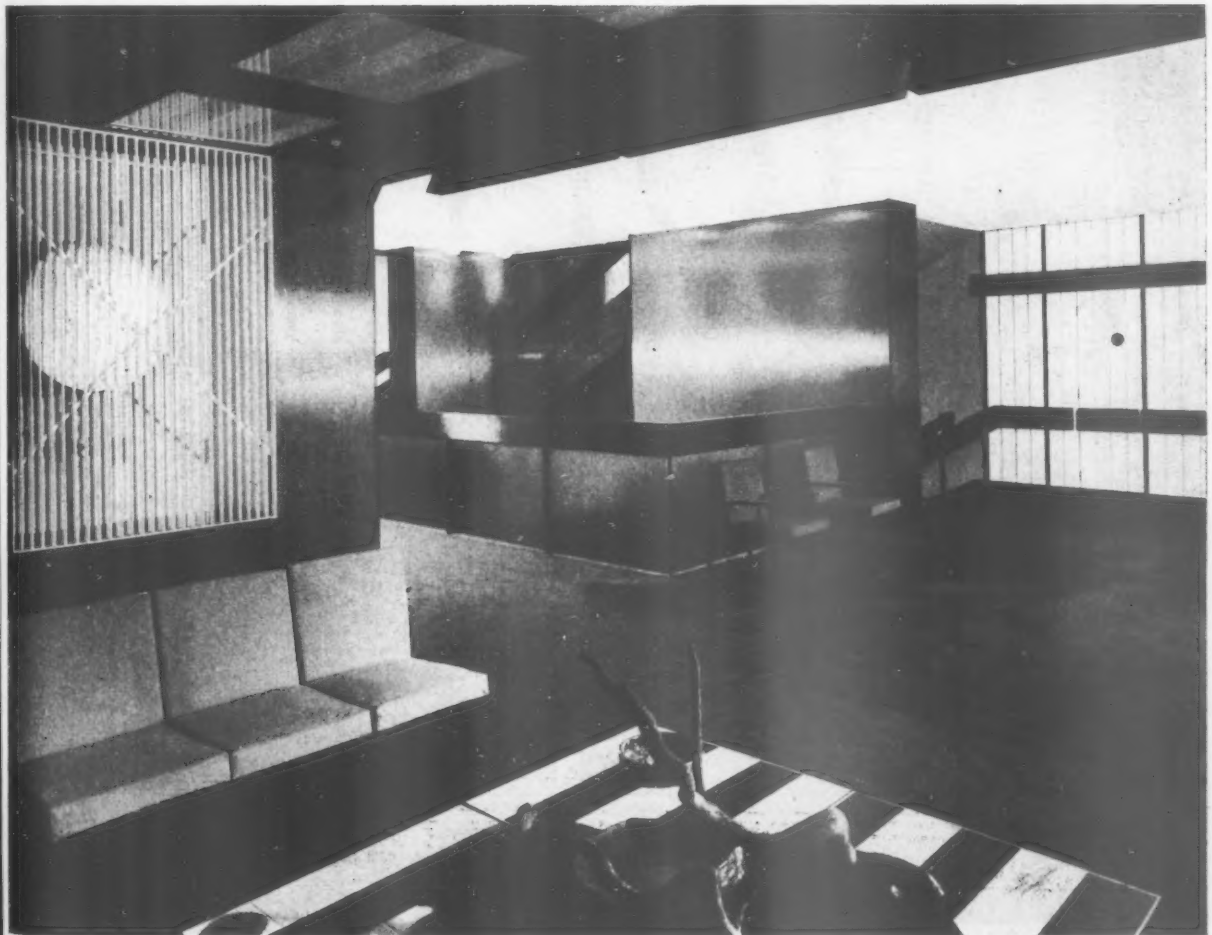


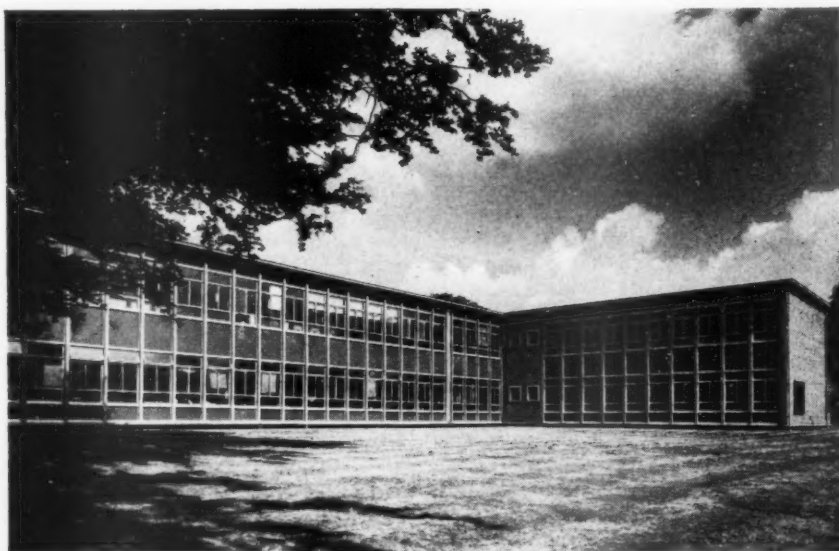
The Columbia Theatre, the first cinema to be opened in the West End of London for 20 years, occupies part of the basement of a new office block in Shaftesbury Avenue; both were designed by Sir John Burnet, Tait and Partners. The entrance is at the corner of the office block (above); two stainless steel glazed sliding doors, each 17 ft. long (below) are arranged to slide out of sight, opening the

upper foyer to the street. Opposite page, top: the upper foyer looking towards the box office. Stairs lead down from the upper foyer to a very large mezzanine foyer (opposite page, bottom) which serves as a waiting and queueing space, and thence to the cinema itself a floor lower. The cinema seats 750 in great comfort and has an enclosure for club seats at the rear; apparently it is only the smaller



THE COLUMBIA THEATRE, SHAFTESBURY AVENUE





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THE COLUMBIA THEATRE, SHAFTESBURY AVENUE: continued



cinemas in the West End which are now able to run at a worth-while profit. Most of the internal surfaces are of fibrous plaster, painted. The random holes in the ceiling, without lights, are ventilation extracts. Inlets and stereophonic loud-speaker openings are situated in the walls. There is no balcony; the space

above the low ceiling at the rear is occupied by the projection room. The screen is curved for Todd-AO. Above is the auditorium looking towards the screen; below, looking across the auditorium to the projection room. The general contractors were Trollope and Colls Ltd.; decorations were by H. H. Martyn and Co. Ltd.





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The Atlanta 54, 60 and 61 must be preferred to any other baths of these sizes because they are exact replicas of the full size bath, scaled down to small proportions.

Atlanta flat bottom helps to prevent slipping—ensures comfort.

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

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

Corner tap mounting facilitates installation and maintenance.

The Atlanta is supplied with or without overflow—with or without handgrip.

When buyers are considering a new home, the bathroom can often be the deciding factor! A Bilston Atlanta appeals instantly because of its distinctive line and brilliant finish. Made for lasting beauty, Bilston baths are in White, or the exact colour required for any decorative scheme. Specify the Atlanta—it costs no more than an ordinary bath.



Bilston

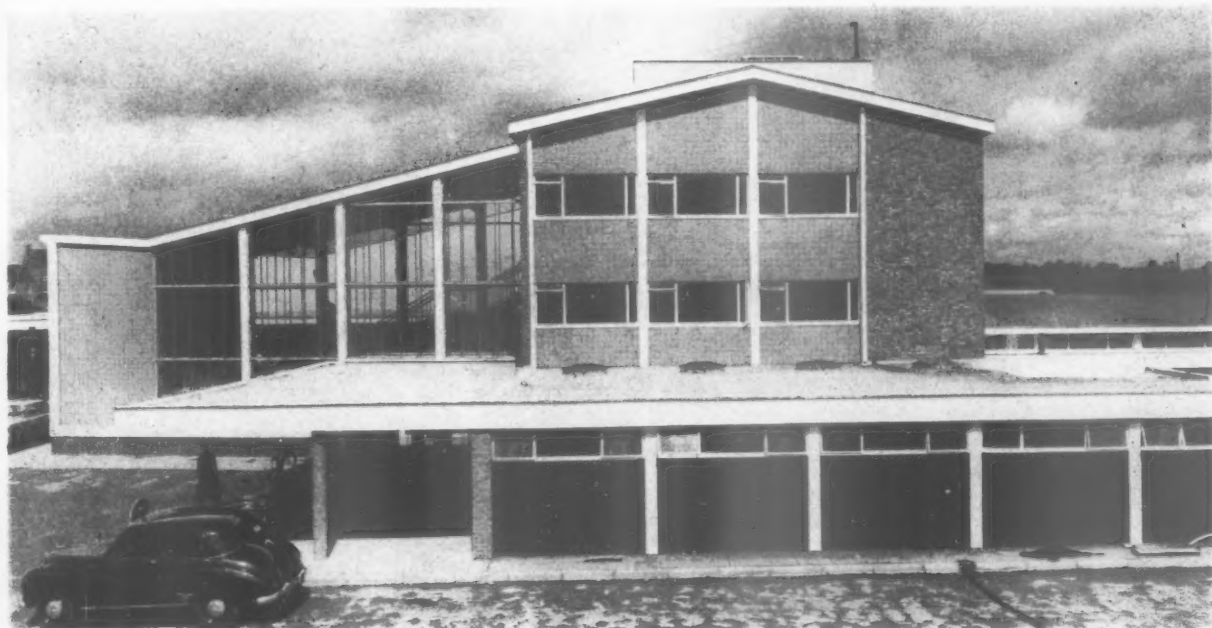
—the bath **SPECIALISTS**

Atlanta •
Magna •
Cresta •
Marina •
Mermaid •
Bermuda •



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

NEW STATION FOR BANBURY



The rebuilding of Banbury Station (designed by H. E. B. Cavanagh, architect to Western Region, B.R., with A. E. Beer, consulting engineer) was necessitated, not only by the dilapidated state of the original building and its general unsuitability for modern use, but also by the relaying of the track to provide a loop line for through traffic. Apart from the track layout the other main influences on the design were the restricted space on the west side of the site and the high percentage of change-over passenger traffic. The problem presented by this latter consideration [was solved by enlarging the bridge, which was in any case necessary to reach the platforms, to include a cafeteria and waiting room. The longer span of this bridge is carried on four precast prestressed concrete beams. The reason why this method was adopted was that at least one line had to remain open which meant that shuttering for in-situ concrete was out of the question. In fact, the main beams were put into position with a suspension of traffic lasting only one night

and the in-situ work above completed later. The structure of the building, as a whole, is orthodox reinforced concrete frame with infilling panels chiefly of brick. The orthodox construction is reflected in the general feeling of the design which is rather static for a railway station. Undoubtedly the most commendable part of the design is the attention that has been paid to the comfort of passengers. The waiting room (below left), which by reason of its position on the bridge commands a good view of train arrivals, is quite pleasingly furnished with chairs and tables of the design that was first adopted by British Railways at Kings Cross. An attempt has been made to brighten the building by the use of white paint on the underside of the canopies over the platforms (below right). It is a pity that nothing better was done to achieve lightness in appearance than this somewhat temporary measure. Will it look pleasant in a year or so's time? The general contractors were Malcolms Ridgeway and Partners, Ltd.





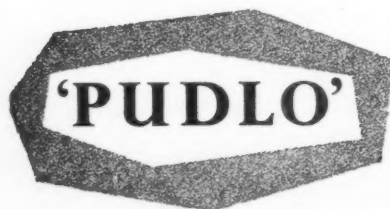
**New research building
Longbenton, for
Thomas Hedley & Co. Ltd.
Newcastle-upon-Tyne**

Architect: Derek R. L. Wallace, M.B.E., D.F.C., M.Inst.R.A.,
F. Boreham, Son & Wallace, Registered Architects,
4a, Bloomsbury Square, LONDON, W.C.1.

General Contractors: John Laing & Son Ltd.

Consulting Engineers: Bylander & Waddell,
26 Old Burlington Street, LONDON, W.1.

'PUDLO' Brand cement waterproofer was specified in the retaining walls and floor of the Boiler Room in the new Research Building at Longbenton, for Messrs. Thomas Hedley & Co., Limited, of Newcastle-upon-Tyne, the famous makers of the well-known products Tide, Daz, Fairy Soap, Gleem, etc. The composition of waterproofed cement was as follows:— Vibrated Reinforced Concrete composed of 1 cwt. cement to 2½ cubic feet of fine aggregate and 5 cubic feet of coarse aggregate, maximum nominal size ¾". 'PUDLO' Brand waterproofer was included at the rate of 5 lbs. to 1 cwt. of cement.



**CEMENT
WATERPROOFING
POWDER**

THE RANGE OF 'PUDLO' PRODUCTS INCLUDES:—

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

The word 'PUDLO' is the registered Trade Brand of Kerner-Greenwood & Co. Ltd., by whom all articles bearing that Brand are manufactured. Sole Proprietors and Manufacturers:

KERNER-GREENWOOD & COMPANY LTD • KING'S LYNN • NORFOLK

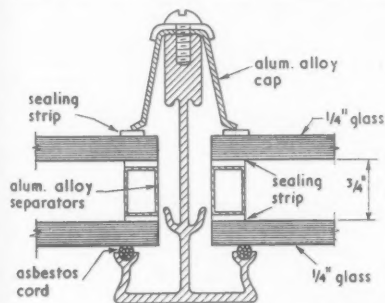
Telephone: KING'S LYNN 2293

THE INDUSTRY

Brian Grant reviews catalogues of patent glazing and building materials and describes a cradle for cleaning tall buildings, aris protectors and a kitchen extract fan.

Patent glazing and insulation

A large new catalogue from Heywoods illustrates very fully their patent glazing and lantern lights, as well as their methods for the thermal insulation of buildings. The latter can be provided with the usual system of suspended tees to carry the insulating board, but a concealed fixing system is also available for use with 2-ft. square panels (plain or acoustic), with machine cut



grooves and chamfers. Insulated glazing can also be provided with aluminium or lead covered bars to take two thicknesses of glass separated by a 3/4-in. air space. The catalogue is well set out with plenty of photographs and clear scale drawings, though it suffers a little from being a somewhat awkward shape. (Heywood & Co. Ltd., Bayhall, Huddersfield.)

Marley's complete list

The Marley Group has just produced its second annual catalogue, a comprehensive collection of leaflets bound in a stiff cover and divided into seven sections with a thumb index. Apart from tiles and flooring materials, Marleys make almost everything from pre-cast concrete clothes posts to quite large industrial buildings, and now have a

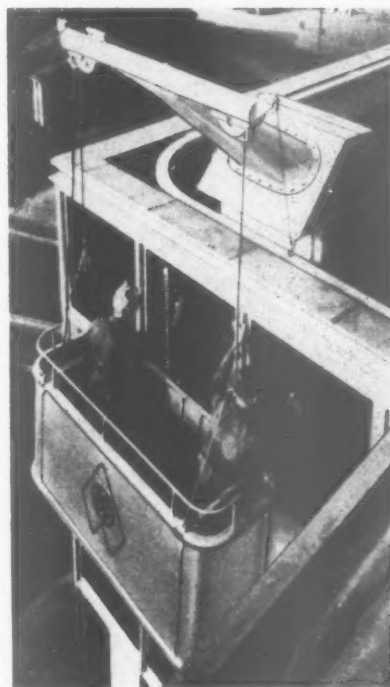
range of silos and other types of farm buildings. (The Marley Group, Sevenoaks, Kent.)

Cleaning tall buildings

With increasing building heights, and with the use of facing materials which need regular cleaning, scaffolding is too expensive, and the ordinary hand operated cradle is apt to need too much effort, with the result that the work is slowed down. Mills have now produced a fairly complete answer to this problem, and have evolved a power operated cradle, controlled from the cradle itself, which can be adapted to most types of building. The equipment consists in essentials of a fixed track on the roof, a hoisting motor, a retractable jib, and the cradle itself. All operations, raising and lowering, and traversing, are controlled from a panel in the cradle, and both jib and cradle can be raised and swung inwards so that they are unseen from the ground when not in use. Five main types of installation have been evolved, in one of which a two rail track is laid permanently on the roof, while in the other the two rails are fixed to the parapet wall. Both these types can negotiate sharp corners, and in the third type the carriage runs on rubber wheels and has a single guide rail fixed to the parapet. Type four has the hoisting mechanism in the cradle, and is limited to 60-ft. buildings, while type five consists of a moving trolley set beneath the cornice on a single rail, and the cradle is housed at street level when it is not in use. All five types seem to have been clearly thought out, and should be suitable for nearly all types of roof, though there may be some minor difficulties if there are too many skylights or tank rooms. (The Mills Scaffold Co. Ltd., Trussley Works, Hammersmith Grove, London, W.6.)

Protecting plaster on corners

Unprotected corners, whether in plaster, tile, or plain concrete, are always liable to damage from trolleys of any kind, quite apart from dirt left by hands. A relatively simple answer is the black Cobex plastic strip shown in the photograph right, which has been installed in corridors, wards and kitchens of a hospital in S.E. London. Cobex is a vinyl material which is fairly easy to mould round a corner, but which has a high impact strength. (BX Plastics Ltd., Higham Station Avenue, Chingford, London, E.4.)



Above, one of the Mills power operated cradles. Below, Cobex plastic strips used to protect plaster corners.



Here is a low-priced luxury bath —the *Vogue*

BY ALLIED IRONFOUNDERS

British Regd. Design No. 879397

What your customers will like about the Vogue

The attractive new shape . . . low, streamlined, ultra-modern. With the flatter, safer bottom designed and pioneered by Allied Ironfounders.

Taps where they're handy, on either corner or in the usual position.

Recessed panels* **Chrome safety handgrip***
7 colours to choose from—white, ivory, pink, blue, green, primrose, or turquoise. The finish is easy-to-clean Duramel.

Made of cast-iron for strength, permanence and durability and to ensure a lasting bond with the exclusive high-gloss finish.

AND MOST IMPORTANT—THE PRICE

The Vogue, for all its wonderful luxury, costs no more than the Magna bath.

* Available at extra cost.

DO YOU KNOW ABOUT THE COBRA?

It's a prefabricated combination of waste, overflow pipe, and trap and



- takes only 15 minutes to fit—a big time-saving
- needs no templates—so no pipes to bend
- trap connects with outlet—whatever the position
- fits the Allied Vogue, Magna and most other baths

For further details of the VOGUE bath and/or the COBRA fitting, write to:

ALLIED IRONFOUNDERS LIMITED

Makers of cookers, boilers, fires and baths

28 BROOK STREET • LONDON • W.1



technical section

Kitchen ventilation

Greenwoods have recently announced the Mechavent 75, a small electric fan for wall mounting, with an external grille having hinged louvres which open automatically when the fan is running. The photograph



The Greenwood-Airvac Mechavent 75 domestic fan unit and canopy.

shows the fan and canopy mounted over a cooker, the complete assembly costing £19. The fan alone costs £12 10s. 0d. (Greenwood's & Airvac Ventilating Co. Ltd., Beacon House, Kingsway, London, W.C.2.)

INFORMATION CENTRE INDEX FOR 1958

An alphabetical index covering Information Centre items and special articles published in the Technical Section during the twelve months ended December 31, 1958, is being prepared. Readers who wish to have a copy—it is free of charge—should complete the form below and post it to the Technical Editor, THE ARCHITECTS' JOURNAL, not later than March 9, 1959. This form will not be acknowledged.

Please send me the Information Centre Index for 1958:

Name
(Block letters)

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AJ, 19.2.59

7 PRACTICE

architectural management: a method study, 6 drawings supplement

This series of articles by W. Sinclair Gauldie and Arthur F. S. Wright was concluded in last week's issue.* The Editors considered, however, that some of the discussion on drawings and schedules contained in articles 2 and 3 was difficult to follow without examples of actual drawings prepared on the authors' system. It had been the authors' intention to reproduce these, but this was not possible, as the original drawings would not reduce to JOURNAL page size and still remain legible. To overcome this difficulty we have had five drawings specially prepared from the authors' originals. These contain virtually all the authors' information and correspond in general layout to that of the originals, but differ necessarily in their lettering and in their space organization. All the drawings illustrated form part of the set prepared for the small house "built far from the office by a very unsophisticated labour force" referred to in the second article (see issue of January 22, 1959, page 143, *et seq.*). All the originals were on sheets 30 in. by 20 in.

Fig. 1 is what the authors refer to as an "assembly drawing." The original scale of the main drawing (as can be seen in the panel) was quarter inch, but this has been reduced by about one third in the reproduction. The digits of the drawing number are made up as follows:

I.L. = initials of client.

J/5 = J standing for "job", indicating that it is a working drawing.

5 for the fact that it is the fifth in the series. In addition to the principal dimensions there are three types of reference contained on the quarter scale drawings: reference to the door schedules, to the window schedules, to the finishes and to other drawings.

* Other articles appeared in the issues of January 8, 22 and 29, and February 5, 1959.

PASSPORT TO PERFECTION AT PIMLICO

The residents of Dolphin Square, Europe's biggest block of flats, do their shopping on beautiful, hardwearing, easy-to-walk-on rubber — supplied by Runnymede.

Why was Runnymede chosen?

Partly because Runnymede rubber *is* so beautiful, hardwearing and easy to walk on. Partly because Runnymede Pattern Books carry colours to suit every purpose and taste. And partly because Runnymede is nothing like as expensive as the impression it creates. Phone or write for full details.



Dolphin Square, Pimlico, London.



The Shopping Arcade at Dolphin Square.

RUNNYMEDE RUBBER COMPANY LIMITED
6 Old Bailey, London, E.C.4. Telephone: City 2471.

References to the door schedules all bear the prefix "dg" and start from dg 01 (in the fuel store) and read around in a clockwise direction to dg 17 (in the bathroom).

References to the window schedules bear the prefix "wg" and likewise read in a clockwise direction,

beginning at wg 01 in the larder and running on to
wg 12 in the kitchen.

References to the finishes are made in each room where they appear with the prefixes "w," "f," "c," "s" ("wall," "floor," "ceiling," and "skirting") followed by a number. The finishes represented by

Each number are listed in the key on the right hand side. The finishes to each room are listed next to the room number, but where there are more than one of each type in a room (e.g. the wall finishes in the verandah) are repeated opposite the surfaces to which they refer.

