

THE ARCHITECTS' JOURNAL



standard contents

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

NEWS and COMMENT

Diary

News

Astragal's Notes and Topics

Letters

Societies and Institutions

TECHNICAL SECTION

Information Sheets

Information Centre

Current Technique

Questions and Answers

Prices

The Industry

PHYSICAL PLANNING SUPPLEMENT

CURRENT BUILDINGS

HOUSING STATISTICS

Architectural Appointments
Wanted and Vacant

No. 3012]

[Vol. 116

THE ARCHITECTURAL PRESS

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

Price 1s. 0d.

Registered as a Newspaper.

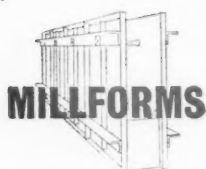
★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to I one week, I to Z the next. In all cases where the town is not mentioned the word LONDON is implicit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

IGE	Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1.	Sloane 8266
IHVE	Institution of Heating and Ventilating Engineers. 75, Eaton Place, S.W.1.	Sloane 3158/1601
IIBD	Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1.	Euston 2450
ILA	Institute of Landscape Architects. 12, Gower Street, W.C.1.	Museum 1783
I of Arb.	Institute of Arbitrators. 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2.	Temple Bar 4071
IOB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 7197/5176
IR	Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3.	Avenue 6851
IRA	Institute of Registered Architects. 47, Victoria Street, S.W.1.	Abbey 6172
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.	Sloane 7128
IWA	Inland Waterways Association. 11, Gower Street, W.C.1.	Museum 9200
LIDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264/4175
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3891
MARS	Modern Architectural Research Group (English Branch of CIAM) Secretary: Gontran Goulden, Building Centre, 26, Store Street, W.C.1.	Museum 5400
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education. Curzon Street House, Curzon Street, W.1.	Mayfair 9400
MOH	Ministry of Health. 23, Saville 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, Victoria Embankment, W.C.1.	Gerrard 6933
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.	Mayfair 9494
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalt Mine-Owners and Manufacturers Council. 94-98, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1.	Abbey 4813
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers, 10, Princes Street, S.W.1.	Abbey 5111
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. 13, Suffolk St., S.W.1.	Whitehall 1693
NHBRC	National House Builders Registration Council. 82, New Cavendish Street, W.1.	Langham 4341
NPL	National Physical Laboratory. Head Office, Teddington.	Molesey 1380
NSA	National Sawmilling Association. 14, New Bridge Street, E.C.4.	City 1476
NSAS	National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1.	Abbey 1359
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.	Whitehall 9936
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh.	Edinburgh 20396
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Langham 5721
RICS	Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1.	Whitehall 5322/9242
RFAC	Royal Fine Art Commission. 22A, Queen Anne's Gate, 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
RSI	Royal Sanitary Institute. 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
SCR	Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8.	Western 1571
SE	Society of Engineers. 17, Victoria Street, Westminster, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3.	Mansion House, 3921
SIA	Structural Insulation Association. 14, Moorgate, London, E.C.2.	Central 4444
SIA	Society of Industrial Artists. 7, Woburn Square, W.C.1.	Langham 1984
SNHTPC	Scottish National Housing. Town Planning Council. Hon. Sec., Robert Pollock, Town Clerk, Rutherglen.	
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association. 21, College Hill, E.C.4.	City 4771
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation. 75, Cannon Street, E.C.4.	City 5040
WDC	War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	Oxford 47988

***Hiring your steel shuttering
'H' frames and props?***

**It's
better to buy**

MILLS



MILLFORMS



MILLFRAMES



MILLPROPS

**AND SAVE YOURSELF *MONEY*
AS WELL AS CONTRACT TIME**

MILLFORMS (the automatically aligning and self-supporting steel shuttering for concrete walls, floors, columns and beams), MILLFRAMES (the greatest single time-and-labour-saving advance in tubular scaffolding technique) and MILLPROPS (adjustable tubular steel shores) are the finest stock investments you can make. They save you money every time you use them—and *you save more when you own them.* Write for full details now.

MILLS SCAFFOLD CO. LTD.

Head Office & Depot: TRUSSLEY WORKS, HAMMERSMITH GROVE, LONDON, W.6 • Phone: RIVerside 5026/9

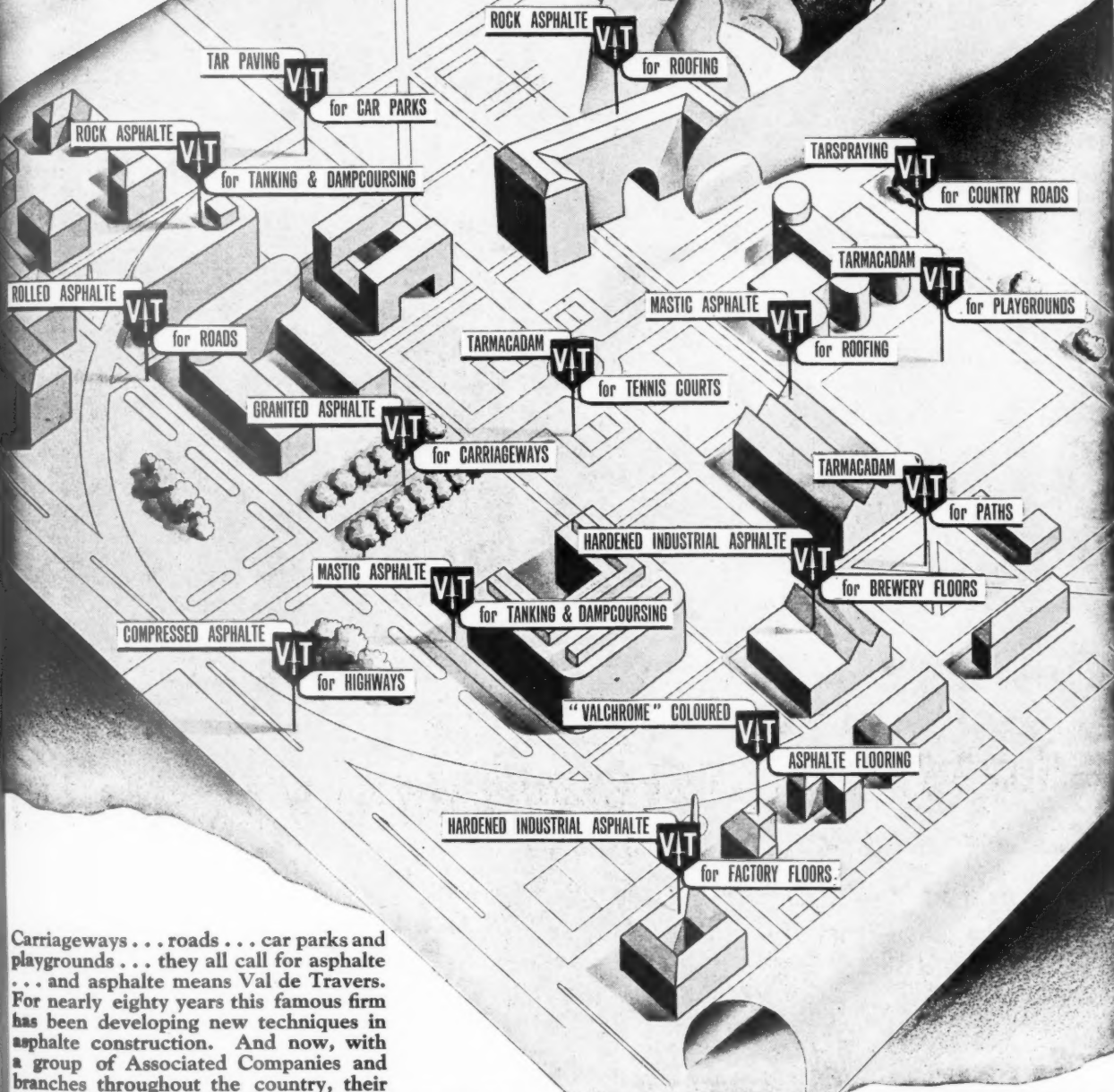
Agents and Depots: BELFAST • BIRMINGHAM • BOURNEMOUTH • BRIGHTON • BRISTOL • CANTERBURY • CARDIFF
COVENTRY • CROYDON • DUBLIN • GLASGOW • HULL • ILFORD • LIVERPOOL • LOWESTOFT • MANCHESTER
NEWCASTLE • NORWICH • PLYMOUTH • PORTSMOUTH • READING • SHIPLEY • SOUTHAMPTON • SWANSEA • YARMOUTH



Carria
playgr
... a
For n
has b
aspha
a gro
branch
know
resour
this fi

• ASPH
Sicily
CONTR
ADAM
MAKER
PAINT
and PLA
THERM

Plan for Asphalte



Carriageways . . . roads . . . car parks and playgrounds . . . they all call for asphalte . . . and asphalte means Val de Travers. For nearly eighty years this famous firm has been developing new techniques in asphalte construction. And now, with a group of Associated Companies and branches throughout the country, their knowledge, experience, and general resources make them pre-eminent in this field.

ACTIVITIES

of the Company and its Associates

• ASPHALTE MINE OWNERS in Germany and Sicily • QUARRY OWNERS • ASPHALTE CONTRACTORS • TAR PAVIORS • TARMACADAM MANUFACTURERS • ASPHALTE GROUT MAKERS • TAR SPRAYERS • ROAD LINE PAINT SPECIALISTS • HARD TENNIS COURT and PLAYGROUND CONSTRUCTORS • VALCO-THERM TILE MANUFACTURERS.



VAL DE TRAVERS

The name that stands supreme for product and service

THE VAL DE TRAVERS ASPHALTE PAVING COMPANY LIMITED
VAL DE TRAVERS HOUSE, 21 - 22 OLD BAILEY, LONDON, E.C.4

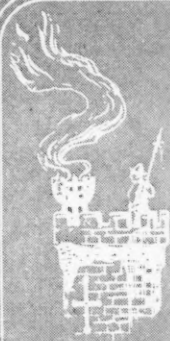
Telephone: City 7001 (10 lines) • Telegrams: Traversable, Telex, London

ASSOCIATED COMPANIES

A. C. W. HOBMAN & CO. LTD. TARROADS LTD. THE DIAMOND TREAD (1938) LTD.
THE LONDON ASPHALTE CO. LTD. SICILIAN ROCK ASPHALTE CO. LTD. UNITED
LIMMER & VORWOLLE ROCK ASPHALTE CO. LTD. W. G. WALKER (GLASGOW) LTD.

BRANCHES

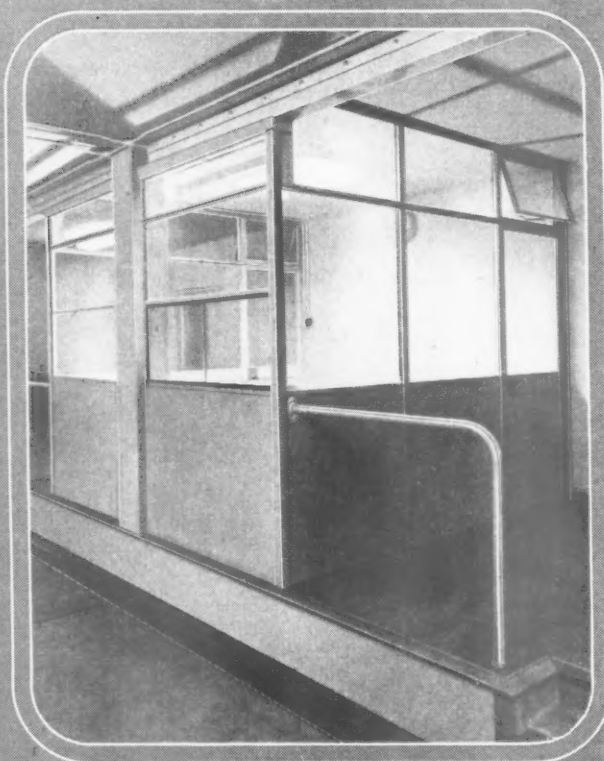
BIRMINGHAM • CANTERBURY • EXETER • GLASGOW • LINCOLN
LIVERPOOL • MANCHESTER • NEWCASTLE-ON-TYNE



BEACON

PRESSED

STEEL SCREENS



At the Offices for the Executive Council for Surrey
of the National Health Service

Architect: P. J. B. Harland, F.R.I.B.A.

JOHN THOMPSON BEACON WINDOWS
LIMITED

Ettingshall, Wolverhampton & Imperial House, Kingsway, London, W.C.2

Telephone: BILSTON 41121

Telephone: TEMPLE BAR 3216

SEE OUR EXHIBIT AT THE BUILDING CENTRE, 26 STORE STREET, LONDON, W.C.1.



EUSTON HOTEL

Lancaster Washable Wallcovering makes a charming setting for the Dining Room at Euston Hotel. The photograph is reproduced by courtesy of the Hotels Executive, British Transport.

★ **DURABLE.** Lancaster Washable Wallcovering consists of a cotton fabric base factory-coated with several coats of paint by a special process. This process ensures perfect adhesion between coats and gives the Wallcovering exceptionally long life and durability.

★ **WASHABLE.** A damp cloth wipes away all normal dirt. Grease and soot can be removed with warm water and a little mild soap.

★ **EASY AND QUICK TO HANG.** Adhesive is applied to the wall, the fabric back of the Wallcovering gives a perfect bond and imperceptible butt joints. Lancaster Wallcovering is the equivalent of several coats of paint applied in one simple and quick operation.

★ **SMART APPEARANCE** because Lancaster Washable Wallcovering is so easy to keep clean and fresh. Manufacturing methods ensure even colouring and an attractive finish. No risk of unsightly cracks as in painted walls.

LANCASTER

WASHABLE WALLCOVERING

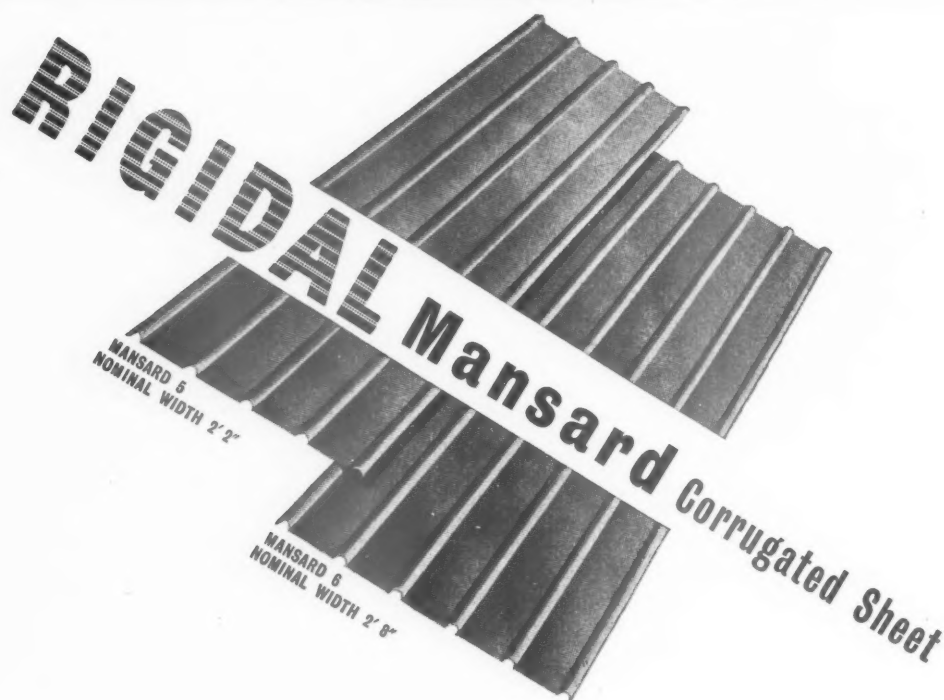
“LION”



BRAND

JAS. WILLIAMSON AND SON LIMITED • LANCASTER

London Office: EPWORTH HOUSE, 25-35 CITY ROAD, E.C.1



**AVAILABLE IN THREE GAUGES — 20, 22 & 24 SWG.
LENGTHS UP TO 12' IN STEPS OF 6"**

"RIGIDAL" MANSARD is a general purpose cladding sheet. Stiffened by half-round flutes at 6" centres, it is of attractive appearance and possesses great durability. With a low first cost and a surface that requires no decoration or protective coating "RIGIDAL" MANSARD is particularly suitable for the siding of small industrial buildings, garages and all types of portable buildings.

It may also be used as a roofing material providing the limitation of a one corrugation side-lap is acceptable. When used as roofing the accompanying table of maximum recommended design loads should be applied.

Recommended maximum design loads (in lb. per sq. ft.)

PURLIN SPACING	20 SWG	22 SWG	24 SWG
3' 0"	52	46	39
3' 6"	39	33	29
4' 0"	30	26	22
4' 6"	24	20	—
5' 0"	20	—	—

The above recommendations are based on a maximum working stress of 11,000 lb./in.² giving a factor of safety of 2 on the 0.1% proof stress (yield).

British Aluminium

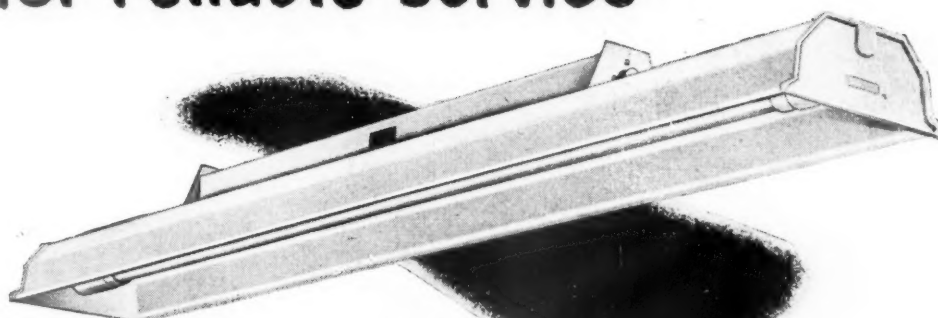


THE BRITISH ALUMINIUM CO LTD NORFOLK HOUSE 81 JAMES'S SQUARE LONDON SW1

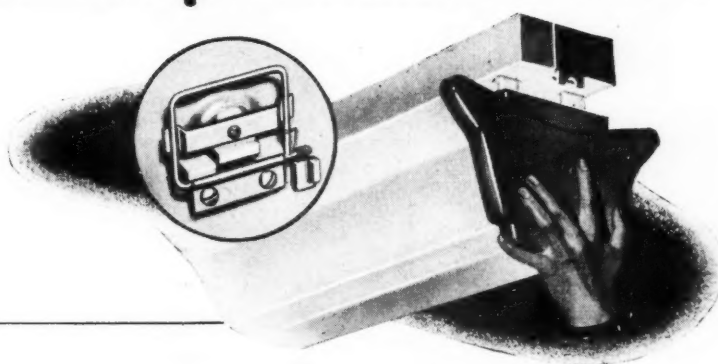
Designed for distinction



Built for reliable service



Planned for simple maintenance



EDISWAN

Industrial and Commercial Fluorescent Lighting Equipment

THE EDISON SWAN ELECTRIC CO. LTD., 155 CHARING CROSS ROAD, LONDON, W.C.2

Member of the A.E.I. Group of Companies

LE143

SIEGWART

PRECAST FLOORS & ROOFS



SIEGWART FLOOR COMPANY LIMITED

GABLE HOUSE, 40 HIGH STREET, RICKMANSWORTH, HERTS.

RICKMANSWORTH 2268

BERKELEY HOUSE, BIRMINGHAM 16
324 DEANS GATE, MANCHESTER 3
ENDERBY, NEAR LEICESTER

CARLTON HOUSE
26 BLYTHSWOOD SQUARE
GLASGOW, C.2



Architects: Edward Forshaw & Greaves, A.R.I.B.A.

3 scenes

AT THE
THEATRE
ROYAL
HANLEY



The counter front of the Mezzanine Bar is in vertical oak moulded boards, the top in laminated plastic; the Dalex Grille (shown closed) follows the counter profile; seating is in upholstered leathercloth.

★

The shaped counter of the Snack Bar is in greywood veneer with plastic top and bagshelf; stainless steel footrail and tubular stools. The centre section of the backfitting has a Dalex Grille.

★

The Stalls Bar is in veneered Australian walnut with greywood band and recessed skirting. The backfitting has a solid walnut sideboard. Dalex counter-profiled Grilles (shown open) are fitted. Seating is in upholstered leathercloth.

BREWERS' EXHIBITION
24th-28th Nov,
OLYMPIA
F Row 2 and
G Row 2

Gaskell Chambers
LIMITED

Britain's Biggest Bar Fitters.

Member of the Allied Brewery
Traders' Association

Head Office; Dalex Works,
Coleshill Street,
Birmingham, 4.

London Office: 109-115,
Blackfriars Road, S.E.1.



Branches; Bristol, Cardiff, Hanley, Leeds, Liverpool, Manchester, Newcastle-on-Tyne, Nottingham, Portsmouth, Preston, Sheffield, Glasgow, Edinburgh.



Mastery of the Seas

The Golden Age of Elizabeth I

With the defeat of the Spanish Armada, the England of the First Elizabethans assumed the mastery of the seas. Who would have prophesied so swift a rise to eminence when, at the beginning of the reign, she could boast little more than a handful of ships? It was an unconquerable spirit of adventure that spurred the merchantmen on to challenge the authority of the dominating powers; and a fierce enterprise, allied to craftsmanship, that built the navy. Soon, under the direction of Hawkins, the proudest ships of the fleet were the superiors of the illustrious Spanish galleons. But greater even than the ships were the courage and daring of the men that manned them. It is to Drake's Men that England owes the establishment of her naval tradition.



AVON WHARF, LONGFELLOW ROAD, MILE END ROAD, E.3. Telephone: ADVANCE 4444 (10 lines)

Cheap Domestic Hot Water

THE FACTS OF A SECONDARY SYSTEM

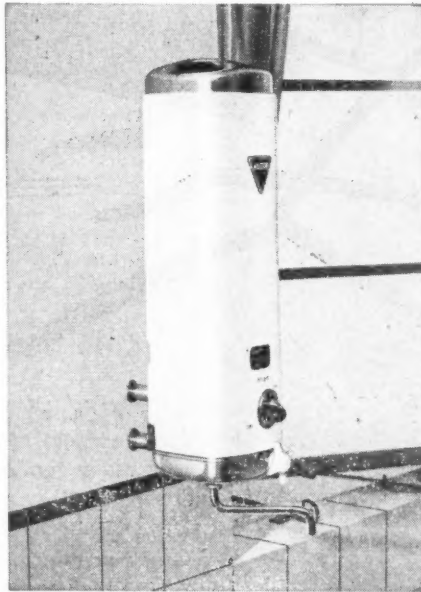
Every home fitted with a solid fuel water heating apparatus also needs a secondary system. In the summer it is uncomfortable and extravagant to have a fire going to provide intermittent hot water in the kitchen, where it is constantly in demand. Even in the winter the supply from the solid fuel system falls short of kitchen needs unless fuel is burned briskly most of the time.

There is no necessity for the secondary system to provide a bulk supply, as the demand for large quantities of hot water for bathing is pre-arranged in the majority of homes. What is absolutely necessary is an instant supply at the kitchen sink for washing-up, washing clothes, toilet purposes, bathing the baby, cooking and domestic cleaning.

Gas, used in one of the Ascot sink water heaters, provides such a service. The Ascot water heater only uses fuel while the hot water is actually being drawn, and heats just the amount of water required for each job, so there is no wastage. The instantaneous heater

has a high rate of efficiency and is very economical. It neither divides its heat output between water heating and space heating, nor wastes by-products of coal distillation up the domestic chimney.

The capital cost is lower than any other secondary system. Lagging a storage tank is unnecessary, and this pleases housewives who rely on the tank to warm airing cupboards. To minimise the cost of installing gas and water services at the sink for these heaters, and thus to make them irresistibly suitable for housing estates, the Ascot Company has developed the Jigged Wall Fitting, which is chased in during the erection of dwellings, cost being negligible at carcass stage. If the Ascot Sink Water Heater is not fitted



An Ascot installation using the Jigged Wall Fitting

before occupation, this can be done at any time in a few minutes without disturbing or affecting the decorations. Architects, surveyors, builders and housing authorities are invited to investigate this simple and inexpensive method of providing a secondary hot water system. Their attention is drawn to the facts that it creates no peak-load problems, and that a supply of piping hot water is always available day and night, winter and summer, at the turn of a tap.

More than 44 housing authorities have already adopted the system and more than 20,000 jigged wall plates have been installed.

A leaflet is available and full details will gladly be supplied.



ASCOT GAS WATER HEATERS LIMITED • 43 PARK STREET • LONDON W.1 • GRO 4491

A Big hand for...



Mr. Speed operates to the best advantage because the emphasis is on Standard Sizes. Repetition quantity production speeds the flow of HILLS GRADE ONE DOORS through the factory and makes for better quality, better value and better service. Plan to use Standard Sizes instead of "Specials;" take full advantage of extra Quality, Value and Service and help speed the job.

HILLS *Grade One* DOORS

GIVE YOU A LOT MORE QUALITY AND VALUE — FOR NO EXTRA COST

Messrs Quality, Value, Service, Stan Dard and Strong.... gentlemen you've met in previous issues, who also help to make Hills Doors the best you can buy.

F. HILLS & SONS LTD.

NORTON ROAD, STOCKTON-ON-TEES



Telephone: 67141

clear directions for work continuance in **FROST**

Free on Request

BUILDING AT "BELOW FREEZE"

Lewes Beats the Weather

"Despite 26 degrees of frost in Lewes, over 160 men have been continuously employed on the construction of dwellings on the Landport Estate. This has been due to the foresight of the Borough Surveyor (Mr. C. T. Butler) and his staff, and has been made possible by using an anti-freeze mixture (Evide 101 T.S.) with the cement. By this means the ratepayers have been saved nearly £1,000."

"Contractor Record and Municipal Engineering," March 19th, 1947

The builder can proceed with concreting and mortar work in the coldest spell, even at 3° F., by using Evide 101 T.S., which increases the internal heat of the mix, makes freezing impossible and simultaneously reduces the setting and hardening time. It has no corrosive action on steel.

EVODE LTD., Glover Street, Stafford



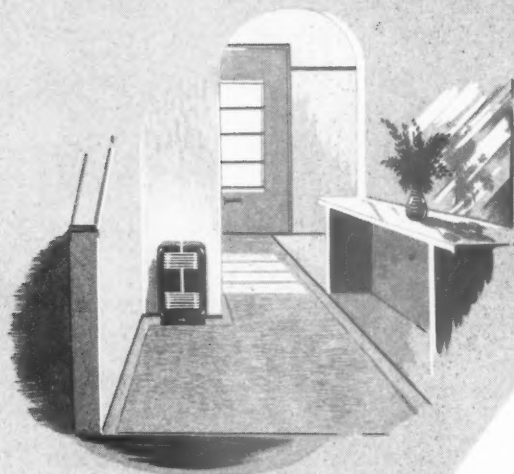
EVODE

**101 T.S.
FROST PROTECTIVE**

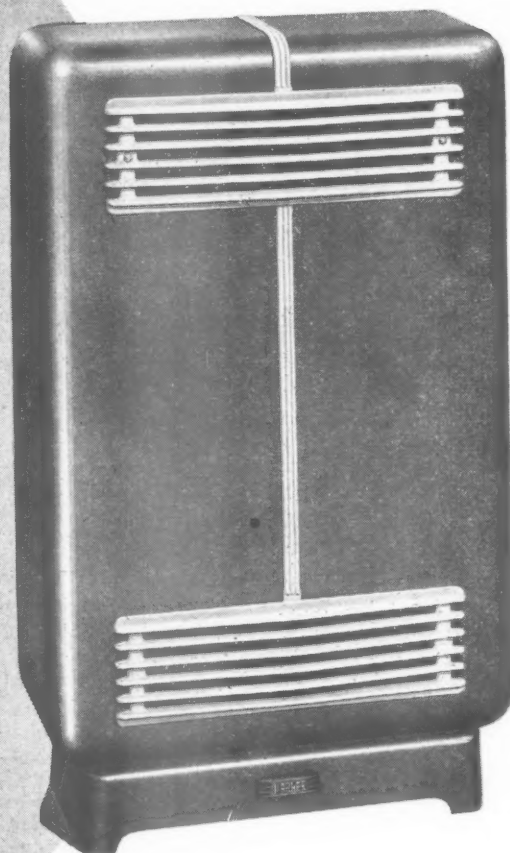
X FORESIGHT!

Recommend stocking Evide 101 T.S. now and avoid the loss and delay through work standing idle as supplies are awaited when frost strikes. Leaflet No. 101 gives full details including correct mixing ratios. Sent on request to Evide, Ltd., Glover Street, Stafford.

WARMTH for the coldest places ...



**HARPER
HOUSEWARES**



The latest Harper No. 3161 Gas Radiator provides a compact heating unit ideal for warming shops, offices, hallways, bathrooms and to supplement the heating of living rooms. Its simple, smooth design harmonises perfectly with modern schemes of interior decoration. Finished in Dark Bronze, with vitreous enamelled cast-iron louvers and cream painted centre strip. Gas consumption 18 cu. ft. per hour.

Dimensions : Height 30 in.
Width 19 in.
Depth 6½ in.
Weight 40 lb.

Obtainable through the usual wholesale channels.

JOHN HARPER & CO. LTD. • ALBION WORKS • WILLENHALL • STAFFS

LONDON OFFICE SEAFORTH PLACE, 57, BUCKINGHAM GATE, LONDON S.W.1 Tel.: TATE GALLERY 0286



For perfection of finish, use paints from
the Walpamur range, which includes
Duradio Enamel Paint, Muromatte Flat Oil Paint
and, of course, Walpamur Water Paint
—the standard flat finish.