The room numbers likewise read in clockwise directions and are prefixed by G (standing for Ground Floor). It is to be noticed that there is no necessary tally between room numbers and window and door numbers. The drawings on the right-hand side of the sheet are what the authors call "assembly drawings." They are mainly to help the building operative, but also serve to clear up points of three-dimensional detail which the architect might otherwise have overlooked. The bottom right-hand drawing has already been reproduced as Fig. 2 on page 145 (*op. cit.*)

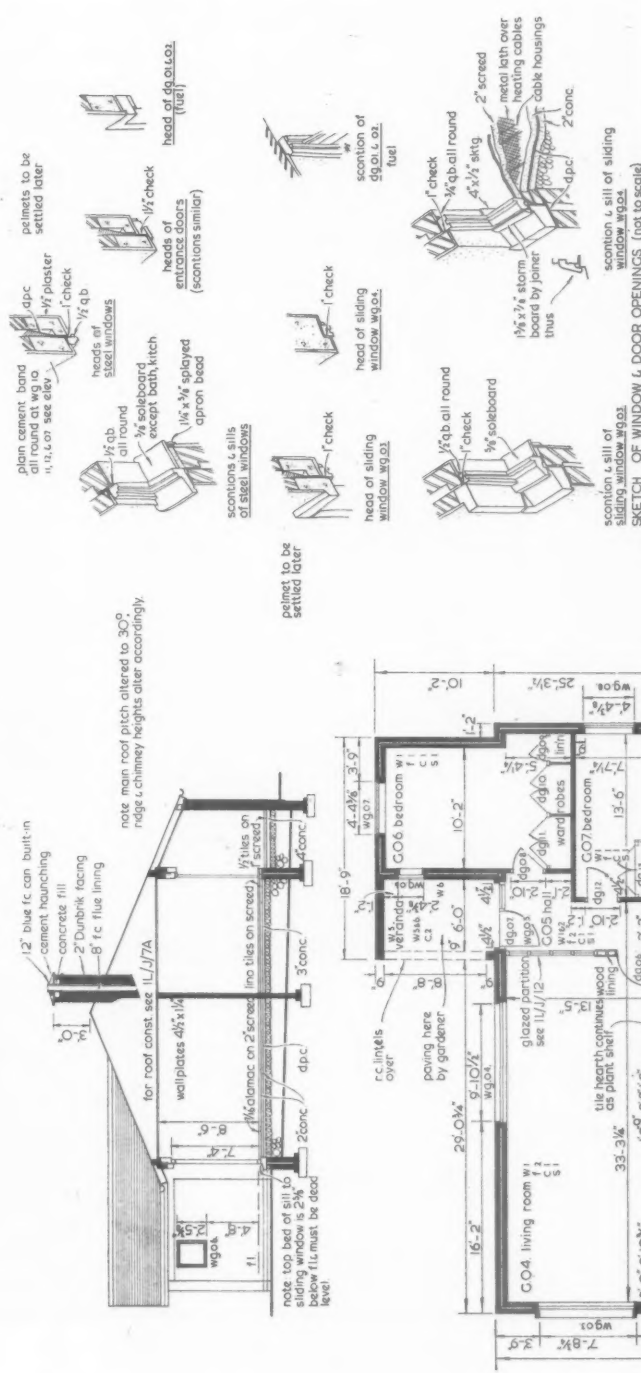
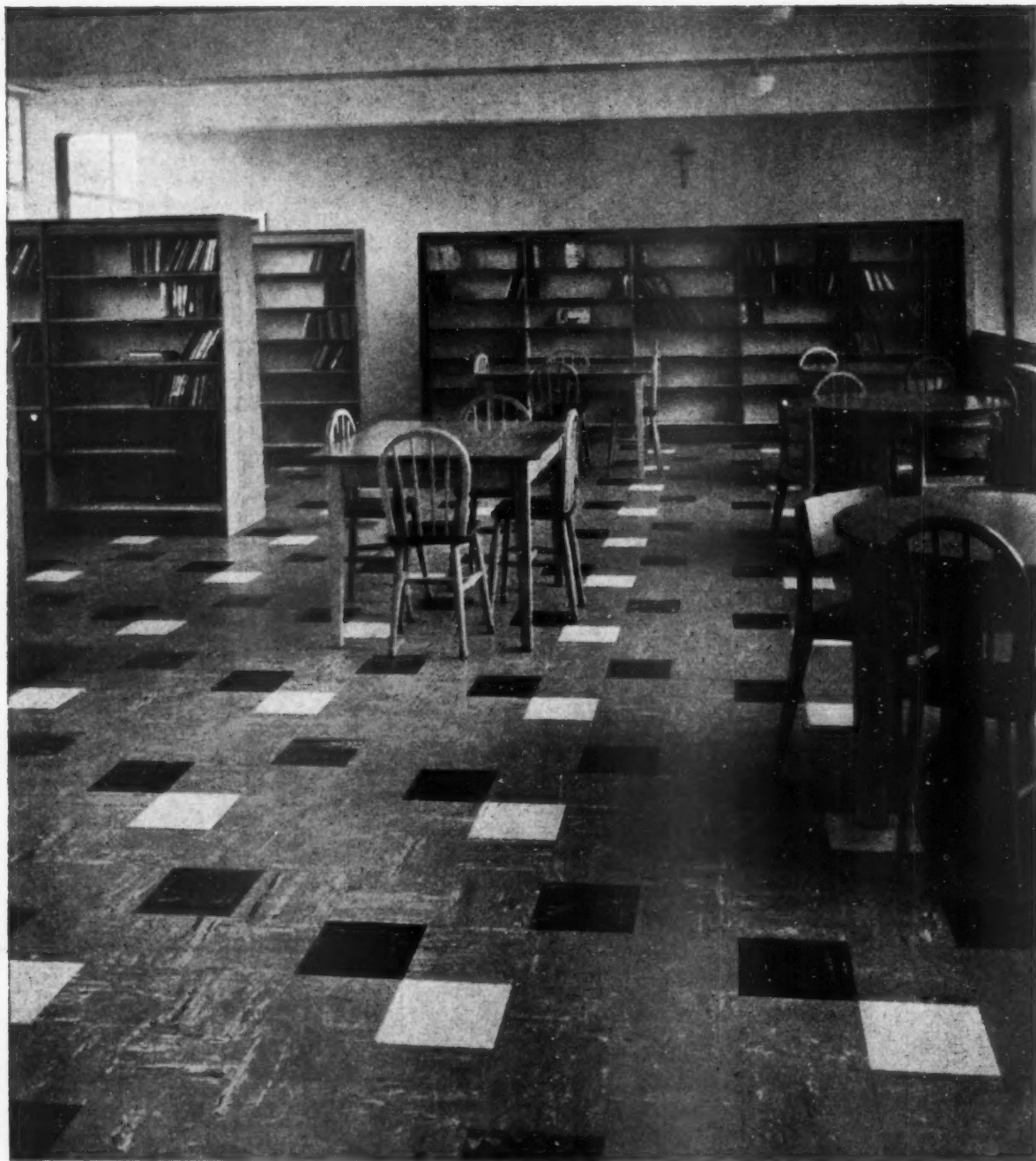


Fig. 1. Ground floor plan and section, including sketches of window and door openings.



Architects: Harrison & Cox, F./A.R.I.B.A.

Contractors: Hinkins & Frewin, Oxford

Over 1,330 sq. yds. of Marley floor tiles
were used throughout the new
Blessed Edmund Campion School at Iffley, Oxford

MARLEY

SEVENOAKS · KENT · SEVENOAKS SE255 · LONDON SHOWROOMS: 251 TOTTENHAM COURT ROAD · W.1



technical section

Fig. 3 is a "type detail" which has been adapted to this particular job by crossing off the five variations which do not apply. The diagrams on the top left hand side give the overall dimensions of the four variations of window used on the job, the head, style and sill details which apply to each ("Mark 1 head," etc.), the number of each window required on the job

and the reference to the assembly drawings explaining where they are to go (W.G.02, etc.). The reference Nos. NL1, ZNC1 and ZND2F are manufacturers' type numbers.

The remaining drawings on the sheet (which, in the original, were to full size) show the heads, styles and colls referred to in the diagrams. The figures MA, MB,

etc., adjoining these relate to the sub-types to which each detail refers. "M" is the prefix used for all wood surrounds to metal windows. Bottom right is a note giving the actual overall dimensions of the wood frames and the allowances to be made when calculating the brick openings which are to receive them.

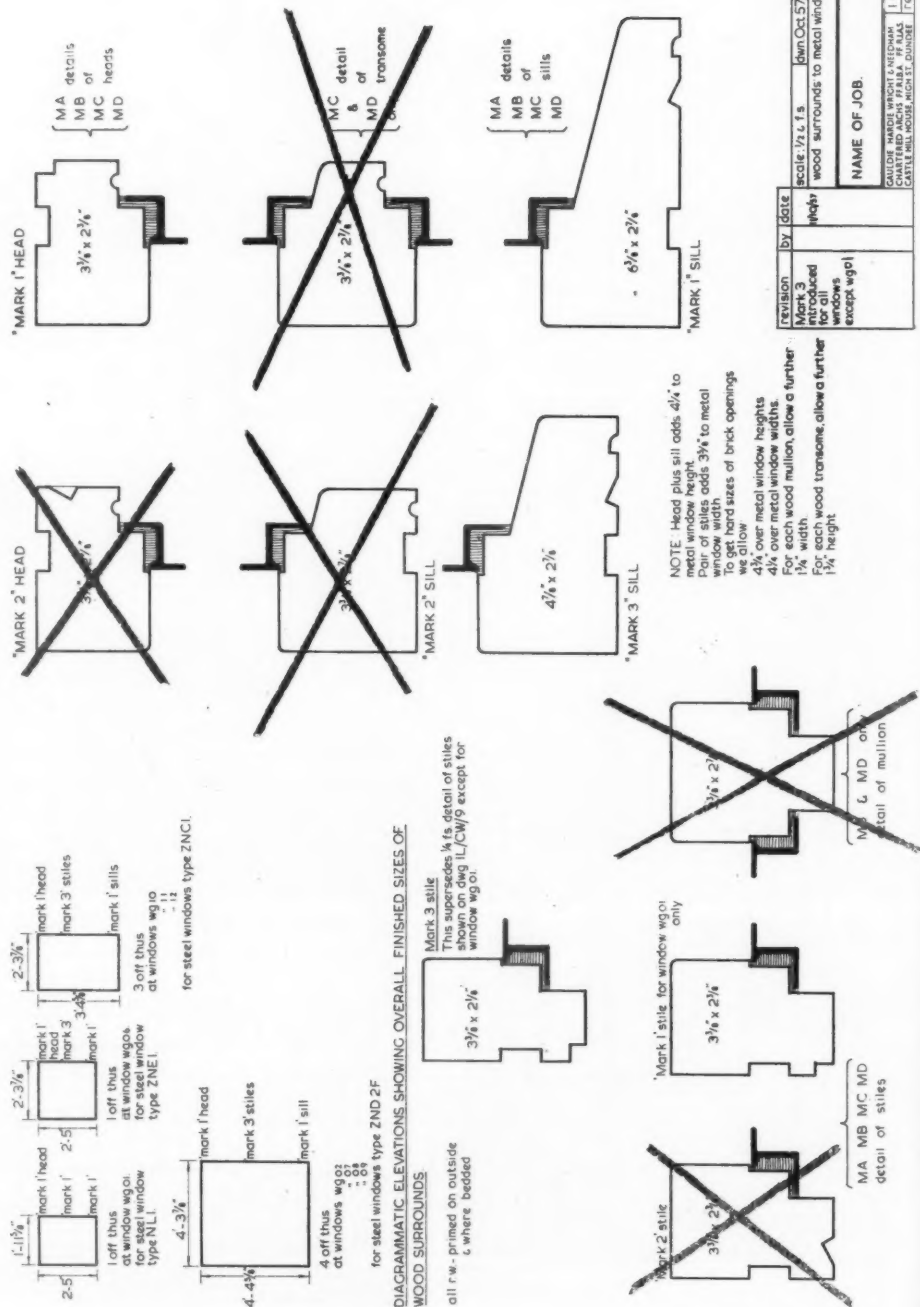


Fig. 3. Wood surrounds to metal windows.

Fig. 3. Wood surrounds to metal windows.

Detail of Stiles
Detail of mutton

LOCATION		DOORS					FRAME & STOPS			FACINGS		FANLIGHTS		REMARKS		TYPE DETAILS OF FRAMES & STOPS		not to be scaled	
room no.	door no.	type	height	width	thickness	material	finish	type	material	finish	type	opening or closing	glaze						
g01	g01	EL	6'-0"	2'-0"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g02	g02	EL	6'-0"	2'-0"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g03	g03	EC1	6'-9"	2'-9"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g04	g04	seroX	6'-6"	2'-0"	1 1/2"	apagete wax	mark 1	5 1/2" XB WW ccd	do	2 1/2" do	bor ccd	do	do	do	do	do	do	do	do
g05	g05	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g06	g06	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g07	g07	seroX	6'-6"	2'-6"	1 1/2"	apagete wax	mark 1	5 1/2" XB WW ccd	do	2 1/2" do	bor ccd	do	do	do	do	do	do	do	do
g08	g08	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g09	g09	seroX	6'-6"	2'-6"	1 1/2"	apagete wax	mark 1	5 1/2" XB WW ccd	do	2 1/2" do	bor ccd	do	do	do	do	do	do	do	do
g10	g10	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g11	g11	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g12	g12	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g13	g13	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g14	g14	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g15	g15	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g16	g16	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g17	g17	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g18	g18	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g19	g19	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g20	g20	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g21	g21	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g22	g22	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g23	g23	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g24	g24	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g25	g25	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g26	g26	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g27	g27	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g28	g28	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g29	g29	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g30	g30	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g31	g31	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g32	g32	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g33	g33	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g34	g34	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g35	g35	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g36	g36	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g37	g37	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g38	g38	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g39	g39	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g40	g40	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g41	g41	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g42	g42	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g43	g43	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g44	g44	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g45	g45	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g46	g46	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g47	g47	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g48	g48	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g49	g49	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g50	g50	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g51	g51	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g52	g52	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g53	g53	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g54	g54	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g55	g55	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g56	g56	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g57	g57	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g58	g58	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g59	g59	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g60	g60	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g61	g61	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g62	g62	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g63	g63	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g64	g64	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g65	g65	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g66	g66	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g67	g67	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g68	g68	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g69	g69	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g70	g70	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g71	g71	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g72	g72	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g73	g73	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g74	g74	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g75	g75	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g76	g76	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g77	g77	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g78	g78	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g79	g79	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g80	g80	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g81	g81	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g82	g82	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g83	g83	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g84	g84	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g85	g85	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g86	g86	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g87	g87	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g88	g88	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do	do	do	do	do	do	do
g89	g89	do	6'-6"	2'-6"	1 1/2"	do	do	do	do	do	do	do	do						

Fig. 4. Type details of door frames and door schedule.

critical study

REBUILDING THE ABBEY THEATRE IN DUBLIN

The old Abbey Theatre in Dublin was destroyed by fire in 1951. It was famous, not as architecture, but as the home of the great Irish theatrical renaissance. The much-loved but very inconvenient old building, where so many plays which are now classics were performed, disappeared, and is to be replaced by a lavish modern building. The course of events is familiar for there are historical parallels to this situation. In ancient Athens, the earth circle and wooden scaffold where the great epics of Aeschylus, Sophocles and Euripides first appeared was obliterated beneath the stonemasonry of a later, less gifted age. Shakespeare's Globe and a dozen other theatres of Elizabethan London, where the English theatrical renaissance was staged, disappeared almost without

a trace; their very shape is a matter for archaeological speculation. However, their disappearance was not before the dramatic inspiration which was their origin had lost its impetus.

Again and again one finds that the world's greatest plays were written and first performed in the simplest of surroundings, in the open air or in a building designed for another purpose. It is a sobering reflection for architects that the drama begins to fade as the stonemasons appear on the scene.

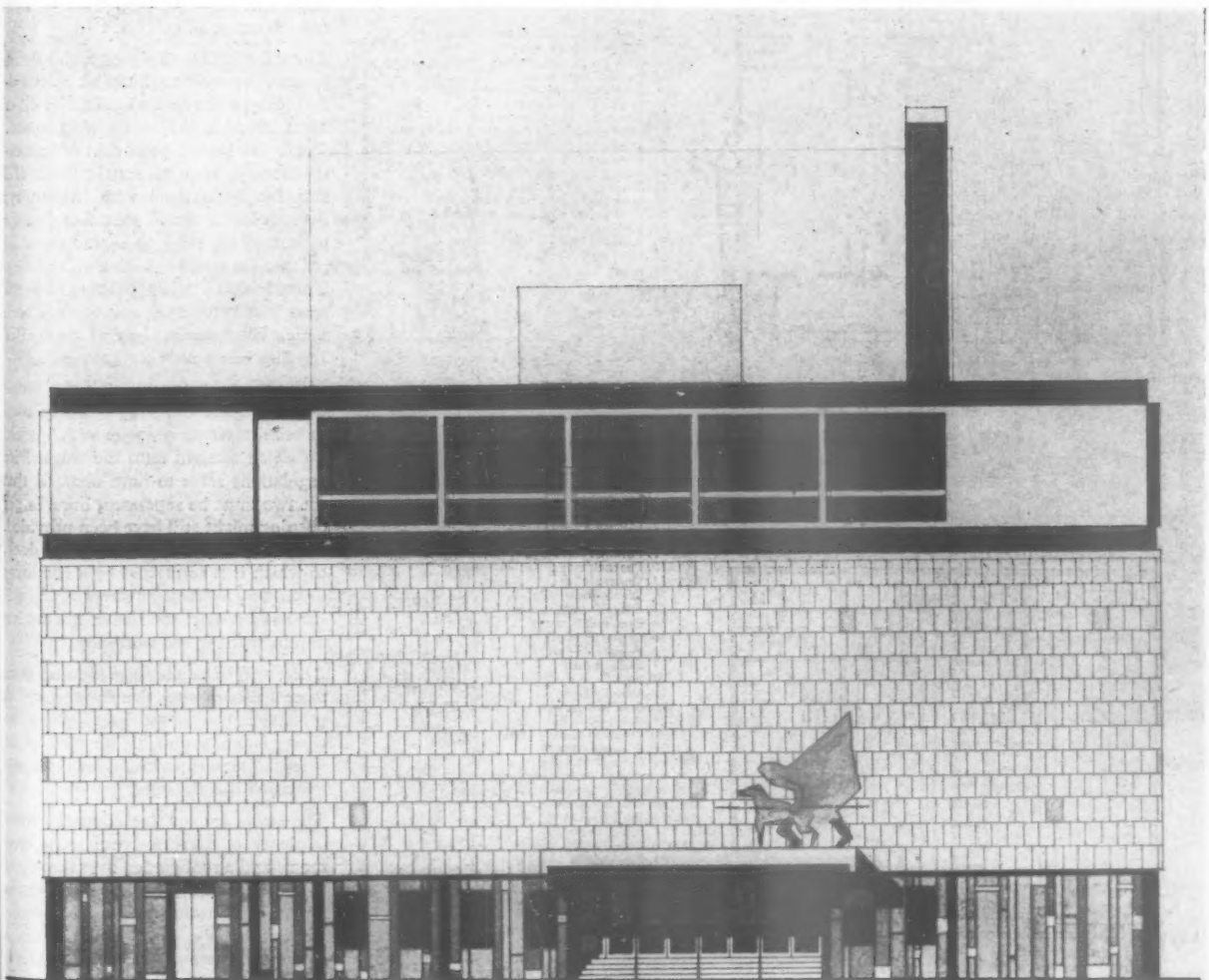
The old Abbey Theatre was inconvenient and makeshift, a converted city morgue; but it served for Yeats, Synge and O'Casey.

The new one designed by Michael Scott, in consultation with Pierre Sonrel of Paris, will be very fully equipped and

well provided with ancillary accommodation. The site has been enlarged by the acquisition of property adjoining the old theatre and it has been very fully developed. There are in fact to be two theatres, the Abbey Theatre proper, to seat a total of 606 people (402 in the stalls and 204 in the balcony) and a small, experimental theatre called The Peacock which will seat 156 people.

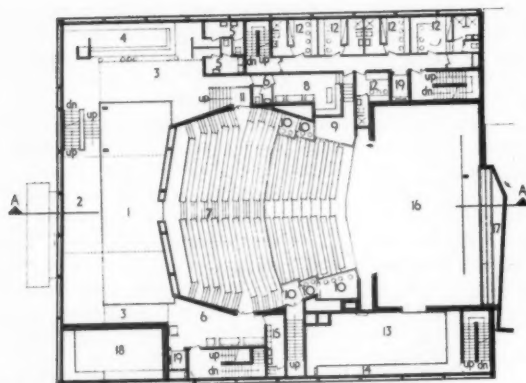
The main auditorium is placed in the middle of the squarish site with the rest of the accommodation grouped around, above and below it. The entrance is, as before, from Marlborough Street, under a canopy placed off centre in the facade. The foyer is on quite a large scale with stairs leading up to various levels giving access to the stalls and balcony and also providing a bar and a coffee bar. These

The elevation to Marlborough Street.



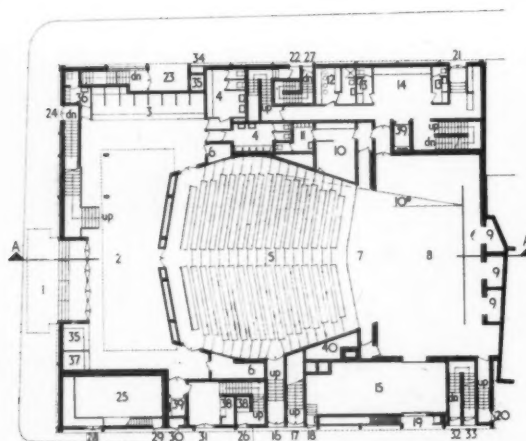
critical study

TWO THEATRES IN ONE: THE ABBEY AND PEACOCK



First floor plan

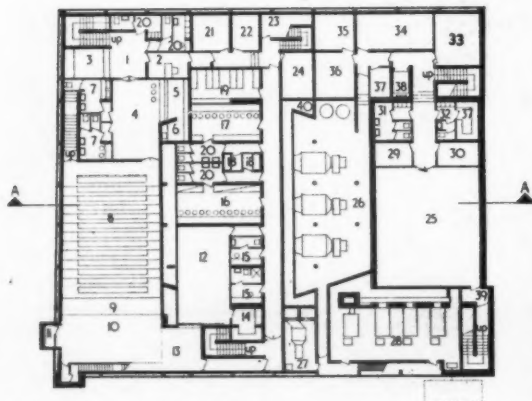
- First floor**
1. Foyer
 2. Portrait gallery
 3. Promenade
 4. Bar
 5. Lavatory
 6. Lobby
 7. Balcony
 8. President's reception
 9. President's box
 10. Box
 11. Landing
 12. Dressing room
 13. Upper scenedock
 14. Painting gallery
 15. Staff lavatory
 16. Abbey stage
 17. Storage of back cloths
 18. Upper Peacock stage
 19. Lift
 20. Duct



Ground floor plan

- Ground floor**
1. Abbey entrance
 2. Abbey foyer
 3. Cloakroom
 4. Lavatory
 5. Abbey stalls, 402 seats
 6. Television
 7. Abbey forestage
 8. Abbey stage
 9. Property store
 10. Orchestra
 11. Orchestra lavatory
 12. Dressing room No. 1
 13. Quick change
 14. Actors' waiting area
 15. Scene dock
 16. Emergency exit, Abbey stalls
 17. Emergency exit, Abbey balcony
 18. Emergency exit, scene dock
 19. Loading dock
 20. Emergency exit, Abbey stage
 21. Abbey players' entrance
 22. Emergency exit, Abbey dressing rooms
 23. Peacock entrance
 24. Emergency exit, Peacock stalls
 25. Peacock upper stage
 26. Peacock players' entrance
 27. Emergency exit, Peacock dressing rooms
 28. Load dock and escape, Peacock fly gallery
 29. Emergency exit, Peacock stage
 30. Emergency exit, Peacock grid
 31. Entrance to offices
 32. Emergency exit from basement
 33. Emergency exit from workshop
 34. E.s.b. cutoff
 35. Booking office
 36. Male staff lavatory
 37. Kiosk
 38. Porter
 39. Lift
 40. Duct

- Basement**
1. Peacock entrance lobby
 2. Manager's office
 3. Cloakroom
 4. Peacock foyer
 5. Coffee bar
 6. Wash-up
 7. Lavatory
 8. Peacock auditorium, 156 seats
 9. Peacock forestage
 10. Peacock stage
 11. Controls
 12. Scene dock
 13. Actors' waiting area
 14. Property store
 15. Dressing room
 16. Female chorus
 17. Male chorus
 18. Bath
 19. Wardrobe
 20. Staff lavatory
 21. Peacock switch room
 22. Peacock battery room
 23. Cleaners' room
 24. Sewage disposal
 25. Abbey stage basement
 26. Abbey air conditioning plant
 27. Peacock ventilating plant
 28. Boiler room
 29. Music room
 30. Band room
 31. Stagehands
 32. Cleaners
 33. Stage manager
 34. Abbey battery room
 35. Abbey switch room
 36. Electricians' workshop
 37. Store
 38. Lift
 39. Lobby
 40. Duct



Basement plan [Scale: 1/4" = 1' 0"]

floors are so arranged that one can appreciate the external shape of the auditorium.