BY APPOINTMENT PAINT & WATER PAINT MANUFACTURERS TO THE LATE KING GEORGE VI

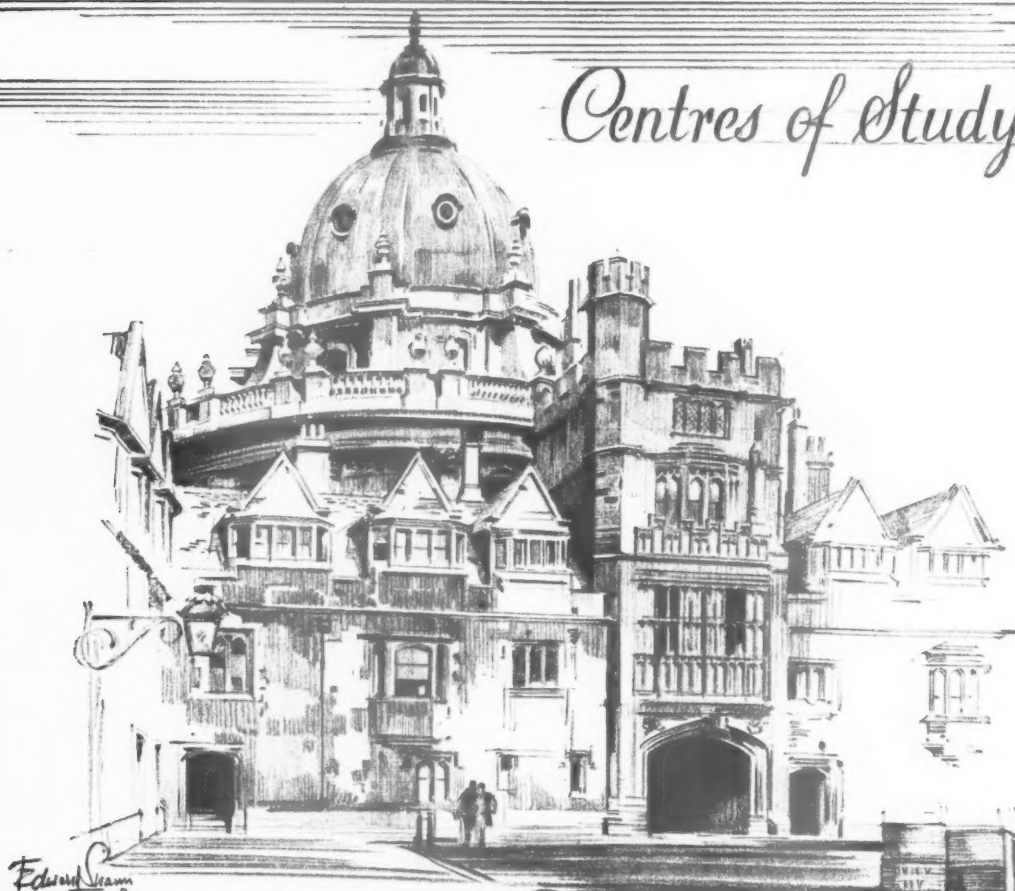
See our Exhibit at the BUILDING CENTRE
26, Store St., Tottenham Court Road, London, W.C.1



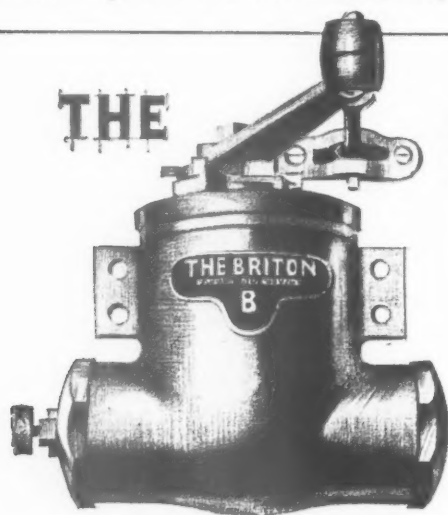
THE WALPAMUR COMPANY LIMITED · DARWEN AND LONDON

W184

Centres of Study



Oxford—The Radcliffe Camera and Brasenose College Quadrangle,
for hundreds of years the centre of academic study.



THE BRITON

DOOR CLOSER

SPECIFIED by
leading architects.

WILLIAM NEWMAN & SONS Ltd
Hospital Street, BIRMINGHAM 19. Established over 200 years

Be British . . . buy British



SUNDEALA

HARDBOARDS—MEDIUM HARDBOARDS—INSULATION BOARDS

Made in Britain

**Make sure your board is
home produced**

★ IMMEDIATELY AVAILABLE ★

SUNDEALA BOARD CO LTD

HEAD OFFICE: ALDWYCH HOUSE, LONDON, W.C.2

TEL: CHANCERY 8159 WORKS: SUNBURY-ON-THAMES, MIDDX.
GLASGOW—BALTIC CHAMBERS, 50 WELLINGTON STREET, C.2
NEWCASTLE—NORTHUMBRIA HOUSE, PORTLAND TERRACE, 2



When it comes to plans for fuel, the architect who is called upon to design premises for a laundry, whether it be a commercial or an institutional laundry, a "laundrette" or a communal laundry attached to a block of flats, needs to take gas into consideration. For gas is widely used as a source of heat in all these various premises. Typical examples of its use are for heating tumblers and drying cabinets, hand and mechanical irons, and the rollers on shirt and collar finishing machines; providing hot water for domestic type washing machines; firing standby boilers and heating boilers for heavily soiled articles in communal laundries. A considerable body of experience has been accumulated by the Gas Industry, not only of these aspects of the use of Gas, but of wider problems connected with the layout and equipment of laundries and laundry service rooms. All the available information on the subject is freely at your service through your local Gas Undertaking.

ISSUED BY THE GAS COUNCIL, 1 GROSVENOR PLACE, LONDON, S.W.1 Telephone: SLOANE 4554

GC.18

VIGERS WOOD FLOORS

Reasons three
for our flooring guarantee

1

WE USE—Best quality timbers

of consistent high standard, obtained by direct selective buying from the saw-mills of the world.

2

WE HAVE—Modern plant and machinery

specially designed and built for the exclusive manufacture of Hardwood Flooring, ensuring precision machining with a cutting accuracy within three thou. of an inch. Each unit produces on average one yard of flooring per minute, finished, each working day.

3

WE EMPLOY—Skilled craftsmen

numbers of whom have been with us for many years. They combine knowledge and experience with enthusiasm, to make the vital difference between a good and a first-class job.

The timbers, the machines and the craftsmen, backed by efficient supervision and administration, gives the answer to our guarantee and why we have stood by it **IMPLICITLY** throughout seventy-five years.

Make use of our guarantee—Specify FLOORING BY V.B.

VIGERS BROS. LIMITED

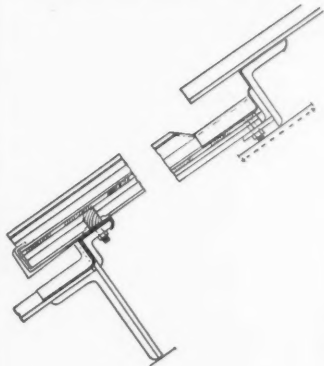
SPECIALISTS IN WOOD FLOORING

Broadway Chambers, Ludgate Broadway, London, E.C.4. and at 87 King Street, Belfast.
Telephones : City 2111 (6 lines), Belfast 28265.

Contractors for :—Cork tile floors. "ACCOTILE" floors (product of Armstrong Cork Co., Ltd.)

VIGERS WOOD FLOORS

THE AYGEE B.A. SYSTEM

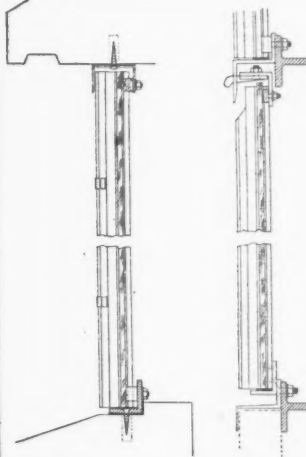


TO STEEL

One $\frac{1}{4}$ in. bolt at top and bottom on centre line of bars. Drill one $\frac{1}{2}$ in. dia. hole in purlins at Standard back mark.

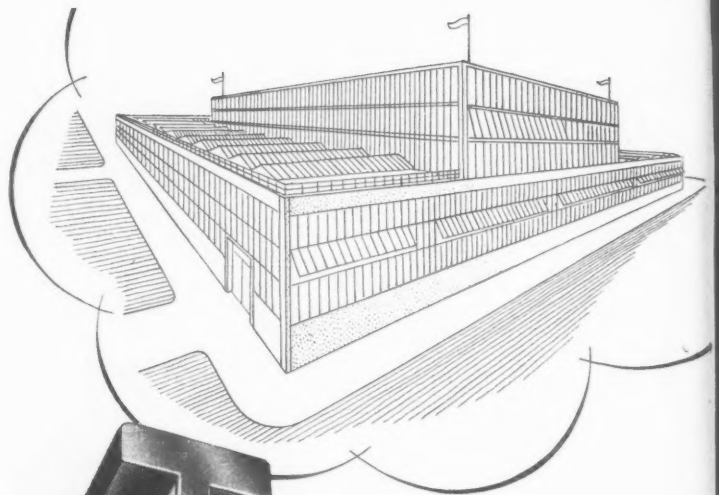
THE AYGEE B.A.1. SYSTEM

Applied to VERTICAL GLAZING

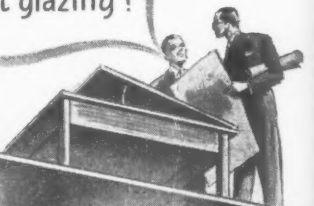


Section
through fixed
portion

Section
through opening
portion



...and we must
have Aygee
patent glazing!



AYGEE PATENT GLAZING

Immediate delivery

For further details write or phone the Patent Glazing division of AYGEE LIMITED

Head Office: 100 WESTMINSTER BRIDGE ROAD, LONDON, S.E.1. Telephone: WATERloo 6314 (10 lines)

Branch Works: Aintree Road, Perivale, Middlesex. Telephone: PERivale 6211 (6 lines)

See our exhibit at
the Building Centre
26, Store Street,
Tottenham Court
Road, W.C.1

PIONEERS OF ALUMINIUM PATENT GLAZING

A PRODUCT OF ENGLAND'S LARGEST GLAZING CONTRACTORS



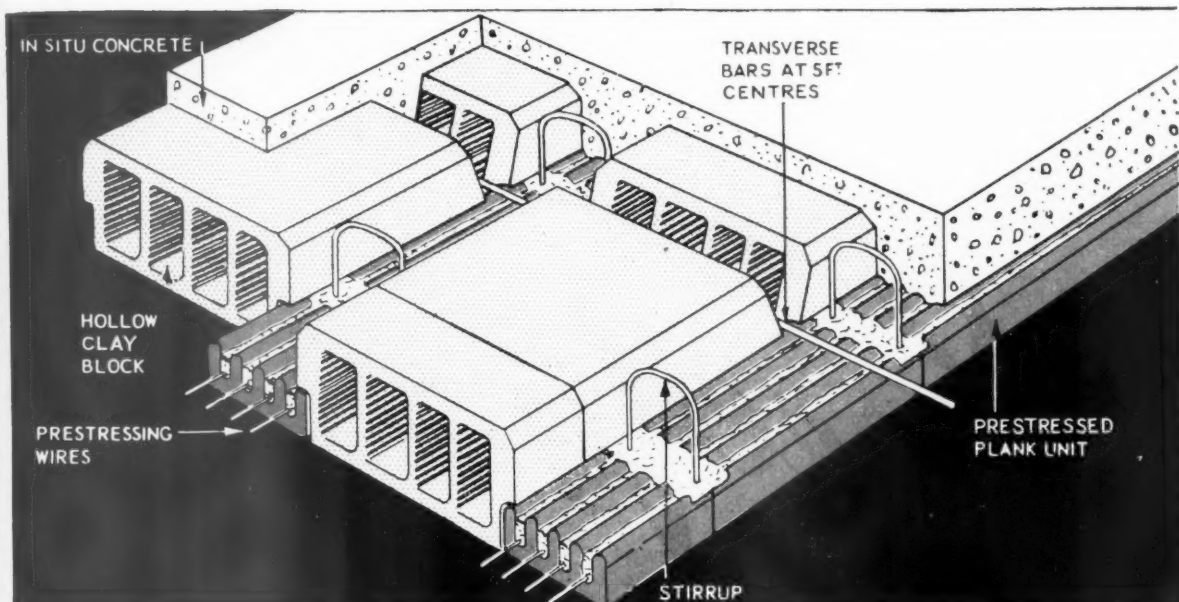
it at
entre
ect,
ourt

lines)



ORS





Stahlton

STAHLTON prestressed clay block floors and roofs embody the combined advantages of prestressing, light weight, fire resistance, adaptability and ease of erection. The principal component is a factory made prestressed Plank containing high tensile steel wires embedded in vibrated mortar in grooves in the upper surface of clay blocks laid end to end. Hollow clay filler blocks are placed between the Planks giving a uniform clay block soffit which is ideal for the application of plastered finishes. The floor is completed by placing in situ concrete of the required thickness. Tests show that Stahlton has a very high degree of fire resistance and in this respect it is superior to other types of flooring.

With the range of standard hollow blocks Stahlton is suitable for all classes of buildings, from lightly loaded roofs to factory floors. No shuttering is required and there are no heavy units to be transported or handled on the site.

Details of Sections and Units available upon request to:—

LICENSEES:—

COSTAIN CONCRETE CO. LTD.
STAHLTON LANE, SOUTHEND ARTERIAL ROAD,
CHILDERDITCH, Nr. BRENTWOOD, ESSEX
Telephone: HERONGATE 317

COSTAIN CONCRETE CO. LTD.
COWBRIDGE ROAD, BRIDGEND, GLAMORGAN
Telephone: BRIDGEND 961

COSTAIN CONCRETE CO. LTD.
COLTNESS FACTORY, NEWMAINS, LANARKSHIRE
Telephone: WISHAW 880

R. COSTAIN & SONS (LIVERPOOL) LTD.
BARLOWS LANE, LIVERPOOL, 9
Telephone: LIVERPOOL, AINTREE 4141

Specify



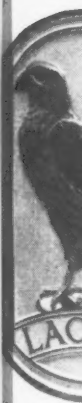
THE OUTSTANDING ALL
WOOD FIBRE HARDBOARD
(MADE IN SWEDEN)

STANDARD,
OIL TEMPERED, (WATER RESISTANT)
AND FLAMEPROOFED QUALITIES

$\frac{1}{8}$ " and $\frac{3}{16}$ " Thick
4' 0" and 5' 3" Wide

Lengths Cut from 18'

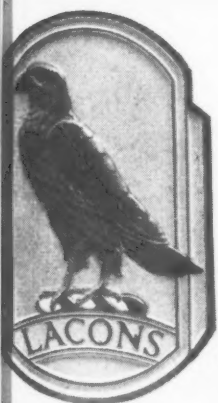
C
FA
PI



CARTER FAIENCE PLAQUES



Some examples of the types of plaques which we can do extremely well. They can still be made and fixed in time for the Coronation.



CARTER

CARTER & CO. LTD., POOLE, DORSET. Telephone: POOLE 125
CARTER & CO., LONDON, LTD., 29 ALBERT EMBANKMENT, S.E.11 Telephone: RELIANCE 1471
COMMERCIAL MARBLE & TILES LTD., NEWCASTLE-ON-TYNE. Telephone: JESMOND 900
ROBERT CAMPBELL & SONS, EDINBURGH 6. Telephone: LEITH 39188

Associated Companies: Art Pavements & Decorations Ltd.

The Marbolith Flooring Co. Ltd.

J. H. Barratt & Co. (1927) Ltd.

New Improved Quality

- Greater Density • Greater Strength
- Lower Moisture Absorption

5 ft. 3 ins. wide

"I ought to know because I'm the foreman.....the best hardboard of the lot is Ahlström Five-Three—Why? You ask me.... Why? Because it's got that extra width—it cuts right and leaves you useful offcuts for all kinds of jobs.....no waste.....see? Think of the saving in timber and labour for that matter.....good reliable stuff it is! Now don't you forget it.....next time order Ahlström FIVE-THREE... the hardboard with the extra width."



THE HARDBOARD WITH THE EXTRA WIDTH

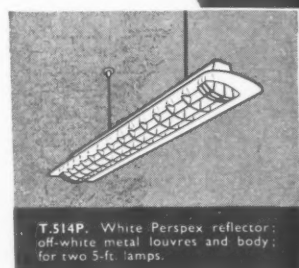
AHLSTRÖM
FIVE-THREE

Enquire from your local merchants or from

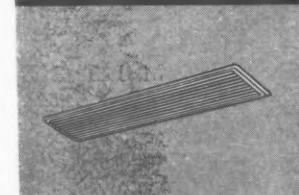
Plywood & Timber Products Agencies Ltd.,
City-Gate House (East), Finsbury Square,
London, E.C.2.

Manufactured by A. AHLSTRÖM OSAKEYHTIÖ, FINLAND

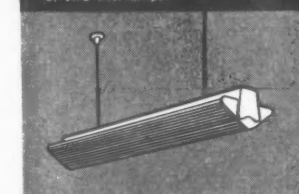




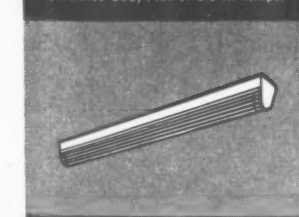
T.514P. White Perspex reflector; off-white metal louvres and body; for two 5-ft. lamps.



T.410G. Reeded glazed laylight; off-white and bronze frame; for one or two 4-ft. lamps.



T.511P. Reeded Perspex diffuser; off-white body; for two 5-ft. lamps.



T.418. Reeded Perspex diffuser; off-white body; for one 4-ft. lamp.

Troughton & Young lighting fittings have been installed in this new store at Plymouth for E. Dingle & Co. Ltd. (Architects: Sir John Burnet, Tait & Partners). We design special fittings to architects' requirements, or can supply fittings from our standard Ultralux, Tubalux, Versalite and Mondolite ranges. On the left are illustrated examples of Tubalux (fluorescent) lighting fittings. Architects are invited to see our complete ranges at the Lighting Centre, Knightsbridge.

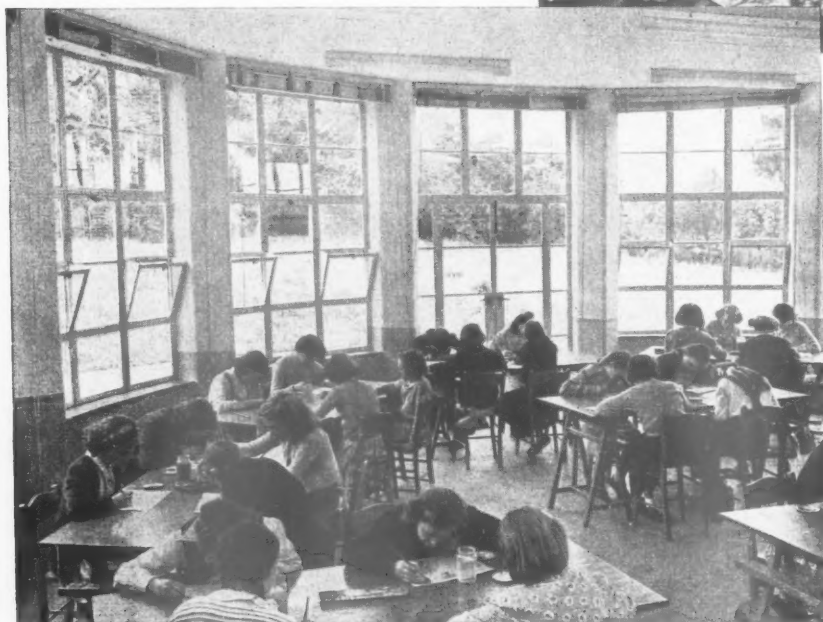
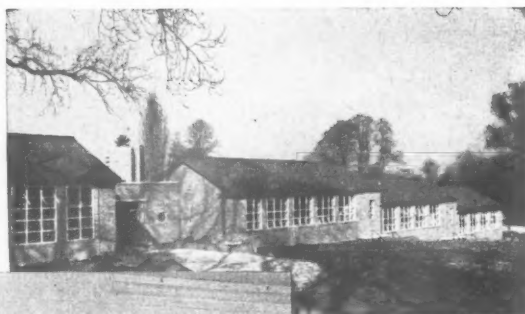
TROUGHTON & YOUNG (LIGHTING) LIMITED

The Lighting Centre

143 KNIGHTSBRIDGE, LONDON, S.W.1. TELEPHONE: KENSINGTON 7457 (15 lines)

Manor Park Secondary School

ALDERSHOT



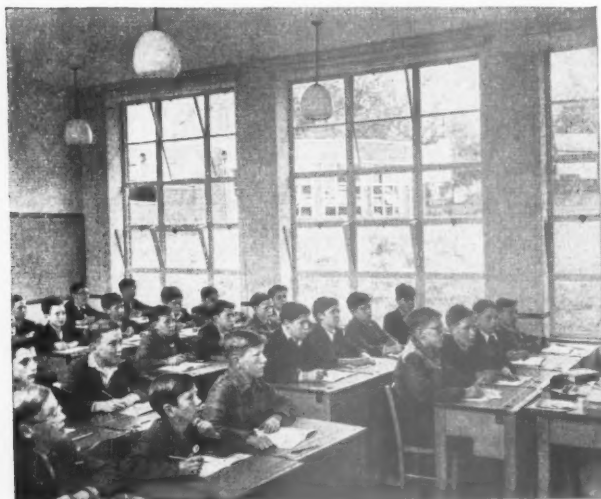
Architect:

S. Low, Dip. Arch.

(Aberdeen), A.R.I.B.A.

County Architect

THE MORRIS SINGER COMPANY LIMITED



THE MORRIS SINGER COMPANY LIMITED
Head Office: FERRY LANE WORKS, WALTHAMSTOW,
LONDON, E.17. Telephone: LARKSWOOD 1055

A combination of horizontal centre hung and hopper casements with small fixed lights, divided into composite units by pressed steel mullions. Made in mild steel Medium Universal Sections, all the windows, mullions, pressed steel sills and blind boxes are rendered rust-resisting by zinc bonding.

Ventilation is by means of the horizontal centre hung casements and hopper casements fitted with steel framed glass side cheeks to prevent draught. Between the window units, mullions are applied to the face of R.S. stanchions which are set back behind the face of the windows. Pressed steel boxed end sills form continuous runs in true alignment and a pressed steel joint piece has been inserted at the junctions of sills and mullions.

FACTORIES *improve working conditions with*

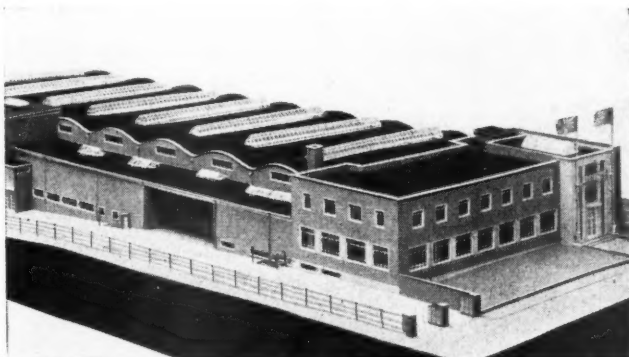


REMOTE CONTROLS,
COVERED BY PATENTS

so do OFFICIAL and almost all kinds of buildings

VENTILATORS, dampers, air-conditioning blenders, flap or butterfly valves, etc., can be easily, efficiently and silently controlled by

ARENS CONTROL GEAR
designed for the purpose



This photograph illustrates the newly built Factory of The Lapointe Machine Tool Company, Limited, at Bushey Heath, Herts. Arens controls are fitted to the long lantern lights in each of the barrel-vaulted roof sections.

Architects: Herbert A. Welch & Felix J. Lander, F.R.I.B.A.

Arens gear supplied by the Crittall Manufacturing Company, Limited, of Braintree.



The Standard Motor Co., Ltd., Coventry.
B.H./S.W. Type I controls fitted to fanlights in the Reception Room.
Building designed by: Standard Motor Company, Planning Dept.
Arens gear supplied by Mellows & Company, Limited, of Sheffield.
Photograph by courtesy of The Limmer & Trinidad Lake Asphalt Company, Limited.

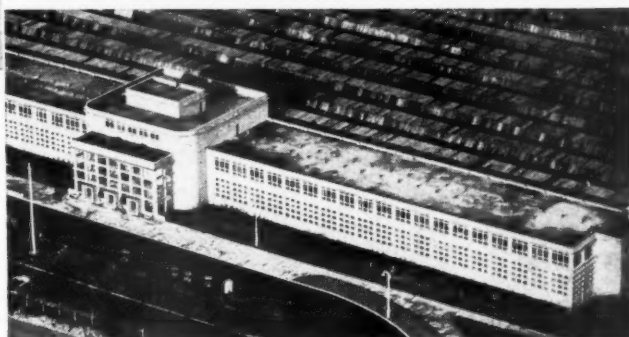
NEW ARENS CATALOGUE!

Containing full particulars of our

WINDOW CONTROL GEAR

76 pages—fully illustrated

ARCHITECTS and PRINCIPALS are invited to write to us for a copy



Paton & Baldwins new Factory at Darlington is equipped with both Arens window and damper control gear.

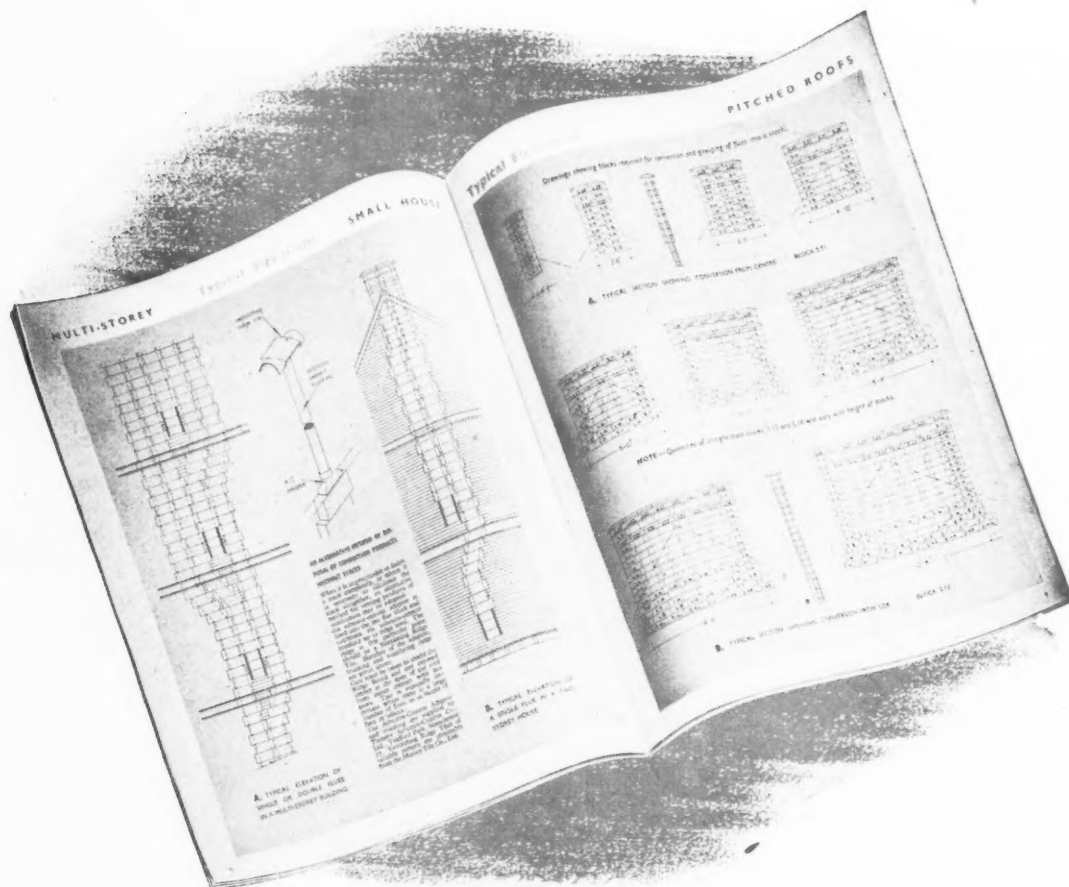
Consulting Engineers: Sir Alexander Gibb & Partners.

Photograph by courtesy of the General Contractors, John Laing & Son, Limited.

ARENS CONTROLS LTD.

TUNSTALL ROAD • EAST CROYDON • SURREY

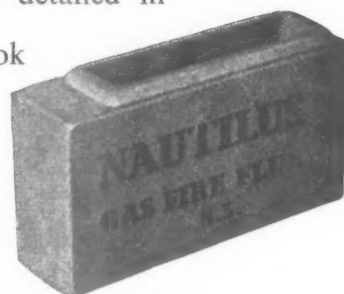
Telephone: ADDiscombe 3051/4



The construction of precast concrete flues
for gas fires and ventilation is fully detailed in
the Nautilus Gas Fire Flue Block Book

Copies on application

Nautilus precast concrete flue blocks



made by **MARLEY**

THE MARLEY TILE COMPANY LIMITED

LONDON ROAD · RIVERHEAD · SEVENOAKS · KENT · SEVENOAKS 2251/6

PUBLIC HYGIENE
and the
FOOD & DRUGS ACT
DEMAND
HOT WATER

For plenty of cheap
HOT WATER on tap

-FIT A
EWART
GAS
WATER HEATER



Ewart Multipoints are made in a number of types and sizes giving an instant and constant supply of hot water from $1\frac{1}{4}$ to 16 gallons per minute. Wherever hot water is required in the home, factory or business premises, and to conform with the requirements of the Food and Drugs Act, in shops, hotels and restaurants, a EWART gas water heater is available which exactly meets the need. A EWART water heater is designed to give maximum hot water supply at minimum cost of fuel and maintenance. The water never runs cold.

EWART WATER HEATERS **MULTIPOINT BATH-SINK**

"HOT WATER INSTANTLY — DAY AND NIGHT"

EWART & SON LTD., 35 KENTISH TOWN ROAD, LONDON, N.W.1. Works : LETCHWORTH, HERTS. Estd. 1834.

A plan for economy and speed of erection



THE WESSEX COTTAGE

THE WESSEX COTTAGE has been developed by Orlit to meet the need for an economical and well designed dwelling which could be erected quickly and with the minimum use of skilled labour. It is particularly suitable for rural areas.

A prototype cottage (illustrated above) has been built at the Orlit Factory at Colnbrook, within 18 miles of Charing Cross. A cordial invitation is extended to architects, local authorities etc. to make a visit of inspection.

ORLIT

CONSTRUCTION

PRE-CAST CONCRETE
PRE-STRESSED CONCRETE



A NATION WIDE SERVICE

ORLIT LTD. 18 Buckingham Gate,
London, S.W.1. Tel: Victoria 6701
ORLIT (Lancashire) LTD. 3 Brown Street,
Manchester 2. Tel: Blackfriars 0718
ORLIT (N. Ireland) LTD. Benson Street, Lisburn, Co. Antrim Tel: 2051

TARSLAG LTD. Economac House,
Wolverhampton. Tel: 23881
TARSLAG LTD. Tees Bridge,
Stockton-on-Tees. Tel: 6355



**"Expensive sound-proofing?
It really wasn't necessary!"**

"There's never a lot of noise in here — but footsteps and similar sounds often disturb readers. They put in thinner sound-absorbing tiles than usual, I understand, and so it all cost much less than was expected. A good bargain all round, most ratepayers think!"

An inexpensive Acousti-Celotex sound-absorbing tile is now available for installations where noise is irritating and distracting rather than loud and sharp. This tile—type C1—is $\frac{1}{2}$ in. thick and made in two sizes: 12" x 12" and 12" x 24".

These tiles provide the most economical means for permanent sound correction in offices, corridors, libraries, waiting rooms, studios and other places where noise is

tiresome. (Other tiles in the Acousti-Celotex range are more suitable for factories and buildings where sound reverberation is excessive).

If cost is a major consideration, type C1 tiles are the answer to your sound problem and like all Acousti-Celotex tiles, they can be frequently decorated without impairing their sound absorbing efficiency.

ACOUSTI-CELOTEX

BANISHES NOISE-FATIGUE

CELOTEX LIMITED, NORTH CIRCULAR ROAD
STONEBRIDGE PARK, N.W.10. Telephone ELGar 5717

REGIONAL DISTRIBUTORS

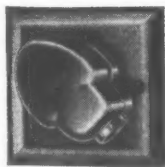
Yorkshire, the Midlands, Southern Counties and Wales
HORACE W. CULLUM & COMPANY LIMITED
8-9 Flowers Mews, London, N.19 (Tel.: ARChway 2662)

Scotland and Northern Counties
WILLIAM BEARDMORE & COMPANY LIMITED
Parkhead Steel Works, Glasgow (Tel.: Bridgeton 1881)



If it's a matter of fastening things
to walls or floors . . . specify
the GKN Indented Foundation Bolt
just you try to shift it!

GUEST KEEN & NETTLEFOLDS (MIDLANDS) LTD., BOLT & NUT DIVISION: ATLAS WORKS, DARLASTON, SOUTH STAFFS. Phone : Darlaston 28
o/ra/s



13 amp socket & plug



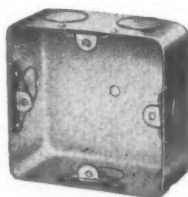
"Rocker" 13 amp switch socket



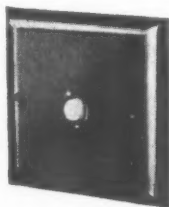
"Fireside" Triple Socket



"Twin Two" Double Socket



Conduit Box with sliding lugs



Bell push



ELECTRICAL ACCESSORIES



for modern housing



Designed to blend with the attractive architecture of modern buildings and to comply with the latest authoritative requirements for post-war housing, New Day accessories combine a discreet styling with exceptional electrical performance and unique labour-saving features which effect considerable saving in the cost of their installation.

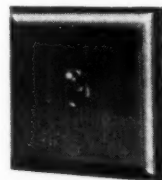
For example the New Day Triple Units only involve the COST, cutting-away and fitting of ONE box instead of the THREE required for separate units.

Samples gladly supplied to Architects for inspection.

NEW DAY ELECTRICAL ACCESSORIES LTD

136-8 MARY STREET, BALSALL HEATH, BIRMINGHAM, 12

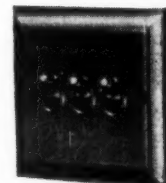
Telephone: Calthorpe 2621



Single Micro-Gap Tumbler Switch



Double Micro-Gap Tumbler Switch



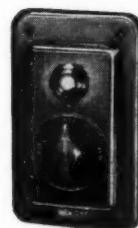
Triple Micro-Gap Tumbler Switch



Architrave Micro-Gap Tumbler Switch



Neon Pilot Control Switch



Neon Pilot Control Switch Flush Mounted

STRUCTURAL



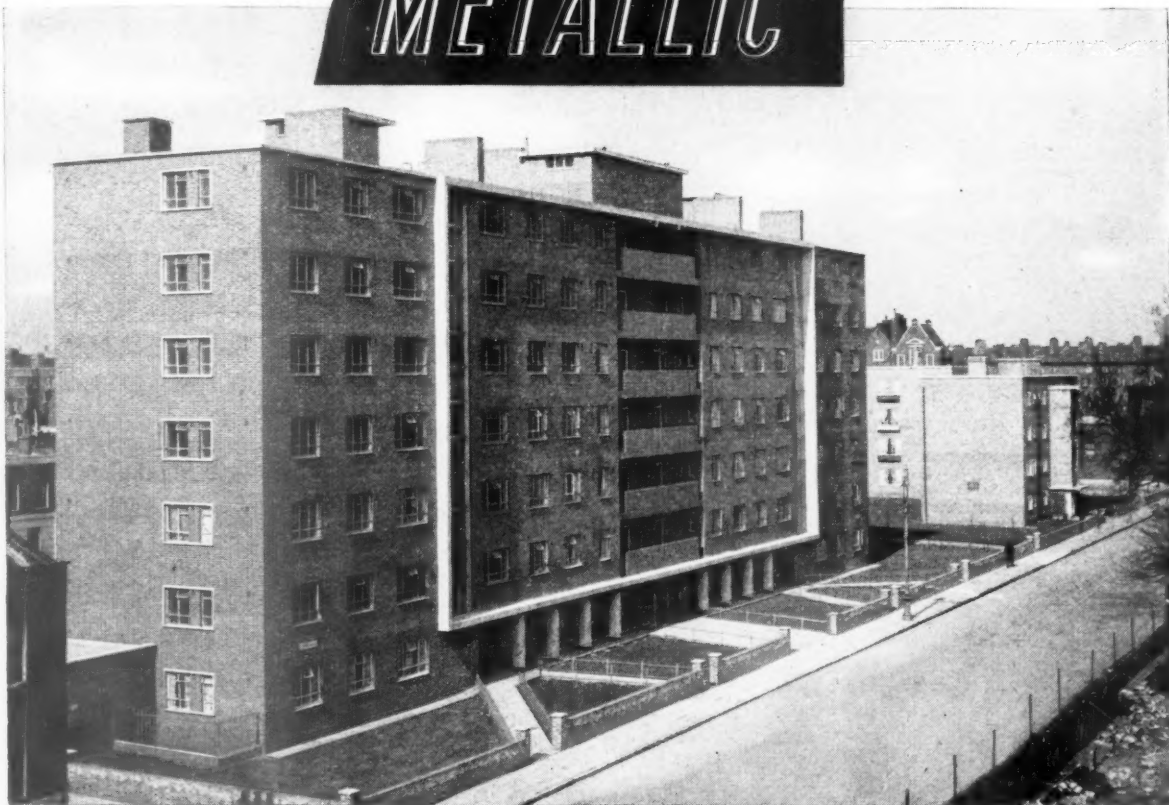
STEELWORK

FOR THE NEW WALSHALL POWER STATION IS BY

HORSELEY BRIDGE AND THOMAS PIGGOTT LTD
HORSELEY WORKS · TIPTON · STAFFS · PHONE 1104 P.B.X.
CARTER-HORSELEY (ENGINEERS) LTD
NEWCASTLE · PHONE JESMOND 1450 · WADDON · PHONE CROYDON 7226
LONDON OFFICES · 9 VICTORIA STREET · WESTMINSTER · PHONE ABBEY 5905

CONDUIT & FITTINGS SUPPLIED BY

METALLIC



Godwin House, St. Marys Estate, Shoreditch.

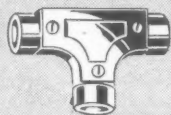
(With acknowledgement to Shoreditch Borough Council and Iverson Electrical Ltd.)



It may be a School, it may be a Factory—a Power Station or a Housing Estate, but more often than not the electrical specification will be—METALLIC.

This new block of flats is no exception, being fitted throughout with METALLIC Conduit and Fittings—unequalled for quality and consistent accuracy.

THE METALLIC SEAMLESS TUBE CO. LTD.
LUDGATE HILL • BIRMINGHAM • 3



ALSO AT LONDON • NEWCASTLE-ON-TYNE • LEEDS • SWANSEA & GLASGOW

Gas Range that's got itself a name for reliable service in thousands of kitchens

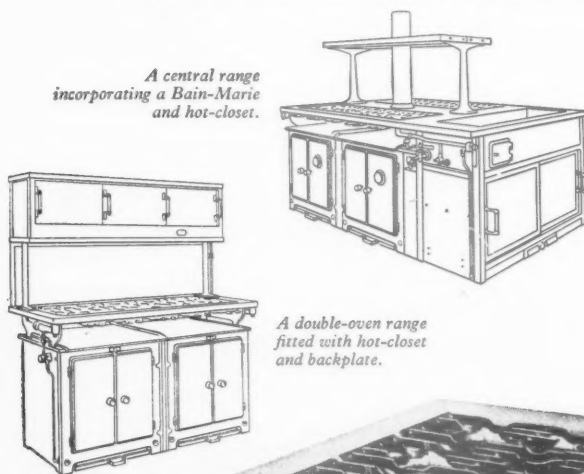
This is the Main "Duke of York" Range . . . a great favourite with chefs and with an established reputation for highly efficient cooking properties and strong durable construction. It is available in various forms to satisfy all requirements. As a "wall" type, it can be had as a single oven, either in a 24" or 35" internal width, surmounted by a hotplate 41" wide. Alternatively, any number of 24" or 35" ovens may be joined together in

battery form, with a continuous hotplate over.

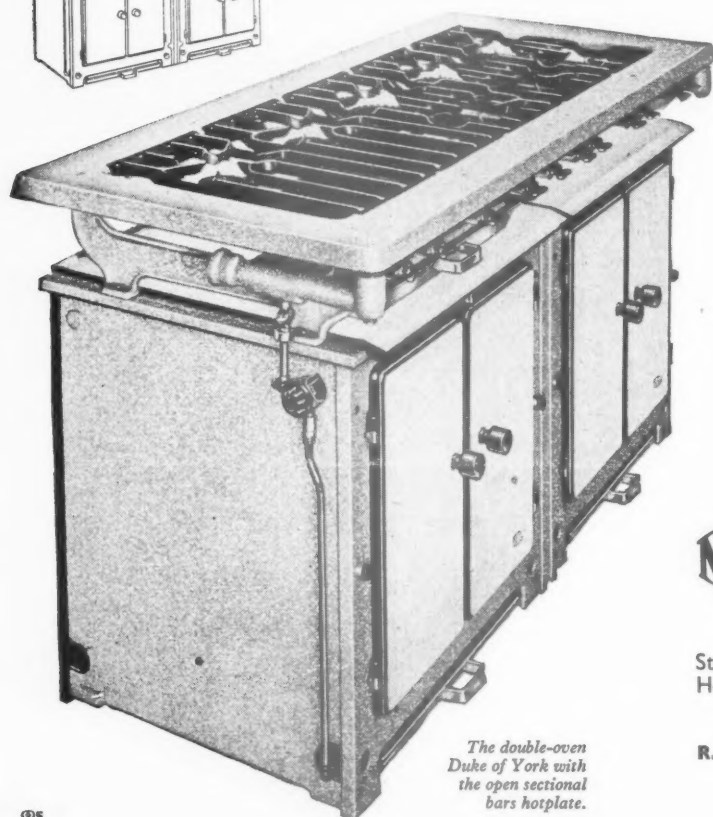
The Duke of York can also be supplied as a "central" range with four, six or more ovens.

Potracks can be fitted on both the wall and central range types and there is a choice of "open" sectional bars or "unit" hotplates.

A central range incorporating a Bain-Marie and hot-closet.



A double-oven range fitted with hot-closet and backplate.



The double-oven Duke of York with the open sectional bars hotplate.

*our
"Planned Kitchencraft"
Department is at
your service*

If you have a catering problem consult R. & A. Main Limited. Our organisation, backed by years of experience in planning and equipping kitchens of all sizes, will gladly work with you in developing your own ideas or submit plans for your kitchen.

 A small illustration of a chef in a tall hat, holding a large flame or torch.

Gas and Steam



**COOKING and
SERVICE
EQUIPMENT**

Steamers
Hot Closets

Boiling Pans
Roasting Ovens

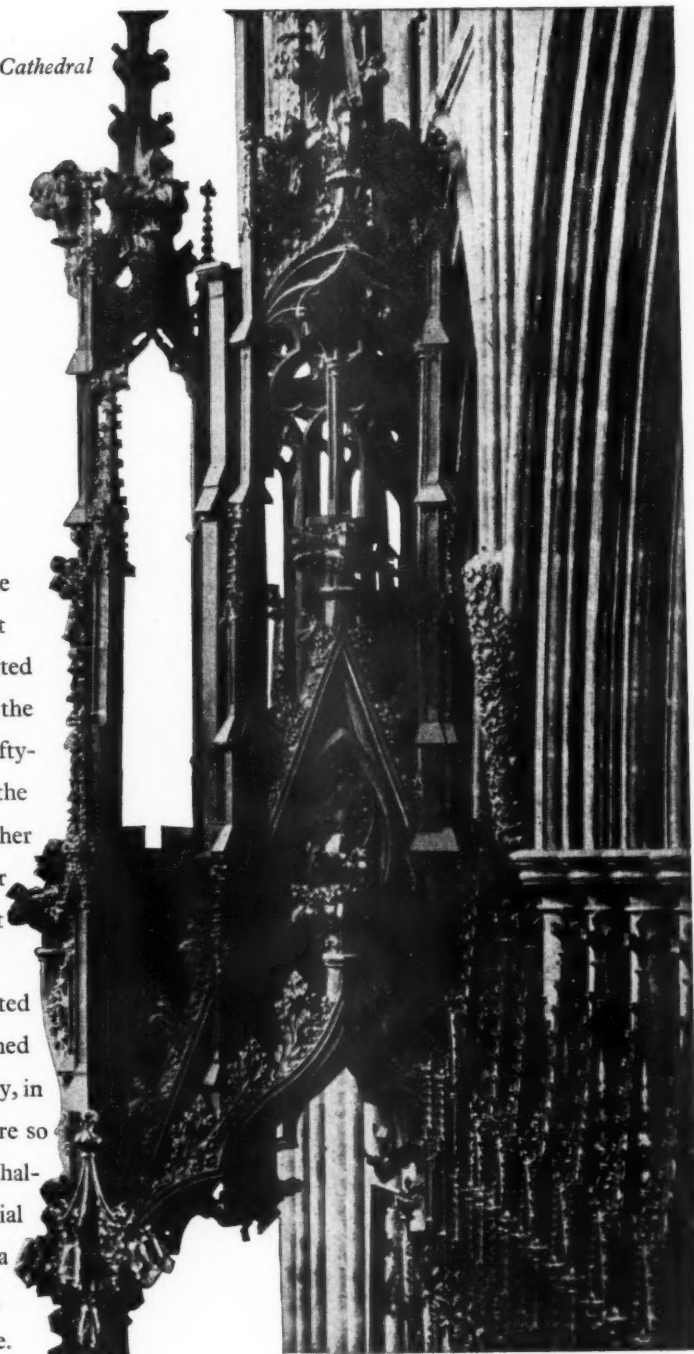
Gas Ranges
Fish Fryers

R. & A. MAIN LTD., LONDON and FALKIRK

Exeter Cathedral

*Timber—
the medium
of all ages*

The Bishop's Throne in Exeter Cathedral, unique amongst ecclesiastical treasures, was constructed in the early 14th century. Although the whole structure of carved oak is fifty-two feet in height to the top of the pyramidal canopy, it is put together without the use of a single nail or other metal fastening. Out of a total cost of twelve guineas for this splendid work of art, the wood accounted for more than half, whilst the unnamed craftsman received four pounds. Today, in a world in which monetary values are so greatly changed, wood remains unchallenged as the only conceivable material for the interior appointments of a great building. In an age of metals, wood is used more than ever before.



Denny Mott & Dickson Limited

ADELAIDE HOUSE, KING WILLIAM STREET, LONDON, E.C.4

Telephone: MANSION HOUSE 7961

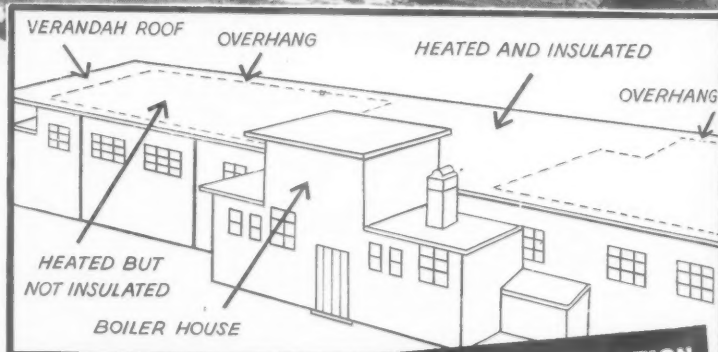
Belfast, Birmingham, Bristol, Cardiff, Glasgow, Hull, Liverpool, Manchester, Newcastle, Preston, Southampton

Visual proof that METCO ROOF INSULATION pays



Dorking Urban District Council.
H. V. Knight Esq., M.I. MUN. E., Engineer & Surveyor.

This photograph shows the roof of the centrally heated Public Library building at Pippbrook, Dorking. The area of unmelted snow corresponds with that section of the roof where "Metco" $\frac{1}{2}$ " 'Veelap' insulating board is fixed on the ceiling. (See explanatory diagram.)



A STRIKING EXAMPLE OF THE EFFICIENCY AND VALUE OF THERMAL INSULATION



"Metco" Fibre building board roof linings minimise heat losses and achieve substantial fuel economies.

WHY NOT TAKE ADVANTAGE OF THE £1,000,000 OFFER FROM THE GOVERNMENT TO **INSULATE YOUR BUILDING?**

* We shall be pleased to advise you on your problems

The MERCHANT TRADING COMPANY Limited.
EFFINGHAM HOUSE, ARUNDEL STREET, STRAND, LONDON, W.C.2
Telegrams: "Themetraco, Estrand, London." Telephone: TEMple Bar 5303 (8 lines)

Craftsmanship



With steel as the fabric for architectural grace, the craftsmanship of those who build in steel comes into its own.

Observe the clean lines of the accurately curved 16" x 8" beams.

Craftsmanship and experience provides the "know-how".

Steel Structure for corner site shops at Kingston-upon-Thames. Designed, fabricated and erected by us for Sterling Estates Ltd., London. Architects: Messrs. Brewer, Smith & Brewer, Richmond, Surrey.

RUBERY OWEN

A name in Structural Steelwork.



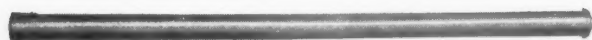
DESIGN
FABRICATION
ERECTION

RUBERY, OWEN & CO., LTD., DARLASTON, SOUTH STAFFS.
LONDON DEPARTMENT: 102-108 CLERKENWELL ROAD, E.C.1.

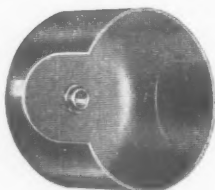
good reasons for using...

Thermotubes

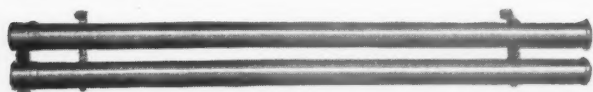
THE ELECTRIC COMFORT HEATING



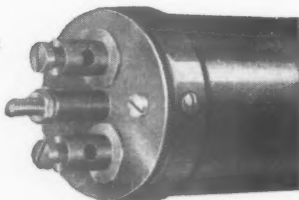
Flexible in arrangement: may be connected in banks of 2, 3 or 4 without changing terminal boxes.



Removable terminal covers with captive fixing screw and knock-out for use with interconnectors.



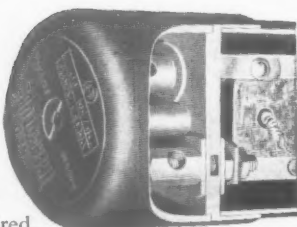
Heavy duty, easily accessible terminal posts.



Easily fixed interconnectors with earth continuity link built in.



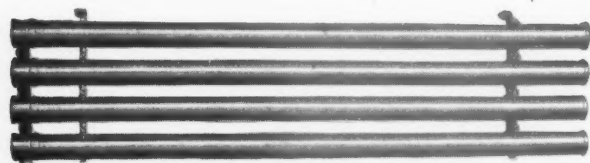
Simple and efficient securing lugs on wall type brackets.



Robust construction — built to last for ever.

Really effective thermostatic control available when required.

Safe! Efficient! Economical!



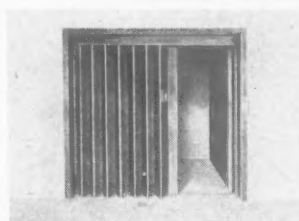
Write for full details to:—

THERMOVENT HEATING, E. K. COLE LTD., 5 VIGO STREET, W. I

E.C.M. LIFTS



ARE RELIABLE



EASY TO MAINTAIN



AND STURDILY BUILT

The foundation of E.C.M. lifts is reliability, ease of maintenance and robust construction, based on 50 years' experience of electric lifts to meet both simple and complex conditions. Our installations are all over the world. Small wonder, therefore, that the name E.C.M. is synonymous with good lifts.



ETCHELLS, CONGDON & MUIR LIMITED

ANCOATS • MANCHESTER • ENGLAND

ECM. 26

S

IR

ND

1. 26

DECORATORS'

Glossex

HARMONOL

SUPERFINE ENAMEL

For interior use

Vuldae

EXTERIOR & INTERIOR ENAMEL

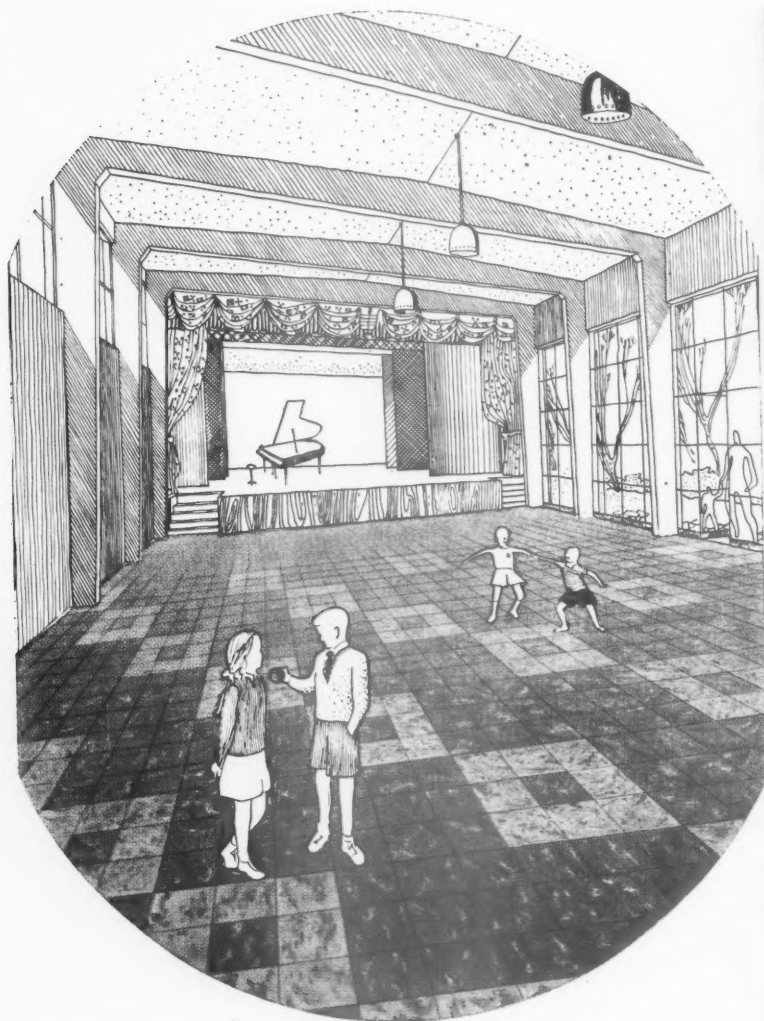
Fluorsurf
FLAT OIL PAINT

Velsurf
THE SCIENTIFIC OIL BOUND WATER PAINT

VULCAN PRODUCTS LIMITED

Specialist Paint Manufacturers

SLOUGH and 24, RYDER ST., ST. JAMES, LONDON, S.W.1. TRAFALGAR 4161 (7 LINES)

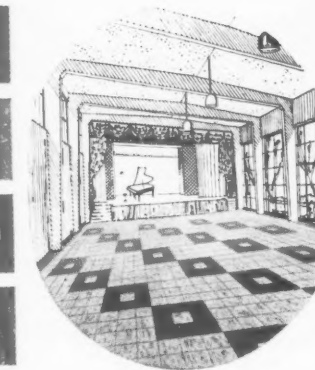
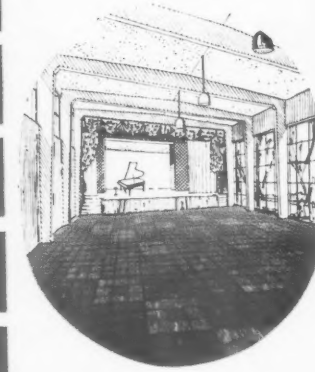
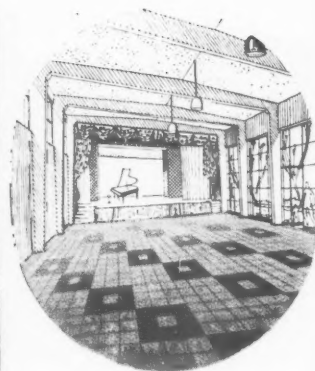


More and more, floor finishes are coming to be looked upon as an integral part of any building structure. One outcome of this is the added importance of the floor from the point of view of interior design, which now takes the floor as a focal point and works upwards and outwards. Semastic Decorative Tiles are well suited to this method of working. Most interior designers find, in fact, that in starting from this point the range of colours in which the tiles are available extends the scope for effective overall treatment. Serviceability, of course, is being demonstrated on a great number and variety of successful installations.

SEMASTIC DECORATIVE TILES

A PRODUCT OF A DUNLOP COMPANY

25E 54



SERVICE THROUGH SKILL

It cannot be sufficiently emphasised that tiles alone do not make a floor, and that even the best material can fail in performance unless it is handled by skilled craftsmen. For this reason the installation of Semastic Decorative Tiles is carried out by the following Approved Contractors who offer a countrywide service of the highest standard available in the industry.

J. A. HEWETSON & CO. LTD.
HOLLIS BROS. LTD.
HORSLEY SMITH & CO. (HAYES) LTD.
PILKINGTON'S ASPHALTE CO. LTD.
THE PENMAENMAWR & TRINIDAD
LAKE ASPHALT CO. LTD.
THE LIMMER & TRINIDAD LAKE
ASPHALT CO. LTD.
SEMTEX LTD.
THE WESTERN TRINIDAD LAKE
ASPHALT CO. LTD.

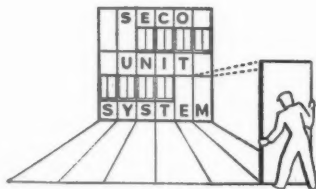




Erith County Grammar School, Belvedere, Kent.

Architect: P. J. B. Harland, F.R.I.B.A.

BUILDINGS WITHOUT STEEL



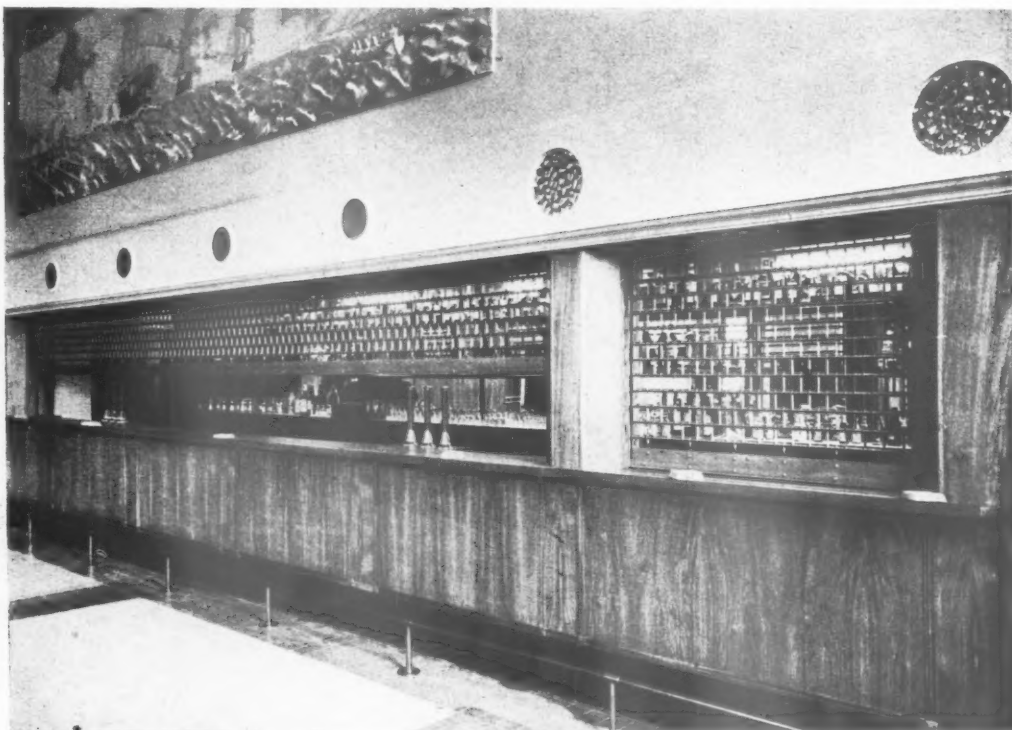
Buildings such as that illustrated can be built without steel, and so can any other SECO buildings designed in the Mark VII (AERO) System. In this system, all structural steel is eliminated by the use of SECO AERO stressed skin plywood beams and columns; planning is flexible within wide limits; construction is dry above foundation level; erection is quick; costs are competitive; all component parts are immediately available. A general appreciation of the system is provided in a booklet, which will be forwarded on request. Please write or ask for "SECO Unit Construction Systems—MARK VII AERO".