The arrangement of stage and auditorium is conventional. It differs little from the Edwardian layout except that it has more straight lines in it than curves. Six hundred is not a large audience and the auditorium promises to be pleasantly intimate. There are, however, some points of design that are debatable. It seems a pity, for instance, that there should be a central aisle down both the stalls and balcony, cutting the audience in two and giving the best positions in the house to circulation space. The loges or open boxes on either side will give the auditorium an intimate feeling when the lights are up but when the curtain rises the site lines from these seats, especially from the President's box, are straight into the wings. This means that it will not really be possible to use the whole width of the proscenium (which scales 37 ft. 6 in.) and the usual false proscenium will have to be erected. It is as well to have the wide opening, though with conventional staging it will not often be possible to take full advantage of it.

The stage itself is equipped with a flying system, the most useful of all mechanical aids to scene changing. On the other hand, there is very little wing space. There has been a great deal of accommodation to fit on the restricted site and this has been done with ingenuity; nevertheless it would seem unfortunate to restrict the wing space and place all reliance for scene changing on the flies. There is also a lighting gallery over the stage just behind the proscenium arch which will prevent the first six feet of the flies being used for scenery.

It would be most useful if the scene dock alongside the stage could be used to build a set on a wagon which could be rolled straight onto the stage. Fire regulations seem to have dictated that the two must be separated, but a larger opening might still have been provided. The workshop is above the scene dock, to which it is connected by a hatchway in the floor. The dimensions of this will naturally restrict the size of things that can be made in the workshop.

There will be ample stage lighting from three galleries over the auditorium. A projection box at the back, above the circle, makes it possible for films to be shown. There is provision for radio and television broadcasting.

The actors are well looked after; there is plenty of dressing room space, rest rooms and a roof garden over the top of the auditorium. This to some extent makes up for having no natural daylight or ventilation in the dressing rooms, a situation apparently dictated by elevational considerations. A very large ward-

PEACOCK THEATRES IN DUBLIN



Fourth floor plan

Fourth floor

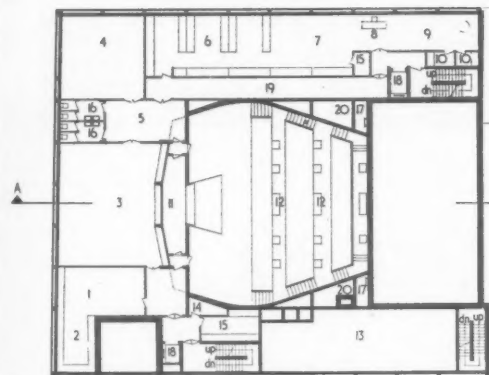
1. Boardroom
2. Manager's office
3. Secretary and files
4. Files
5. Upper Peacock stage
6. Peacock air extraction
7. Abbey air extraction
8. Upper Abbey stage
9. Staff toilet
10. Staff lockers
11. Stores
12. Kitchen
13. Servery
14. Green room
15. Reading
16. Designer's studio
17. Wash-up
18. Chief designer
19. Store
20. Lavatory
21. Roof garden
22. Sunken garden
23. Escape from fly gallery
24. Escape from grid
25. Escape from lighting gallery and workshop and fly gallery
26. Founders' room
27. Lift

robe area at the third floor level, and the rehearsal rooms, have high level windows. On the fourth floor offices, canteen and club rooms are grouped round the central roof garden.

The basement contains heating and ventilating plant rooms and also the Peacock Theatre with its stage and dressing rooms. The stage has been provided with a flying system and the fly tower has been ingeniously worked into the rest of the building so that it conforms with the fire safety regulations.

The Peacock is supposed to be for experimental productions; it is certainly not a very experimental shape. There is virtually no wing space and, excellent though it is, the flying apparatus has its limitations. One would have thought that a more flexible and adaptable layout would have been appropriate for experimental purposes. Evidently the word "experimental" is not intended to cover methods of staging.

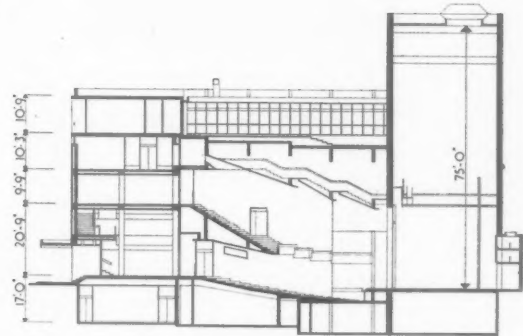
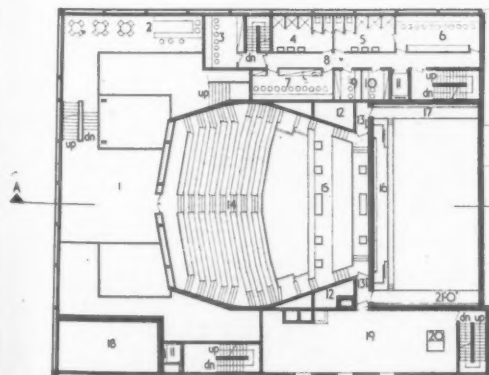
So far the project has been approved by the Irish Government but no estimate of costs has yet been given and it is not known when building work will begin.



Third floor plan

Third floor

1. Director's office
2. Scripts
3. Rehearsal room No. 1
4. Rehearsal room No. 2
5. Rehearsal lobby
6. Wardrobes
7. Sewing
8. Reception
9. Finishing
10. Fitting room
11. Lighting projection
12. Lighting galleries
13. Upper workshop
14. Cleaner
15. Store
16. Lavatory
17. Escape to open air
18. Lift
19. Corridor
20. Duct

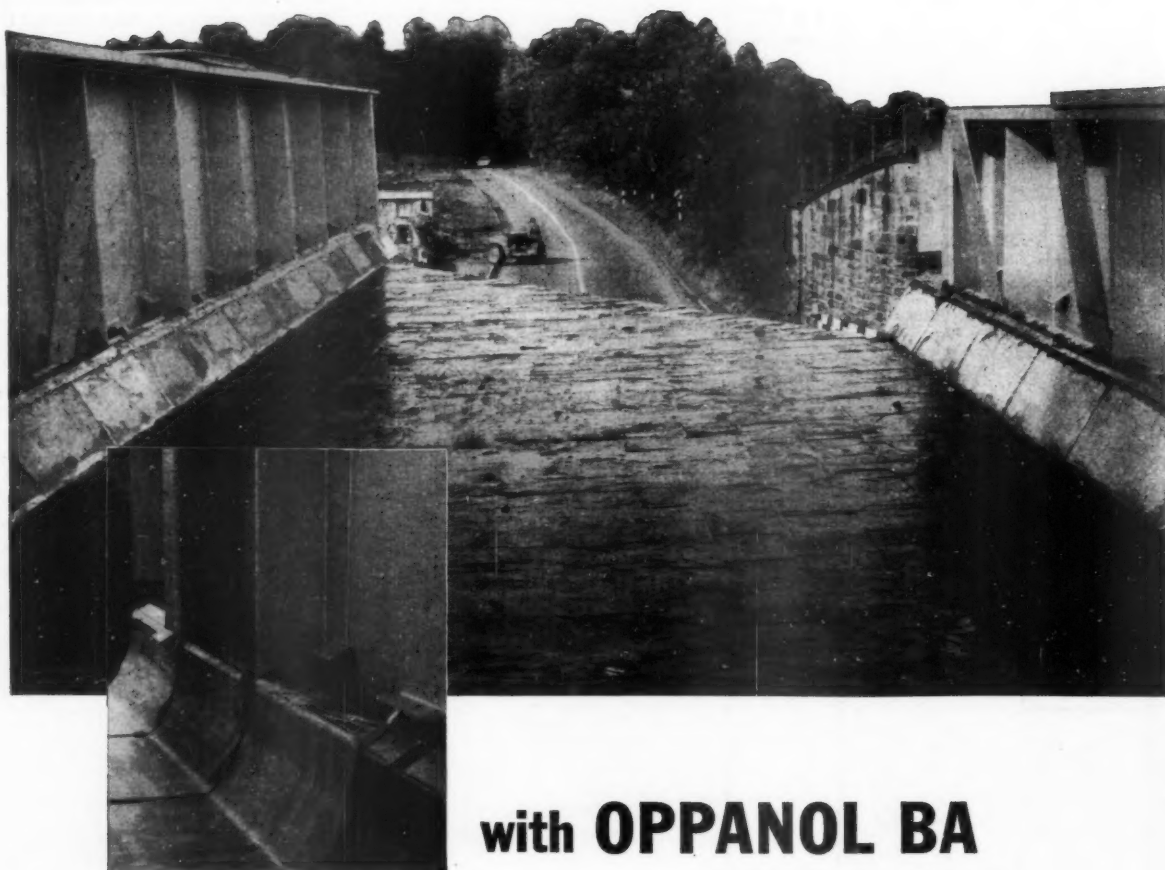
Section A-A [Scale: $\frac{1}{4}'' = 1' 0''$]

Second floor plan

Second floor

1. Balcony foyer
2. Coffee bar
3. Dressing room No. 7
4. Male toilet
5. Female toilet
6. Female chorus
7. Male chorus
8. Corridor
9. Dressing room No. 8
10. Dressing room No. 9
11. Lift
12. Duct
13. Open air lobby
14. Balcony
15. Lighting gallery
16. Lighting bridge
17. Fly gallery
18. Upper Peacock stage
19. Workshop
20. Hatch to scenedock

bridging the years



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Photograph shows the deck before completion, with the bridge superstructure still to be rolled into its final position. (Courtesy of British Railways, Scottish Region)

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The most durable of all waterproofing materials, Oppanol BA is now protecting the steel plate flooring on a new bridge carrying the railway over the Glasgow/Greenock Trunk Road at Langbank, Renfrewshire . . . flooring which is then covered with concrete slabs and ballast and hidden from inspection. Easily laid, Oppanol BA has the essential strength and flexibility to withstand continued vibration in a structure of this kind. It does not swell, rot or age, and its use completely eliminates the need for periodic maintenance work. Ideally suitable for proofing bridges, and for all roofs, floors, foundations, tanks and tunnels, Oppanol BA ensures lifelong protection wherever waterproofing is a problem.

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building illustrated

Theatre workshops for the Old Vic, The Cut, London, S.E.1

THEATRE WORKSHOPS

for the OLD VIC, THE CUT, LONDON, S.E.1; designed by E. D. LYONS, L. ISRAEL and T. B. H. ELLIS
assistant-in-charge JOHN MILLER; quantity surveyors MERCER and MILLER; consultants (structural) HAJNAL and MYERS

The Annexe has been designed to accommodate the scenic and workshop organisation of the Old Vic Theatre. The cost of the building has been largely paid for from the proceeds of the many artistically and financially successful overseas tours made by the Old Vic company.

The south elevation from The Cut.

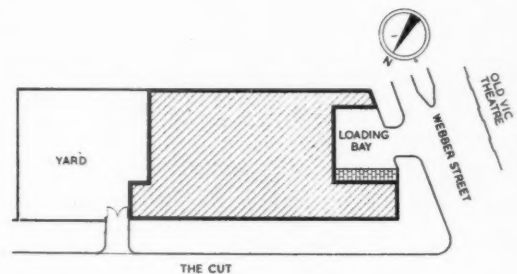


building illustrated

APPRAISAL: The building has no known predecessor as a building type and the architects have had, in consequence, to evolve a new functional programme in collaboration with the production manager. That only minor re-adjustments in the accommodation of less important elements has occurred during the client's "settling in" period shows that the spatial co-ordination of function has been extremely successful. No attempt has been made to relate the building directly to the architectural character of the neighbourhood, which is not only undistinguished but sordid and debilitated; nor has it been associated architecturally with the Theatre, from which it is divorced physically by a street and differentiated by its function.

In appearance it is an honest industrial building with the elements of the reinforced concrete frame exposed both internally and externally; its aesthetic value derives mainly from the consistency with which this idea is applied.

Opposite page, the building from the northwest. The edge beams along the main road frontage project slightly beyond the column face so that the external leaf of the brick cavity wall covers the columns. This brick skin shows clearly as a non-loadbearing element at all the return faces. The boardroom, above the high access way on the right of the photograph, is supported independently of the main structure and follows the line of the side road.



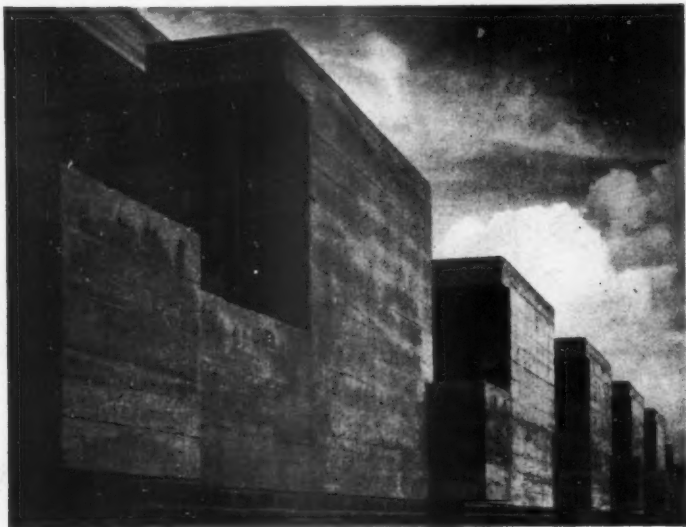
Site plan

Below, a closer view of the main entrance for personnel and administrative staff, on the side road. This is obviously the logical place for it: not only is there a great deal of to-ing and fro-ing between the workshops and the theatre, but this is the main direction of approach from Waterloo Road.

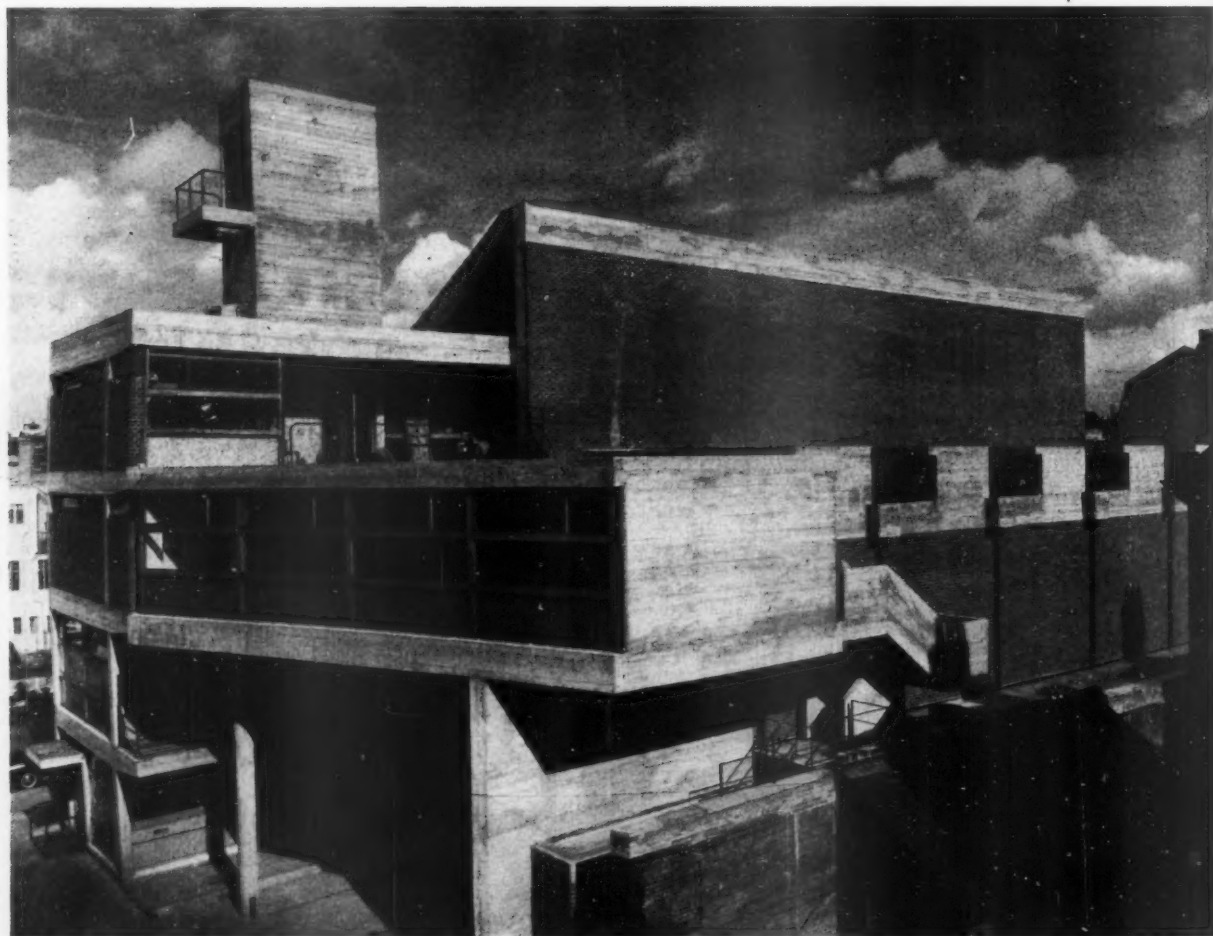




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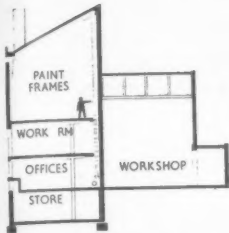
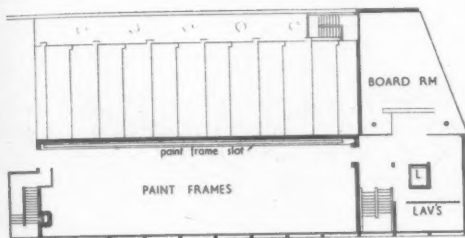
Below, a general view looking across the side road from the Theatre. In the background is the south face of the block containing the paint room. The paint frame is immediately behind this wall. On the left are the smaller workshops below the tank and ventilating plant superstructure. The boardroom, foreground, is of monolithic reinforced concrete construction; the end wall is lined internally with glass wool and faced with Columbian pine vertical boarding. To the right, below the paint frame wall, can be seen the roof of the large workshop. This is shown in greater detail left. The reverse sides of the upstands are glazed, while the ribs on the forward planes, and those on the fascia form the somewhat more than adequate rainwater outlets, with the rain-water pipes carried down externally. The concrete surfaces seen here in close-up are typical of the finish on all the structural elements; this is achieved by using 6-in. sawn boarding with china clay as an additive to the aggregate to overcome the dull, grey colour of normal concrete mixes. To prevent discoloration the formwork is used dry, i.e., without mould-oil, and it is claimed that, provided sufficient delay is allowed before striking, the formwork comes away easily. To retain the rough sawn surface of the formwork, it was cleaned down between uses with wire wool and not wire brushed as is normal practice. The slight gaps occurring naturally between the boards and the tolerance differences in thickness were sufficient to give the degree of board pattern shown here.



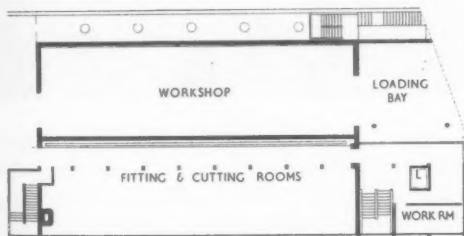
analysis

CLIENT'S REQUIREMENTS

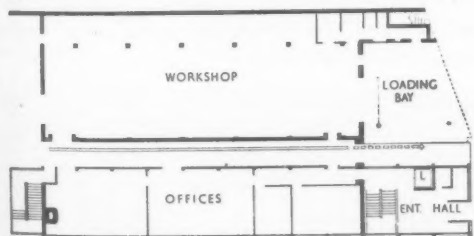
Previously the many units for costume making, properties, scenic workshop, paint room, wardrobes, etc., of the Old Vic have been scattered about London in whatever accommodation could be found and this made considerable difficulties for the management, producers and actors. A new workshop block was required to bring all these functions together into one building alongside the theatre.]

Cross section [Scale: $\frac{1}{8}$ " = 1' 0"]

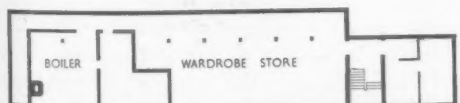
Second floor plan



First floor plan



Ground floor plan

Basement plan [Scale: $\frac{1}{8}$ " = 1' 0"]

SITE

The site is at the corner of a seedy street market road, facing the theatre across a side road, and flanked at the other end by shops. It is rather tight for the accommodation that had to be provided, has a difficult, acute return angle to the side road, and was subject to daylight angle restrictions.

PLANNING AIMS

The new paint room was of major importance as it had to accommodate a mechanically operated paint frame 30 ft. high, with downward travel into uninterrupted wells of 50 ft. This problem was made more difficult by the limitation of height for the building dictated by the town planning day lighting angles. Access had to be provided at ground floor level to permit these large frames to be carried across the road to the theatre.

SUMMARY

Ground floor area: 5,810 sq. ft.
Total floor area: 15,380 sq. ft.
Type of contract: RIBA standard form.
Tender date: April, 1957.
Work began: April, 1957.
Work finished: August, 1958.
Tender price of foundations, superstructure, installations and finishes: £79,688.
Final contract price: £74,887.
Tender price for external works: £2,466.
Final contract price: £3,967.
Total: £78,854.

	cost per sq. ft.	s d
Preliminaries and insurances	6	11
Contingencies	1	7
Work below ground floor level	13	6
Column bases, 5 ft. 6 in. \times 5 ft. 6 in. \times 1 ft. 6 in. of 1:2:4 concrete.		
1-ft. 3-in. reinforced concrete retaining walls to basement, of 1:3:6 concrete.		