UNI-SECO LIMITED

SPECIALISTS IN THE DESIGN, MANUFACTURE
AND ERECTION OF BUILDINGS ON THE
PRINCIPLE OF UNIT CONSTRUCTION
11 UPPER BROOK STREET, LONDON, W.1. Phone MAYfair 9080

KINROD STEEL ROLLING GRILLES

KINROD Trade Mark



Architects: Messrs. Joseph, London.

Contractors: Messrs. Lavender, McMillan Ltd., Worcester Park.

N.A.A.F.I. CLUB, PLYMOUTH: TAVERN.

Bar Counter fitted with 2 Kinrod Rolling Grilles, one 3' 6" high \times 21' 1" wide and the other 3' 6" high \times 4' 0" wide; the larger Grille is operated by means of crank and bevel gear from a point behind the counter, the other being without gearing of any kind.

Among other recent installations of Kinrod Grilles on Canteen Counters and the like we may mention the following:

British Electricity Authority: Rye House Generating Station and
Barking Power Station.
British Railways, Charing Cross Station: Buffet.
Leapark Hotel, Grangemouth.
Macclesfield Arms Hotel, Macclesfield.
North Thames Gas Board, Beckton: Canteen.
Sneyd Arms Hotel, Tunstall.
Wortley Hotel, Scunthorpe.

Sole Manufacturers:
ARTHUR L. GIBSON & CO LTD

Head Office:
Radnor Works - Twickenham.
Telegrams: "Shannies Twickenham"
Telephone: Popesgrove 2276

Branch Offices :- Glasgow 7, Riccartbar Ave., Paisley. Telephone: 5131
Manchester 79, Piccadilly. Central 1008
Birmingham 136, Yarningdale Road Highbury 2804

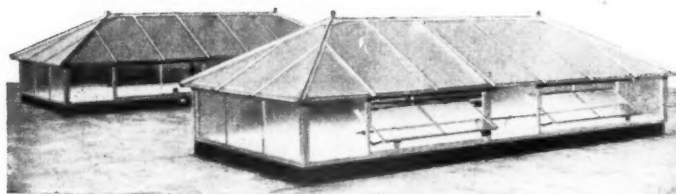


HILLS PATENT ROOF GLAZING

offers the most effective

method of providing

Natural Lighting.



Long stretches of HILLS Patent Roof Glazing, as shown in the photograph, offer the most effective method of providing natural lighting, so essential in promoting good working conditions. Three types of Glazing Bars are available :—(a) Lead clothed Steel Bars which have been tested and proved over many years; (b) Lightweight Aluminium Alloy Bars; and (c) Galvanised Steel Bars—for exceptional economy.

Hills Standard Lantern Lights are designed to allow the

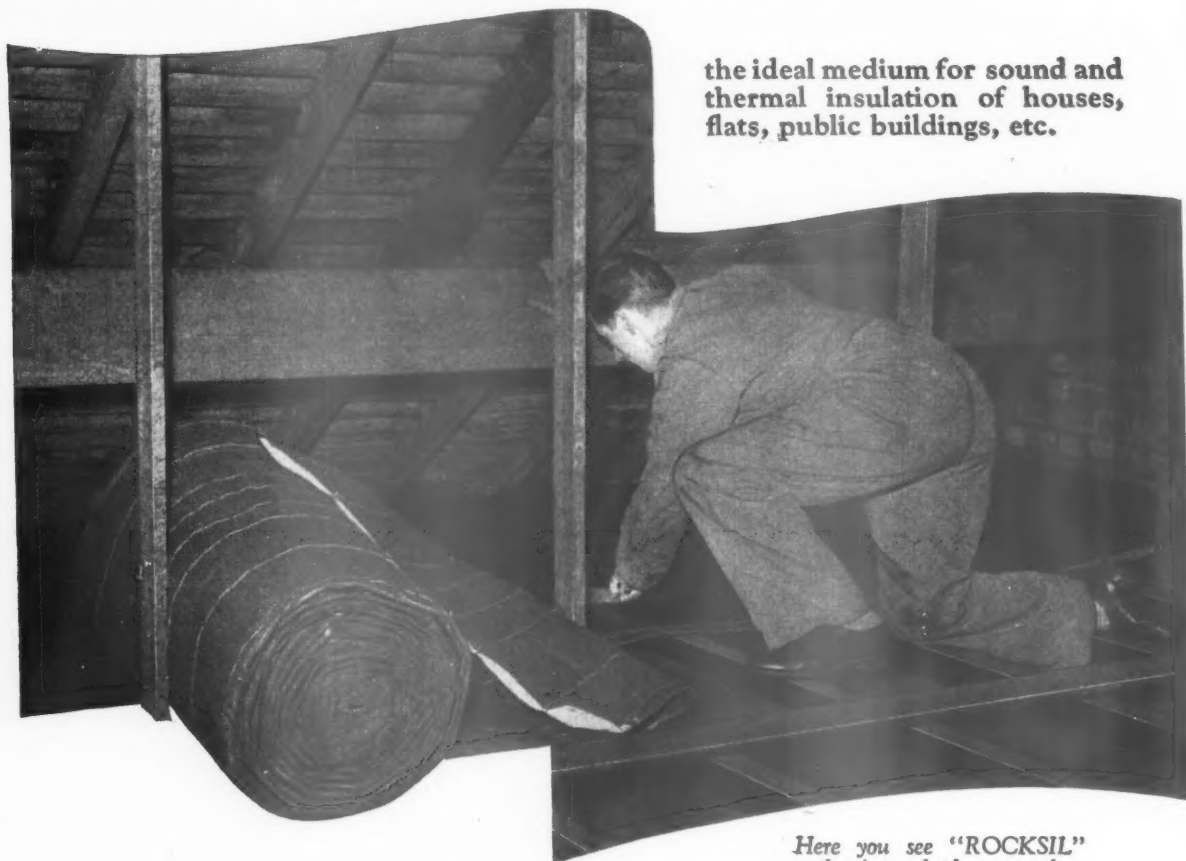
maximum of natural lighting and ventilation without sacrificing the permanent rigidity of the structure. They are available in a wide range of standard sizes and can be made to specific requirements. The range of Hills Patent Glazing includes all types of glazed roofing, Deck Lights, Laylights, and Ventilation together with the necessary operating gear. Detailed information and illustrated leaflets will gladly be sent on request.

The top illustration shows Hills Patent Glazing at the Eastfield Factory of Messrs. F. Perkins, Ltd., Diesel Manufacturers, Peterborough. Efficient ventilation is also provided by the installation of Hills Ventilating Shutters which, at the touch of a button, expel fumes, smoke and hot atmosphere.

HILLS (WEST BROMWICH)
LIMITED

Albion Road, West Bromwich, Staffs. Tel: WEST Bromwich 1025 (7 lines), London: 125 High Holborn, W.C.1. Tel: Holborn 8005/6
Branches at Birmingham, Bristol, Manchester, Newcastle-on-Tyne, Glasgow and Belfast.

"ROCKSIL" insulating quilts



the ideal medium for sound and thermal insulation of houses, flats, public buildings, etc.

Here you see "ROCKSIL" quilts being laid over ceiling joists in the loft of a typical modern house.

"Rocksil" is completely fire-resisting and will withstand temperatures up to 1400°F without sintering or otherwise breaking down.

As a sound insulator "Rocksil" can effect an improvement of impact sound transmission up to 25 phons and for acoustic insulation and modification has an average sound absorption coefficient of 0.95 at normal frequencies. It has the low specific heat of 0.21 B.Th.U./lb./°F., and a "K" value of 0.25 B.Th.U./sq. ft./°F./in. thickness at atmospheric temperatures.

In addition, it is non-hygroscopic, rot-proof, fungus-proof and is completely odourless.

"Rocksil" is supplied for building insulation at the optimum density of 5lb. per cu. ft., and retains its properties indefinitely.

Supplied to following thicknesses: $\frac{3}{4}$ ", 1" and $1\frac{1}{4}$ ".

Write for leaflet KH17.

N.P.L. test data upon request.

WILLIAM KENYON & SONS LIMITED
INSULATION ENGINEERS
DUKINFIELD CHESHIRE

Putty doesn't interest you

and why should it?

Interest should end when glazing is completed, for Sealanco Putty properly applied, will outlast a lifetime. Our products, and we have formulated over 170, are under constant Laboratory test before, during and after manufacture and are in use throughout the world wherever British Goods are accepted.

Our more familiar products include:—

GENUINE RAW LINSEED OIL PUTTY
FOR GLAZING
Wooden Frames

●
'SEALON' METAL CASEMENT PUTTY
FOR GLAZING
Metal Frames

●
'SEMAS' BEDDING MASTIC FOR
Bedding of Frames

●
For 'VITROLITE' Fixing

'SEMANCO' MASTIC FOR FIXING
'VITROLITE'

●
'SEMANCO' SEALER FOR
Sealing sub-structures

'SEMANCO' POINTING COMPOUND IN
ALL COLOURS FOR
Pointing 'VITROLITE'

'SEMANCO' NON-HARDENING
COMPOUND FOR CLEARANCE JOINTS
OF
Glass Block Installations

●
"SEMANCO" ASBESTOS JOINTING
COMPOUND FOR
Asbestos Rainwater Goods

●
RED LEAD AND WHITE LEAD PUTTIES
FOR
Plumbing

●
'AQUATROP' AQUARIUM CEMENT FOR
GLAZING
Aquaria

●
Leaflets on the Fixing of 'VITROLITE' and
Glazing of Metal Window Frames Available
on request

SEALANCO (ST. HELENS) LTD.
ST. HELENS · LANCASHIRE · ENGLAND

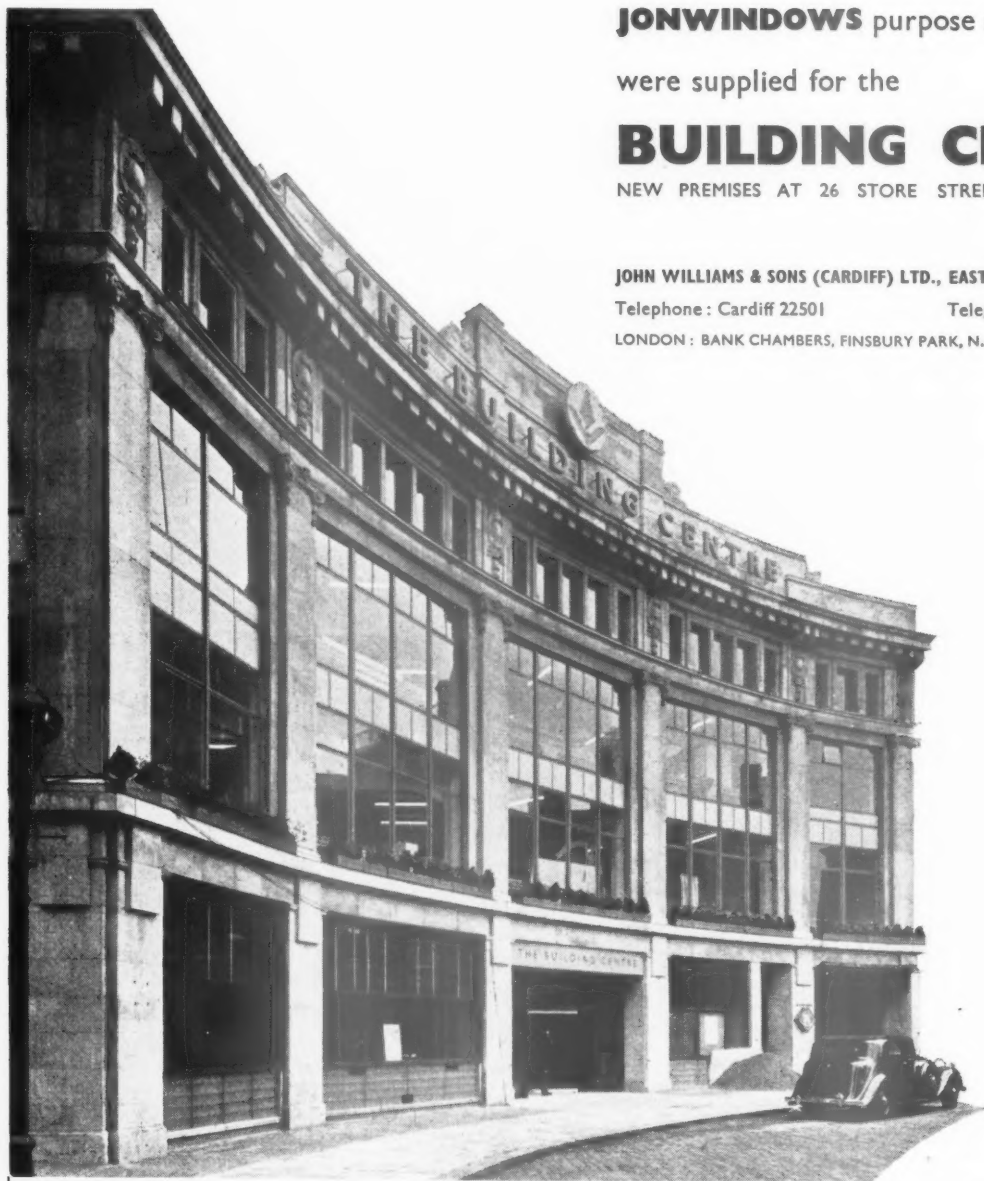
TELEPHONE: ST. HELENS



2432 and 7782



'VITROLITE' IS THE REGISTERED TRADE MARK OF PILKINGTON BROS LTD.



JONWINDOWS purpose made windows
were supplied for the

BUILDING CENTRE

NEW PREMISES AT 26 STORE STREET, LONDON, W.1.

JOHN WILLIAMS & SONS (CARDIFF) LTD., EAST MOORS RD., CARDIFF.

Telephone: Cardiff 22501

Telegrams: Metal, Cardiff.

LONDON: BANK CHAMBERS, FINSBURY PARK, N.4. Tel.: ARCHWAY 2294



JONWINDOWS

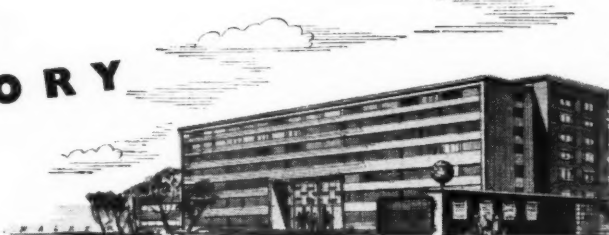
PROTECTED BY HOT DIP GALVANIZING



PLIMBERITE

WOOD CHIPBOARD

IN OFFICE
AND FACTORY



cuts costs of conversions

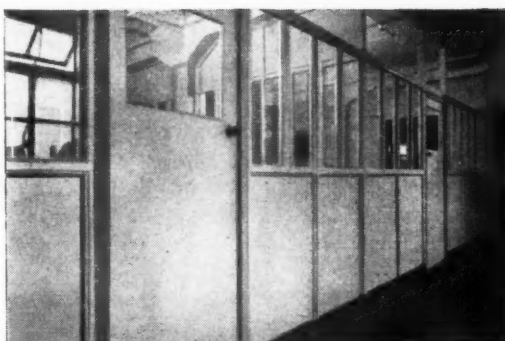
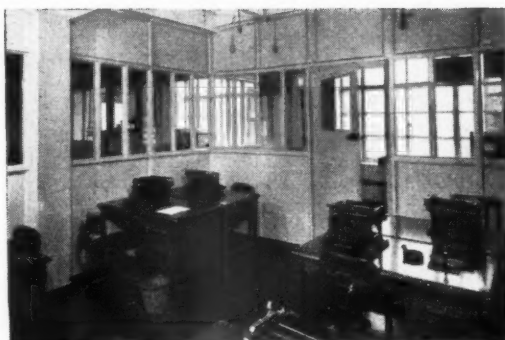
Speed up your conversion work with Plimberite and cut partitioning costs. A sheet (8 ft. x 4 ft. in thicknesses of $\frac{1}{2}$ " and $\frac{3}{8}$ ") of this versatile resin-bonded wood chipboard cuts readily to fit any angle, thus saving you time, trouble and money. Manufactured under heat and pressure to a density of 50 lbs/ cu. ft., Plimberite is rigid, flameproof, with good sound and thermal insulating qualities. Moisture movement and load tests, carried out on Plimberite by the Department of Scientific and Industrial Research prove its stability and strength. The surface of Plimberite, so ideal for painting, is also suited, because of its pleasing appearance, to staining, waxing and varnishing. To ensure best decorative results, ask for specifications of various finishes. Complete technical data on Plimberite is available from the manufacturers.

PRICES (ex works) 10 boards and over

$\frac{1}{2}$ " — 1/1½ per sq. ft.

$\frac{3}{8}$ " — 1/6 per sq. ft.

Lower prices for large quantities.



Offices constructed with $\frac{1}{2}$ -in. PLIMBERITE and timber framing, by Messrs. Batger & Co., Confectionery Manufacturers, London, E.1.

BRITISH PLIMBER LIMITED

20 Albert Embankment • London • S.E.11 • Reliance 4242



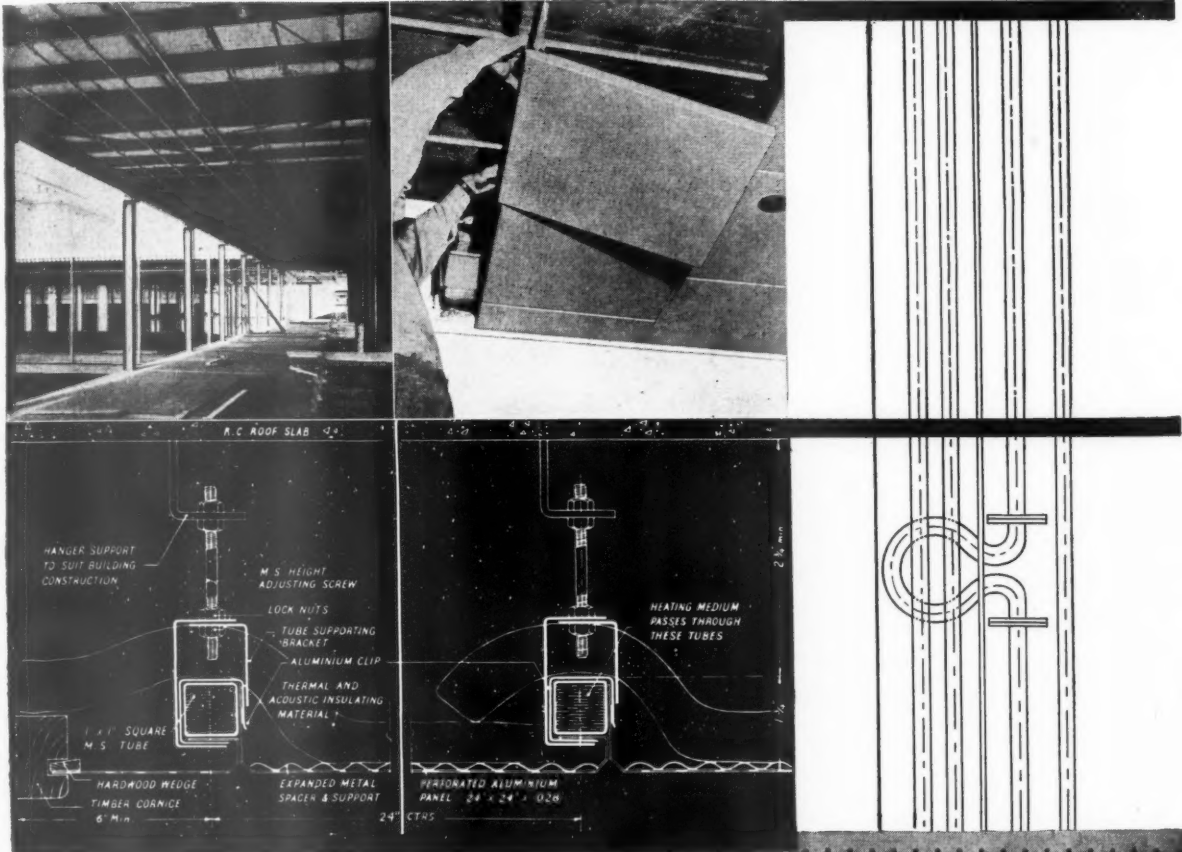


BOVIS LTD.

The red letters on the white Bovis board, seen on building sites throughout the United Kingdom, bear witness to the success of a system of building contract which is different.

In these days of uncertainty more and more Building Owners and their professional advisers turn to a method which assures control of speed and cost from start to finish.

STANHOPE GATE, LONDON, W.1



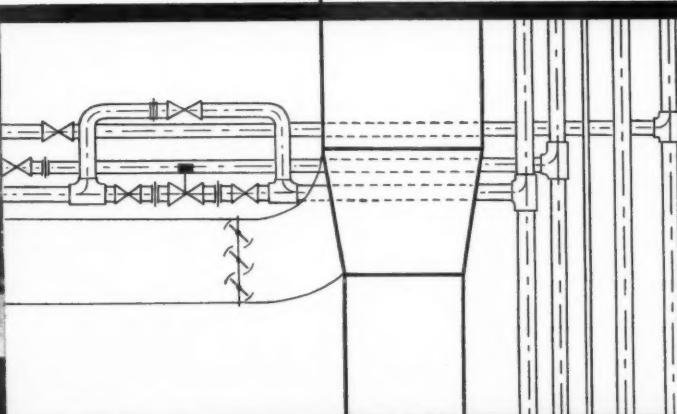
FRENGER—three ceilings in one

Here is a ceiling, that is *first*: a radiant panel heating unit with an immediate response to changes in temperature; *second*: a most efficient sound absorbing surface; and *third*: a suspended, removable ceiling that serves to conceal a mass of ugly pipes, wiring, ducts and other services while leaving them completely accessible.

The ceiling is pre-fabricated and made up of a grid piping system supporting perforated, square, metal panels of aluminium and blanketed by insulating material. A Frenger can be installed in existing buildings with very little structural alteration and is easily adapted to fit any shape of room or lighting and ventilation system.

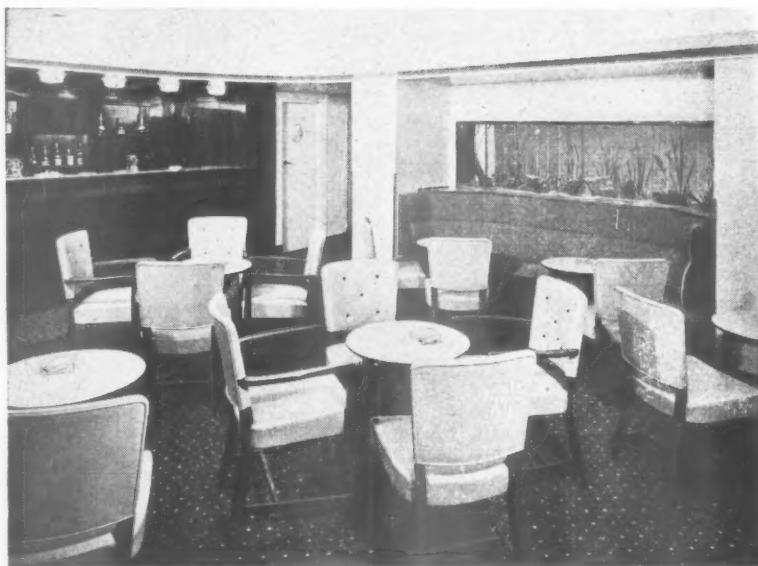
Technical leaflet with full data from:—

FRENGER CEILINGS LTD., 29, WOBURN PLACE, LONDON W.C.1. TERMINUS 9350



Furniture for Special Needs

Heal's have wide experience in the specialised furnishing of hotels, ships, restaurants and offices, etc. We can supply individual pieces of furniture or carry out entire decoration schemes. In either case, we will be glad to place the services of our designers at your disposal and will interpret your ideas with complete understanding.



The New American Bar, The Dorchester, London, W.1. Architects: Messrs. J. Stanley Beard, Bennett & Wilkins. The seating, tables and chairs were recently supplied by Heal's Contracts Ltd. to the architects' designs. The chairs are of French walnut, covered in blue-grey hide. The tables, also of walnut, have stain-resisting tops. A dark red carpet with green and off-white spot design completes the scheme.

HEAL'S CONTRACTS LTD

196 TOTTENHAM COURT ROAD, LONDON, W.1. TELEPHONE: MUSEUM 1666

Established In 1873

THE TRIPLE SERVICE FOR
ARCHITECTS & BUILDERS

Telephone: RENown 1321

NEUCHATEL

THE NEUCHATEL ASPHALTE CO. LTD.
58, Victoria Street, London, S.W.1

BRANCHES

Glasgow, Edinburgh, Newcastle Manchester, Frome,
Birmingham, Cardiff, Plymouth, Portsmouth, Belfast

3

ASPHALTE

TANKING FLOORING ROOFING

NACOFELT

BUILT-UP BITUMINOUS ROOFING

ACCOTILE

DECORATIVE FLOORING TILES

Put

COLT

in at the

planning stage

Part of an installation of thermostatically controlled extract ventilators, Type P.R.T., in glazing used in conjunction with a plenum system at Ericsson Telephones Ltd., Beeston, Nottingham.



SEE COLT ABOUT VENTILATION—WHATEVER YOU DO

Very many years of experience of all types of ventilation problems enables us to bring a supremely practical approach to the science of air induction and extraction. Colt units or complete systems can be installed in existing buildings or, even better, incorporated in building plans. The result is the same—effective and economical ventilation. So even if your project is still at the drawing board stage, now is the time to consult Colt about its ventilation.

A FREE MANUAL
with full specifications of
the types of standard Colt
Ventilators is available on
request from Dept. A.10/168

COLT VENTILATION

Chosen by over 4,000 firms

COLT VENTILATION LTD., SURBITON, SURREY.

ELMbridge 6511-5

Also at Birmingham, Bradford, Bristol, Cowbridge (Glam.), Edinburgh, Liverpool, Manchester, Newcastle-on-Tyne, Sheffield and Warwick.

A.10

INS AND OUTS! (No 2)



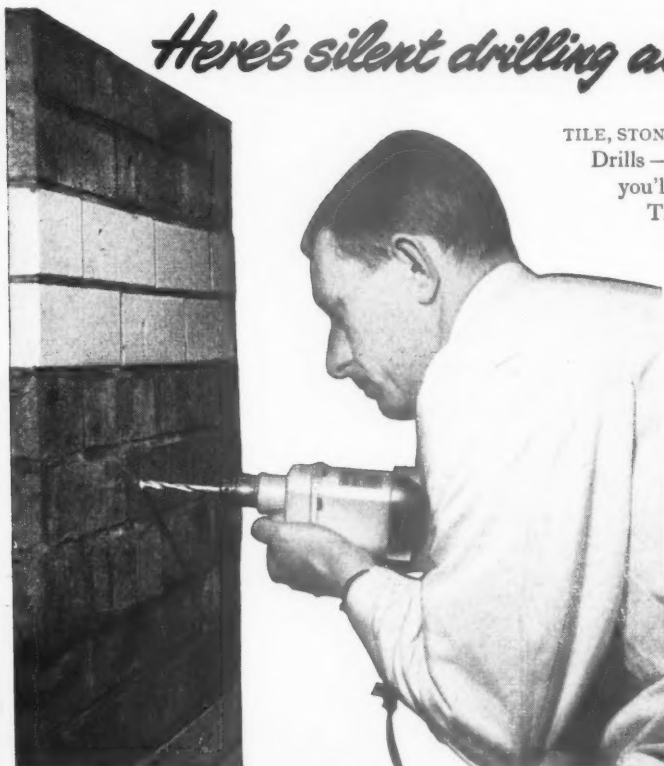
The choice of Esavian doors for the 'Ins' and 'Outs' of Bristol's new Speedwell Road Fire Station is not surprising, since knowing the ins and outs of specialised door construction is the *raison d'être* of the Esavian organisation. Esavian quick-opening fire-station doors play an effective part in an efficient organisation. The doors can be remotely operated from the appliance if desired or electrically from the control room.

J. Nelson Meredith, F.R.I.B.A.,
City Architect, Bristol.

THE **ESAVIAN** PRINCIPLE
FOR DOORS, WINDOWS, PARTITIONS & FOLDING SCREENS

Esavian House, 181 High Holborn, London, W.C.1. Tel: HOL 9116. Esavian Works, Stevenage, Herts. Tel: Stevenage 500. 101 Wellington St., Glasgow, C.2. Tel: CEN 2369

Here's silent drilling at phenomenal speeds!