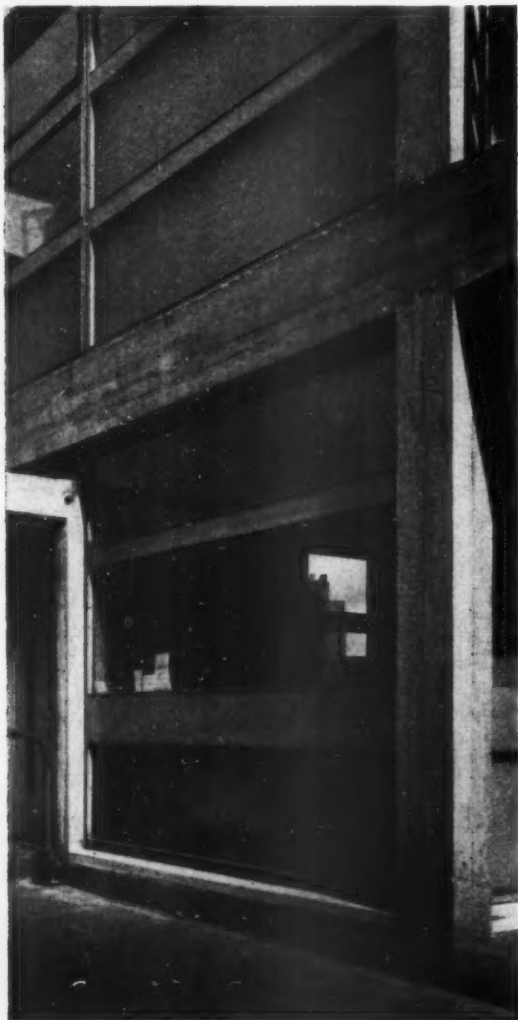
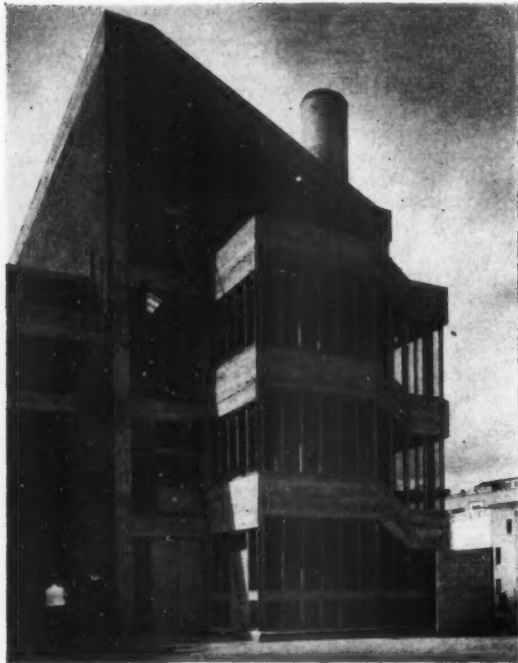
STRUCTURAL ELEMENTS

Frame or load-bearing element	10	0
Mainly column and beam.		
Columns average 12 in. \times 9 in. and beams 1 ft. 11 in. \times 9 in.		
Structural members are sized to conform to brick dimensions.		

External Walls	6	8
Infill panels of 11-in. cavity brickwork white sand limes internally and dark purples, sand faced, externally.		

$$\text{Ratio: } \frac{\text{solid wall}}{\text{floor area}} = \frac{0.549}{1}$$

building illustrated



Top left, the building from the east. The pitch of the main roof structure overcomes the problem of the day-lighting angle yet permits the maximum height to one wall of the paint room. The small gantry serves for hoisting materials to the paint room.



In the paint room, above, the backcloths are supported on electrically operated paint frames which permit them to be raised or lowered at the touch of a button. Excellent top lighting is provided by the patent glazed roof lights. The electric light battens at high level can be lowered to allow the "jellies" to be changed, so that the precise conditions of stage lighting can be reproduced and right colours achieved. As a safety precaution the gap between the edge of the floor slab and the paint frame is reduced by a foot-board which can be hinged backwards to allow the frame to be lowered. Both the paint room and the workshop have forced warm air heating units, instead of radiators as elsewhere on account of their high ceilings.

Bottom left, timber throughout, to internal and external doors and panel windows is Columbian pine, specified clear of knots and varnished with two coats of primer before delivery and three finish coats on site. Timber is one of the very few materials used which demands a protective finish and varnish was chosen since it detracts least from the quality of the natural material. The obvious problem in the use of concrete left from the formwork (and one which is apparent in this photograph) is the method of dealing with junctions between columns and beams and the joints between column lifts.

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Windows

Wood frames of Columbian pine varnished with 2 coats primer and three finishing coats of varnish.

$$\text{Ratio: } \frac{\text{windows}}{\text{floor area}} = \frac{0.211}{1}$$

External doors

Columbian pine. 1 pair of double doors.

$$\text{Ratio: } \frac{\text{doors}}{\text{floor area}} = \frac{0.031}{1}$$

Upper floors

Reinforced concrete with average span of 10 ft. 3 in.

792 sq. ft., 5 in. thick.

6,597 sq. ft., 6 in. thick.

360 sq. ft., 10 in. thick.

900 sq. ft., 12 in. thick.

Staircases

In-situ reinforced concrete finished terrazzo to main stair, grano to escape stair.

Roof construction

Proprietary prestressed concrete beams with woodwool slab and structural screed. Area, 1,305 sq. ft. 1½-in. cork slab insulation. Finished with screed to falls and ½-in. asphalt.

Other roof slabs are of r.c. insulated with 1½-in. cork:

4,473 sq. ft., 4-in.

270 sq. ft., 4½-in.

153 sq. ft., 6-in.

900 sq. ft., 8-in.

Rooflights

5 dome lights, total area, 63 sq. ft.

Patent glazing, 773 sq. ft.

Glazing

24-oz., 32-oz., and ½-in. plate glass, according to size of windows.

Total of structural elements:

33s 8d

PARTITIONS AND FITTINGS

Internal partitions

4½-in. brick, 1,170 sq. ft.

13½-in. fire check wall, 2,900 sq. ft.

W.c. partitions, finished in terrazzo, 173 sq. ft.

Screens

Columbian pine panel frames, glazed.

Internal doors

Columbian pine, flush ply faced.

49 single; 12 double.

Ironmongery

Anodised aluminium.

Fittings

Motorised paint frames, worktops, hanging wardrobes, etc.

fire resisting doors and shutters

Total of partitions and fittings:

14s 2d



The large ground level scenic workshop, above, is separated from the remainder of the accommodation by a 13½-in. brick firestop wall, a requirement of the LCC building regulations. The area to the right of the photograph, with a lower ceiling, houses a timber-rack at the far end and sundry woodworking machinery. It is one of the few really noisy areas in the building and has been isolated for this reason.

Below, the staff entrance hall. Internal finishes are largely similar to those used externally, i.e., fair faced brickwork, natural concrete, varnished frames to windows, etc., these being considered more suitable for a workshop interior and less susceptible to damage than applied finishes. It is, of course, impossible within the terms of this discipline to chase in services, and all these, with the exception of the electric conduits (which can be buried under the screed) run on the surface but are carefully designed to do so without visual offence.



analysis

FINISHES

Floor finishes

Type of finish	Area in sq. ft.	Price per sq. yd.
Granolithic	8,901	10s 9½d
Blue black quarry tiles	1,809	32s 6d
Thermoplastic tiles	4,500	23s 0d
Terrazzo	360	67s 0d

Wall finishes

Fair-faced brickwork and concrete surfaces, plastered in kitchen, lavatory and kitchen.

Ceiling finishes

Emulsion paint direct to concrete soffits.

Roof finishes

¾-in. asphalt
Area, 4,932 sq. ft.

Decorations

Total of finishes: 8s 8½d

SERVICES

External plumbing

Cast-iron r.w.p.s.

Hot and cold water services

Cold water storage in a tank on the roof.
Hot water supplies from 2 kW storage heaters servicing wash basins and sinks.

Sanitary fittings

Type of fitting	No. of each type
Sinks	7
Lavatory basins	9
Low level w.c. suites	7
Urinal	1

Heating and ventilation

Mechanical ventilation to paint frame room, with fan motors and equipment housed in superstructure on roof.
Hot water radiators supplied from an oil fired boiler in the basement.
Hot air circulators to workshops and paint frame room.

Gas installation

Electrical installation

Type of fitting	No. of each type
Light points	177
13-amp sockets	48
Points for ½ h.p. fanheaters	10
Water heaters	3
Wood work machines	6

s d

3 2½

Lifts

1 electric goods lift serving five floors.

Total of services:

19s 7½d

Drainage

Salt glazed. C.i. under building.

Total cost per sq. ft. of floor area:

£74,887 (excluding external works)

15,380 (measured within external walls)

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COST COMMENTS

This building is undoubtedly tailor-made around rather special requirements and is a type of building unlikely to be repeated often.

The main planning consideration is that of providing a suitable method of scene painting. The large paint frames dominate the overall construction and have to a certain extent influenced the cost pattern notably in the following instances:

(a) 13½-in. brick spine wall for the full height of building, together with fire check doors.

(b) Provision for slot openings for the paint frame to all floors.

(c) Two forms of heating, one for workshop and paint room and one for the remainder.

(d) Special electrical fittings to simulate theatre conditions. The unusual storey height of the workshop and paint room, together with the fairly high costing structural elements, shown in the analysis, to produce these conditions, perhaps bring into better perspective the unexpectedly high overall floor area cost of 97s. 5d. per sq. ft.

There are several other considerations to be noted when examining this analysis; for example, the provision of a basement, although accounting for 13 per cent of the total cost, is undoubtedly necessary on a restricted site when height is governed by by-laws.

The internal glazed screens are surprisingly more costly per sq. ft. of floor area than the internal partitions, but this might well be a reflection of the mixture of the austere with the expensive. This can be seen from the finishing schedule; the working areas have painted brickwork or concrete with granolithic floors as compared with panels and terrazzo floors provided elsewhere.

CONTRACTORS

General contractors: Chas. S. Foster & Son. Subcontractors: paint frames: W. J. Furse & Co. Mechanical services: Young, Austen & Young Ltd. Electrical services: Electrical Installations Ltd. Lift: Express Lift Co. Ironmongery: James Gibbons Ltd. Aluminium roof: Frederick Braby & Co. Fire doors: Mather & Platt Ltd. Metal windows: Crittall Manufacturing Co.

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STAIRCASE: TECHNICAL COLLEGE AT REDCAR

Gollins, Melvin, Ward and Partners, architects

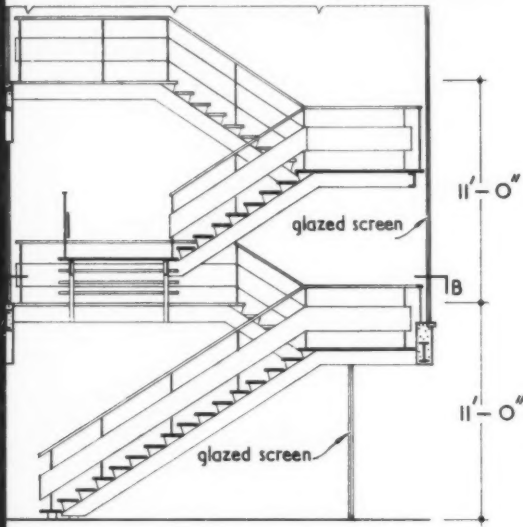
This detail is notable for the consistent sinking of all fixings within the bounding planes of the primary surfaces. The cost of this stair (which, with its landings, is of liberal dimensions) came out at £58 per foot rise. This was made up as follows:

<i>Structural steel</i>	£14
<i>Mahogany treads and landings</i>	£13
<i>Balustrade and handrail (excluding guard)</i>	£12
<i>Guard to balustrade</i>	£19

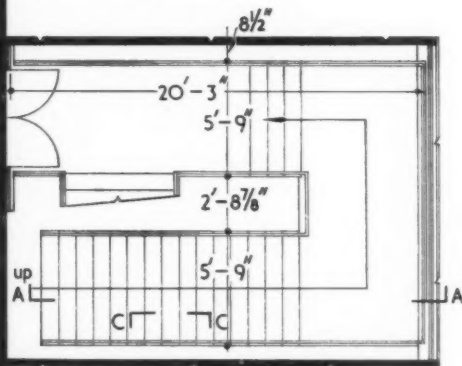
It will be noticed that the most costly item was the guard to the balustrade which was of plywood mahogany-veneered on all surfaces.

STAIRCASE: TECHNICAL COLLEGE AT REDCAR

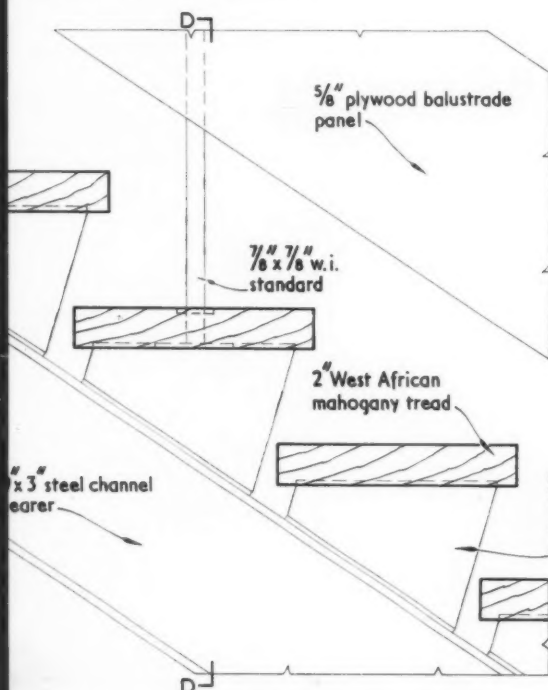
Hollins, Melvin, Ward and Partners, architects



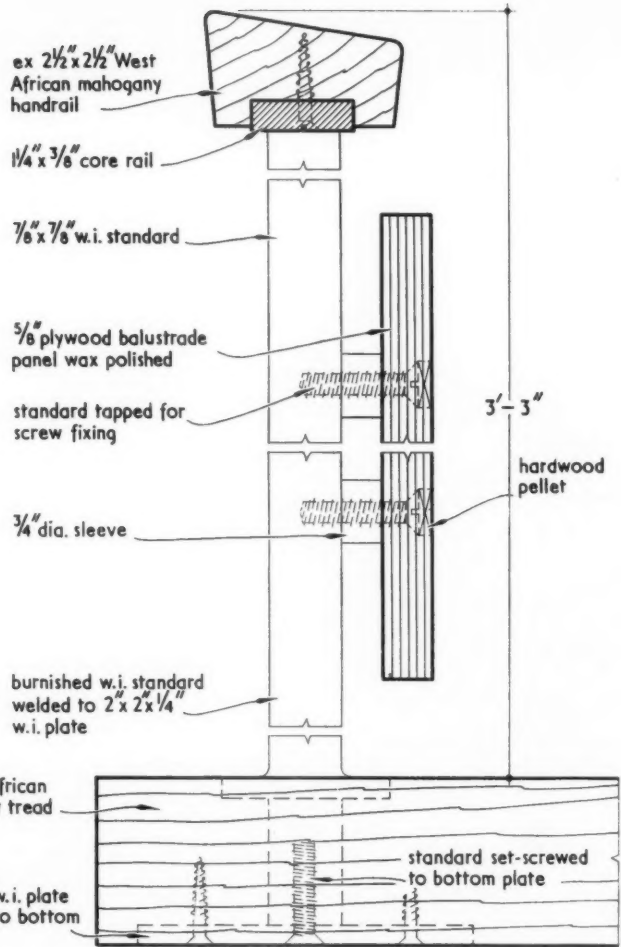
SECTION A-A. scale $\frac{1}{8}" = 1' - 0"$



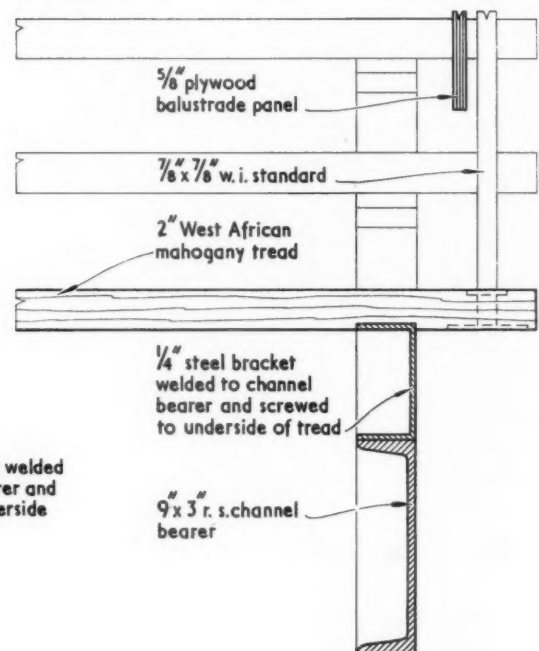
PLAN AT B-B. scale $\frac{1}{8}" = 1' - 0"$



SECTION C-C. scale $\frac{1}{8}$ full size

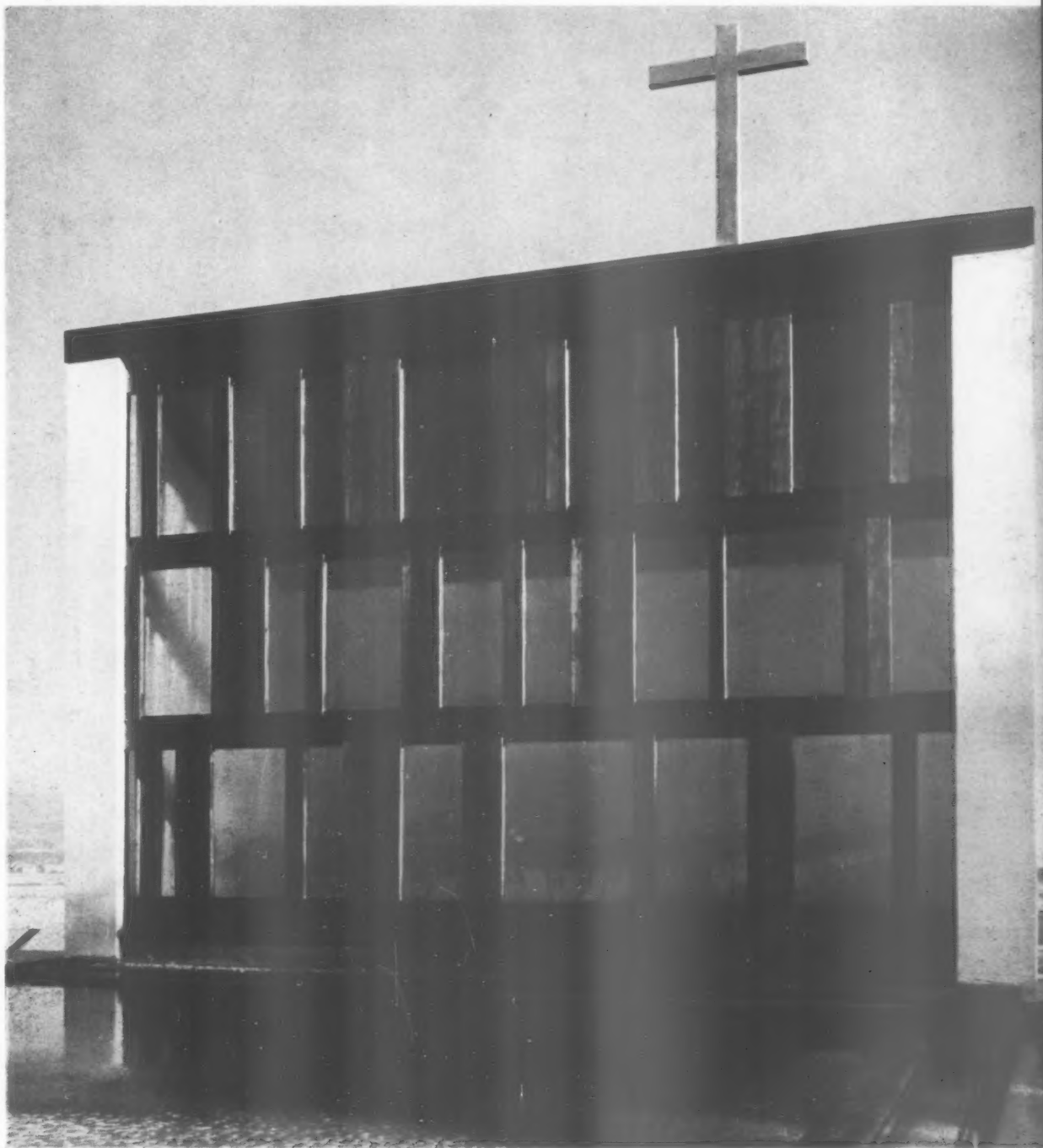


DETAIL OF STANDARD AND HANDRAIL. scale $\frac{1}{2}$ full size



SECTION D-D. scale $\frac{1}{8}$ full size

CLERESTORY WINDOW: CHURCH AT GLENROTHES, FIFE

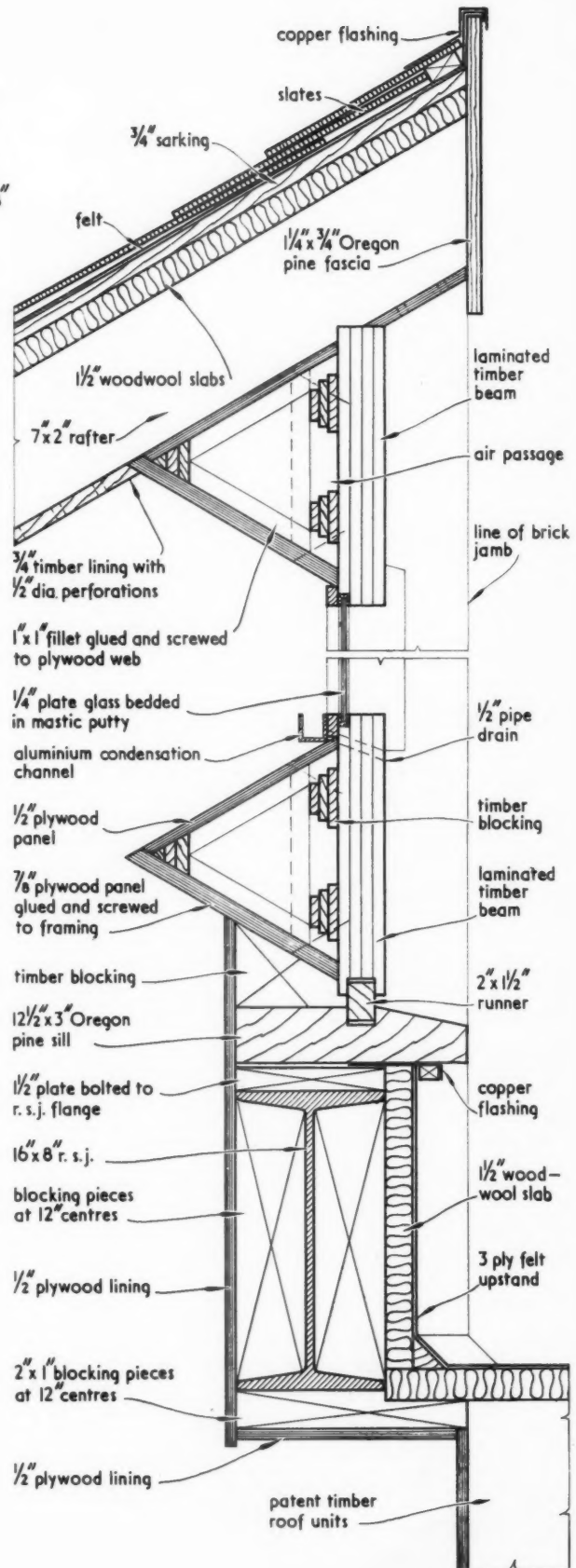
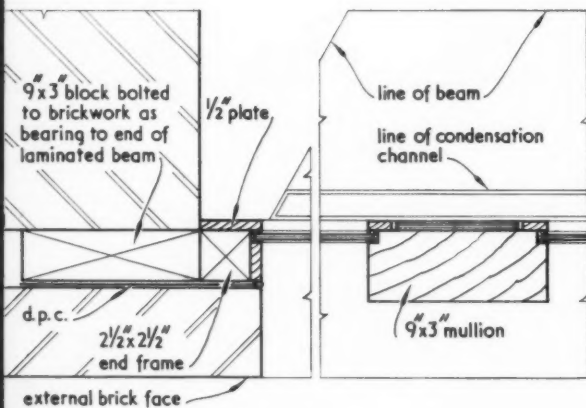
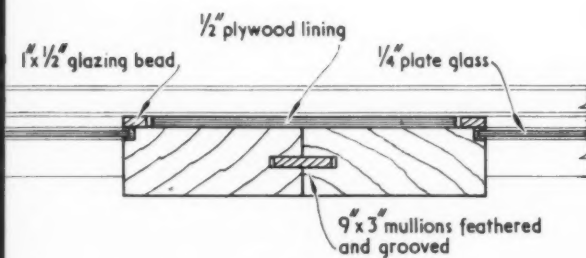
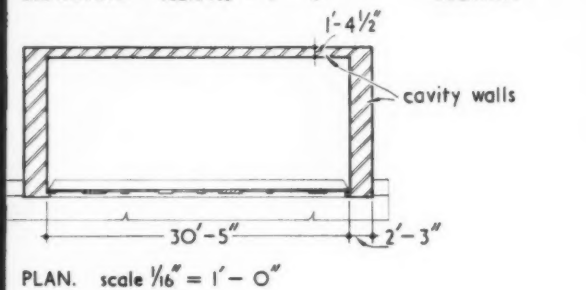
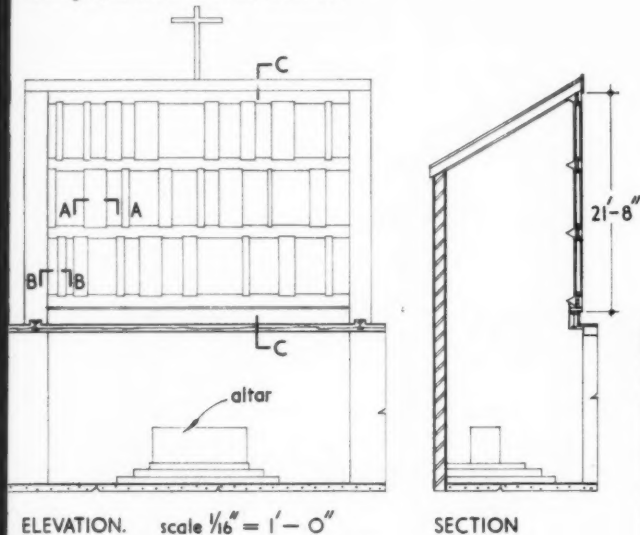
Gillespie, Kidd and Coia, architects

The drawing of this clerestory shows the careful detailing necessary when timber members are used which are exceptionally large and simple in cross-section. The main support is provided by the transoms which are supported at their ends by timber blocks lying in the cavity and bolted to the brickwork. Note the inclusion of a condensation channel at the top edge of each transom.

working detail

CLERESTORY WINDOW: CHURCH AT GLENROTHES, FIFE

Gillespie, Kidd and Coia, architects



T

●



Architect:

THE BROOKWOOD MEMORIAL



Architect: R. Hobday, A.R.I.B.A., Senior Architect to the Imperial War Graves Commission.

Broughton Moor Light Sea Green Slate

was chosen for its lasting beauty to preserve the names of 3,500 men and women of the Commonwealth who died on active service during the second world war, and who have no known graves. Their names are carved in the twenty-eight panels of Broughton Moor Light Sea Green slate set in the circular columns of the Brookwood Memorial, recently unveiled by the Queen. Chiselled deep into the glassy surface of the highly polished slate, the names are clear and legible. This beautiful green slate from the Lake District, rugged and hard, will defy the tooth of time to preserve the names for centuries to come.

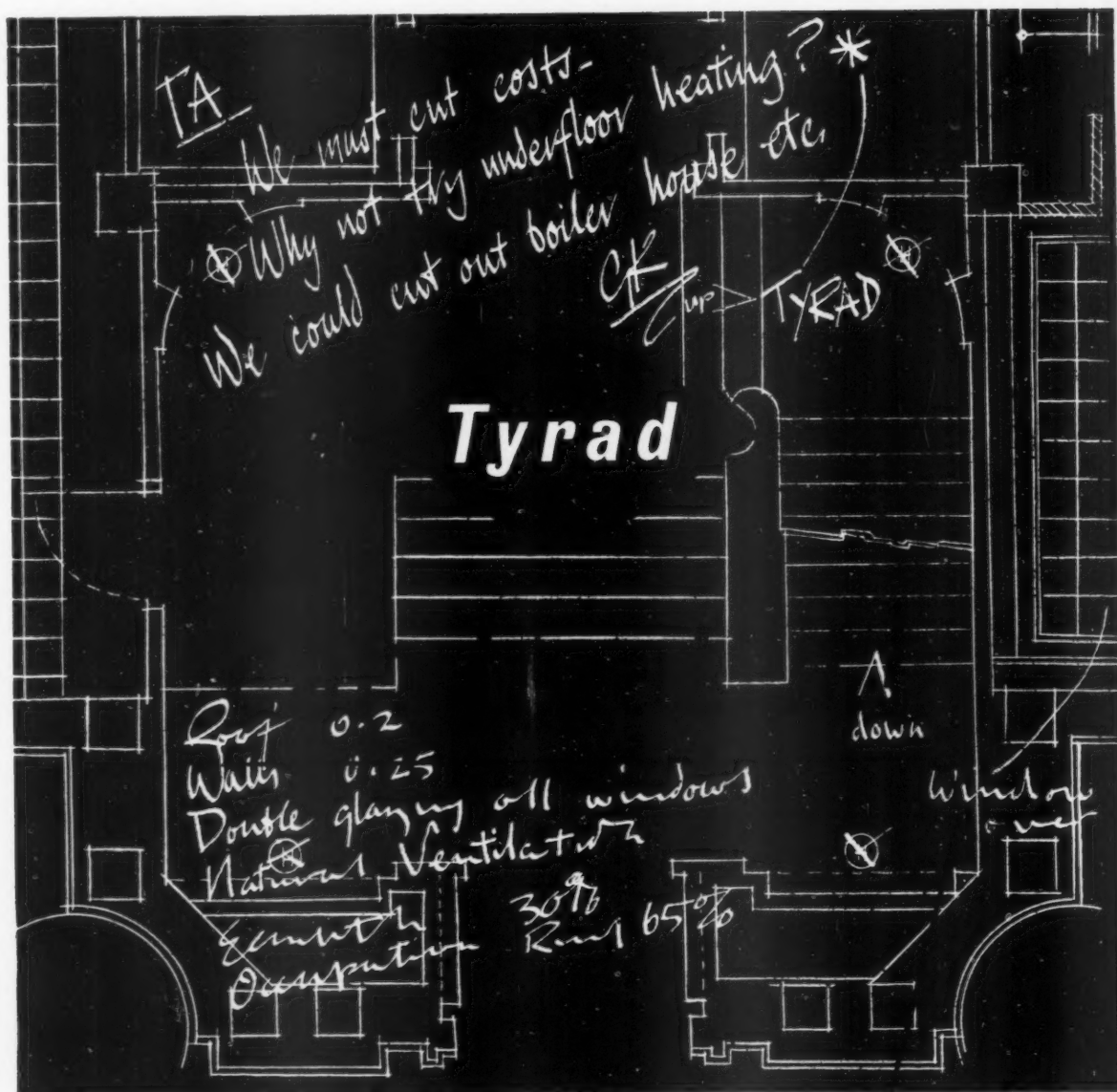


A section of Broughton Moor Slate, showing the highly polished finish. Finely rubbed, naturally riven, sanded and frame sawn finishes are also supplied, and technical pamphlets showing typical methods of fixing are available, as follows: 1. Flooring. 2. Facings. 3. Coping. 4. Cills. 5. Riven Face Slabs.

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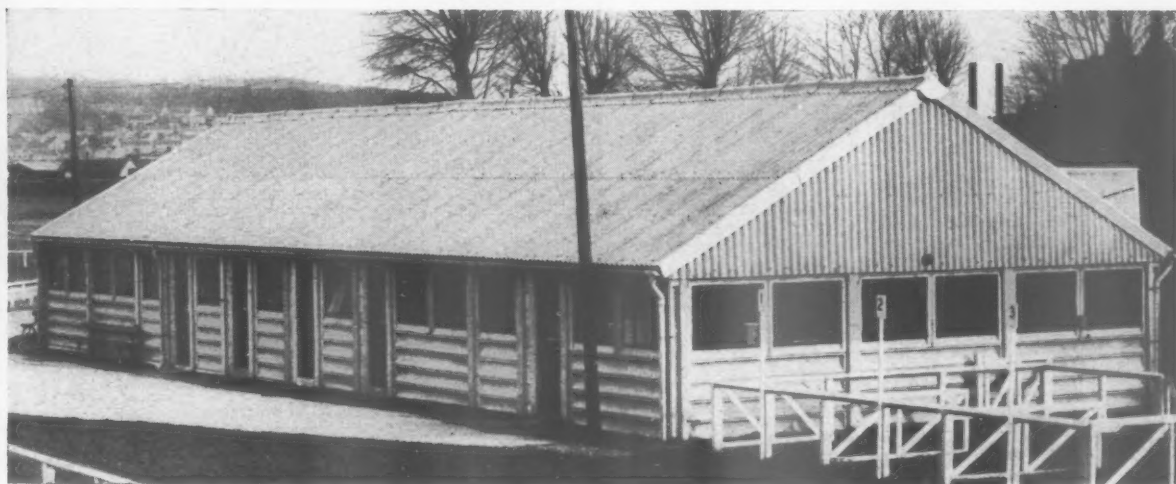
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In single or multi-tier units for floor and wall fixing.

HOME FOR INFIRM OLD PEOPLE AT PUTNEY



A new home for old and infirm people has been built at Putney by the LCC (Architect to the Council, Hubert Bennett) and is the fifth in a series of such homes to be built since December, 1957. Built on two levels consisting of two two-storey blocks and one three-storey block the home is designed to house 72 old people in either single rooms or sets of two and four. The tenants on each floor share a bathroom which they use on a rota system. As the majority of the people are infirm as well as old, no cooking facilities are provided in the rooms and the tenants eat in a communal dining room situated on the ground floor. The kitchen is in the basement below the dining room. Also on the ground floor are recreation rooms and management offices. Further attention has been paid to the special needs of old people by the provision of lifts to each block. The general contractors are Sloggetts (Contractors) Ltd. We hope to illustrate this building more fully in a later issue of the JOURNAL.



MARLEY GO RACING

Marley Concrete Buildings have become established favourites. The Totalisator Stand at Newton Abbot Racecourse is yet another example of their varied use, which stems from a number of basic advantages. These include highly competitive cost, durability, minimum maintenance, a full erection service, adaptability and spans up to 50ft.—while form is never neglected. Full details of Marley Buildings are available on request.

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Announcements

PROFESSIONAL

Duncan Scott, Brownrigg and Turner, F/A/A.R.I.B.A., would be glad to receive trade literature at their recently opened office at 41/42, Parliament Street, S.W.1 (telephone Trafalgar 5541).

Arthur J. Miller, M.C.D., B.A.R.C.H., A.R.I.B.A., has moved his office to 25, Queen Victoria Street, Reading, where he will be pleased to receive trade catalogues.

L. A. Culliford, F.R.I.B.A., F.R.I.C.S., M.T.P.I., has retired from the firm of L. A. Culliford & Partners. The practice will be carried on by the remaining partners, Leslie A. Chackett, F.R.I.B.A., F.R.I.C.S., Jeffrey W. W. Lyde, A.R.I.B.A., and Richard Henniker, M.A., F.R.I.B.A.

Douglas A. Smith, A.R.I.C.S., A.I.A.R.B., is now practising as a chartered quantity surveyor at 29, Manchester Street, W.1, and at 7, The Millbank, Ifield, Sussex (telephones Hunter 1532 and Crawley 2255).

TRADE

G. E. North has been appointed to the board of Myton Ltd., one of the Taylor Woodrow Group of building and civil engineering companies.

The General Electric Co. Ltd. has made the following new appointments within its Lighting Division: D. W. Durrant—Commercial Manager; C. Dykes-Brown—Sales Manager, and D. A. Hart—Manager, Exterior Lighting Section.

Murray Bolser, A.M.I.E.E., has joined the Board of Directors of HVE (Electric) Ltd.

G. C. Harrison has been appointed Public Address Representative for the South-East Region of Philips Electrical Ltd.

E. K. Cole Ltd. have appointed F. H. Spurling as Press Relations Officer.

A. G. Mandry, Managing Director of Libraco Ltd. has retired from the Board.

Commercial Editorial Services Ltd. have moved to 3, Creed Lane, E.C.4 (telephone City 6303).

T. Pooley, Joint Managing Director, and E. L. Townsend, Overseas Director of Expandite Ltd., Chase Road, N.W.10, have left this country to visit Scandinavia; during their stay they will visit the company's distributors and manufacturing units.

Philplug Ltd. have now moved to Expandite's offices and orders should be sent to Philplug Ltd., An Expandite Company, Chase Road, N.W.10.

Holoplast Ltd. have moved their London office to 2, Caxton Street, S.W.1 (telephone Abbey 4866).

Mr. and Mrs. F. B. Coales, Directors of Winn & Coales Ltd., have left for an extended tour of the Caribbean and will visit the main Denso Agents in the West Indies, Trinidad and Venezuela.

All enquiries concerning AEI products should be addressed to Mazda House, 44, Fitzroy Road, London, N.W.1.

The English Electric Co. have moved their service centre from Hampstead to 231, The Vale, W.3.

High Duty Alloys Ltd. have opened a new Midland Sales Office at Queen's College Chambers, 38a, Paradise Street, Birmingham (telephone Midland 3286).

The two new vice-presidents of Reynolds Aluminium Sales Company are Keith E. Hall, general manager of industrial market sales, and Alfred H. Williams, Jr., general manager of architectural and building products market sales.

R. M. Taylor, C.B.E., has been appointed chairman of Richard Costain (Africa) Ltd.

Fablon Ltd. have moved to new offices at 49, Park Lane, W.1 (telephone Hyde Park 2155).

Simplex Electric Co. Ltd. have opened a new branch at 27, Franklin Street, Belfast. W. D. Hunter, B.Sc., A.M.I.E.E., has been appointed Manager.

The Nuclear Power Plant Co. Ltd. of Knutsford, Cheshire, have elected R. Edwin McAlpine as chairman of the company in succession to the late Sir Claude D. Gibb.

Norton & Gregory Ltd. have made arrangements whereby all distribution of their materials will be made by Lawes Rabjohns Ltd., Abbey House, Victoria Street, S.W.1.

Lawes Rabjohns have opened a new Photo-printing Centre, 141/142, Lower Marsh, S.E.1 (telephone Waterloo 3821).

Concrete Ltd. have appointed D. T. McKenzie as an additional London Representative.

The Birmingham, Glasgow and Manchester offices of The English Electric Co. Ltd. have been connected to the national Telex service. The office numbers are as follows: Birmingham—No. 33177. Glasgow—77423. Manchester—66428.

Multiglass Ltd. has now moved to 65, Haymerle Road, Peckham, S.E.15 (telephone New Cross 3668/9).

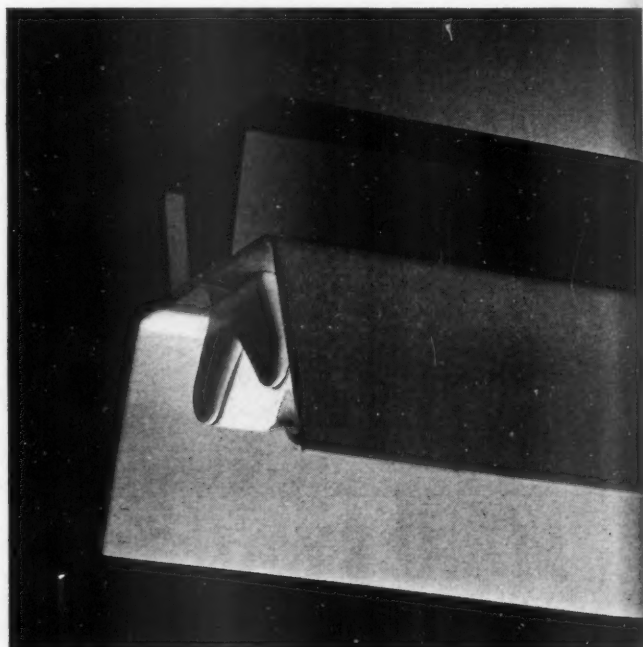
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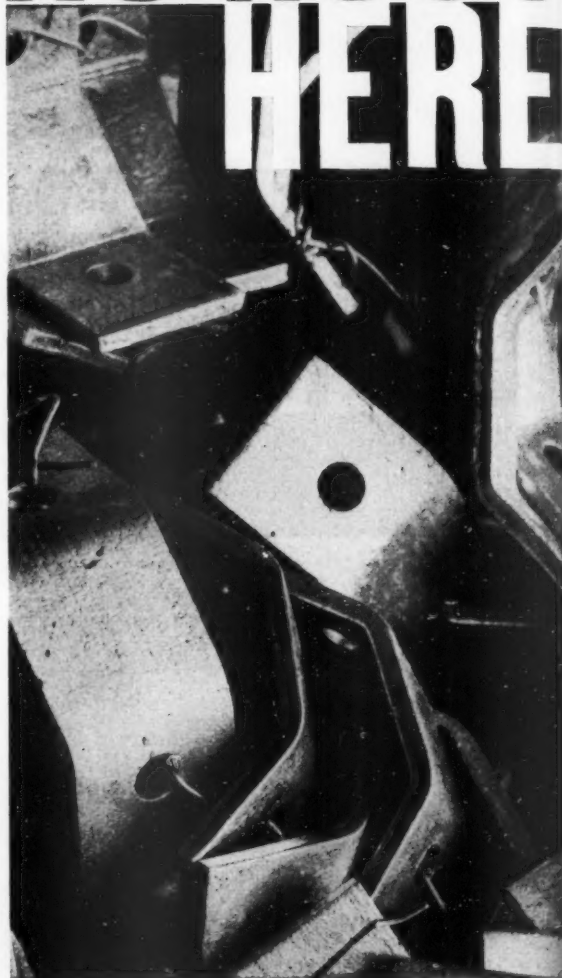
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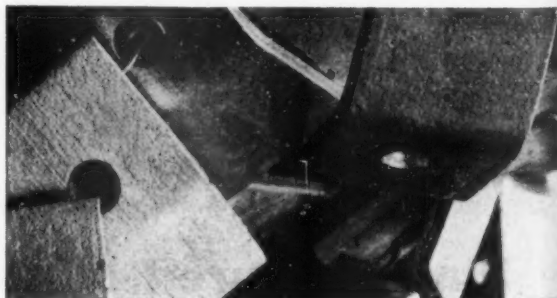
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THE ARCHITECTS' JOURNAL for February 19, 1959

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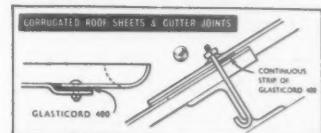
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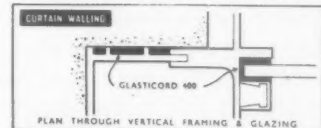
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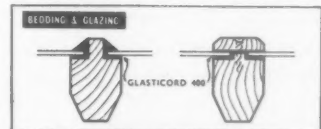
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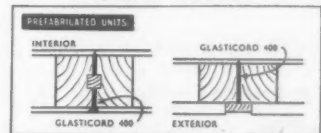
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The inclusion of "Bondenn" increases the resistance to load by as much as 68%. This additional strength is invaluable when foundations stand on made-up ground or on subsoil of doubtful character. In industrial structures, particularly where heavy and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

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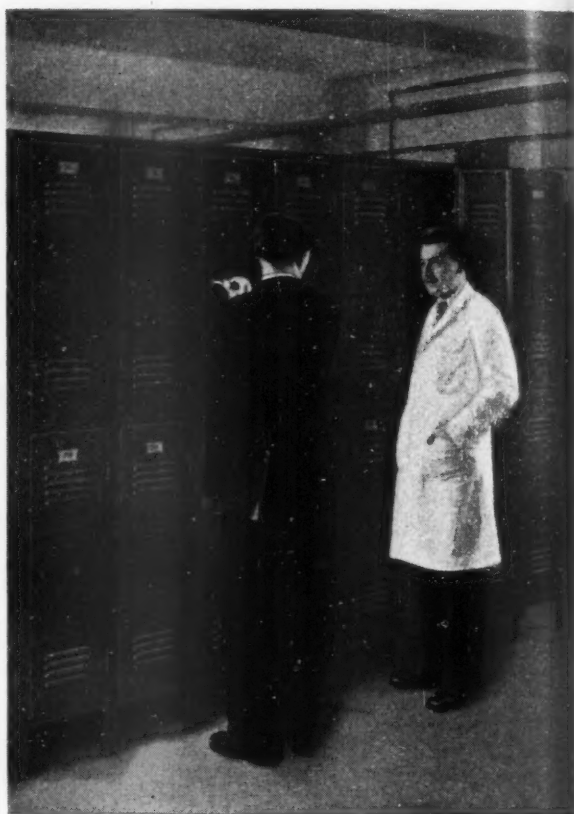
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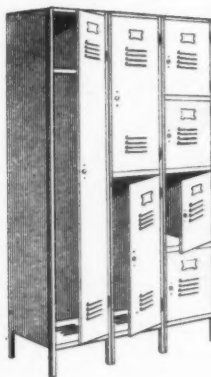
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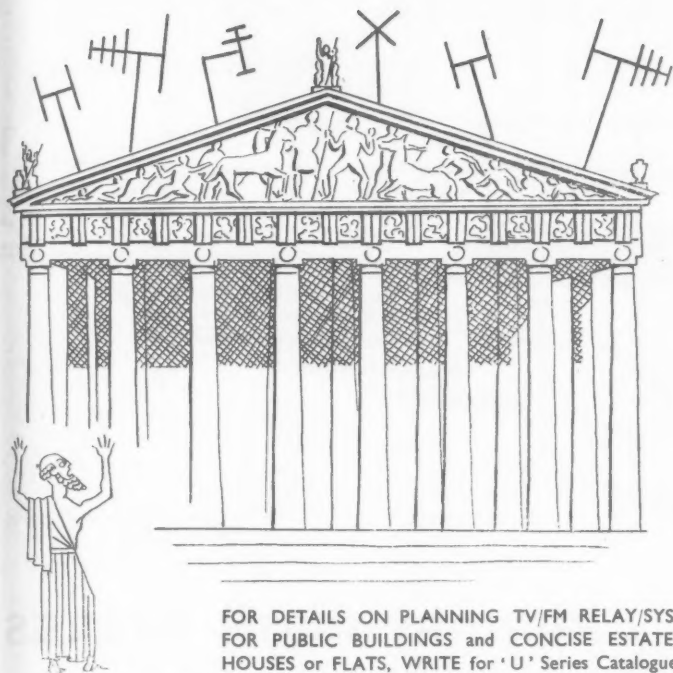
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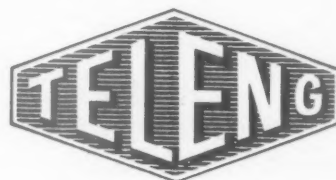