TILE, STONE, CAVITY BRICK—it's all one with Durium-tipped Drills—sharp, accurate holes, *without noise*, at speeds you'll hardly believe till you try these astonishing tools!

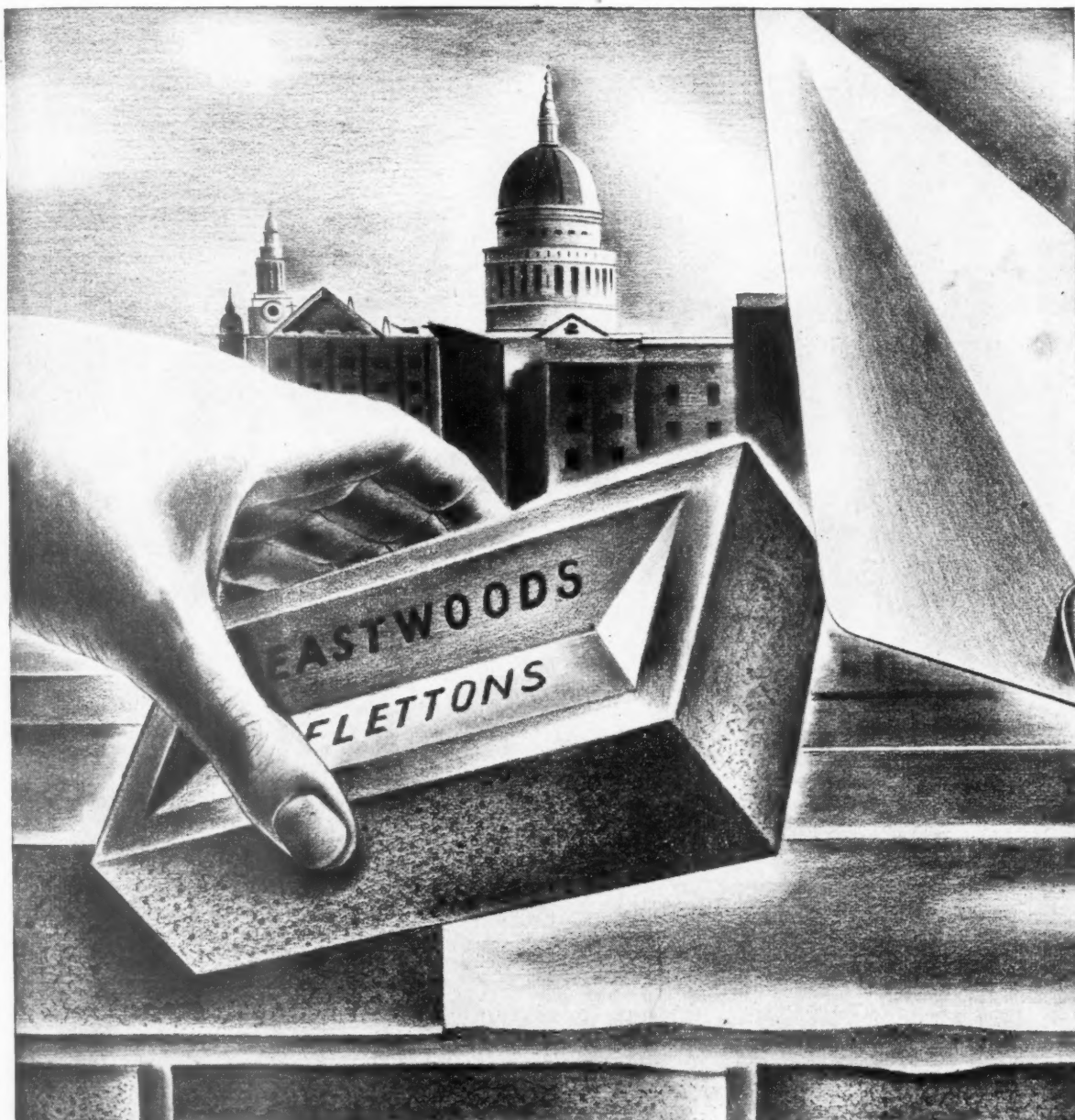
These fastest-of-all masonry cutters are tipped with Durium, a new carbide combining complete tungsten-carbide hardness with exceptional toughness. *Look for the name 'Durium' on the shank*—no other is a genuine Durium Drill. Use Durium-tipped Drills in either hand or power drills,—there's a complete range of sizes and lengths for every need, including drilling through walls. These remarkable tools save time and money—write for details today.

RAWLPLUG
DURIUM
REGD.
TIPPED DRILLS
FOR MASONRY AND ALL TILES

Durium-tipped
-that's the point!



THE RAWLPLUG COMPANY LIMITED • CROMWELL ROAD • LONDON • S W 7



Fletton Bricks derive their name from the village of Fletton, near Peterborough, where the Lower Oxford Clay or "Knotts" was first discovered, and used by Eastwoods over one hundred years ago. Today, we operate three large works on this same deposit in Northamptonshire and Bedfordshire, producing

large quantities of Facing and Common Bricks. Sandfaced Multicoloured Facing Bricks withstand a high crushing strain and provide a wide colour variation; in particular, the new Brown Grey Multicoloured Sandfaced Facings have a great appeal to Architects all over the country.

EASTWOODS

FOR ALL RELIABLE BUILDING MATERIALS

**COMMON BRICKS - BROWN GREY - MEDIUM AND DARK SANDFACED
MULTICOLOURED FACINGS - RUSTICS - SPECIALS**

EASTWOODS SALES LTD., EASTWOOD HOUSE, CITY RD., LONDON, E.C.1.

TELEPHONE: CLERKENWELL 4333



Hardwood and plywood are already free from licence, and when the present rigid control is lifted you can have softwood ground floors too!

Does all this matter? Yes, certainly—because the great majority of people really *want* wood floors. We are all irritated when we are compelled, as we are now, to put up with the second best, with less friendly and often wasteful substitutes.

Wood floors are kinder to the feet, and as all housewives know, so much warmer too in winter. They are pleasing to the eye and *they last a lifetime*. In fact they are part of the British way of building. There's no shortage of supplies.

There's nothing like **WOOD**

ISSUED BY THE TIMBER DEVELOPMENT ASSOCIATION
21 COLLEGE HILL · LONDON · EC4
AND BRANCHES THROUGHOUT THE COUNTRY



Painting Asbestos Cement ?

... it will be a wise plan to order Tretolin Paint for your next job. Both time and costs can be cut, because Tretolin is applied direct—no sealers or neutralisers are needed. The alkaline activity in new asbestos cement surfaces has no effect on Tretolin's tough, chemical-resistant coating. No matter how dire the weather and other conditions, Tretolin will continue to look attractive long after ordinary paints have flaked and faded away.

- ▶ Waterproof, Acid and Alkali Resistant
 - ▶ for Asbestos Cement, Concrete, Brickwork and Building Boards
 - ▶ In 18 attractive colours, also 6 special Roofing Shades for One-Coat Painting
- Please write for descriptive leaflet, A(13)



View of a pumping station in Hertfordshire, where Tretolin was used on the Engine House, Workshop and several other ancillary buildings

Wise painters use

TRETOLIN PAINT

TRETOL LTD., 12-14 NORTH END RD., LONDON, N.W.11
Telephone: SPeedwell 4621 (5 lines)

When planning your
factory floors
specify .

Stelcon....

STEEL CLAD FLAGS

or

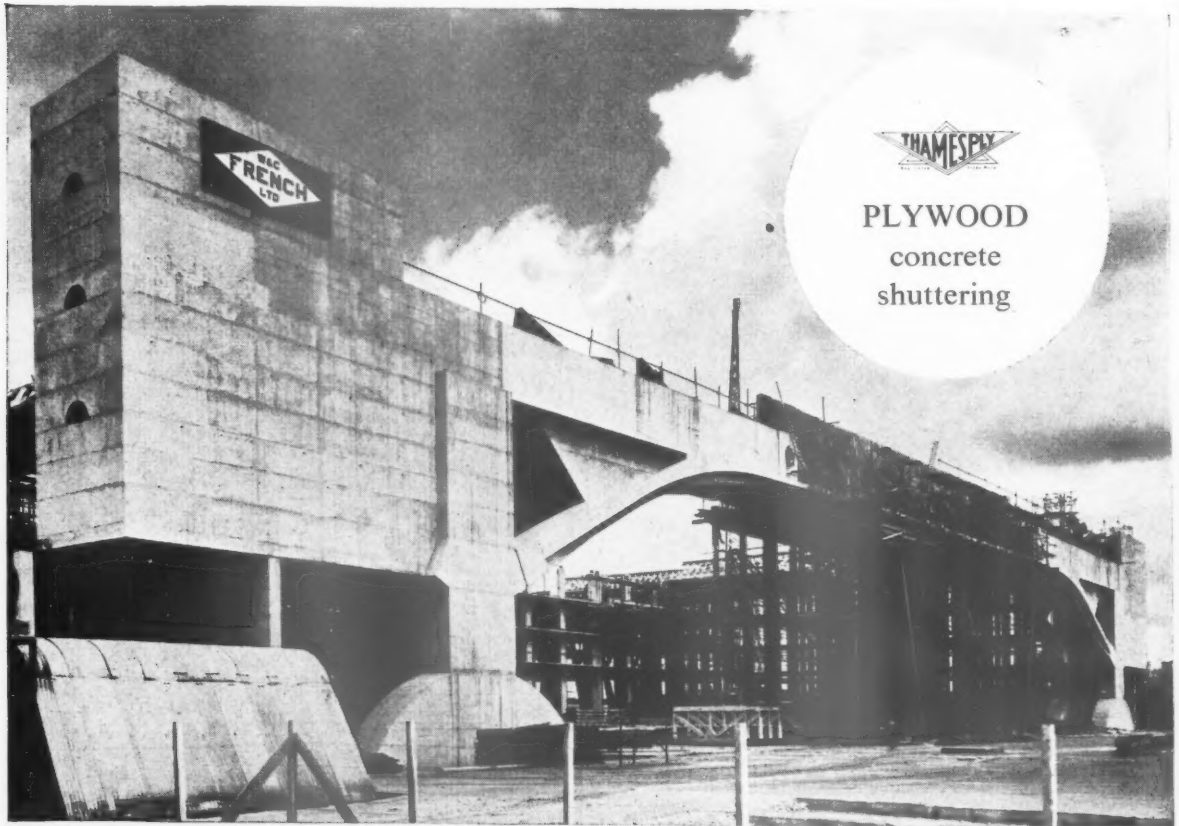
ANCHOR STEEL PLATES

.... for dustless, hygienic steel
and concrete surfaces able to
withstand the toughest of conditions



STELCON units are approx. 12" x 12"
and therefore excellent for repair work as
well as new work.
Your enquiries will be appreciated.

STELCON (INDUSTRIAL FLOORS) LTD • CLIFFORDS INN
LONDON, E.C.4 Telephone: HOLborn 2916



for the new **B·O·A·C** central maintenance building

at London Airport — as on so many other well known sites — the choice for Concrete Shuttering was “Thamesply” Exterior Grade AX.100 test (Phenol bonded) Plywood. “Thamesply” with its particularly fine finish meets all requirements for exterior Plywood which will not delaminate, has a low deflection, and is labour and time saving.



CONCRETE SHUTTERING

(Phenol Bonded AX.100 Test)

Supplied only through the usual trade channels

THAMES PLYWOOD MANUFACTURERS LIMITED

Harts Lane, Barking, Essex. Telephone: Rippleway 5511



(Reproduction by courtesy of Messrs. W. & C. French Ltd., Contractors.)

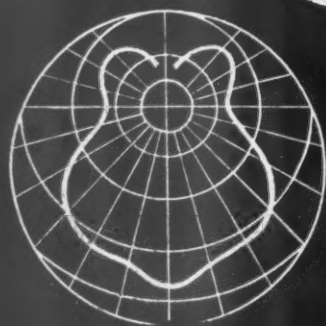
T.A. 4686

the Latest Development in....

HOLOPHANE LIGHTING

'LUMILUX'
REGD.

ENTIRELY
TRANSLUCENT



The new LUMILUX system uses a complete glass enclosure internally supported and closely fitted to exclude dust.

The pattern of prisms gives an interesting sparkle without glare and sends the light in the right direction.

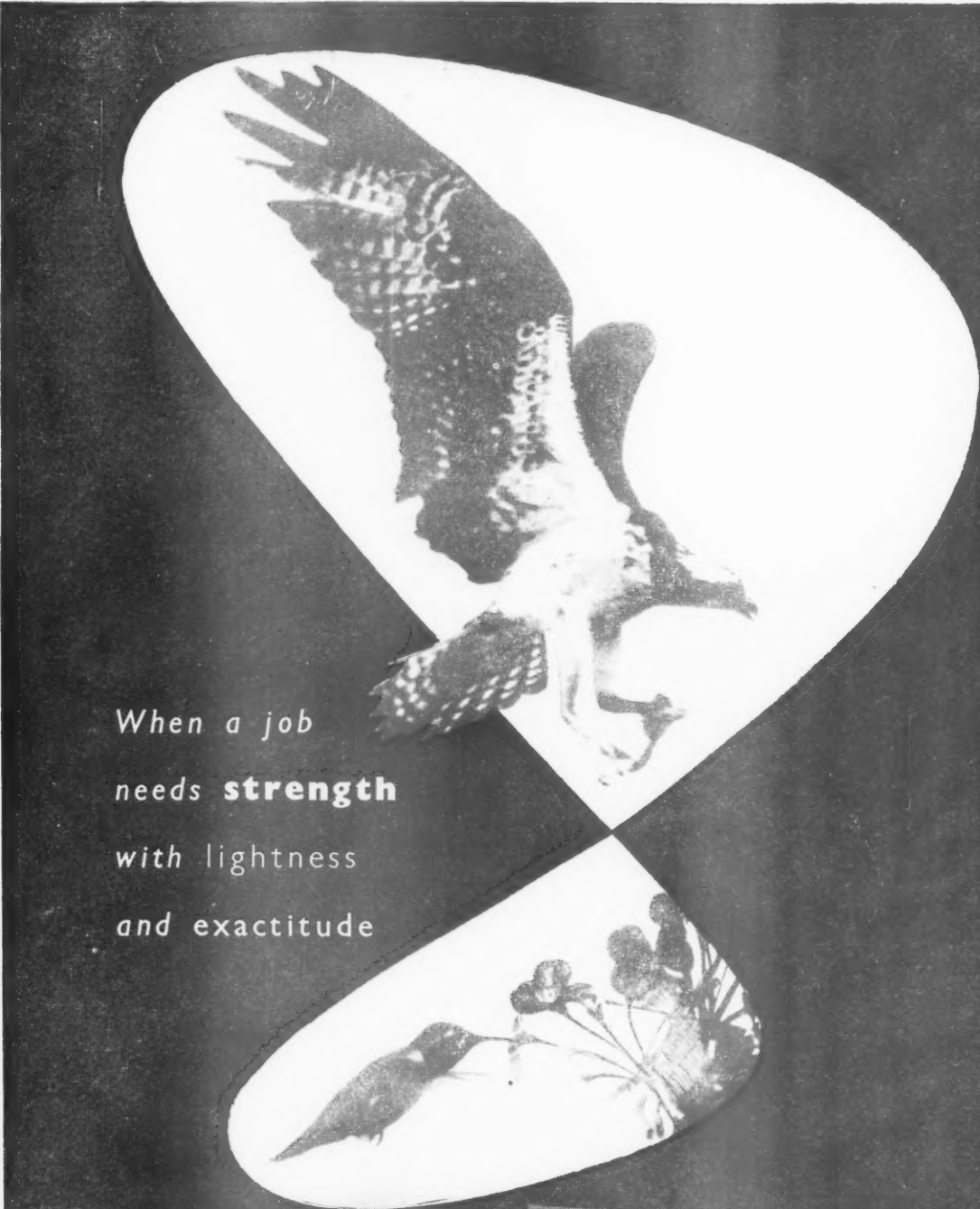
HOLOPHANE LIMITED

SCIENTIFIC ILLUMINATING ENGINEERS

ELVERTON STREET, VINCENT SQUARE, LONDON, S.W.1.

'Grams: Holophane, Sowest, London.

'Phone: VICtoria 8062



When a job
needs **strength**
with lightness
and exactitude

PUT Aluminium FIRST
AND TI IN FRONT OF IT



THE A

No. 3012



THE AR

For A
highlight
new pla
called A
architec
RIBA-t
the m
trated,"
correspo
Profess
have n
by play
ously g
and au
profess
matrim
Day)
Third



THE ARCHITECTS' JOURNAL

EDITORIAL BOARD: (1) *Consulting Editor*, F. R. Yerbury, O.B.E., Hon. A.R.I.B.A. (2) *Town Planning Editor*, Dr. Thomas Sharp, L.R.I.B.A., P.P.T.P.I. (3) *House Editor*, J. M. Richards, A.R.I.B.A. (4) *Technical Editor*, R. Fitzmaurice, B.Sc., M.I.C.E., Hon. A.R.I.B.A. (5) *Editor Information Sheets*, Cotterell Butler, A.R.I.B.A. (6) *Editorial Director*, H. de C. Hastings.

GUEST EDITORS: (7) Robert Gardner-Medwin, F.R.I.B.A., M.T.P.I.; Donald Gibson, C.B.E., M.A., A.R.I.B.A., M.T.P.I.; S. A. W. Johnson-Marshall, A.R.I.B.A.; Robert H. Matthew, C.B.E., A.R.I.B.A.

SPECIALIST EDITORS*: (8) Planning (9) Practice (10) Surveying and Specification (11) Materials (12) General Construction (13) Structural Engineering (14) Sound Insulation and Acoustics (15) Heating and Ventilation (16) Lighting (17) Sanitation (18) Legal.

ASSISTANT EDITORS: (19) *Chief Assistant Editor*, D. A. C. A. Boyne, (20) *Assistant Editor*, K. J. Robinson, (21) *Assistant Editor* (Buildings), L. F. R. Jones, (22) *Assistant Editor* (Information Sheets), H. N. Hoskings, A.R.I.B.A., (23) *Assistant Technical Editor*, M. Jay, (24) *Photographic Department*, E. R. H. Read, H. de Burgh Galwey, (25) *Editorial Secretary*, Monica Craig.

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

9, 11 & 13, Queen Anne's Gate, Westminster, London, S.W.1 Whitehall 0611

No. 3012 November 20, 1952 VOL 116

Subscription rates: by post in the U.K. or abroad, £2 10s. 0d. per annum. Single copies, 1s.; post free, 1s. 3d. Special numbers are included in Subscriptions; single copies, 2s.; post free, 2s. 3d. Back numbers more than 12 months old (when available), double price. Half-yearly volumes can be bound complete with index in cloth cases for 25s. 0d.; carriage, 1s. extra.



THE ARCHITECT IN FICTION . . .

For ASTRAGAL there has been one highlight during the past week—a new play by Michael Clayton Hutton called *Dead Secret*. This is drama for architectural students of all ages; a RIBA-tickler; a work that will elevate the minds of “Worried,” “Frustrated,” and other contributors to our correspondence on The Overcrowded Profession. The architect, as you may have noticed, has lately been treated by playwrights with the respect previously given only to barristers, doctors, and authors. But although, like other professional men, he has been allowed matrimonial difficulties (*Red Letter Day*) and “adult” problems (*The Third Person*) on the stage, he has

rarely shown himself to be a Man of Taste, and only on one occasion has he got down to a drawing-board (*The Happy Marriage*). How much better it is, then, for the dignity of the profession, that the architect, if featured in a play, should be an off-stage corpse, as in *Dead Secret*. After all, the dead architect cannot be blamed for those ghastly green chair covers, or for placing the grand piano at a point where the staircase, the front door and the kitchen door deposit a whistling draught.

While we are on the subject of the architect in literature, did you notice that an architect was recently added to the list of those hag-ridden men who become murderers on the daily crime page of a certain evening paper. “It was on the third Tuesday after Michaelmas that John Smith, architect, decided that his wife, Mabel, must die . . .” Did he kill her with a blunt drawing-board instrument or shut her up in a cavity wall? He did not. His profession had nothing to do with the story. Which just shows—doesn’t it?—that we are becoming a household word; that the public doesn’t have to be told what an architect is.

. . . AND IN NON-FICTION

Unfortunately there are writers who cannot be prevented from misrepresenting us to the public—or should I say to the enlightened layman? Such writers castigate modern architects for holding views they never have held, and setting up the Aunt Sally of literal functionalism for the pleasure of knocking it down again. The classical example of this was, of course, Sir Reginald Blomfield’s book *Modernis-*

mus. His attacks on modern architecture were the natural protest of an eminent man who had survived into a world that was calling in question many of the values on which his authority had rested.

Modernismus was published as long ago as 1934. But its ideas have not died. You will find the same line taken in Reginald Turnor’s book *The Smaller English House*,* which has just been published. This ends with a chapter called “The Modern Movement,” an utterly garbled account of what modern architecture is after, bringing up all the old misinterpretations of functionalism, and of Le Corbusier’s “machine à habiter.” It is somewhat absurd for a book on modern architecture to contain no description or picture of a building designed since 1939. The last chapter of this lavishly illustrated book contains photos of some early Connell, Ward and Lucas houses and one or two of houses by Tecton, Yorke and Burnet, Tait and Lorne. The final illustration is the Gropius and Fry house in Chelsea (1936). There is no hint of further development. Nor is there a suggestion that these buildings do not speak for everything modern architecture stands for. There is only a declaration that the trend the author sees in them ought to be reversed.

The rest of the book is better informed. In fact, it is quite a useful summary of the changes small house design has undergone since medieval times, illustrated with many familiar photographs. Incidentally, you may be surprised to find that “smaller”

* Batsford, 42s.



ONE-PIECE CONSTRUCTION SAVES TIME—
NO LOOSE PIECES
NO CUTTING
OR FITTING

HOPE'S STEEL DOOR FRAMES

are now available for
QUICK DELIVERY

HENRY HOPE & SONS LTD., BIRMINGHAM & 17 BERNERS ST., LONDON, W. 1.

houses
Burford
Oxon.,
Walter
and PL

THE L
No d
to the
activiti
ference
ing titl
sham,
zation
tive te
of mo
was d
vice."
counci
approv
Londo
gested
be ma
tender
approv

If th
genera
ties w
to an
have
form.
adopt
deadlo
minist
sign t
sider
ence
activi
declan

Mr. J
the w
revisio
that i
the c
quant
that
Certa
consid
tect a
ring,
sort o
good,
buildi

GREY
Prize
sions:
watch
prope
ASTR
of su

houses include Stanton Court, Glos., Burford Priory, Cornbury House, Oxon., Chicheley House, Bucks., Sir Walter Scott's Abbotsford, Sezincote and Philip Webb's "Clouds."

THE LONDON BUILDERS' CONFERENCE

No doubt you read Mr. Eccles' reply to the question in the House about the activities of the London Builders' Conference, behind whose "innocent sounding title," according to P. Wells (Faversham, Lab.), "there existed an organization which made a farce of competitive tendering and extracted large sums of money from those for whom work was done without performing any service." Even before the war the RIBA council said it was "unable to register approval of the operations" (of the London Builders' Conference) and suggested that a form of declaration should be made out by anyone submitting a tender. (The Council reaffirmed its disapproval last year.)

*

If this form of declaration had been generally used, the Conference's activities would long ago have been brought to an end. But few architects seem to have used the suggested declaration form. Now that the MOW has adopted the use of a declaration, a deadlock seems to have arisen. The ministry says, in effect, "if you don't sign the declaration, we shan't consider your tender," while the Conference says "we shan't suspend our activities unless you stop using the declaration."

*

Mr. Eccles may be right in saying that the whole system of tendering needs revision; he said, if you remember, that improvements should be made in the combined operation of architect, quantity surveyor and contractor, and that the RIBA should lead the way. Certainly, the attitude of mind that considers the contractor and the architect as being in opposite corners of the ring, with the quantity surveyor as a sort of referee, is not the way to get good, efficient and economical buildings.

GREY WORNUM AT THE RIBA

Prize days are always pleasant occasions; after all, what could be nicer to watch than virtue and accomplishment properly rewarded? But though ASTRAGAL has sat through a number of such agreeable events in his time



Not an inkstand but a salt and pepper pot whose function is expressed in lettering on its side rather than in its design. This is one of 182 designs for Coronation souvenirs approved by the COID and on view to the buyers, education authorities and the Press at Tilbury House, Petty France, S.W.1.

he thinks the Gold Medal ceremony at the RIBA last week was the best of the lot. You could almost feel the atmosphere of affection which surrounded Grey Wornum in his wheeled chair as he listened to the tributes to his work and personality being gracefully paid by Edward Maufe, Austen Hall, John Gloag and Christian Barman, all of whom, quite rightly, picked out Wornum's re-planning of Parliament Square as a really first-rate—and greatly under-publicized—piece of civic design.

*

But the speech of the evening was, of course, Grey Wornum's—witty, sincere, splendidly irreverent, full of quotations from such famous jesters as Frank Lloyd Wright and Groucho Marx, and delivered with a spry vigour which was a delight to all his friends.

*

Altogether a remarkable and very cheerful ceremony which ASTRAGAL wouldn't have missed for anything. Our best wishes to the latest Gold Medallist for a quick return to health and activity.

SOFT WOOD RESTRICTIONS

By this time you will have discovered that last week's headline news of more butter was not as good as it sounded. But have you realized that the MOW's economy memorandum promising you less soft wood is not as bad as it seems? There is an impressive list of restrictions, but if you go through it carefully you will find nearly all the restrictions are the same as the ones in the old P.I.80 memorandum. And you've been working to that memo. for three years or so.

*

The only difference is that the restrictions now apply to all types of building—not only to houses, for which the 1·6 standards allowance remains the same.

KEEPING CLEAN

If I've been stating the obvious, let me continue to do so by quoting conclusions from the second instalment of the inquiry into our hot water supply. Nearly everyone would take more baths if the hot water supply were improved; this has something to do with cost in the lower income groups as well as lack of adequate equipment. There doesn't seem to be much of importance to archi-



Dr. J. L. Martin

Dr. J. L. Martin, successor to Robert Matthew as LCC Architect, has been with the Council since 1948. He studied architecture in Manchester University where he qualified (in 1930) and later lectured. From 1934 to 1939 he was head of the School of Architecture in Hull and in 1939 he became

principal architect to the LMS. He is seen here outside the Royal Festival Hall, the building whose design was his special responsibility and whose existence is a monument to the remarkable coming to life in recent years of the department which he will have in his charge.

tects in
record
thirty
people
for wa
to have
how,
the re
Unwas
less tha
the bes
well re
mittee.

THE W
"Such
"don't
makes
Wester
latest a
front?
layer
overall
fashion
jacket
during
close-fi
There
the tr
plumb-
and lip
comple

These
ing the
two the
work c
In the
cult to
graphe
the ma
fashion
must
with th
Cultur
gowns,
also on

Perha
tumes
country
already
in the i
—but,
sites, a
NFBT
is not
brickla
brings
allotted
leave

POINTS FROM THIS ISSUE

London Builders' Conference: attack and defence	..	page 603
AA Symposium on Modern Secondary Schools	page 608
The maintenance of existing houses	page 609

The Editors

THE GIRDWOOD REPORT

THE Girdwood Reports on the cost of house-building, the third of which has just been published,* are mainly factual reports and not, therefore, highly controversial. However, unless carefully interpreted, many of the figures in the reports can be very misleading. For example, as Professor Bowen pointed out last week (page 593), the statement that houses now cost £129 more to build than in 1949 does not give an accurate picture of the rise in house-building costs, because the comparison does not relate to identical houses. If it did, the figure for the increase would be £192. Similarly, the figures for productivity are of little value unless it is clearly understood what is meant by "productivity." In his article on productivity in the Swedish building industry (JOURNAL for September 11, 1952), Dr. Jacobsson defined clearly the differences between various units of productivity. The number of houses built per man year, he explained, was no measure of productivity in terms of output per man hour. The former depends on, amongst other things, the number of hours worked per man per year, and the size and quality of the houses under consideration. The statement that "productivity" is now 20 per cent. below the 1938-39 figure does not, therefore, prove that building workers work less hard than they did before the war. In particular, delays due to uncertain deliveries of scarce materials cannot be blamed on the operatives, nor is the contractor or the architect always responsible. However, since the working week and the size of houses did not vary much between 1947 and 1949, the fact that productivity is stated to have been 31 per cent. below the pre-war level in 1947 can fairly be said to indicate a 16 per cent. increase in productivity between 1947 and 1949—an increase which, as the Report shows, has been maintained, but not improved upon, since.

Another fact that stands out clearly from the Report is that the increase in the cost of house-building has been due mainly to increases in the cost of materials and plant, which have been responsible for £95 of the £129 rise—over 75 per cent. (Here the Report provides official confirmation of a trend noted frequently in the JOURNAL.) The Report also confirms that the largest single factor which has increased the final cost of

* *The Cost of House Building*. (Third Report of the Committee of Enquiry). (HMSO, 1952, 1s. 3d.)

fects in this report, so let me merely record my astonishment that as many as thirty to thirty-five per cent. of the people who have to use kettles and pans for water heating still make the effort to have up to four baths a week. And how, by the way, did the compilers of the report find out about the Great Unwashed, the seven per cent. who take less than one bath a week? Take heed; the best friend who won't tell you may well report you to an investigation committee.

THE WELL-DRESSED BRICKLAYER

"Such things," you may say, "don't happen in the West." But what makes you so cocky about being a Westerner? Haven't you heard of the latest advance on the Eastern building front? The well-dressed woman bricklayer there is wearing a "two-piece overall in beige," as shown at a recent fashion show held in Leipzig. The belted jacket of the overall can be taken off during (lemon) tea breaks to reveal "a close-fitting blouse with open collar." There are "outside patch pockets on the trousers" (one for trowel and plumb-line, one for powder compact and lipstick) and a cap with chinstraps completes the outfit.