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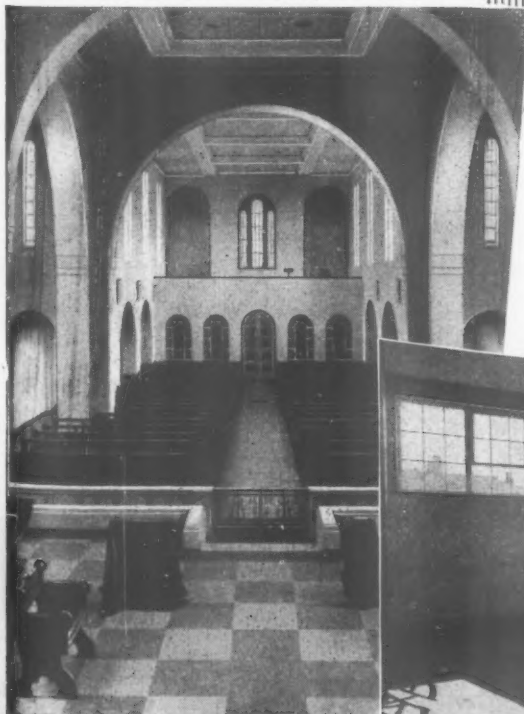
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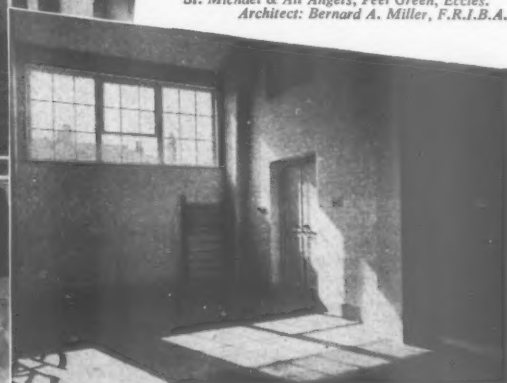


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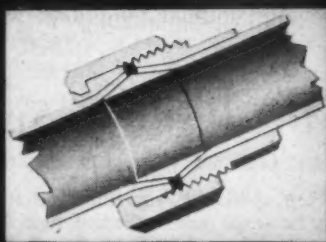
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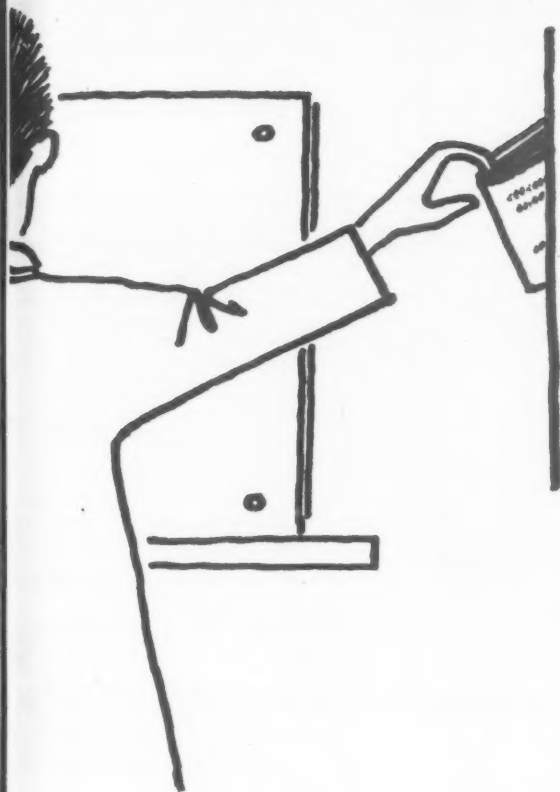
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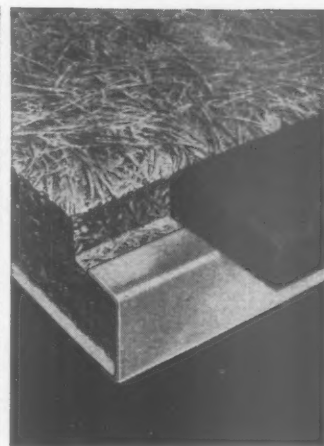
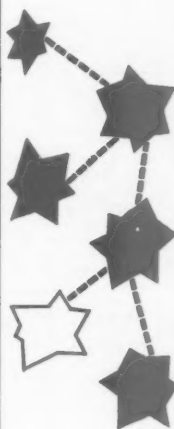
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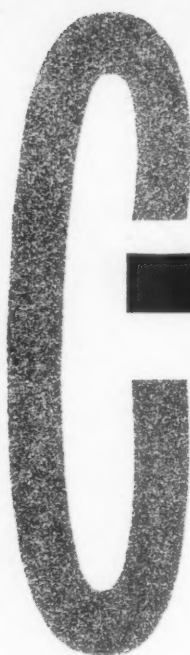
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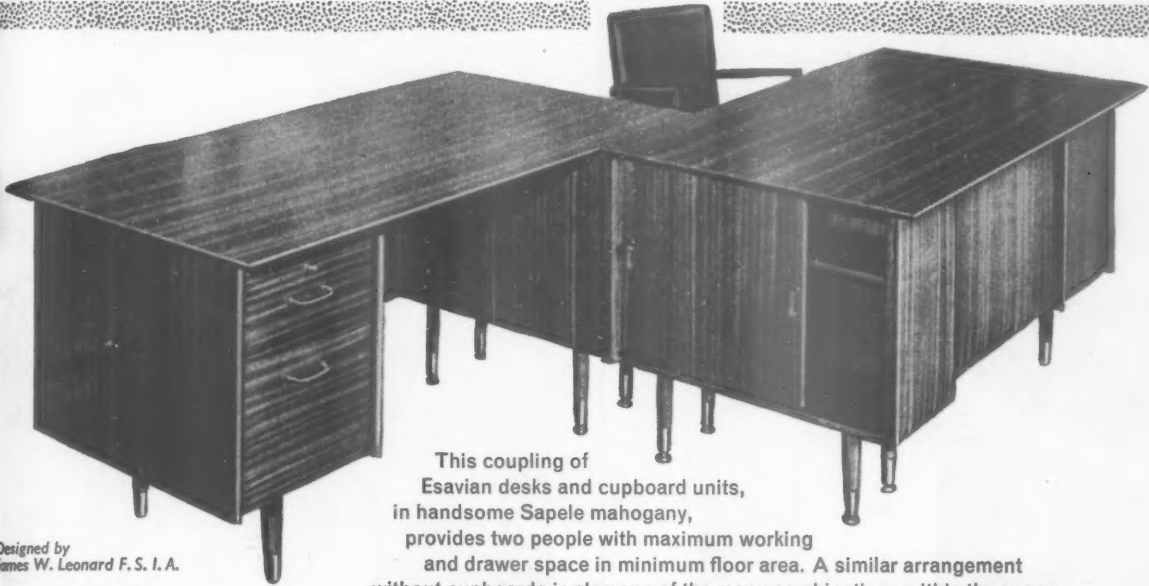
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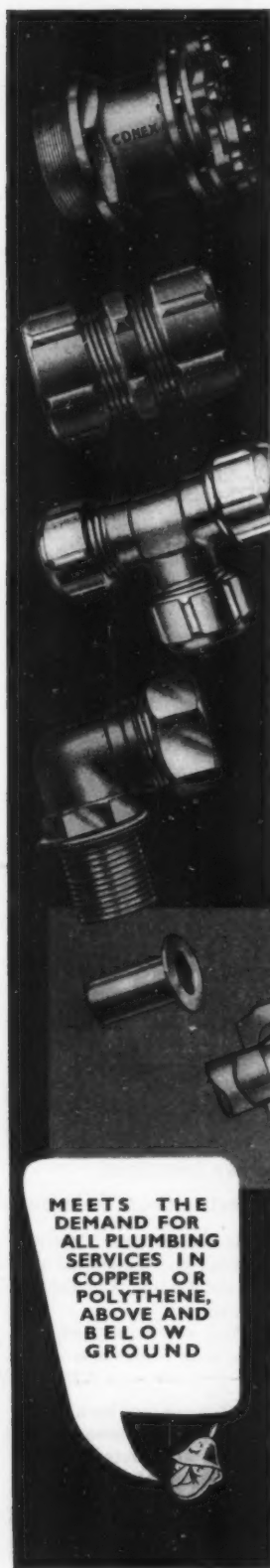
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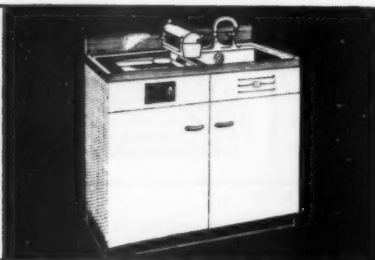
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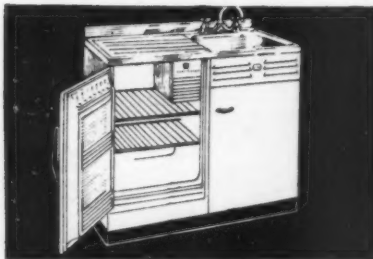
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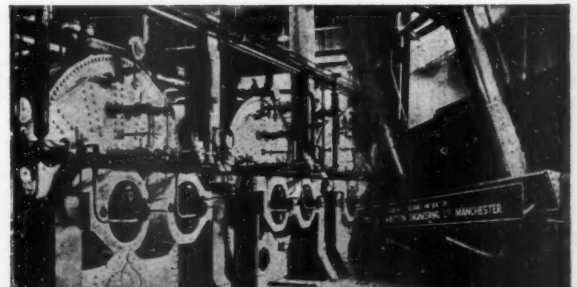
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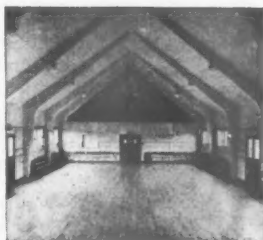
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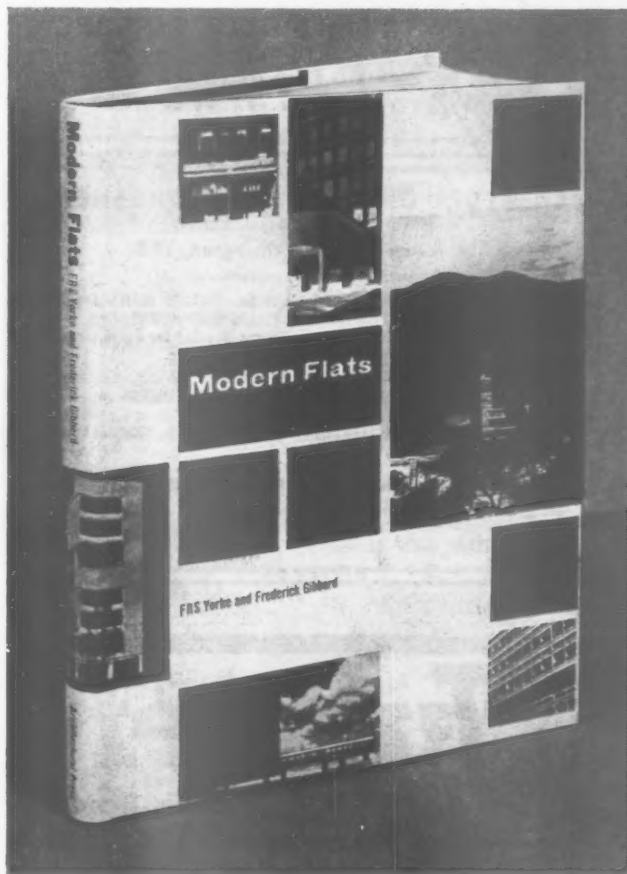
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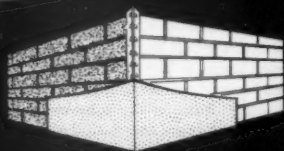
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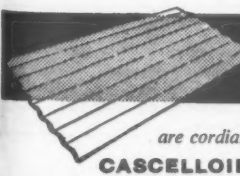
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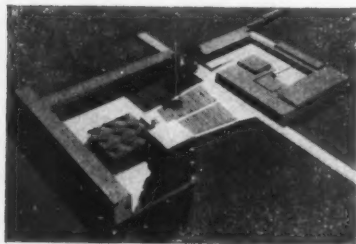
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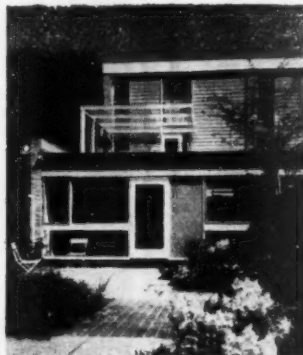
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FEBRUARY

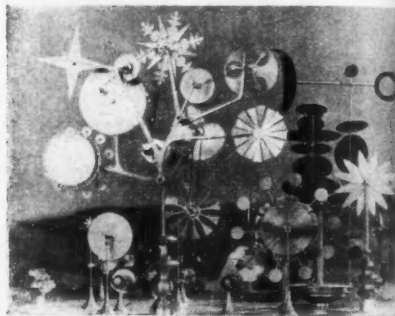


Nigerian University: Library, Arts Faculty, Administration (and Students' Union) buildings, and an open-air auditorium, at Nsukka, Eastern Nigeria, designed by James Cubitt and Partners, and pre-viewed in this issue.

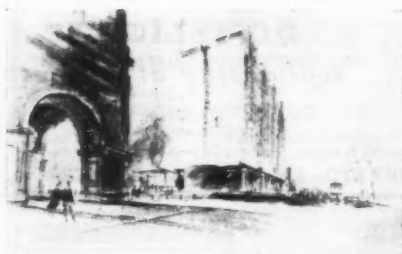


Spec and Span: this house at Teddington is among the buildings discussed in a full dress survey of Eric Lyon's Span speculative developments by R. Furneaux Jordan.

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



MARCH

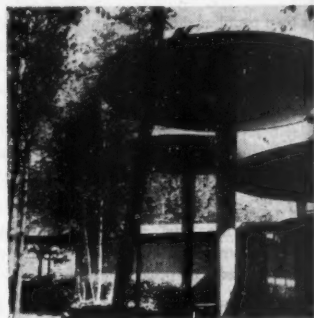


Royal College re-housed: Sir Hugh Casson's impression of the view along Kensington Gore, past the Albert Hall, to the proposed new building for the Royal College of Art. Architect: H. T. Cadbury Brown.



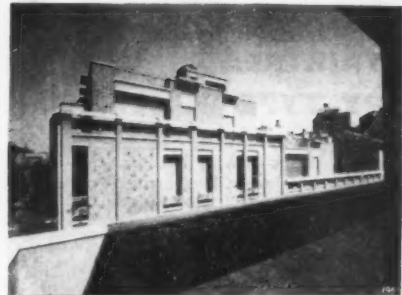
High Knightsbridge: a night view of the Bowater House office block by Guy Morgan and Partners, another stage in the transformation of the London scene.

Swiss Mushrooms: entrance canopy to the Tiefenbrunnen bathing beach by Josef Schütz, an example of indivisible landscaping/architecture from Ian Nairn's article on recent work in Switzerland.



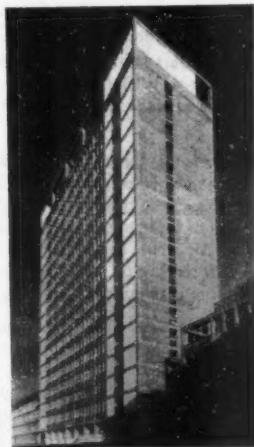
APRIL

Neoliberty: a recent house in Milan by Figini and Pollini, discussed in Reyner Banham's article on the 1910 Revival in Italy, and the current retreat from Modern Architecture there.



Without proscenium: the stage and amphitheatre of the Festival Theatre, Stratford, Ontario, designed by Rounthwaite and Fairfield, from Richard Leacock's article on the open stage.

Eastbourne Terrace: right, one of the tall blocks from Cecil Elsom's street long redevelopment scheme on bombed sites at the side of Paddington station.



The Architectural Review's new standard binding, with alternate years bound in black and white, and alternate volumes initialled A and R, makes easier the identification of individual volumes, and their proper replacement on the

shelf. The binding is buckram, and the price of binding per volume is 25s. Copies to be bound should be addressed, with the appropriate index, direct to the Architectural Press warehouse, Abbey House, 8 Victoria Street, London, S.W.1.

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

THE ARCHITECTURAL REVIEW, 9-13 QUEEN ANNE'S GATE, WESTMINSTER, S.W.1

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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

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

AIR-MAIL SERVICE available on request: In response to requests from a number of Overseas subscribers for air-mail delivery of Public and Official Appointment details and Other Appointments Vacant, we have been pleased to arrange that cuttings of all such classified advertisements appearing in the A.J., shall be despatched by air-mail on Wednesday of each week (one day prior to A.J. publication date). The cost of this special service to Overseas subscribers will be 6s. for four weeks (i.e. 3s. for each additional week) and payment should be sent by subscribers wishing to take advantage of this service. The charge we are making represents only the actual cost of the postage involved.

Public and Official Announcements

30s. per inch; each additional line, 2s. 6d.

LANCASHIRE COUNTY COUNCIL

Applications are invited from qualified HEATING & VENTILATING ENGINEERS experienced in the design of central heating schemes and hot water installations, using all types of fuel.

The posts, which are permanent, are within the salary range £1,025-£1,175; starting point according to experience.

Application forms from the County Architect, P.O. Box 26, County Hall, Preston. Reference A/AJ. 2945

COUNTY BOROUGH OF READING

Applications invited for the appointment of ASSISTANT ARCHITECTS who have passed Parts I and II, R.I.B.A. Final or Special Final Examination or their equivalent and have had at least five years' experience. Salary range £750 x £40-£1,030, according to experience. Posts permanent and appointment subject to N.J.C. Conditions. Housing accommodation will be considered. Applications, stating age, qualifications and experience, together with names and addresses of two referees, to Borough Architect, P.O. Box 17, Town Hall, Reading, not later than 2nd March, 1959. 2985

BOROUGH OF SCARBOROUGH
BOROUGH AND WATER ENGINEER'S
DEPARTMENT

Applications are invited for the following posts:—

ARCHITECTURAL ASSISTANT. Special Grade (£750-£1,030 per annum).

Applicants should have passed Parts I and II of the R.I.B.A. Final Examination, or be exempt therefrom.

ARCHITECTURAL ASSISTANT. Grade A.P.T. II (£725-£845 per annum).

Applicant should have passed the Intermediate Examination of the R.I.B.A.

Both appointments are subject to the provisions of the Local Government Superannuation Acts 1937-1953, and to the passing of a medical examination, and will be terminable by one month's notice on either side. Housing accommodation will be made available for successful applicants, if married.

Applications, in envelopes endorsed Architectural Assistant, stating age, present and previous appointments, training, qualifications and experience, together with the names of two referees, to be delivered to the undersigned not later than the 28th February, 1959.

V. FORSHAW,
Borough and Water Engineer. 2942

CARLTON URBAN DISTRICT COUNCIL
APPOINTMENT OF ARCHITECTURAL
ASSISTANT

Applications are invited for the above appointment at a salary in accordance with Grade IV of the A.P.T. Division of the Scales of Salaries of the National Joint Council commencing at £1,025 per annum and rising by annual increments of £50 to £1,175 per annum, the point of entry to be determined having regard to the experience of the applicant.

Applicants must be Associates of the R.I.B.A. or Registered Architects.

The appointment will be subject to the provisions of the Local Government Superannuation Acts 1937 to 1953, the National Scheme of Conditions of Service and the satisfactory passing of a medical examination.

Applications stating age, qualifications and details of experience, together with the names of three referees should be forwarded to the undersigned by 10 a.m. on Monday, the 23rd February, 1959.

Housing accommodation will be made available if required and removal expenses will be paid by the Council.

A. E. F. WALKER,
Clerk of the Council. 2988

Council House,
Burton Road,
Carlton, Nottingham.
30th January, 1959.

METROPOLITAN BOROUGH OF FULHAM
DEPUTY BOROUGH ARCHITECT AND
DEPUTY DIRECTOR OF HOUSING
BOROUGH ARCHITECTS' AND HOUSING
DEPARTMENT

Salary £1,597 x £37 (4) x £32-£1,777. Requirements: Architectural qualification with administrative experience and organising ability. Experience in Local Government; design and execution of large contracts including multi-storey housing; controlling work by direct labour; letting, management and maintenance of Council flats and maintenance of public buildings. Application forms from me. Closing date 3rd March. CYRIL F. THATCHER,
Town Clerk. 2954

Town Hall,
Fulham, S.W.6.

COUNTY COUNCIL OF ESSEX

COUNTY PLANNING DEPARTMENT
Applications invited for the post of PLANNING ASSISTANT, A.P.T. Grade I (£575-£725) at Braintree.

Applicants should have had experience in development control and/or development plan work, particularly design and elevation control, but consideration will be given to those who are qualified in Economics, Geography or Landscape Architecture and wish to train and study for a qualification in Planning.

Five-day week; day release facilities; medical examination; superannuation.

Applications to County Planning Adviser, Broomfield Place, Broomfield, Chelmsford, by 24th February, 1959. 2996

LINDSEY (LINCOLNSHIRE) COUNTY
COUNCIL

ARCHITECTS' DEPARTMENT

Large and interesting programme of work requires the following permanent staff:—

(a) SENIOR ASSISTANTS, Special Grade, £750-£1,030.

(b) ASSISTANT, A.P.T. II, £725-£845.

(c) ASSISTANT, A.P.T. I, £575-£725.

(d) ENGINEERING ASSISTANT, A.P.T. III, £845-£1,025.

(e) ENGINEERING ASSISTANT, A.P.T. II, £725-£845.

Applicants for (a) should be A.R.I.B.A. and capable of controlling large schemes; (b) Intermediate R.I.B.A.; (c) Intermediate R.I.B.A. or completion of articles; (d) required principally for electrical work and should be graduate I.E.E. or I.H.V.E., preference will be given to applicant who has also a knowledge of heating; (e) should hold Section of I.H.V.E.

Salary at starting point within the grade dependent upon qualifications and experience. N.J.C. Conditions of Service. Canvassing will disqualify. Candidates must disclose in writing whether to their knowledge they are related to any Member or Senior Officer of the Council.

Applications stating post applied for and salary required, giving age, qualifications, experience, present post and salary, and the names of at least two persons to whom reference can be made to be sent not later than 28th February, 1959, to the County Architect, County Offices, Lincoln. 3039

LANCASHIRE COUNTY COUNCIL

Applications are invited from qualified ARCHITECTS of initiative, keen on design and modern constructional methods, to work on a large and varied programme.

Applications are also invited from qualified QUANTITY SURVEYORS with a wide experience in the preparation of bills of quantities, for major projects of all types, and able to take charge from taking-off to settlement of final accounts.

All the above posts, which are permanent, are within the salary range £1,025-£1,175; starting point according to experience.

Application forms from the County Architect, P.O. Box 26, County Hall, Preston. Reference A/AJ. 2946

ARCHITECTURAL ASSISTANTS

Required by
MINISTRY OF WORKS

For employment in London and Provinces on design and detailing work on construction and maintenance of all types of public buildings.

Salary range £550 (age 21) to £870 p.a. London (slightly less elsewhere).

Starting pay according to age, qualifications and experience. Good prospects of promotion with salaries of £1,015 p.a. and above.

Opportunities for permanent posts leading to pensions (non contributory).

Interviews at Regional Offices where possible. Applicants should be of Intermediate R.I.B.A. standard. State age, training and experience to Chief Architect, Ministry of Works, Room 435, Abell House, John Inlin Street, S.W.1. 2444

CITY OF PORTSMOUTH

CITY ARCHITECTS' DEPARTMENT

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT, Grade I (£575-£725), commencing salary according to experience.

Applicants must have passed the Intermediate R.I.B.A. Examination, or its equivalent, at one of the recognised Schools of Architecture.

Applications, with full details, and names of two referees, must be delivered to the City Architect, 1, Western Parade, Portsmouth, not later than Monday, 2nd March, 1959.

Canvassing will disqualify.

V. BLANCHARD,
Town Clerk. 3101

BOROUGH OF SWINDON
APPOINTMENT OF QUANTITY SURVEYORS

Applications are invited for the undermentioned appointments in the Borough Architect's Department.

(a) ASSISTANT QUANTITY SURVEYOR, A.P.T. Special Scale (£750 to £1,030 per annum). Applicants must have passed the Final R.I.C.S. or equivalent examination.

(b) JUNIOR ASSISTANT QUANTITY SURVEYOR, A.P.T. II (£725 to £845 per annum). Applicants must have passed the Intermediate R.I.C.S. or equivalent examination.

Consideration may be given to the allocation of housing accommodation.

Applications on forms to be obtained from the Town Clerk, Civic Offices, Swindon, must be returned by 7th March, 1959. 3100

WARWICKSHIRE COUNTY COUNCIL
COUNTY PLANNING DEPARTMENT

Applications are invited for the following appointments:—

TWO PLANNING ASSISTANTS, Grade A.P.T. I/II (£575-£845 per annum).

The posts are in the Development Plan Section and the appointments are subject to the provisions of the Local Government Superannuation Act and to the National Scheme of Conditions of Service. Successful candidates will be required to pass a medical examination. Consideration will be given to the granting of financial assistance towards removal expenses.

Applicants must have passed the Intermediate Examination of a professional body, preferably that of the Town Planning Institute. Commencing salary will be according to experience. Applications, together with the names of two referees, should be sent to J. J. Brooks, County Planning Officer, Northgate, Warwick, not later than Saturday, 7th March, 1959.

Canvassing will be a disqualification.

L. EDGAR STEPHENS,
Clerk of the Council. 3099

Shire Hall,
Warwick.

NEWCASTLE REGIONAL HOSPITAL BOARD
REGIONAL ARCHITECT'S DEPARTMENT

During the next two years the Board plans to spend between £4m. and £5m. on hospital developments and larger programmes are being planned to follow. The present building programme includes a wide variety of projects, ranging from houses to hospitals, and (since a large hospital resembles a small town) affords ample opportunity for gaining both general and hospital experience simultaneously.

The following posts in the Regional Architect's Department are at present open to applicants. The salary-scales quoted include interim increases pending completion of a current Health Service review of salaries.

(i) ASSISTANT ARCHITECT. Salary £730 x £25 (2) x £30 (2) x £35 (5) x £40 (1)-£1,055.

Applicants should be registered architects and have had experience of the planning and construction of public buildings. The commencing salary will be fixed within the Grade by reference to relevant experience and to age.

(ii) ARCHITECTURAL ASSISTANT. Salary £545 at age 21 x £20 (3) x £25 (4) x £30 (2) to £765.

Applicants should have passed the Intermediate Examination of the R.I.B.A., or an examination recognised by the Institute as equivalent, and some practical experience is desirable.

The commencing salary within the Grade will depend upon the applicant's age and practical experience, but will not exceed £665.

(iii) ARCHITECTURAL DRAUGHTSMAN.

Salary £445 x £25 (5) x £30 (3)-£660.

Applicants should have had previous experience in an architect's drawing office and be neat and quick draughtsmen.

Evening study facilities are available at King's College of Durham University in Newcastle.

Applications, stating age, qualifications, past and present appointments, present salary and details of experience and training, together with the names of three referees (of whom at least two should be architects), should be forwarded to the Secretary to the Board, Benfield Road, Newcastle upon Tyne, 6, not later than 5th March, 1959. 3106

ROYAL BURGH OF INVERNESS
BURGH ARCHITECTS' AND TOWN PLAN-
NING DEPARTMENT
APPOINTMENT OF CHIEF ASSISTANT
ARCHITECT

Applications are invited for the above Appointment, salary Grade A.P.T. VI (£880-£955). Applicants should be A.R.I.B.A. with a flair for modern design. The post offers a valuable opportunity of obtaining experience in Housing, Town Planning and all allied Local Authority work.

A council house will be made available if required.

The post is superannuated. Medical examination.

Applications, together with the names and addresses of two referees, to be lodged with the Burgh Architect, 11, High Street, Inverness, within 10 days of the publication of this advertisement.

J. CAMERON,
Town Clerk. 3069

Town House,
Inverness.
5th February, 1959.

NATIONAL COAL BOARD—EAST MIDLANDS DIVISION

ARCHITECT, Grade II (Salary scale £215 x £50—£1,125), required for Divisional Architect's Department in Nottingham. Candidates should be corporate members of the R.I.B.A. with varied practical experience.

The architectural work of the department covers the design of colliery surface buildings of all types, including workshops, stores, power plants, offices, pithead baths, canteens, medical centre and recreation buildings.

The point of entry into the salary scale will depend on qualifications and experience. The post is superannuable and superannuation rights under Local Authority and certain other schemes are transferable.

Applications, giving age, present salary and full details of qualifications, experience and present appointment, should be addressed to: The Divisional Chief Staff Officer, National Coal Board, East Midlands Division, Sherwood Lodge, nr. Arnold, Nottingham. Please quote reference R.V. 912 (R). 3065

CITY OF OXFORD

ARCHITECTURAL ASSISTANT required in City Architect and Planning Officer's Department; salary within range £750—£1,030 per annum, according to qualifications (minimum required A.R.I.B.A.) and experience. Housing accommodation provided.

For further details and application form (to be returned by 28th February) apply City Architect and Planning Officer, Town Hall, Oxford.

HARRY PLOWMAN,
Town Clerk.

Town Hall, Oxford. 3066

GLENROTHES DEVELOPMENT CORPORATION

MODEL MAKER required for Architectural and Planning Department. Salary scale £631/£811 per annum with placing. Experience in the making of scale models from architects' plans essential. Photographs of models made by applicants should, if possible, accompany applications. Medical examination under Superannuation Scheme. House to rent available. Applications to the Secretary and Legal Adviser, Glenrothes Development Corporation, Glenrothes, Fife, by 14th March. 3074

**LONDON ELECTRICITY BOARD
ENGINEERING DRAUGHTSMAN**

Applications are invited for the above position in the Board's Southern District in South London.

Candidates should have a good general and technical education, possessing the Ordinary National Certificate, be neat and capable draughtsmen and be experienced in one or more of the following subjects: drawing office routine, electrical diagrams, lay-out of plant in transformer chambers, mains survey and recording of mains work.

The post is graded under Schedule "D" of the National Joint Board agreement as Grade 6—£660 to £780 per annum, inclusive of London Allowance.

Application forms obtainable from Personnel Officer, 46, New Broad Street, London, E.C.2, to be returned completed by 3rd March, 1959. Please quote Ref. PER/2600/A. 3079

COUNTY BOROUGH OF ROTHERHAM

ARCHITECTURAL ASSISTANT required for established post in Grade I (£575—£725) to Special Grade (£750—£1,030), the grade and commencing salary to be according to applicant's qualifications and experience.

Housing accommodation will be available, if necessary, for the higher grade appointment.

Applications, stating age, qualifications and experience with the names of two referees, to be delivered to the Borough Engineer, Municipal Offices, Rotherham, not later than Thursday, 12th March, 1959.

JOHN S. WALL,
Town Clerk.

Municipal Offices, Rotherham.
11th February, 1959. 3104

BIRMINGHAM REGIONAL HOSPITAL BOARD

ARCHITECTURAL ASSISTANTS required. Salary scale £545—£760 per annum. Point of entry according to experience. Intermediate R.I.B.A. essential. Superannuable. Apply naming two referees to Secretary, R.H.R., 10 Augustus Road, Birmingham, 15, by 13th March, 1959. 3090

CUMBERNAULD DEVELOPMENT CORPORATION

CHIEF ARCHITECT AND PLANNING OFFICER'S DEPARTMENT

Vacancies exist for **ASSISTANT ARCHITECTS**, Grade R (Ref. A.2), A.R.I.B.A. (salary scale £1,034—£1,366), and **ARCHITECTURAL ASSISTANTS**, Grade D (Ref. A.4), Intermediate R.I.B.A. (salary scale £651—£811). These posts offer experience in a variety of interesting projects. Starting salary according to experience; local government superannuation (subject to medical examination); assistance with housing may be given; five-day week. Write, outlining reference number of post, to the General Manager, Cumbernauld Development Corporation, Cumbernauld House, Cumbernauld Glasgow, for application form, to be returned by 2nd March, 1959. 3088

**BOROUGH OF BILSTON
HOUSING DIRECTOR'S DEPARTMENT**

Applications are invited for the following appointments:—

(a) **CHIEF ARCHITECTURAL ASSISTANT**
SPECIAL GRADE, £750—£1,030.

(b) **ARCHITECTURAL ASSISTANT**
A.P.T. GRADE II, £725—£845.

(c) **QUANTITY SURVEYING ASSISTANT**
A.P.T. GRADE III, £845—£1,025.

The appointments will be subject to the National Scheme of Conditions of Service, a medical examination and the Local Government Superannuation Acts 1937 and 1953.

Housing accommodation will be made available if required.

Applications in writing, stating age, qualifications and previous experience, including any services with a Local Authority, together with the names and addresses of two referees to whom reference can be made, should be sent to the Housing Director, Municipal Buildings, Hall Street, Bilston, not later than March 3rd, 1959.

A. M. WILLIAMS,
Town Clerk.

Town Hall, Bilston.
10th February, 1959. 3084

LEEDS REGIONAL HOSPITAL BOARD

Applications are invited for the following appointments:—

(a) **SENIOR ASSISTANT ARCHITECTS**. Salary Scale £1,010/£1,195 per annum.

(b) **ASSISTANT ARCHITECTS**. Salary scale £700/£1,015 per annum. Commencing salary dependent upon relevant practical experience, but the additional increments granted will not be more than the number of years by which the officer's age exceeds 23.

Applicants for the Senior and Assistant appointments must be Associate Members of the R.I.B.A.

(c) **ARCHITECTURAL ASSISTANTS**. Salary Scale £525/£720 per annum.

Applicants must have passed the Intermediate Examination of the R.I.B.A. and have had a sound architectural training and some experience in a practising architect's office is essential.

Salary Scales at present under review.

The above appointments offer excellent opportunities to Architects to design and construct a wide range of Hospital Buildings, including Nurses' Homes, Houses, Flats, Kitchens, Laundries and Boiler Houses. The Service is an expanding one and many new Hospital Projects are to be built in the immediate future.

Applications, giving age, experience and the names of two referees, to the Secretary, Park Parade, Harrogate, by not later than 7th March, 1959. 3105

BOROUGH OF BURY ST. EDMUNDS

APPOINTMENT OF

(a) **ASSISTANT ARCHITECT—Special Grade**
£750—£1,030.

(b) **JUNIOR ARCHITECTURAL ASSISTANT—**
Grade A.P.T.I.—£575—£725.

Applications are invited for the above appointments in the Department of the Borough Engineer and Surveyor. Duties will include the design of new houses and other buildings and supervision of the Direct Labour Organisation constructing Council Houses and other architectural works in connection with the maintenance and upkeep of Corporate property.

Consideration will be given to the provision of housing accommodation.

Applicants for post (a) should preferably be either Chartered or Registered Architects and applicants for post (b) should be probationers of the R.I.B.A., preferably with not less than two years' experience.

Applications, endorsed "Assistant Architect" or "Architectural Assistant," stating age, whether married, qualifications and experience, together with the names of two referees, to be delivered to the Borough Engineer and Surveyor at the address below not later than Monday, 9th March, 1959.

RICHARD B. HILES,
Town Clerk.

Borough Offices, Bury St. Edmunds. 3108

COUNTY BOROUGH OF HASTINGS

Applications are invited for the following appointments in the Borough Engineer's Department:—

(a) **ASSISTANT ARCHITECT**, Special Grade (£750—£1,030), for Educational buildings and general development, housing etc.

(b) **ASSISTANT ENGINEER**, Special Grade (£750—£1,030). Point of entry in Grade will be dependent upon experience which should include highway construction and maintenance.

(c) **TOWN PLANNING ASSISTANT, A.P.T. II**
(£725—£845).

(d) **ASSISTANT BUILDING INSPECTOR**,
A.P.T. I (£575—£725).

Housing accommodation will be available if required.

Applications, stating age, qualifications, present and previous appointments and salary, and the names of three referees, to be sent to the Borough Engineer, 37, Wellington Square, Hastings, not later than 10 a.m., Monday, 2nd March, 1959. Canvassing will disqualify.

N. P. LESTER,
Town Clerk.

Town Hall, Hastings. 3045

COUNTY BOROUGH OF BLACKPOOL

Applications (by Friday, 6th March, 1959) are invited for the following posts in the Borough Surveyor's Department:—

ASSISTANT ARCHITECTS (Special Scale, £750/£1,030 per annum).

ARCHITECTURAL ASSISTANTS (A.P.T. I)
£575/£725 per annum).

Application forms and particulars obtainable from the Borough Surveyor (Arthur Hamilton, A.R.I.B.A.), P.O. Box 17, Municipal Buildings, Blackpool.

ERNEST C. LEE,
Town Clerk.

3096

COUNTY BOROUGH OF BLACKPOOL

Applications (by Friday, 6th March, 1959) are invited for the post of **TOWN PLANNING ASSISTANT, A.P.T. IV** (£1,025/£1,175 per annum) in the Borough Surveyor's Department.

Commencing salary will be fixed at any point within the grade in accordance with experience.

Application forms and particulars obtainable from the Borough Surveyor (Arthur Hamilton, B.Sc.), P.O. Box 17, Municipal Buildings, Blackpool.

ERNEST C. LEE,
Town Clerk.

3096

BOROUGH OF RAWTENSTALL

APPOINTMENT OF JUNIOR ARCHITECTURAL ASSISTANT

Applications are invited for the above appointment at a salary within Grade A.P.T. I (£575 to £725 per annum). Applicants should have completed professional training.

The appointment is subject to the Local Government Superannuation Acts, 1937-1953, the passing of a medical examination, and to termination by one month's notice on either side.

Applications, stating age, experience, etc., together with the names and addresses of two persons to whom reference can be made, should be delivered to the undersigned not later than Tuesday, the 3rd March, 1959.

(Signed) **E. GRAHAM THOMAS,**
Town Clerk.

Town Hall, Rawtenstall, Rossendale, Lancs.
February, 1959. 3077

**BOROUGH OF WARWICK
APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT**

Required, Senior Architectural Assistant in the Borough Surveyor's Department. Salary A.P.T. II (£725 x £30—£845); entry in the scale according to qualifications and experience. The position is permanent and subject to Medical Examination. Applicants must have passed at least the Intermediate R.I.B.A. with a sound knowledge of building construction. The post offered is for existing work of conversions and large Housing Estate Development incorporating Shops, Flats, etc.

Applications, stating age, qualifications, experience and the names and addresses of two referees, should be sent to the Borough Surveyor, 23, Jury Street, Warwick, not later than Wednesday, the 4th March, 1959.

HECTOR SETON BROWN,
A.M.I.C.E., A.M.I.W.E.,
Borough Engineer and Surveyor.

23, Jury Street, Warwick. 3090

BEESTON AND STAPLEFORD URBAN DISTRICT COUNCIL

JUNIOR ARCHITECTURAL ASSISTANT

Applications are invited for the above appointment. Salary A.P.T. Grade I £575—£725. Commencing salary according to qualifications and experience.

Applications, accompanied by the names and addresses of two referees, should be forwarded to the Surveyor, Town Hall, Beeston, Nottingham, as soon as possible.

H. D. JEFFRIES,
Clerk of the Council.

3097

LONDON COUNTY COUNCIL

ARCHITECT'S DEPARTMENT

Applications are invited for appointment as **PRINCIPAL HOUSING ARCHITECT**, to be responsible to the architect for the Housing Division (total staff about 340), which is responsible for the design and erection of most of the Council's housing. Experience of public architecture is not essential but the person selected must be able to organise, lead and inspire a large division. Commencing salary according to qualifications and experience within scale £2,450—£10,000 a year. The position is permanent and pensionable. Further particulars and application form from Clerk of the Council (CL/G), County Hall, London, S.E.1, returnable by 23 March, 1959. (332) 3109

THE ROYAL INFIRMARY OF EDINBURGH

AND ASSOCIATED HOSPITALS

TEMPORARY ARCHITECTURAL ASSISTANT

Applications are invited for the above appointment. Candidates should preferably hold the Intermediate Certificate of the R.I.B.A. and must be experienced. Salary scale £525 to £655 per annum according to age and experience. Applications, giving details of age, qualifications and experience, together with the names of two referees should be addressed to the Personnel Officer, Royal Infirmary, Edinburgh, 3. 3089

KINGSTON UPON HULL EDUCATION COMMITTEE REGIONAL COLLEGE OF ART AND CRAFTS

Principal: S. I. HEMMING, A.R.C.A. (LOND.), F.R.S.A.
SCHOOL OF ARCHITECTURE
Applications are invited for the post of SENIOR LECTURER in the School of Architecture, which conducts a five-year full-time Diploma course in Architecture and a part-time course in Town Planning. Candidates should have had some years of professional experience and possess a degree or Diploma of a recognised School of Architecture.

Salary: Burnham Technical Scale: £1,417 10s. x £52 10s.—£1,627 10s.
Application forms, to be returned not later than 7th March, 1959, will be supplied by the Chief Education Officer, Guildhall, Kingston upon Hull.

HARLOW DEVELOPMENT CORPORATION

Architect/Planner: FREDERICK GIBBERD, C.E.E., F.R.I.B.A., M.T.P.I.
Executive Architect: VICTOR HAMNETT, B.Sc., A.R.I.B.A., D.I.P.T., A.R.I.C.S., A.M.T.P.I.

- (a) ASSISTANT ARCHITECT (£934 to £1,146 per annum).
- (b) ASSISTANT ARCHITECT (£679 to £811 per annum).
- (c) JUNIOR ASSISTANT (£562 to £647 per annum).

Applications invited from suitably qualified candidates for work on varied and interesting programme of Housing, Commercial and Industrial Buildings (which offers exceptional opportunities in the field of contemporary architecture).

Candidates for Post (a) should possess qualification of A.R.I.B.A., or equivalent.
Candidates for Post (b) should possess minimum qualification of Intermediate Examination of R.I.B.A.

Candidates for Post (c) should be good draughtsmen with some experience in an Architect's Office. Housing accommodation available for successful candidates.

Applications, giving full details and stating post applied for, to be submitted with names of two referees to General Manager, Terlings, Harlow, Essex, within 10 days. 3047

LONDON COUNTY COUNCIL ARCHITECTS' DEPARTMENT

Vacancies for PLANNING ASSISTANTS. Duties include investigation of development proposals, surveys, report writing, preparation of data for Public Inquiries. Starting salaries up to £960 according to experience and qualifications. Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council (Ref. AB/EK/11/59), County Hall, S.E.1. (186.) 2917

COUNTY COUNCIL OF ESSEX COUNTY LAND AGENT AND VALUER'S DEPARTMENT

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT on the established staff. Salary in accordance with A.P.T. I (£575—£725 per annum).

Candidates should be capable draughtsmen and have been trained in an appropriate professional office. They should also have a sound knowledge of building construction, be able to prepare working drawings, make surveys, and use a level. It will be an advantage if the experience of the candidates has been in connection with farm-buildings and rural houses.

Application forms from the County Land Agent and Valuer, 69, Duke Street, Chelmsford, to whom they should be returned not later than 27th February, 1959.

Canvassing disqualifies. 3042

KUMASI COLLEGE OF TECHNOLOGY (Principal: W. E. DUNCANSON, Ph.D., D.Sc., F.INST.P., A.M.I.E.E.)

Applications are invited for the post of LECTURERS IN TOWN PLANNING in the School of Architecture, Town Planning and Building.

The School prepares students for Intermediate Examinations of the R.I.B.A. and of the T.P.I., and negotiations are at present in progress between the School and various bodies in London concerning the Building Technology course for which it is hoped to make similar arrangements. Qualifications: A.M.T.P.I., at least three years' practical experience and preferably at least one year's teaching experience.

Appointment accepted on contract for five years or on pension or the College will be prepared to take over and maintain employers' contributions to former F.S.S.U. policies.

Contract salary scale: £1,230 x £50—£1,950 p.a. plus gratuity payable at end of contract at the rate of £12 10s. for each month of satisfactory service. Pensionable and F.S.S.U. salary scale: £925 x £50—£1,625. Point of entry according to experience.

Children's allowances up to a maximum of three at rate of £50 p.a. per child up to 10 years and £100 p.a. per child over 10 years in full-time education up to 21 years. Annual leave with free return first-class passages for member of staff, his wife and up to three children under 17 years. Bungalows with basic furniture at low rental provided. Income tax low.

Applications (six copies), giving age, qualifications, experience and the names of three referees, should be sent to the Council for Overseas Colleges, 12, Lincoln's Inn Fields, London, W.C.2. Closing date 13th March, 1959. 3063

BRITISH TRANSPORT COMMISSION OFFICE OF THE ARCHITECT

TWO SECTIONAL ARCHITECTS. Salary range: £1,475—£1,695 p.a.

Practical experience in design and supervision of architectural works. Design ability, initiative and genuine interest in all aspects of present-day architecture essential. Town planning qualification and experience an advantage.

SENIOR ASSISTANT ARCHITECT. Salary range: £1,200—£1,420 p.a.

Experience in architectural practice; design ability, with practical approach to office routine. ASSISTANT ARCHITECT. Salary range: £945—£985 p.a.

Good draughtsmen with design ability. All applicants must be A.R.I.B.A.

Superannuation scheme; certain free travel facilities; medical examination. Write, stating age, qualifications and experience, to Principal Establishment and Staff Officer, British Transport Commission, 222, Marylebone Road, London, N.W.1, within 14 days. S.A.E. for acknowledgment. 3043

CAERNARVONSHIRE COUNTY COUNCIL COUNTY PLANNING DEPARTMENT

Applications invited for the post of ASSISTANT PLANNING OFFICER APT. V (£1,175/£1,325). Commencing salary according to qualifications and experience. This appointment is next in status to that of Deputy County Planning Officer. Applicants must be corporate members of the Town Planning Institute and hold a recognised qualification in Architecture. Sound practical experience in all aspects of the work of a planning authority is required and experience in landscape architecture would be an advantage.