These clothes will, no doubt, be finding their way to Warsaw, where over two thousand women bricklayers are at work on the reconstruction of the city. In the evenings, however, it will be difficult to tell a bricklayer from a stenographer or a commissar's wife, for, said the master of ceremonies at the Leipzig fashion show, "in the evening, clothes must (repeat must) conform stylishly with the surroundings of the Palace of Culture," and twenty-two evening gowns, the majority in Greek style, were also on show.

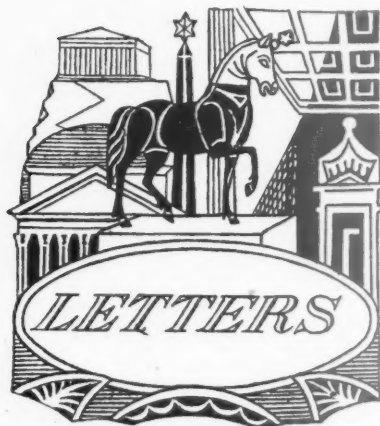
Perhaps the free issue of special costumes might attract more women in this country to the building trade. There are already about twenty thousand women in the industry—mostly in joinery 'shops—but, so far, very few are on building sites, and none are bricklayers. The NFBTO insists that theoretically there is nothing to prevent women becoming bricklayers here. Which statement brings me abruptly to the end of my allotted space with no moral drawn. I leave you to ponder on the matter.

ASTRAGAL

houses to the tenant and the taxpayer has been the increase in interest rates. "Dearer money" has been responsible for an increase in the average economic rent of identical council houses of 23 per cent.

Another fact suspected by many and now confirmed by the Report is that the rising figures for the number of houses completed each month, are due mainly to less three-bedroom and more two-bedroom houses being built (the proportion of the former has dropped from 80 per cent. in 1948 to 50 per cent. in 1951, while the proportion of the latter has risen between the same years from 13 per cent. to 39 per cent.). In other words, we are probably building no more bedrooms, i.e. re-housing no more people, per month than we were a year or two years ago.

There are no "trick" solutions to the housing problem; apart from allocating much more of the national budget to housing, the only solutions are: more efficient organization (both on and off the site), efficient application of incentives schemes whenever possible, more mechanization on the site and in the 'shop, better site supervision and full exploitation of every aid to cheaper building that has resulted from research at BRS and other research establishments.



A. C. Pierson, Deputy Chairman, Adeyfield Neighbourhood Council, Headmaster, Adeyfield Secondary School.

L. P. N. Stokes, Priest-in-charge, St. Barnabas' Church.

D. A. Arding, Secretary, Adeyfield Gardens and Allotments Association.

Alaster C. Melhuish, Secretary, Adeyfield Residents' Association.

Jackson and Greenen, F./A.R.I.B.A.

A New Black Country?

SIR.—We—all members of the Adeyfield Neighbourhood Council, representing the social, religious, and political organizations of Adeyfield—have read with interest the letter from Mr. Collins published in the JOURNAL on November 6. We, who have lived in Adeyfield for at least a year, are amazed to learn of the deterioration and approaching dereliction of the neighbourhood, for our experience is rather that now, in general appearance, Adeyfield is much

tidier than when we came here, with greatly improved gardens and modestly but attractively furnished houses. This improvement is a reflection of a robust community spirit which is growing in responsibility and taking more and more pride in the amenities provided by the Development Corporation.

Mr. Collins' account of damage done to property is not only fantastic; it is, we submit, Sir, a fantasy. True, a patient investigator—certainly not a "casual observer"—might be able to find some "broken windows and damage to woodwork" and even signs of "wilful damage" to the hundreds of trees and shrubs which have been planted, but these are even less in evidence than in most normal communities. As for the charge that the building of the New Town is just another way of "producing slums" the charge is so ridiculous that if it were not also slanderous it would be unworthy of comment.

To speak of Adeyfield as a new "Black Country" suggests that Mr. Collins knows neither Adeyfield nor the country with which he compares it.

In short, your correspondent's letter is little more than a slander on those who live here, and cannot fail to wound both them and the excellent men and women who have conceived the idea of this New Town and are working unsparingly to bring to fruition what we believe to be one of the finest social experiments of the century.

Such a letter demands an apology.

A. C. PIERSON, L. P. N. STOKES,
D. A. ARDING, ALASTER C. MELHUISH.

No Waiting

SIR.—We were interested in your article on the reconstruction of Portsmouth, and particularly in the illustration of a new multiple store on page 524. We think the notice "No Waiting" particularly appropriate in view of the speed with which this type of store has been able to proceed, whilst so many other blitzed store premises in various towns are still waiting for building licences.

JACKSON & GREENEN

Bournemouth.

NEWS

MOHLG

Development Charge Abolished

Mr. Harold Macmillan, the Minister of Housing and Local Government, has abolished the Land Development Charge.

This decision was incorporated in a Bill which Mr. Macmillan introduced on Tuesday.

Mr. Macmillan's Bill—a fuller one will be introduced next year—will also change the system of compensation under Lord Silkin's Planning Act.

Lord Silkin set aside £300 million, to be paid by July 1 next, for landowners who lost development rights under planning schemes. This "blanket" payment will not now be made. Instead compensation will be paid, case by case, when an actual building restriction is imposed. It is believed the total amount to be paid will be only a modest proportion of the £300 million.

Many landowners who had no intention of developing their land expected compensation just the same. Now they will not get it.

Compensation claims will be held up for 18 months or more until next year's comprehensive Bill becomes law. When eventually they are paid they will receive added interest from 1948, and will be paid in full.

Nearly a million claims were put in on the fund. They amounted to £350 million. So not all claimants would have been paid 20s. in the £ under the old scheme.

The Ministry says: "People who hold admitted claims and who paid the development charge will be paid on the claim up to the amount of the charge they have paid."

The Government now says that all who bought in good faith will be compensated.

The landowner who sold his land at a high price and did not hand over the claim will not get his claim in full. He will only be paid as much as will bring the price of his land up to its 1947 value. If he has already received full value from the buyer he gets no more from the State.

It will still be necessary for people to get planning permission before they build, or dig for minerals, or change the use of a building; and local authorities will continue to deal with their applications for permission. Development plans are not affected.

There will be compensation in certain cases for owners of land who are refused permission to build on it, e.g., where an owner of land, which has building value and is ripe for development, is not allowed to build at all; because the land is too valuable agriculturally or is in a green belt. He will be paid compensation when planning permission is refused; and he will be paid on the basis of the claim which the Central Land Board has admitted on the £300 million fund. He will get the full admitted claim with added interest from 1948.

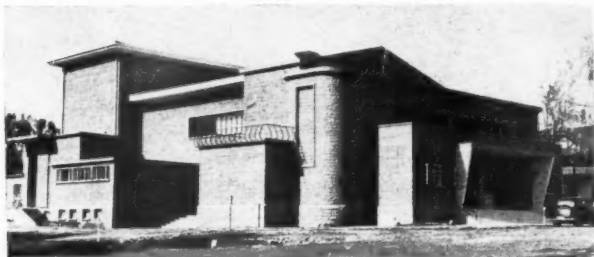
Compensation will not be paid for refusal to allow the use of a building to be changed to one which would hurt the neighbourhood.

When a person has been refused permission to develop his land he can apply to the appropriate Government Department for compensation. The department will see if there is a claim on the £300 million fund registered against the land, and whether the case is one in which compensation ought to be paid. If there is a claim, and compensation ought to be paid, they will pay it then.

BUILDINGS IN THE NEWS

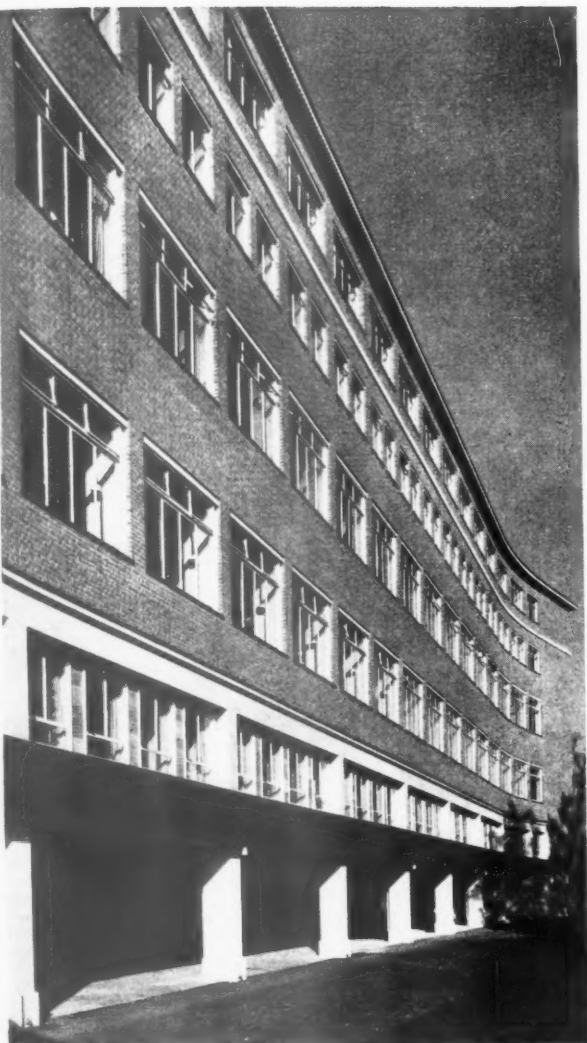
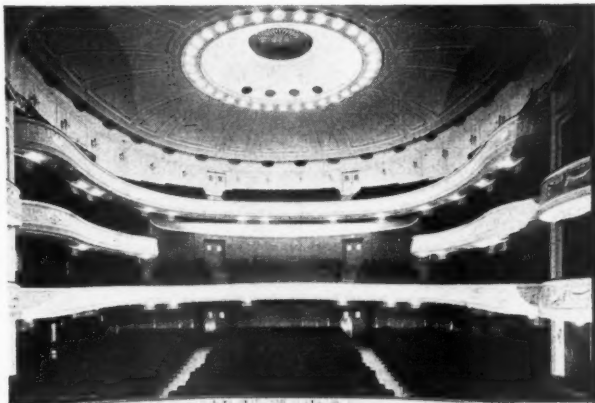
Theatre at Nairobi

The Kenya National Theatre (below) was opened in Nairobi earlier this month. The architect was Mrs. Eugenie Hughes.



Theatre at Budapest

The interior of the Budapest Comedy Theatre was completely destroyed by a bomb in the last war. It has been reconstructed (below) to a new design by the Hungarian architect, Janos Flach, and is now known as the People's Army Theatre.



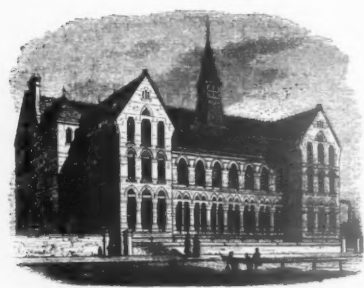
Faculty Building at Cambridge

This new Faculty Building, which was designed by Easton and Robertson for the Department of Engineering, Cambridge University, was opened last week. It will be illustrated and described in full in a later issue.

Flats at Hampstead

"Troyes House," the block of flats shown on the right, which was designed by C. E. Jacob, Hampstead's housing architect (assisted by F. L. Willars and Miss M. Pountney), was opened recently at Lawn Road, Hampstead.





On November 6 a Symposium on Modern Secondary Schools was given at the AA, 34, Bedford Square, W.C.1. A brief report of the discussion is given here; it will be followed later by a more comprehensive report in the JOURNAL's Technical Section.

SCHOOLS

Report of AA Symposium

The AA Symposium on Secondary Modern Schools, held in London last week, was in two sections; the first consisting of four papers and discussion on educational requirements, the second of five papers and discussion on the planning, construction and maintenance of these schools.

The chairman of the second section, Peter Shephard, vice-president of the AA, opened this part of the symposium with the pertinent remark that the most expensive buildings of the past were by no means the best. The extra incentive of lower costs often had the effect of producing better architecture.

COMPACT PLANNING

D. Clarke Hall, who gave a paper on the "Economical Use of Space," said that many of the things the educationalists had asked for in the earlier papers were "out of the question" within the £240 limit. We were almost down to simple brick walls with a roof on, he said. He gave examples of simple, compact, rectangular plans on more than one floor, but even some of these had been found too dear. Keeping within the rectangle and avoiding all breaks and set-backs that would put up the cost was, he said, "quite a fascinating game." We could halve the external surface area by compact, three-storey planning and, if we could achieve an educationally sound building within a compact plan, then we should be able to build with the £240 limit now and after the next rise in the cost of building.

C. S. Maddall, who followed Mr. Clarke Hall, also had suggestions to make as to how compact planning could cut costs. A reduction in circulation space by 20 per cent, could, he claimed, produce a 5 per cent. saving in cost, equal to £12 per place. By bringing isolated blocks together into one block, we could produce a tremendous economy, he continued; it would save a wall area, services and staircases and be easier to run. He had seen in Stockholm a school with an assembly hall going up through three storeys and with access balconies to the classrooms; it also served as a light area. He knew that earlier speakers had said that

we should not have classrooms, even indirectly, off the assembly hall, but this example took the idea of compact planning to its logical conclusion.

THE BRICK BOX

Several educationalists criticized strongly attempts "to get a quart into a pint pot." The loss, said one, was in atmosphere, aspect and vista. The brick box, he said, might be a fascinating exercise from the architectural point of view, but it was not so amusing from the educational point of view. There was a great danger of losing the "sense of space," said B. S. Braithwaite (Education Officer, E. Sussex). "We should think very carefully," he said, "before we compress all our buildings into cardboard boxes."

Similar sentiments were expressed by a schools' architect, who, referring to a previous speaker's claims of having reduced the length of drains for his schools, said "I don't feel we can take a straight drain and build a school around it!" "I know the £240 limit must be met," he continued, "but I don't see that we have to go back to the rectangular box—I should have thought it was still possible to have the boxes in smaller units. After all, we are building schools, not packing child sardines into brick boxes; architects must strike against cost-per-place if the box is the only solution."

Members of the symposium were, to some extent, relieved when a representative of the MOE said that, if building costs continued to rise so that it was impossible to get a good school for £240 per place, they would either have to raise that figure, or abandon the idea of having complete good schools; i.e., it might be necessary to abandon the gymnasium or the laboratory. They were not going to provide the architect with an impossible problem, but so far there was nothing in their tender prices to show that good schools could not be built for £240.

One of these points was taken up by another speaker, who suggested that where there was more than one school on a site, a gymnasium, in a separate block, could be shared by the several schools.

Introducing his paper on "Planning to Standardised Components," Richard Shephard said that, at present, there was a tendency to get a cheaper job by using standardized building components in some parts of the country, while in others, orthodox construction was cheaper. The danger in concentrating on the use of standardized components, said Mr. Shephard, was that a simple change in the Government's economic programme (for example, if housing subsidies were lowered) would upset the whole school-building programme. If there was less building and, consequently, unemployment in the industry, output would go up and orthodox construction would become cheaper all over the country.

Mr. Shephard warned architects of the danger of acquiescing in cutting space standards. "We cannot," he said, "go on indefinitely lowering space standards; if building costs continue to rise, the time will come when we will have to stick our feet in and resist attempts to peg prices at a predetermined level."

PREFABRICATION DEFENDED

The Hon. R. A. de Yarburgh-Bateson defended prefabricated construction for schools on the grounds that a large number of schools built during the last five years would never have been built at all if prefabricated components had not been used. They had built schools in this way within the £240 limit, yet the full economy of prefabrication had not been realized. There were, he said, too many different systems and too many grids—at least five were in use. He appealed to the Ministry to standardize one module—preferably 3 ft. 4 in.

Mr. Bateson suggested that bottlenecks

which occurred because all the components (for frame, walls and floors) were made in one factory, could be avoided if components could be ordered anywhere, as with traditional components. He advocated simpler systems, on the "Meccano" principle. We should, he said, divorce the structure completely from the cladding, i.e., remove the posts that hold up the roof from the wall. This was easy if we could accept columns in rooms and with widely spaced columns there was no reason why we shouldn't. Moreover, he added, this idea made possible a wall system that was completely modular, both vertically and horizontally, and halved the number of different components required. During Mr. Bateson's contribution to the discussion, a member of the symposium was heard to say "why not put the frame outside the walls?" This point was taken up later in the discussion.

Bruce Martin also strongly defended prefabrication. There was, he said, much confusion between prefabrication systems and the use of prefabricated components; he was in favour of the latter, so that the "putting-together" of the components could be left to the architect. "If new materials are not cheaper than the way we built 500 years ago," said Mr. Martin, "then it's simply because we haven't studied the problem enough. We should be using aluminium, plastics, duralumin, fabrics, glass-silk—in fact, everything produced in sheet, rod or tube form; let us utilize the factories that turn out sheet materials by the mile."

UNFAIR COMPARISONS

Comparisons between prefabricated and traditionally-constructed schools were, said Mr. Martin, unfair. We were comparing unfinished brick walls, grano., and untreated ceilings, with well-finished walls, cork floors, and acoustic ceilings. It was remarkable, he said, that, in spite of the lack of thought given to the problem, the increased overheads and cost of labour in factory production and the cost of transport, we were providing prefabricated buildings as cheaply as other buildings. "We must be wary," he continued, "of superficial comparisons, otherwise we may throw over the whole results of 20 years of building research, embodied in the *Post-War Building Studies* and the *BRS Digests*. To fly in the face of this and return to previous methods of building, on the ground that they are cheaper, is staying in the horse and cart and candle age."

"My idea of a perfect school," concluded Mr. Martin, "is a beautiful shiny thing in the middle of a garden; I agree with the chairman on the importance of the garden—the children should feel that they are in one all the time." [The chairman had said earlier that, if in this climate we built round three sides of an outdoor space, it became almost as useful as a fully enclosed area.]

L. W. Elliott presented a paper on the "Economical Use of Structures and Materials." He pointed out that, in addition to saving external wall area, compact planning produced structural savings, due to the effects of continuity. Although the percentage saving was less in two- and three-storey buildings, as the number of bays increased, the size of the moments in the structural members decreased. If there was continuity in a multi-storey building, he explained, less welded joints were needed to produce the required rigidity.

Mr. Elliott advocated the use of space frames and stressed skin construction for schools, so that columns or load bearing walls could be placed wherever required and changed at will; services and light fittings could be within the depth of the space frame. He also thought that schools could be economically constructed with frames of pressed steel. Pressed steel, he said, was produced very rapidly; the trouble, in the past, had been that engi-

neers had with it welding.

F. D. C. for eco-storey s-tice bar-he said, sq. ft. of prestress-carrying steel-co-timber per sq. For as the use said, re-concrete take th-

In th-is sp-amount

ER.

Th-

Ther-my la-amount-used f-the an-of exi-£375-labou-figure-Wha-and n-buildi-that a-this-the n-civil-amount-diffic-of kr-outsi-turns-latio-Reve-1949-are a-tax a-

Local

R

L

M

Co-op

R

Privat

tion

1

2

3

4

5

6

neers had tried to imitate structural steel with it and used, therefore, complicated welding.

F. D. Green also had suggestions to make for economical structures. For single-storey schools he advocated the use of lattice bar joists, with wood-wool slabs. This, he said, required only 2½ lb. of steel per sq. ft. of floor area. A new technique of prestressed timber units at 4-ft. centres, carrying wood-wool slabs, could cut the steel content down to ½ lb./sq. ft. The timber requirement was only 0.15 cu. ft. per sq. ft.

For assembly halls, Mr. Green advocated the use of light steel trusses, which, he said, required no more steel than reinforced concrete. To avoid ties, the roof could take the form of a space frame. With this

method of construction, steel requirements for a 60-ft. span, were only 2½ lb. per sq. ft. The use of a stressed timber skin for assembly hall roofs could cut down the steel required to ½ lb. per sq. ft., only ½ cu. ft. of timber being required per sq. ft. of floor area.

Mr. Green said that he liked the suggestion that a 200-ft. square covered structure should be erected, and the school built under it, protected from the vagaries of the weather. But one of the members of the symposium sarcastically commented that this suggestion meant that it was possible to dispense with the architect and leave the design to the headmaster.

A full report of the symposium will appear soon in the Technical Section of the JOURNAL.

In the second of a series of articles Mr. Watkins shows how little is spent on the repair of existing houses in comparison with the amount spent on new housing and points out why this is so.

ERNEST WATKINS

The Future of House Property (2)

There should be, as I pointed out in my last article, a balance between the amount of money, labour, and materials used for the building of new houses and the amount used for the maintenance of existing houses.

What is spent on new houses? Some £375 million a year. And what sort of labour force is used? Last June the figure was 264,000.

What, then, of the expenditure in men and money on the upkeep of existing buildings? A rough calculation shows that about 200,000 men are now doing this work. (About 20 per cent. of the number engaged in the building and civil engineering industries.) The amount of money spent on repairs is difficult to assess, for there is no means of knowing how many small jobs are outside the licensing limits. But tax returns are useful here as an aid to calculation. The Commissioners of Inland Revenue's annual report shows that in 1949-50 (the last year for which figures are available) the total of Schedule A tax assessments for house property was

£491 million, from which the statutory deduction for repairs was £128 million. The allowance itself was originally based on the proportion of the assessment figure that corresponded with the average spent on repairs; so the £128 million a year is at least a guide.

ANNUAL REPAIR BILL

There is another way of working out the amount spent on repairs. If 200,000 men are at work on repair and maintenance and the average weekly wage of each man is £8, and the cost of materials and overheads is 100 per cent. of the total wage bill, the annual expenditure is £168 million. On each of the 14,300,000 houses in the country, something like £10 a year is spent on repairs and maintenance, on the average. The important words are "on the average."

Is that figure sufficient? Few would say that it is. The figures below give a sample of what some landlords spend on repairs:—

Owners	Net Rents (£s.)	Amount Spent on Repairs (£s.)	Repairs as percentage of Net Rents (Per cent.)
Local Authorities (1949)—			
London County Council	2,809,594	1,523,351	54
Birmingham Corporation	1,182,665	561,878	47
Liverpool Corporation	1,739,256	457,938	26
Manchester Corporation	760,065	299,075	39
Co-operative Society (half year, 1952)—			
Rochdale Equitable	3,649	1,933	52
Private owners (samples from files of National Federation of Property Owners, 1949-51)—			
1. Sheffield	149	58	37
2.	293	135	39
3. Ashton-in-Makerfield	1,116	431	38
4. Birmingham	271	118	43
5.	136	49	31
6. Peckham	192	50	26
7. Dumfries	143	45	31

The Bournville Village Trust reports similar percentage figures for the relationship between the cost of essential repairs and the net rents of its houses.

An average expenditure of 25 per cent. of the Schedule A assessment, or £10 a year per house, may just be sufficient to keep decay in check. It can provide nothing for the exceptional repair, nothing for improvement. And to be effective in maintaining a reasonable standard of repair, the average expenditure must be spent, or set aside, every year. We are suffering from the lack of attention between 1940 and 1947 when adequate yearly care was impossible. For many properties, the war years began a vicious circle of repair problems, so that, today, the repairs that fall due mount up more quickly than funds can be accumulated from the rents to meet them. It explains why many private owners have despairingly given up the whole idea of repair. They will do what they can be compelled to do. They have neither money nor inclination to do any more. They have lost any sense of personal responsibility.

Birmingham Corporation has had exceptional experience in the ownership and management of small house property. Since the war it has bought some 600 acres of small dwellings and has put into operation a redevelopment scheme for the properties taken over. They are of the type for which an average standard rent would be between 10s. and 12s. 6d. a week. In a paper read at the National Housing and Town Planning Conference this year, Major D. J. E. Lamb, of the Birmingham Corporation, stated that the average cost of repairs to each house, of a kind which he described as "frankly minimal," was £180. It would take over twenty years to accumulate that sum from the rents of the houses on the basis of the Inland Revenue allowance for repairs.

New property, with its higher rents, should be maintainable out of its rents on an economic basis. It would seem that the pre-1914 house cannot be so maintained. Most of this property is privately owned by people who once believed that nothing was safer than bricks and mortar.

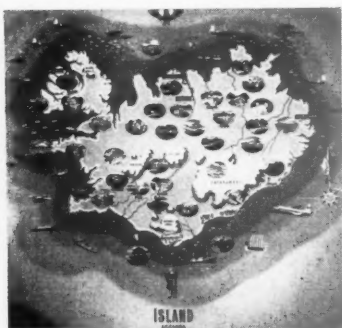
THE RENT ACT

One reason why a determined attempt cannot be made to repair this property is that the amount which can be spent depends on the owner's financial position. And it is estimated that some eight million old houses are still subject to the Rent Acts. This means that the owners of them are prevented from increasing the rents beyond the amount paid in 1939 to meet the three-fold rise in the cost of repair.

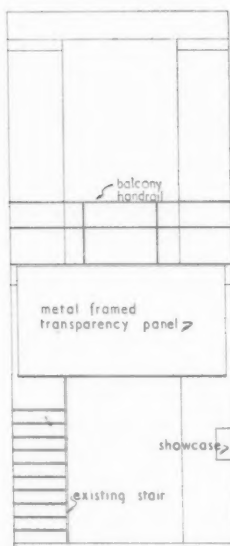
My next article will deal with the problems encountered by the owner of rented property who wants to keep his property in good repair.

ICELAND TRAVEL BUREAU IN PRINCES ARCADE, PICCADILLY,

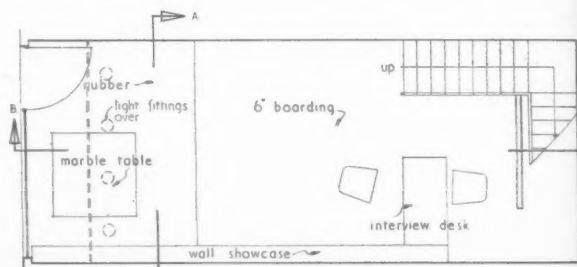
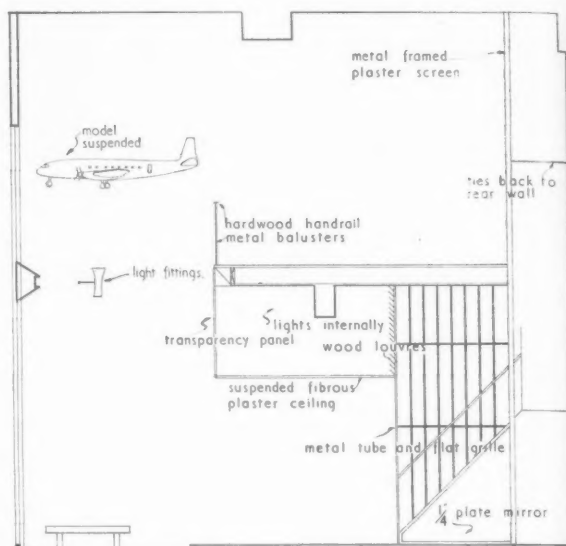
DESIGN



Alterations to 6b, Princes Arcade, Piccadilly, for the Iceland Tourist Information Bureau, have been designed by James Cubitt and Partners; assistant-in-charge, G. V. Richards. The new design was entirely guided by the unusual proportions of the premises, which can be seen in the photograph opposite. (All other establishments in the arcade either neglect or intentionally destroy the value of the double storey). The main feature of the new design is the emphasis on height and, to this end, the existing balcony was cut back and the lighting in the front of the premises is mainly directed upwards. The ceiling under the balcony was lowered over the interview area and the space between the existing slab

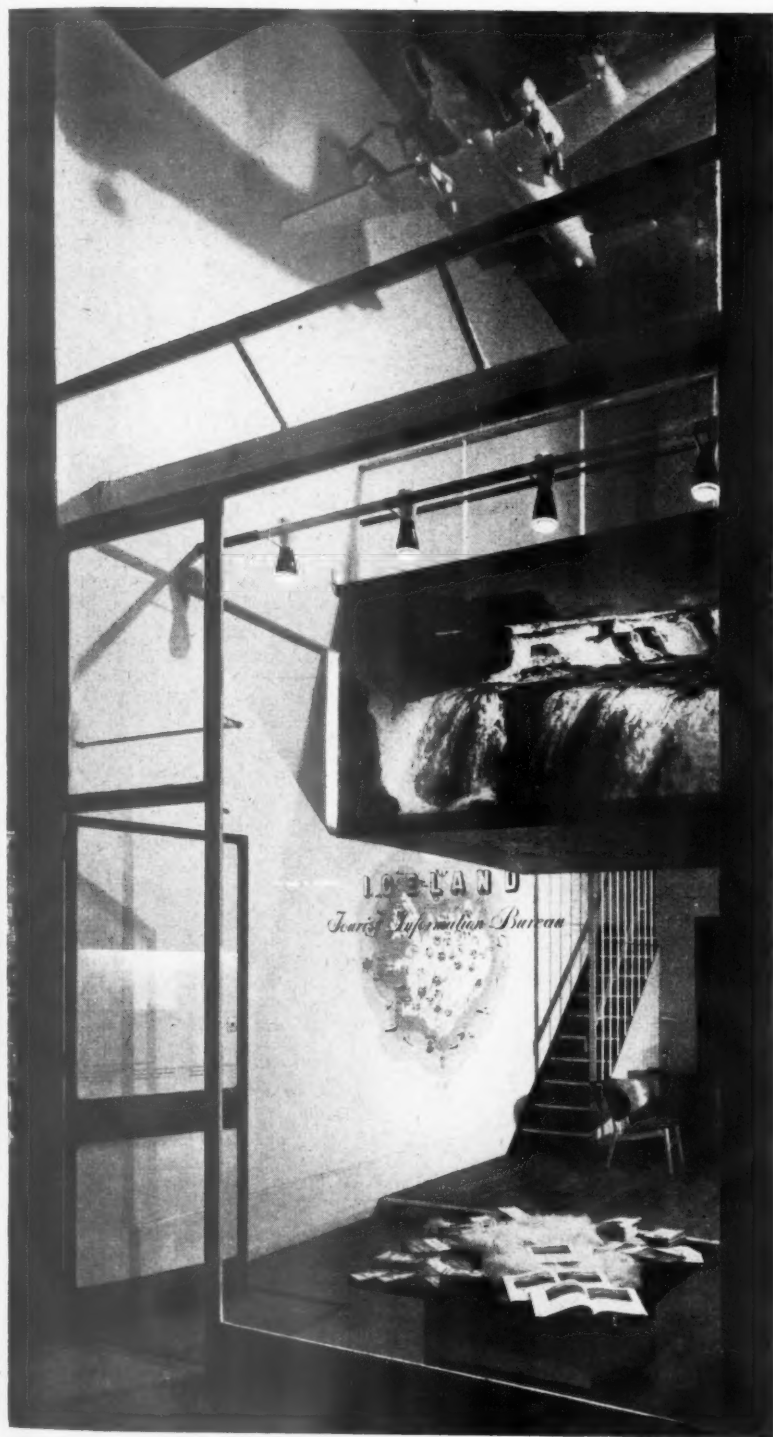


Section A.A.