Further particulars and application forms from Clerk of County Council, Caernarvon. Closing date: 14th March, 1959. 3107

SURREY COUNTY COUNCIL

Applications invited for appointment of ASSISTANT ARCHITECT, Special Grade, £750—£1,030 p.a. plus £30 p.a. London Allowance. Must be A.R.I.B.A.

Full details, present salary and three copy testimonials to County Architect, County Hall, Kingston, as soon as possible. 3029

LONDON COUNTY COUNCIL ARCHITECTS' DEPARTMENT

Vacancies for ARCHITECTURAL ASSISTANTS, starting salary up to £860. Full and interesting programme of houses, flats, schools and general buildings.

Application form and particulars from The Architect to the Council, County Hall, S.E.1. quoting AB/EK/14/59 (256). 3046

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Made of high grade reinforced concrete with asbestos cement roofing, these garages are strong and proven. Of unsurpassed appearance and spacious dimensions, they are fire and rot proof and virtually maintenance free.

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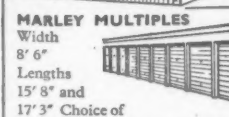
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PART ONE OF THE DESIGN OF STRUCTURAL MEMBERS with model answers to R.I.B.A.

Intermediate examination questions

by H. T. Jackson, F.R.I.B.A., A.M.I.Struct.E.

This book is addressed primarily to students of architecture who are preparing to take the R.I.B.A. Intermediate Examination, but at the same time, it will be found useful by all practising architects and assistants.

The book consists of a collection of typical R.I.B.A. Intermediate Examination questions accompanied by model answers; and the problems met in practice in the design and testing of structures are explained and solved. Thus, in a single volume, is brought together all the information required to design a simple structure, information which otherwise could be gleaned only from a score of text-books, technical journals, codes of practice, standard specifications and by-laws. All that is needed in addition to the present volume is a handbook of steel sections and a knowledge of elementary mathematics; since some readers will not have an engineering training, everything is explained in the simplest terms and all the stages of the mathematical processes are clearly shown. This part deals with simple structures, including beams, columns, floors and roofs, frames, walls and retaining walls in all the normally available materials. Part II will have special reference to the R.I.B.A. Final Examination and will deal with larger and more complex structures.

Part I Size 8½ in. x 5½ in. 176 pages including 161 line diagrams 25s. net. Postage 11d.

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

**DURHAM COUNTY COUNCIL
PLANNING DEPARTMENT**

JUNIOR ARCHITECTURAL ASSISTANT—Salary £375-£425. Applicants must hold Intermediate examination of the R.I.B.A. Experience in an Architect's or Planning office is desirable. Housing available at Peterlee and Newton Aycliffe, 12 miles from Durham. Forms and further particulars from County Planning Officer, 10, Church Street, Durham. Closing date 4th March, 1959. Canvassing members of the Council is prohibited.

J. K. HOPE

Clerk of the County Council.
3075

**SEDFIELD RURAL DISTRICT COUNCIL
HOUSING ARCHITECT'S DEPARTMENT**

Applications are invited for the post of **TECHNICAL ASSISTANT**, salary on A.P.T. Grade II. Housing accommodation will be available.

Further particulars may be obtained from me. Closing date: 2nd March, 1959.

R. P. BURCH

Clerk of the Council.

Sedfield,
Stockton-on-Tees.
9th February, 1959.

3054

**LONDON COUNTY COUNCIL
ARCHITECT'S DEPARTMENT**

Vacancies for **ARCHITECTS** for interesting and varied work which provides excellent experience in connection with alterations and extensions to variety of buildings. Candidates should be able to carry jobs through all stages—surveys, schemes, working drawings, specifications, and supervising contracts. Up to £1,090 according to qualifications and experience. Application form and particulars, returnable by 17th March, from Hubert Bennett, F.R.I.B.A., Architect to Council, AR/EK/21/59, County Hall, S.E.1. (338)

3120

Architectural Appointments Vacant

4 lines or under, 9s. 6d.; each additional line, 2s. 6d. Box Number, including forwarding replies, 2s. extra

WILL any **JUNIOR ASSISTANT** who prefers to work in a small Private Office, and is interested in the preservation of Historic Buildings, please apply to L. H. Bond & R. W. Road, 44, Castlegate, Grantham. 2553

ASSISTANT required in busy West End practice, about 25 years of age and R.I.B.A. Intermediate standard. Good opportunities for taking responsibility. Please write giving details of experience and salary required. Box 2580.

BRIGHTON AND HOVE. Experienced Senior and Junior ASSISTANTS required for small office. Salaries up to £800 per annum. Box 2843.

ARCHITECTURAL ASSISTANTS of Senior and Intermediate standard required for varied and interesting programme of work. Experience in contemporary design and construction essential. Salary by arrangement. Applications giving full details of experience to Cruickshank & Seward, F.R.I.B.A., 196, Deansgate, Manchester 5. 2853

NORFOLK Office requires Single **ARCHITECTURAL ASSISTANT** of about Intermediate Standard. Experience in Local Authority Housing an advantage. Reply with details of age and salary required to Box 2935.

NORTH & PARTNERS, Chartered Architects, Broadway, Maidenhead, have a vacancy in their Drawing Office for **ARCHITECTURAL Senior and Intermediate ASSISTANT** in the salary range £750 to £1,000. 2874

EXPERIENCED ASSISTANTS required immediately by Harker & Hall, L./F.R.I.B.A., for work in their London and Midland offices. Telephone Welbeck 0661 or Birmingham Knowle 3502. 2928

ARCHITECT'S ASSISTANT required for the London Office of a firm of Architects with interests throughout the country. Must be of Intermediate R.I.B.A. or R.I.C.S. standard. Superannuation scheme. Apply to: Coford, Ballard & Blow, 5, Baker Street, London, W.1. Welbeck 3364. 2818

ASSISTANT required in small busy office. Good knowledge of construction and administration essential; must be quick draughtsman with experience of working drawings. Five-day week. Salary according to experience. Apply J. H. Allevy, F.R.I.B.A., 1a, Berners Street, London, W.1. Langham 8457. 2993

EXPERIENCED ARCHITECTURAL ASSISTANTS required with a good sense of design and a sound knowledge of building construction. All applications in writing, please, with full details. C. H. Elsom and Partners, 10, Lower Grosvenor Place, S.W.1. 2994

ASSISTANT required for small busy office; must be experienced draughtsman, capable of detailing houses and flats. W.C.2 district. Please apply, giving full particulars, to Box 2990.

ARCHITECTURAL ASSISTANTS required. Salary £600 to £900. Apply Ronald Ward and Partners, 29, Chesham Place, S.W.1, or telephone Belgravia 5361. 3009

ARCHITECTURAL ASSISTANT with practical experience, capable of preparing working drawings, specifications and site supervision, for West End Office. Box 3007.

EXPERIENCED ARCHITECTURAL ASSISTANT required, preferably qualified, for expanding practice in Dartford. Work on hand includes multi-storey flats, housing and industrial schemes. Salary range £850-£1,000. Intermediate ASSISTANT also required. Please write, stating full details, to Box 3004.

LOUIS DE SOISSONS, PEACOCK, HODGES & ROBERTSON have immediate vacancies for **SENIOR and JUNIOR ASSISTANTS**. Write, stating age, salary and experience, to the above at 3, Park Square Mews, Upper Harley Street, London, N.W.1. 3003

MANCHESTER Architect with small but busy practice requires another **ASSISTANT**, at Intermediate level or above. Box 2961.

ARCHITECTURAL ASSISTANT required in Architect's Department of London Brewery Company. Must be good draughtsman. Write, stating age, qualifications, experience, salary required. Box 2961.

ARCHITECT'S SENIOR ASSISTANT, of about R.I.B.A. Final standard or equivalent, required for busy Architect's Office. Apply Stevens and Partners, 49, Havelock Road, Hastings. Tel. 5368. 2970

JUNIOR ARCHITECTURAL ASSISTANT, with previous office experience, required in expanding practice. Apply, stating age, experience and salary required, to Earp, Badger & Harrison, A/A.E.I.B.A., 4, High Street, Evesham. 2980

ARCHITECTURAL ASSISTANT, Intermediate to Final standard, required in Eastbourne Office. Five-day week, good salary and prospects. Apply with full particulars and stating salary required, to H. Hubbard Ford, F.R.I.B.A., 24, Cornfield Road, Eastbourne. 2979

JUNIOR ASSISTANT with some office experience wanted immediately. Good draughtsmanship essential. Five-day week. Write full particulars and salary required to Musman & Cousens, 12, Upper Berkeley Street, W.1. 3010

ARCHITECTURAL ASSISTANTS for University and Hospital work. Good salary, dependent on experience. Non-contributory Pension Scheme in being after probationary period. Three weeks holiday a year, and five-day week. Reply stating age, experience, etc., to Thomas Worthington & Sons, 178, Oxford Road, Manchester, 13. 2987

JUNIOR ASSISTANTS required to form nucleus of Architect's Department of established Development Company to work directly under the supervision of the Architect. Apply in writing. Box 3018.

LEADING Firm of Building Surveyors (City of London) requires **JUNIOR ASSISTANT** for Architect's Department. Must be well educated and keen to progress in profession. Salary according to ability. Box 2900.

ASSISTANT ARCHITECTS for Co-operative Wholesale Society Ltd., Architect's Department, Cardiff. Salary scale £600-£870 p.a. Applications are invited to fill positions at the Cardiff Branch Office. Salary according to age, qualifications and experience. The posts are superannuable, subject to medical examination. Five-day week in operation. Applications, stating age, experience, qualifications and salary required, to: W. J. Reed, F.R.I.B.A., Chief Architect, Co-operative Wholesale Society Ltd., 99, Leman Street, London, E.1. 2743

JUNIOR ASSISTANT required in London Architect's Office. Must be neat draughtsman and have good grasp of elementary building construction. Box 3000.

GEORGE WIMPEY & CO., LIMITED THE Architects' Department's current work covers all types of technical, industrial and domestic projects.

Appointments are available for a wide range of experience, particularly for assistants who appreciate the contribution good design can make towards efficient construction and are interested in applying cost knowledge to detailing.

Appointments are immediately available for two **ASSISTANT ARCHITECTS**, four **ARCHITECTURAL ASSISTANTS**, and three top line **ARCHITECTURAL DRAUGHTSMEN**.

Salaries will match qualifications and experience, and subject to a trial period there is a Pension Scheme available.

Applicants should write to E. V. Collings, A.R.I.B.A., 27 Hammersmith Grove, London, W.6. 3050

ARCHITECTURAL ASSISTANT required—at least three years' experience. Rossington & Fozden, Chartered Architects, Tavistock, Devon. 3070

COMPETENT ASSISTANT required in Architect's Department. Good opportunity for capable man, five-day week, and Superannuation Scheme in operation. Applications giving details of age, qualifications, experience and salary required to H. M. Robinson, F.R.I.B.A., George J. Mason Ltd., 68, Bradford Street, Birmingham. 3073

ARCHITECT required by Building Contractors with Head Office in Leicestershire. Applicants should be experienced in estate layouts for private development. The salary will be not less than £1,000 per annum. Please state age, experience and full details of previous employment. Box 3072.

ASSISTANTS of R.I.B.A. Intermediate standard required in busy and growing practice running contracts up to £5,000 in value, including working drawings, specification and supervision. Experience of industrial and multi-storey housing an advantage. Apply in writing giving full particulars of training, experience and salary required to Box 3071.

A HIGHLY QUALIFIED CHIEF ASSISTANT required for a busy West End London Office. He will have to take full responsibility for the administration and must be a first-class designer in the contemporary manner. Applicants should preferably be between the ages of 30 and 40 years and should give concise details of previous experience. Salary £1,500, subject to experience and qualifications. Apply Box 3068.

OPPORTUNITY for **ASSISTANT** of Intermediate to Final standard to handle complete jobs—houses, schoolwork, church halls and alteration work—with minimum supervision. Very pleasant (Worcester) office, young staff, contemporary outlook. Salary according to ability. Box 3067.

ARCHITECTURAL ASSISTANTS required for Brighton office. Some knowledge of surveying required. Apply in writing stating age, experience and present salary to E. J. Thomas, Jolly, Grant & Hunter, 11 Old Steine, Brighton. 3062

JUNIOR ARCHITECTURAL ASSISTANT approaching Intermediate standard required for Bank Architect's Department in Manchester. Reply stating age, experience and salary required to Box 3117.

ARCHITECTURAL ASSISTANTS required of all grades in progressive office. Diamond, Hodgkinson and Partners, 25a, Snow Hill, Wolverhampton. 3116

SIX Intermediate stage (or near) **ARCHITECTURAL ASSISTANTS** required to form Design Groups for two large new modern projects. High salaries for right applicants. Apply Tel. 4Cha. 2951. 3115

ASSISTANTS required for offices in Gloucestershire. Intermediate and Final standard. Reply stating age, experience and salary required to Ellery Anderson, Roiser & Falconer, Imperial House, Stroud, Glos. (Telephone No. Stroud 1406). 3114

ARCHITECTURAL ASSISTANT (recently qualified or near Final standard) required in small West End Architect's office. Must be interested in modern design. Opportunities for execution of projects from design stage to site supervision. Salary scale £700-£800 according to experience. Apply Box 3113.

QUALIFIED ARCHITECT, experienced in contemporary shop design, required as Chief Assistant in West End Architect's Office dealing with design of retail shops and buildings, for multiple firm. Excellent salary and interesting opportunity for architect willing and able to specialise in this field. Apply Box 3112.

ENTHUSIASTIC ASSISTANT, with design ability. Salary £650-£750. Godsmark & Miller-Williams, 37a, Tubwell Row, Darlington, Co. Durham. 3012

RICHARD COSTAIN LTD., have a number of vacancies for **ARCHITECTS AND ASSISTANT ARCHITECTS** to work on a major building development project in the Middle East. Salaries, which will be linked to the grade of appointment, will be in the range £1,200-£1,500 per annum, plus £60 per month cost of living allowance. No local income tax. Initial kit allowance £50. Each tour will last 12 months followed by one month's paid leave. Applications, giving full details of age, qualifications and experience, should be addressed to Overseas Personnel Officer, 111, Westminster Bridge Road, London, S.E.1. 3103

TRING, HERTFORDSHIRE. SENIOR ASSISTANT ARCHITECTS required for work on Contemporary Schools, Training Colleges and design of prefabricated forms of construction at home and overseas. Write to W. W. Chapman, A.R.I.B.A., Woodroffe, Buchanan & Coulter, 41, High Street, Tring, or phone Tring 2033 for an appointment. 3046

LOUIS DE SOISSONS, PEACOCK, HODGES & ROBERTSON have immediate vacancies in their Welwyn Garden City office for Senior and Junior ASSISTANTS. Write stating age, experience and salary required to the above at Midland Bank Chambers, Welwyn Garden City, Herts. 3052

SCHWEPPE'S Architect's Department requires ASSISTANTS of R.I.B.A. Intermediate standard for work in connection with Company expansion. Depots, factories, offices, canteens. Some travelling involved. Applicants preferably under 30 years must be resourceful and able to work with minimum supervision. Five-day week. Canteen. Pension scheme. Write stating age and full particulars to: Personnel Manager, 1/6, Connaught Place, London, W.2. 3066

ASSISTANT SURVEYOR required in Maintenance Dept. of large Industrial Group in S.W.1 area. Varied office duties. Must be good draughtsman and have experience of specification writing and supervision of repairs and alterations, etc. Age 25-30. Write stating full details and experience and salary required to Box 3057.

NEW Nottingham and Belper offices: good ASSISTANTS are required to handle some exciting jobs. Salary range £500-£1,000 with opportunities for advancement: five-day week. Please write to G. E. Grey, Penmaen House, Belper, Derby. 3056

TWO JUNIOR ASSISTANTS required immediately. Varied and interesting work in congenial surroundings. Excellent prospects for keen assistant, good draughtsmanship and a sensible knowledge of construction essential. Please write giving full particulars to Messrs. J. W. Hammond, Lloyds Bank Chambers, Main Road, Gidea Park, Romford, Essex. Telephone Romford 40562. 3055

SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS urgently required for large West Riding office. Salaries from £700-£1,500 according to qualifications and experience. Non-contributory pension scheme in operation, good prospects for advancement. Apply giving particulars of age, education, experience, etc. to Box 3053.

ASSISTANTS required, Intermediate to Final standard, for interesting Commercial and Industrial work. Salary commensurate with ability and enthusiasm. Good office conditions, lunch facilities. Apply in writing to Alan A. Briggs, F.R.I.B.A., 10 Fleet Street, London, E.C.4. 3051

KEEN and energetic ASSISTANT of about Intermediate standard required for busy private office. Write W. P. P. Grant, 565, London Road, North Cheam, Surrey. Telephone No. DERwent 0512. Salary by arrangement. 3044

LONDON BRICK COMPANY LIMITED APPLICATIONS are invited for the position of ASSISTANT ARCHITECT in the Estates Department, Stewartry, Bedford. It will be an advantage if the applicant is an Associate of The Royal Institution of British Architects. Housing accommodation can be made available if required. Applications giving details of training, age, qualifications, experience and stating salary required should be submitted as soon as possible to the Personnel Manager, Stewartry, Bedford. 3080

A SENIOR ASSISTANT with several years' experience able to assume responsibility and control of staff under the Branch Architect at Birmingham. The Office is engaged on a varied and interesting programme of commercial projects. A five-day week and Superannuation Scheme is in operation. Applications, giving full particulars and salary required to: G. S. Hay, A.R.I.B.A., Chief Architect, Co-operative Wholesale Society Limited, 1, Balloon Street, Manchester, 4. 3083

ARCHITECTURAL ASSISTANT required to work on industrial buildings. Preferably qualified with minimum of two years' experience. Salary according to age and experience. Ramsey, Murray, White & Ward, 32, Wigmore Street, W.1. 3076

J. M. AUSTIN-SMITH & PARTNERS, 29, Sackville Street, London, W.1 have a vacancy for a qualified ARCHITECTURAL ASSISTANT with office experience. Opportunities for designing and taking responsibility for running and supervising contracts. Salary according to age and experience but in the region of £800. Please apply in writing. 3093

SENIOR ARCHITECTURAL ASSISTANT wanted as Studio Leader in General Practice. Apply in writing for an appointment to Eberlin & Darbyshire, 3, College Street, Nottingham. 3091

ASSISTANTS required for field surveys in various parts of the country. Telephone Portsmouth 25511 for appointment. 3092

INTERMEDIATE ARCHITECTURAL ASSISTANTS required for busy office in Dartford. Apply stating age, experience and salary required to Box 3049.

ARCHITECTURAL firm in Home Counties with varied practice, require ASSISTANTS. Intermediate, qualified, or at that standard. State experience and salary required to Box 3089.

N. W. KENT, ARCHITECTURAL ASSISTANT required. Intermediate standard. Salary range £500-£750, dependent on experience and capability. Five-day week. Write stating age, experience and salary required to Box 3085.

ARCHITECTURAL ASSISTANTS urgently required. Intermediate and Final standard. Send full particulars to Richard Pickles & Partner, Chartered Architects, 1, Harrison Road, Halifax. 3119

ADAMS, HOLDEN & PEARSON require urgently both ARCHITECTURAL ASSISTANTS and ASSISTANT ARCHITECTS for permanent and progressive posts to work on large Hospital, Education and Commercial projects. Apply giving age, qualifications, experience and salary required to above at 38, Gordon Square, W.C.1. 3111

ASSISTANT ARCHITECTS required by Richard Costain Ltd. for work at their Head Office in London. Candidates should be recently qualified or near final. Permanent pensionable posts carrying generous salaries and offering good prospects for promotion. Address applications to Assistant Personnel Officer, 111, Westminster Bridge Road, London, S.E.1. 3102

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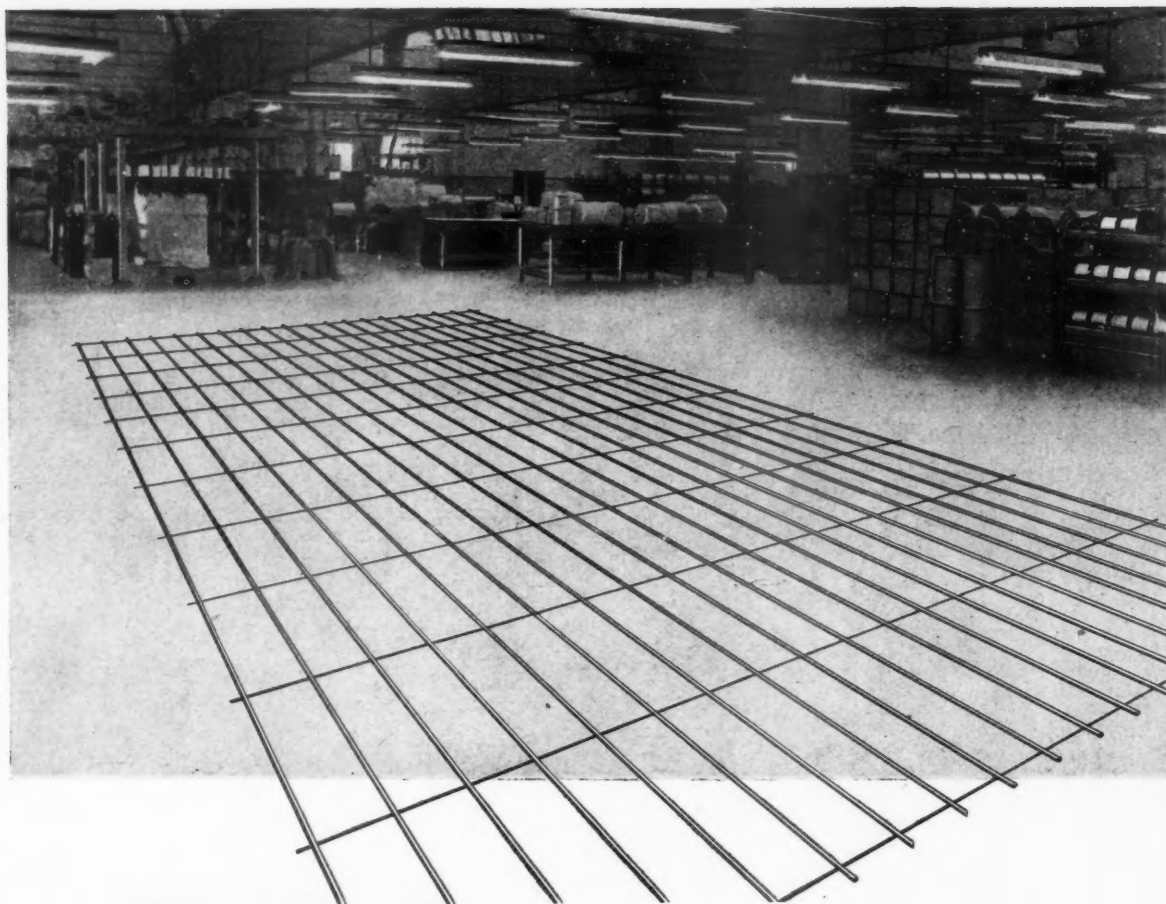
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