Plan and section B-B [Scale: $\frac{1}{8}'' = 1' 0''$]

and
is lig
from
page
of I
flow
& P

DESIGNED BY JAMES CUBITT AND PARTNERS



and the false ceiling is used as a lighting box. In this way the back of the premises is lighted through louvres and lighting is provided for the large transparency (made from a negative 2½-in. by 1½-in.), part of which is seen bottom right on the opposite page, which shows a typical Icelandic scene. At the bottom of the stairs is a map of Iceland (top left, opposite). The model aircraft is a Douglas "Skymaster," as flown by Iceland Airways. Contract price, £1,438. General contractors, Holland & Hannen and Cubitts Ltd. Sub-contractors, page 630



T. J. SOPHIAN

Recent Law Cases

IS A HOUSE PART OF A BUILDING?

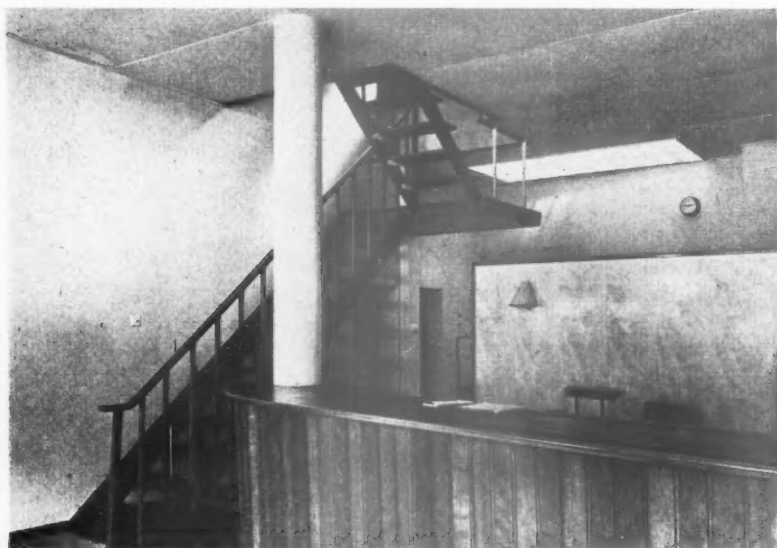
Under section 11 of the Housing Act, 1936, a local authority may make a demolition order in respect of an insanitary house; under section 12 similar powers may be exercised in respect of a part of a building, or an underground room, which is insanitary, subject, however, to the qualification that in such cases a closing order, and not a demolition order, may be made. In the recent case of *Birch v. Wigan Corpn.*, the question was raised whether a "house" may be part of a "building" for the purposes of section 12.

The Act contains no definition of a "house" or a "building" as such. The definition of "house" in section 185 merely states that it includes any yard, garden out-house and appurtenances thereto or usually enjoyed therewith.

The actual question raised in *Birch v. Wigan Corpn.* was whether, if some of the houses in a row of houses were insanitary, action could be taken by the authority under section 12 so as to make a closing order, but it was held that a house, although it formed part of a block of buildings, could not be regarded as part of a building, i.e., of the block, for the purposes of section 12. In such circumstances, accordingly, the authority could only make a demolition order, and not a closing order, if the house was unfit for habitation.

No doubt this decision will prove a stumbling block in the way of housing authorities who will have to elect between making a demolition order which would, perhaps, entail the demolition of contiguous buildings in the block, which were quite sound, and foregoing their powers completely.

The grounds on which the Court arrived at its conclusion that section 11 and 12 were to be treated as being mutually exclusive are of interest. Under section 11 the council was under the obligation of making a demolition order in respect of an unfit house. But if a house was to be regarded as "part of a building," the authority would enjoy the option of either making a demolition order under section 11 or a closing order under section 12. Such an option however could not be reconciled with the absolute obligation imposed on the Council in such a case by section 11 of making a demolition order in respect of the "house." Further, section 12 likewise imposed an obligation on the authority to make a closing order in an appropriate case, and if a "house" was to be regarded as "part of a building" the authority would be simultaneously under different obligations, which, moreover, were of a mandatory nature, in relation to the same premises. The authority, in other words, would have to make a demolition order under section 12 and a closing order under section 11 at the same time. Again, since section 11 dealt with "houses" it would only be reasonable to regard section



2x2" stud.
 TYPISTS & FILING
 new door openings.
 shelving
 2x2" stud partition clad
 both sides with acoustic
 tiles.
 RECEPTION
 exty. channel track.
 replaced with 4"
 dia. steel column.
 new brick wall.
 PUBLIC SPACE
 2x2" stud.
 ENTRANCE
 L.A.V.
 W.C.
 up
 up

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



According to this decision, therefore, sections 11 and 12 are exclusive, and a "house cannot be treated as "part of a building." Whether this result, and the consequences it will entail to housing authorities, were anticipated, is to be doubted, but as the courts have repeatedly pointed out, courts of law only construe statutes as they find them, and defects in statute law, if they are to be remedied, can only be remedied by Parliament.

CONTROLLED PROPERTIES

In this case the house, which was controlled by the Rent Acts, was let at a rent of £45 p.a. exclusive of rates, that rent being the maximum permitted rent under the Rent Acts, but the "free" rent which could have been obtained for the house in the open market was more than £67 10s. 5d. p.a.; so that if £67 10s. 5d. p.a. was to be regarded as the "net annual value" of the house his rent of £45 p.a. at which it was let would fall short of the necessary two-thirds to constitute a "rack rent."

The landlord accordingly argued that the statutory restrictions imposed on him with regard to the rent chargeable prevented the rent from being a "rack rent" and accordingly discharged him from his statutory liability to repair. Such a contention if upheld, would have had the effect of freeing a very large number of owners from the statutory liability to repair, but the Court of Appeal ruled otherwise. Apparently the law of this decision was that the maximum rent permitted to be recovered by law was for this purpose to be regarded as the rack rent, notwithstanding that a much higher rent might be recoverable in a free market where restrictions on the rent chargeable were not operative. For such a purpose, accordingly, the law will shut its eyes to the fact that the statutory rent falls short of the true market rental, and will ignore the existence of the latter. And yet for other purposes in the past the law has not neglected to have regard to realities, and to recognize the fact that the property could command a higher rent than the controlled rent. Thus for the purpose of determining the rateable value of premises controlled by the Rent Acts the House of Lords in *Poplar Assessment Committee v. Roberts* held in 1922 that regard was to be paid to the market rental value and not to the amount of the restricted rent.

HEALTH CENTRE

at FENNERS, CAMBRIDGE

designed by J. M. MACGREGOR and D. WYN ROBERTS

The functions of this new Health Centre for the University of Cambridge are threefold. Firstly, the study of human ecology, which is a study of infectious and contagious diseases in relation to living and working conditions among students and others. Secondly, a preventative health service for students, and thirdly, athletic activities in conjunction with the nearby sports ground.

View from the south-east, with the original pavilion in the background.





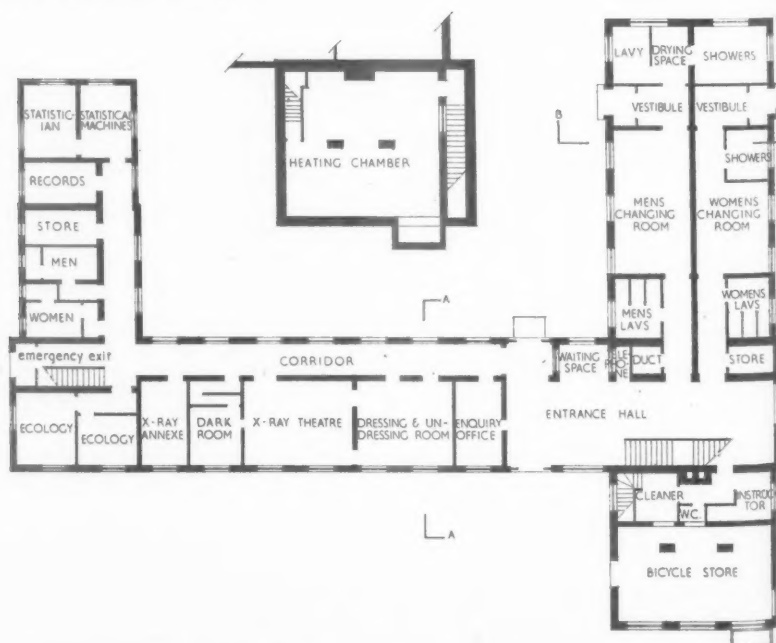
Above, the entrance hall with the window to the enquiry office on the right. Above, right, waiting room on the first floor.

HEALTH CENTRE

at FENNERS, CAMBRIDGE
designed by J. M. MACGREGOR
and D. WYN ROBERTS



First and second floor plans



Ground floor and basement plans [Scale: $\frac{1}{4}$ " = 1' 0"]

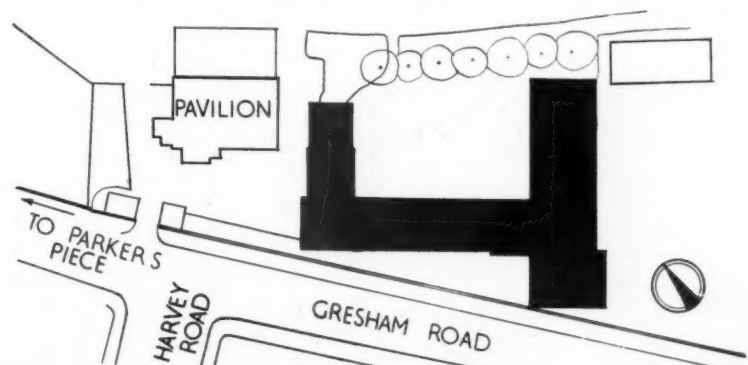
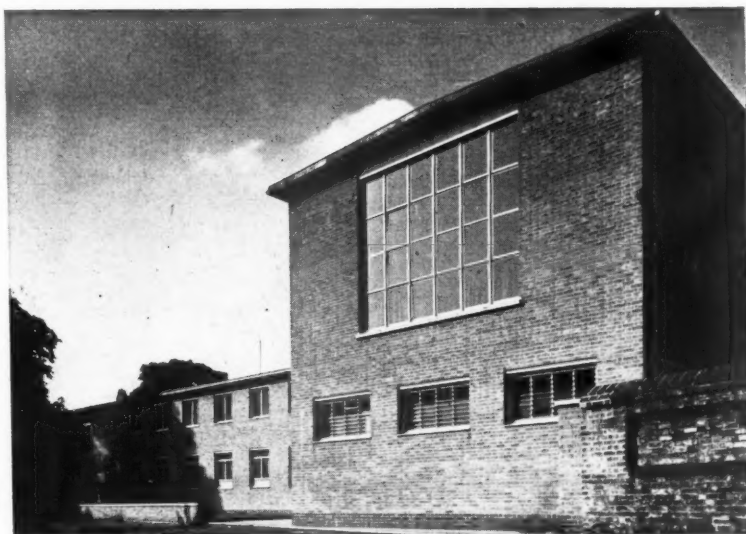


Above, main entrance on the south-west facade. Right, the boxing room, with bicycle store under, from the south.

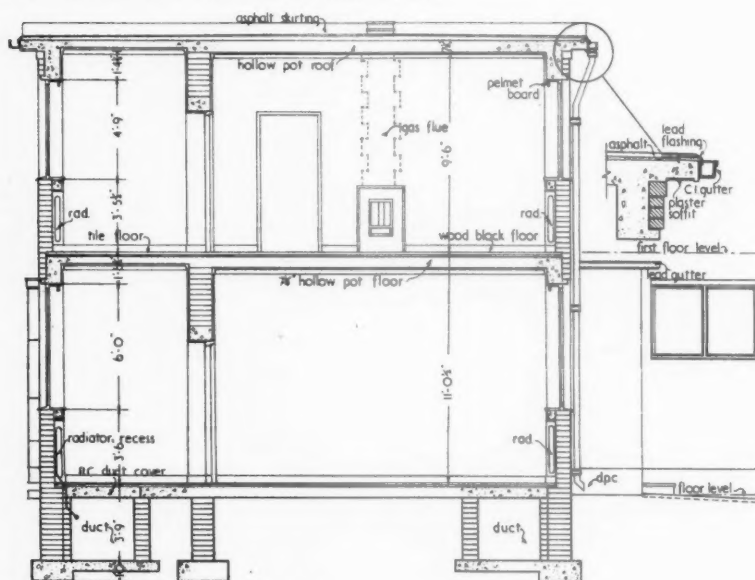
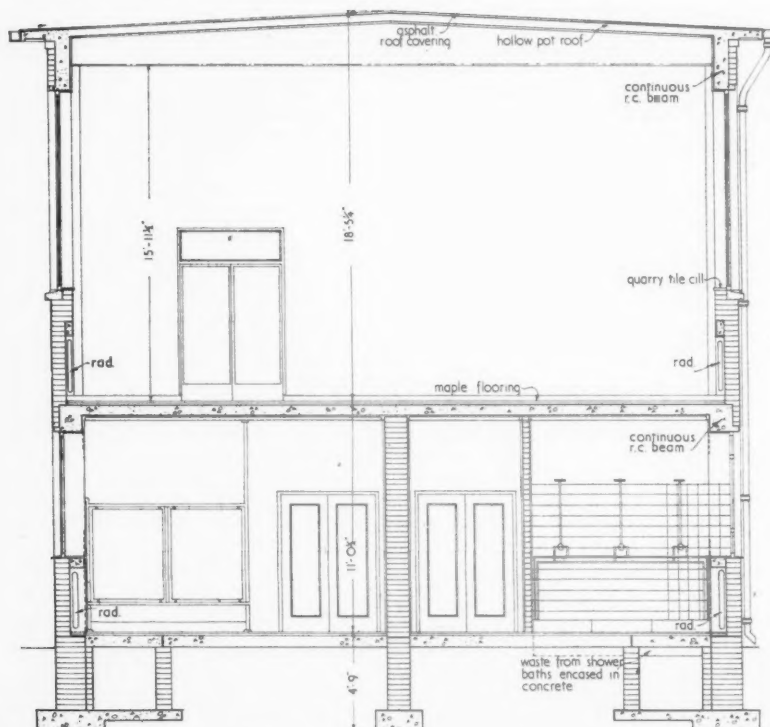
PLAN.—The ecological functions of the building, which are accommodated in the north-west wing, require a professor's room, reader's room, and a secretary. The health centre also acts as a headquarters for field workers, who carry out studies outside Cambridge. The preventative health service, on the ground floor in the centre wing of the building, allows for periodic inspections by three health officers and X-rays for students. The gymnasium and boxing rooms are in the south-east wing where no one will be disturbed by noise. The north-east corner of the building was only allowed to have one storey as the right of light was held by the existing sports pavilion.

CONSTRUCTION.—It was stipulated that as little steel as possible should be used, and its use has been avoided except for reinforcement. The load bearing brick walls are 18 in. thick up to first floor level in the gymnasium block and 13½ in. above. Elsewhere, walls are 13½ in. thick throughout. Roofs and the first floor are 9-in. reinforced concrete and at junctions with exterior walls continuous RC beams are formed. Partitions are hollow tile.

FINISHES.—Exterior walls are faced with red Berkshire bricks throughout and copings are of



Site plan

Section A-A [Scale: $\frac{1}{8}$ " and $\frac{1}{4}$ " = 1' 0"]Section B-B [Scale: $\frac{1}{8}$ " = 1' 0"]

Above, right, first floor landing, staircase and hall below. Extreme right, Professor's room on the first floor. Right, looking west down Gresham Road towards the main entrance.



Portland stone. The main entrance canopy is lead covered and above the doors there is lettering incised in mahogany and coloured blue and gold. Floors are finished with Hornton stone in the entrance hall, woodblocks in offices, cork tiles in corridors and landings, beech strip in the boxing room and maple in the gymnasium. Staircases have Hornton stone treads and a dark red tiled dado. Windows are purpose-made steel in steel sub-frames and with steel sills. Laboratory benches are of mahogany.

The contract price was £44,625.

The general contractors were Coulson & Son, Ltd.

For sub-contractors see page 630.

HEALTH CENTRE

designed by J. M. MACGREGOR
and D. WYN ROBERTS



WORKING DETAIL

RECEPTION COUNTER: TRAVEL AGENCY IN LONDON, W.1

Dennis Lennon, architect

FURNITURE AND FITTINGS: 30



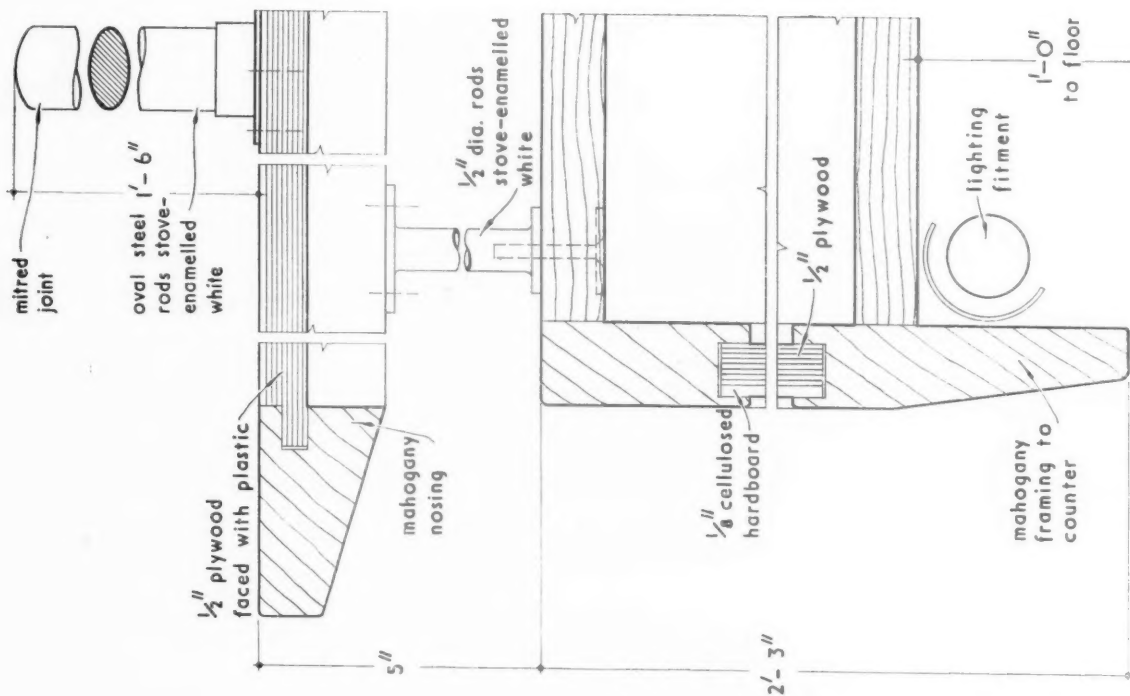
The low screens around the seats are veneered in mahogany, cut away in vertical grooves to reveal a birch veneer beneath.

WORKING DETAIL

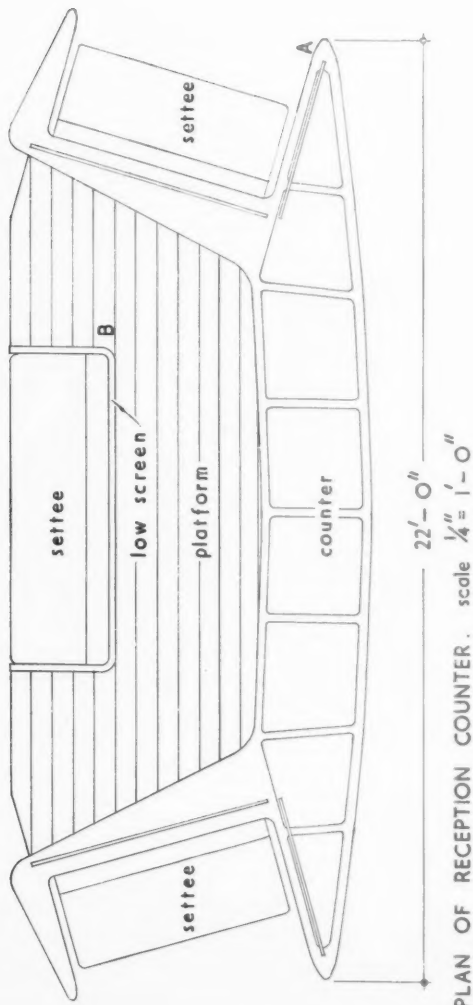
FURNITURE AND FITTINGS: 30

RECEPTION COUNTER: TRAVEL AGENCY IN LONDON, W.1

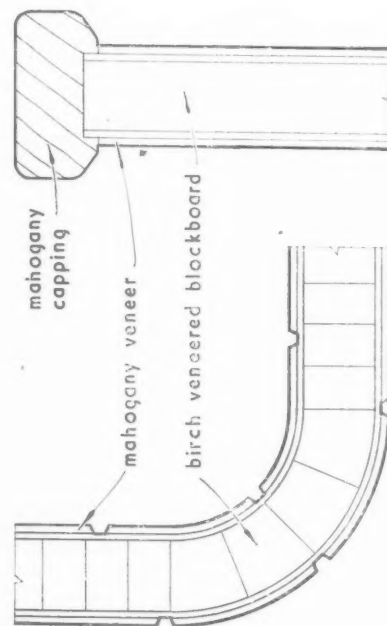
Dennis Lennon, architect



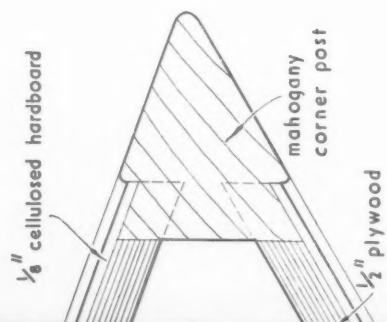
VERTICAL SECTION THROUGH COUNTER. scale 1/2 full size



PLAN OF RECEPTION COUNTER. scale 1/4" = 1'-0"



SECTION AT B.



PLAN AT B.

DETAIL AT A.

WORKING DETAIL

WALLS AND PARTITIONS: 4

COPPER-FACED WALL: EXTENSIONS TO UNIVERSITY OF DURHAM

J. S. Allen, architect; Oscar Faber and Partners, consulting engineers



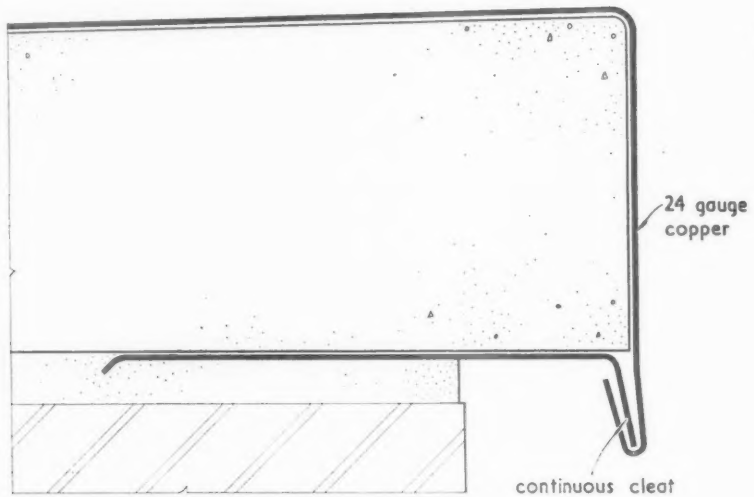
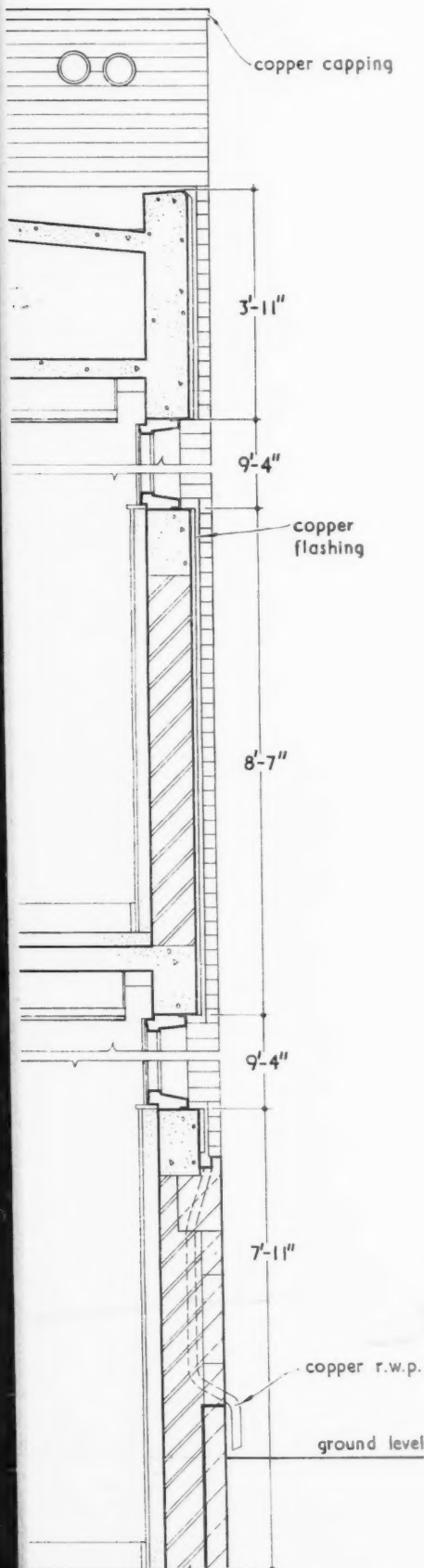
A copper-lined gutter behind the top of the plinth collects any rain water from the sheeting.

WORKING DETAIL

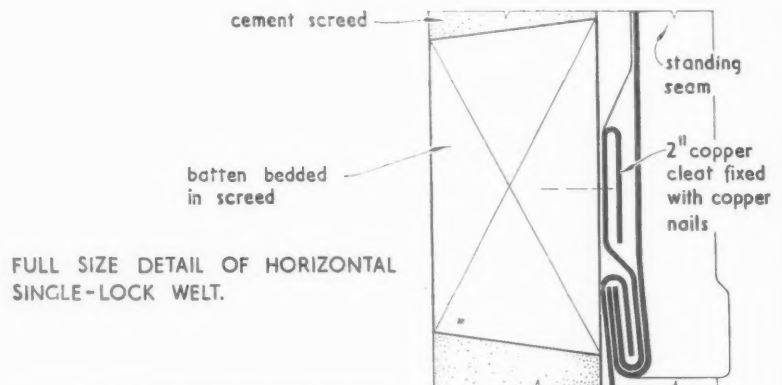
WALLS AND PARTITIONS: 4

COPPER-FACED WALL: EXTENSIONS TO UNIVERSITY OF DURHAM

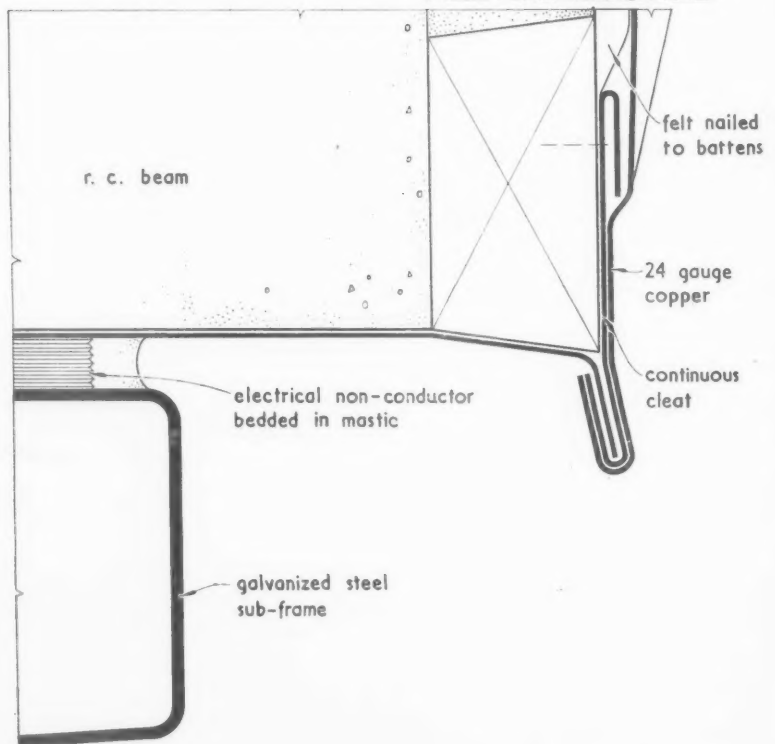
J. S. Allen, architect; Oscar Faber and Partners, consulting engineers



FULL SIZE DETAIL OF COPING.



FULL SIZE DETAIL OF HORIZONTAL SINGLE-LOCK WELT.



FULL SIZE DETAIL AT HEAD OF WINDOW.

VERTICAL SECTION. scale $\frac{3}{8}" = 1' - 0"$

Within
dwelling
living
Author



HOUSES

in ASHLEY CLOSE, WELWYN GARDEN CITY, HERTS.

designed by RICHARD J. NICHOL

Within a residential area largely built up with houses of traditional appearance, the two single-storey dwellings illustrated below and on the following five pages, have been designed to provide contemporary living accommodation while adhering to traditional methods of construction. The necessary Local Authority approval was gained only after some initial difficulty.

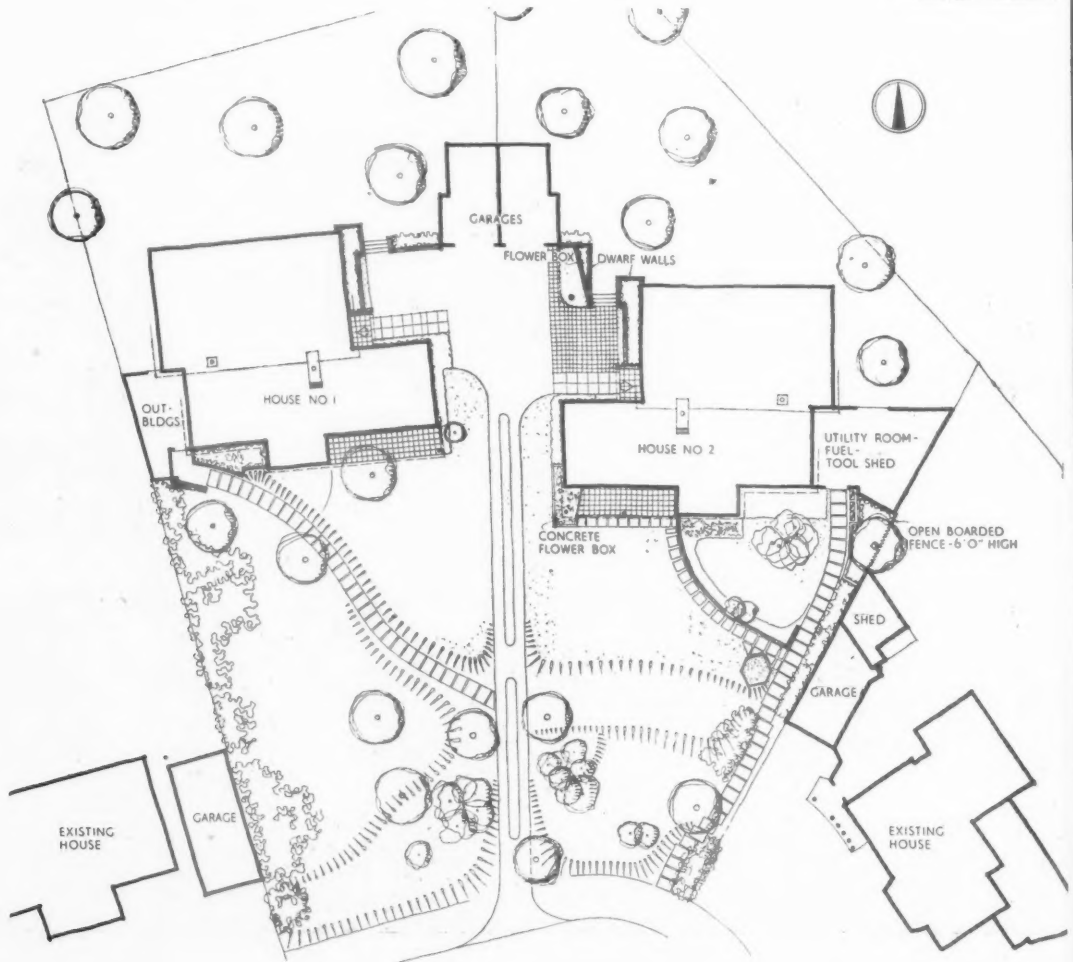
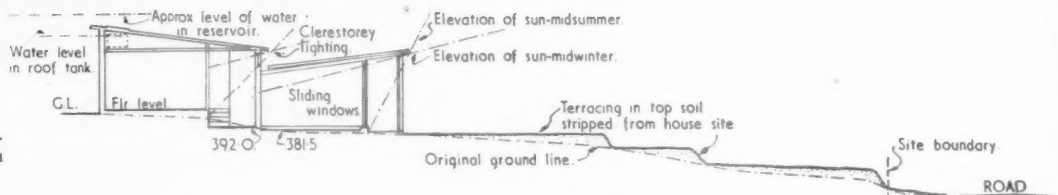
The two houses seen from the south.





Left, living room of house 2 from the garden.

Diagrammatic section through site on north-south axis



Site plan

SITE.—The two sites, which have a combined area of half an acre, were virgin woodland, the trees being mainly mature silver birch with some hornbeam shrubs and immature oaks. The ground rises gently to the north and the houses are sited to give almost due south aspect to living areas. The site is at such a height that mains water pressure is very low, and this factor was instrumental in the choice of single-storey structures. The site contours dictated the changes in level within the houses and the clerestory lighting to the centrally-placed halls. The narrow frontages to the wedge-shaped sites necessitated placing the houses some way back from the road to gain the maximum south-facing elevations. A single central driveway was most economi-

cal and g
garages.

PLAN.—A
living and
placed on
bathrooms
higher lev
living area

cal and governed the central position of the garages.

PLAN.—As the entire south frontages are used for living and working areas the main entrances are placed on the side elevations. Bedrooms and bathrooms are detached from living areas on a higher level. The slope of the ceilings over the living areas allows maximum penetration of winter

HOUSES

in WELWYN GARDEN CITY, HERTS.
designed by RICHARD J. NICHOL

Below, the large sliding windows on the south side of the living room. Bottom, the living room looking towards the dining space.



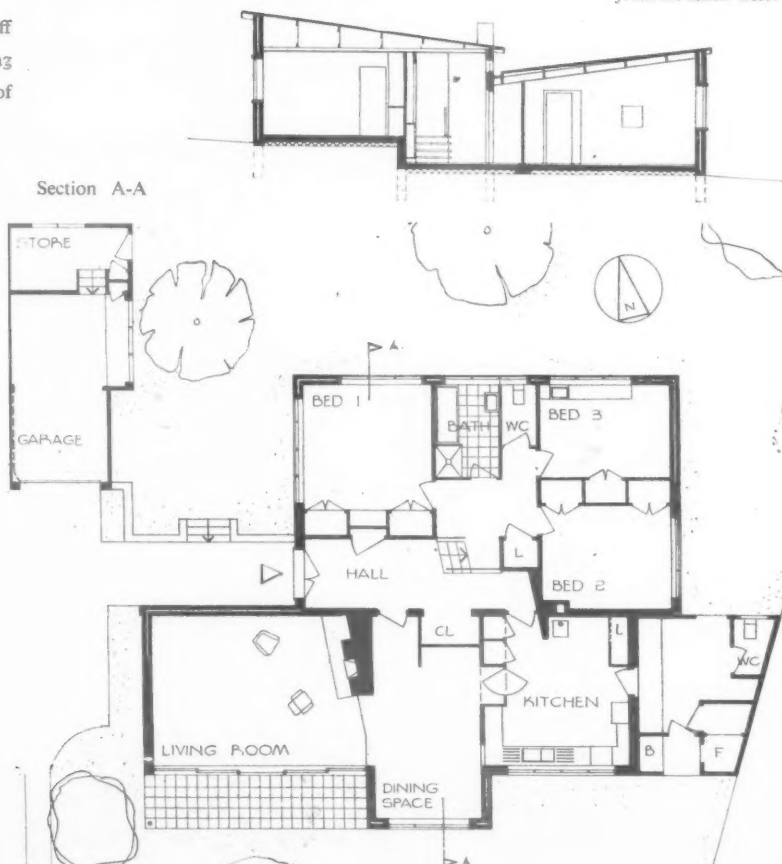


*Above, house 2
from the south-west.*

sunshine and the overhang of the roof cuts off direct summer sunlight, as well as providing shelter for a pram in wet weather. The area of each house, inside external walls, is 1,500 sq. ft.

HOUSES

at WELWYN GARDEN CITY, HERTS.
designed by RICHARD J. NICHOL



Plan of house 2
[Scale : $\frac{1}{4}$ " = 1' 0"]

Detail s

24 5/8" C

12

10' 10"

9 1/2"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

10' 10"

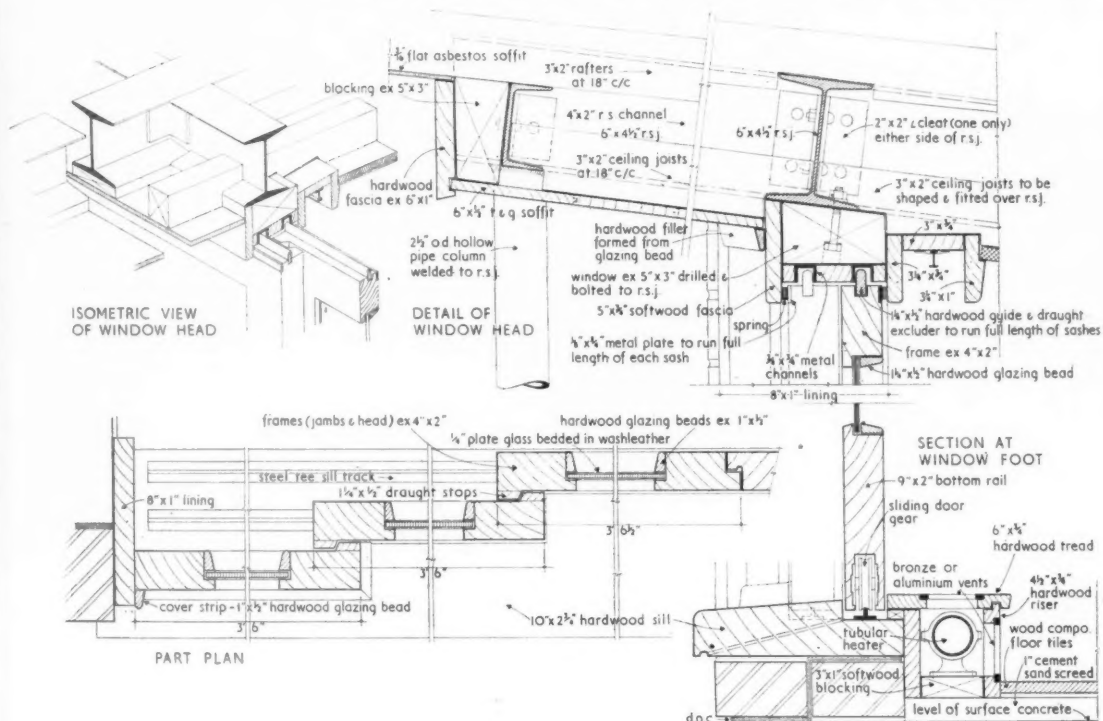
10' 10"

10' 10"

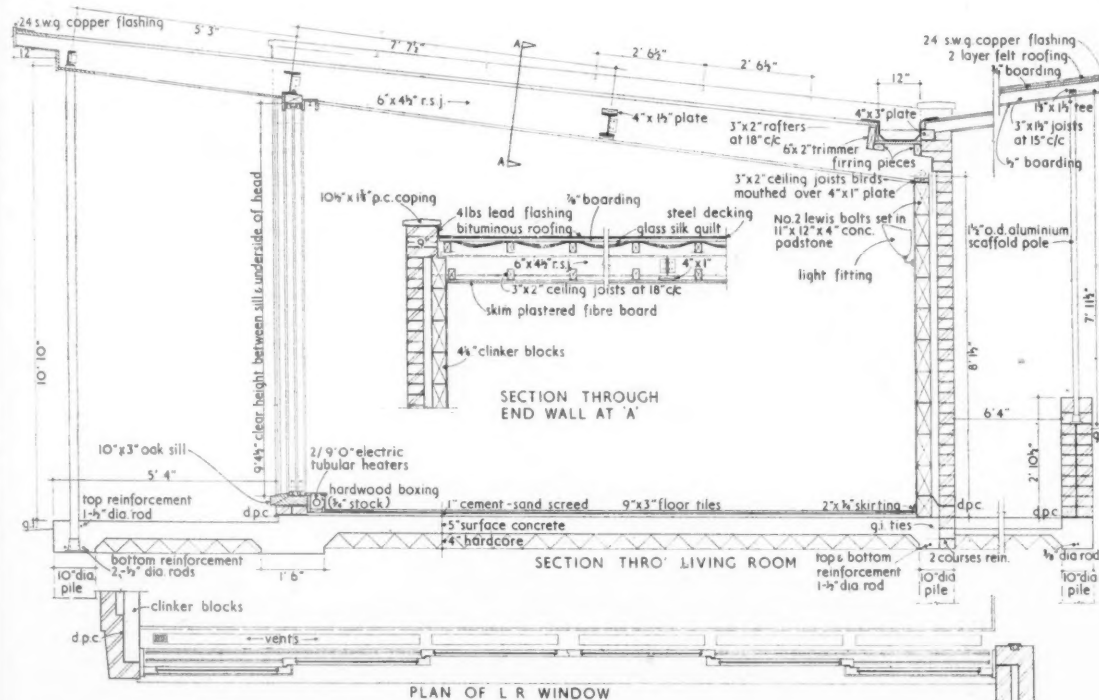
CONSTRUCTION.—Owing to the clay subsoil 10-in. diameter short-bore pile foundations were used. External walls are of 11-in. cavity construction, the outer skin being brickwork and the inner skin clinker blocks. Partitions are of clinker blocks and there are some internal walls of buff bricks. Over living areas roof joists and rafters are carried on 6-in. by 4½-in. R.S.J.'s supported on

2½-in. pipe columns. Floors are of solid 5-in. concrete throughout.

FINISHES.—Roofs are covered with green mineral surfaced felt on $\frac{7}{8}$ -in. boarding, with glass silk quilt draped over the rafters. South walls of living rooms are completely glazed and sliding screens allow for a clear opening of 13 ft. 6 in. Elsewhere, windows are



Detail section of window head and sill and part plan (Scale: $1\frac{1}{2}"$ and $\frac{3}{4}" = 1'-0"$)



Cross section through living room and plan of south wall [Scale : 1" = 1' 0"]



Above, the terrace outside house 1. Below, view from the dining space in house 2.

standard aluminium alloy. Internal walls, where not of fair-faced brick, are plastered and finished with emulsion paint or wallpaper. Floors are covered with 12-in. square cork tiles throughout. Ceilings are of plaster board, plastered and painted.

SERVICES.—A solid fuel boiler provides hot water and serves one radiator and a bathroom towel rail. Living rooms have convector fires with external air supply from ducts under the floors and with warm air vents to dining spaces. There are 18-ft. electric tubular heaters under sills to living room sliding windows. It is intended to instal a forced warm air heating system in the near future.

The contract price was £2,645 for each house, plus £200 for the flooring contract. The cost was 2s. 8d. per foot cube and 38s. per foot square. The general contractors were Yeomans & Partners, Ltd. For sub-contractors, see page 630.

HOUSES

in WELWYN GARDEN CITY, HERTS.
designed by RICHARD J. NICHOL



TECHNICAL SECTION

Architects and builders, who spend much of their time and energy in dealing with controls, licences, regulations and numerous ministries rightly expect that any central advice should be clear and definite and, if possible, backed up by clear reasons for any restrictive recommendations.

The new series of Economy Memoranda issued by MOW may defeat its own object if it continues as it has started. So far four memoranda have been issued. The first two dealt with economy in cement and made some useful and sensible suggestions; the third deals with bricks and the fourth with timber. The two main faults of these first four advisory notes are that they tend to be contradictory and they leave the reader uncertain as to whether or not the recommendations will be used by various authorities as an additional obstruction to building, *i.e.*, will they become, in effect, mandatory?

The principal contradiction is that, whereas the first two memoranda stress economy in cement, the third and fourth suggest a number of places where cement products may be used in order to economize in bricks or timber. A clear direction on the relative importance of the various materials is needed. Moreover, a number of the recommendations would involve additional costs. Where licence sums are strictly limited, will larger expenditure be authorized if scarce materials are saved? It is difficult to anticipate what housing authorities will do.

It is to be hoped that before any more of these memoranda are issued an attempt will be made to co-ordinate and clarify those already issued.

13 MATERIALS: TIMBER post-war trends

This week's
survey

The number preceding the week's special article or survey indicates the appropriate subject heading of the Information Centre to which the article or survey belongs. The complete list of these headings is printed from time-to-time. To each survey is appended a list of recently-published and relevant Information Centre items. Further and earlier information can be found by referring to the index published free each year.

This survey of post-war developments in the use of timber, by Arthur Jones, Editor of the Timber and Plywood Annual, deals mainly with efforts that have been made to economize in softwood and, in particular, in the use of long lengths. Later articles will deal in detail with some of the points Mr. Jones raises in this general survey.

Although timber is a primary building material, restrictions on its use in the past 13 years have meant that few architects under the age of 35 can have a full appreciation of the true value of wood in building. At present the architect has to limit himself in housing to using a maximum of 1.6 standards of softwood per 1,000 sq. ft. of floor area, whereas his senior colleague was accustomed to use double this amount in pre-war house-building,

for he was concerned primarily with costs and did not have to contend with any artificial restrictions on the use of timber.

POST-WAR SHORTAGES

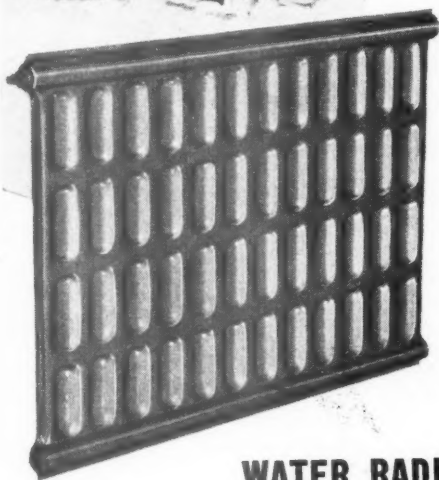
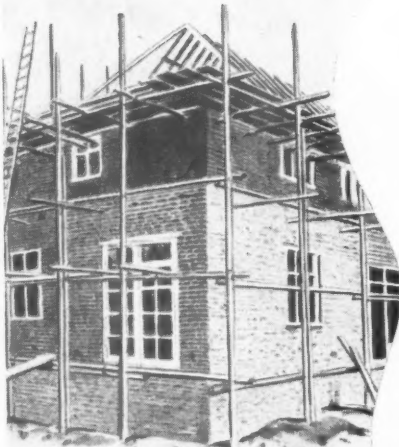
Users of softwood in post-war Britain have been faced with two main problems: a shortage of softwood, due to outside influences; and a shortage in particular of long lengths. The general shortage has been reflected in the strict

DIFFERENT PROBLEMS BUT—

both have

dimplex

CENTRAL HEATING



WATER RADIATORS

In heavy gauge pressed steel for strength, yet only one third the weight of cast iron. Internally protected from rust and corrosion; exterior in glossy, dust-resisting stove enamelled finish—no painting needed on site. Standard colour: Light Bronze, or available in Gold, Cream, White, Sky Blue, Silver Grey, Eau-de-Nil and Black. In sections of 5, 6, 7½, 10, 15, 20 and 30 sq. ft. Heights 20¾" and 26¾". Wall bracket fixing.

FOR EARLY DELIVERY



On display at the
Building Centres
London & Glasgow

dimplex

**PRESSED STEEL
RADIATORS**

Illustrated folders and price lists from

Dimplex Ltd., Dept. AB, Totton, Southampton, Hants. Tel: Totton 2431
Scotland: A. Caldwell-Young & Sons, 200 St. Vincent Street, Glasgow, C.2. Tel: CEN 4015
N. Ireland: N. B. Croft, 12-14 Gt. George's Street, Belfast. Tel: 209.9

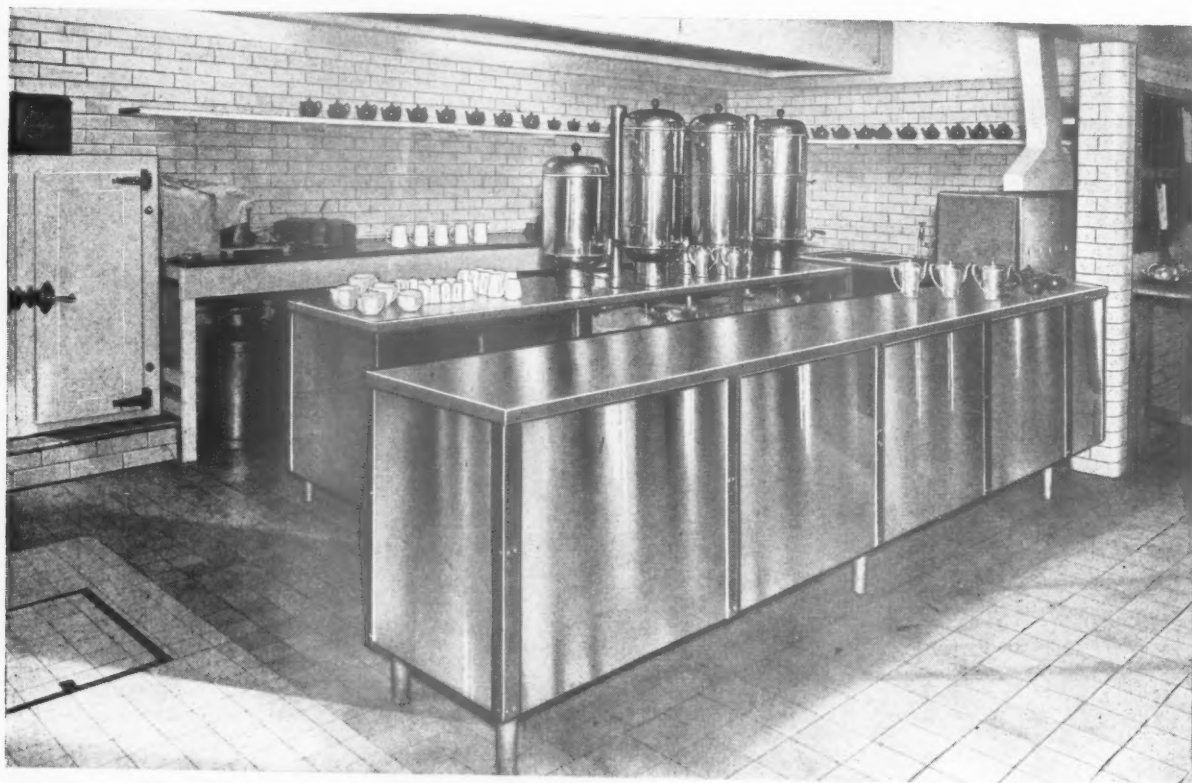


ELECTRIC RADIATORS

The oil-filled radiators for plug-in central heating . . . thermostatically controlled, transportable, fireproof. They operate from any power point and have no exposed elements. The oil is hermetically sealed in; no replenishing, no fumes. Colours as for water models. Range incorporates Panel type models: ½kW., ¾kW., 1kW., 1½kW. and 2kW. Column type models: 1½kW. and 2kW. In all normal voltages. Mountings: Feet, castor wheels or wall brackets.



A Service second to none . . .



New stillroom equipment at the Dorchester Hotel, Park Lane, planned and installed by Lockhart Equipment Ltd.

Behind all installations carried out by Lockhart Equipment Ltd. is the earnest endeavour on the part of Specialists to give *a service second to none* whether it be an entirely new undertaking or the reorganisation of existing facilities.

Lockhart Equipment Ltd., plan and supply all the equipment necessary including utensils, cutlery, crockery, linen, etc., handing over complete and ready for operation.

Everything for the Caterer

LOCKHART  EQUIPMENT
LIMITED

SPECIALIST CATERING EQUIPMENT ENGINEERS AND SUPPLIERS

LOCKHART EQUIPMENT LTD., 72 Berkeley Avenue, Reading. Tel.: Reading 4847 (4 lines)

often b
to som

STRESS-

Consi
natura
ber fa
ing is
becom
althou
deman
stress-
into va
accor
withst
This g
by in
for kn
shakes
the m
count
ber b
do ma
out c
Amer
A co
respo
but w
reach
on str
be re
For
BSI s
show
joists
sq. in
for I
affect
effect
of th
6-in.
to ha
in th
norm
purli

ROOF

The
years
cons
a ho
form
need
first
man
fabri
meth
roof
the
havi
the
tory
loca
sign
pith
roof
Th
wo
paid
ticu
any
a la

* BS
Part

often be used with safety, thus leading to some saving in cost too.

STRESS-GRADING

Consideration of structural strength naturally leads to the grading of timber for stress properties. Stress grading is undoubtedly a practice that will become more common in the future, although there is already a limited demand for it today. By means of stress-grading, timbers can be sorted into various grades for structural work, according to the strength required to withstand certain loads and stresses. This grading can be done fairly easily by inspecting each piece of wood for knots, slope of grain, split, wane, shakes, etc. (See Figs. 3 and 4.) At the moment few architects in this country specify that stress-graded timber be supplied by the merchant, nor do many ask for grading to be carried out on the site, although in North America it is quite a common practice. A certain amount of training and responsibility is, of course, required, but when the architect and the builder reach the stage where they place value on stress-grading, the timber trade will be ready to meet the demand.

For information on grading rules the BSI specifications* can be consulted. It shows, for example, stress grades for joists and rafters ranging from 1,200 lb./sq. in. for Douglas fir to 800 lb./sq. in. for Baltic redwood. Knots naturally affect the strength of a beam, but this effect varies greatly with the position of the knot, so that it is possible for a 6-in. by 2-in. joist of European redwood to have a 1-in. diameter knot and remain in the 800-lb. grade, *i.e.*, the grade normally used for rafters, joists and purlins.

ROOF CONSTRUCTION

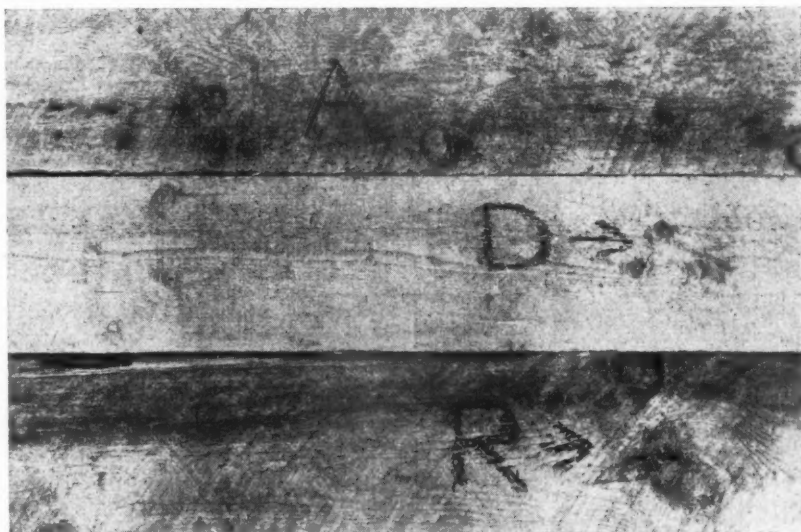
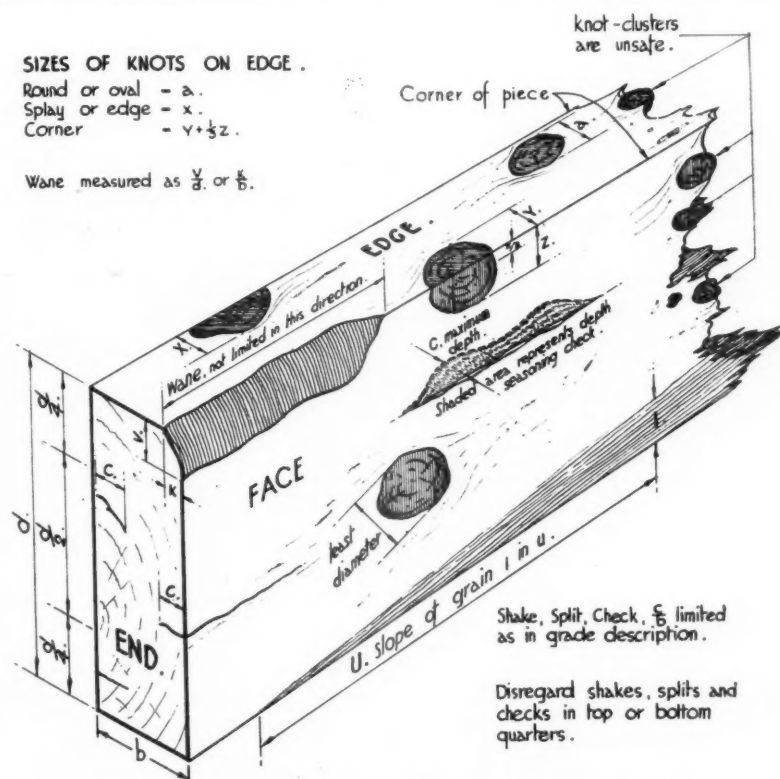
There have been advances in recent years affecting the use of timber in roof construction. The TDA has produced a house roof in which the trusses are of a form of construction which avoids the need for load-bearing partitions on the first floor, saves timber, reduces the demand for long lengths, encourages prefabrication and modern assembly methods, and is quick to erect. These roofs are being used for houses all over the country (Figs. 1 and 2), their value having been tested both theoretically by the Forest Products Research Laboratory, and practically by builders of local authority and private houses. Designs are available for various spans and pitches, and both for gabled and hipped roofs.

The shortage of long lengths of softwood has led to much attention being paid to the use of shorter lengths, particularly for roof construction, without any loss of strength. Gable roofs need a large proportion of long lengths, as

the rafters are all the same length, and, although they are simple to construct, there is no doubt that they are wasteful in timber. Publicity has, therefore, been given to the reduction in the demand for long lengths which can be achieved by using the hipped type of roof. For the hipped roof design produced by TDA

three-quarters of the rafters need not be longer than 10 ft., every fourth or fifth pair of rafters being framed and braced to the ceiling in the form of a truss, by means of timber connectors.

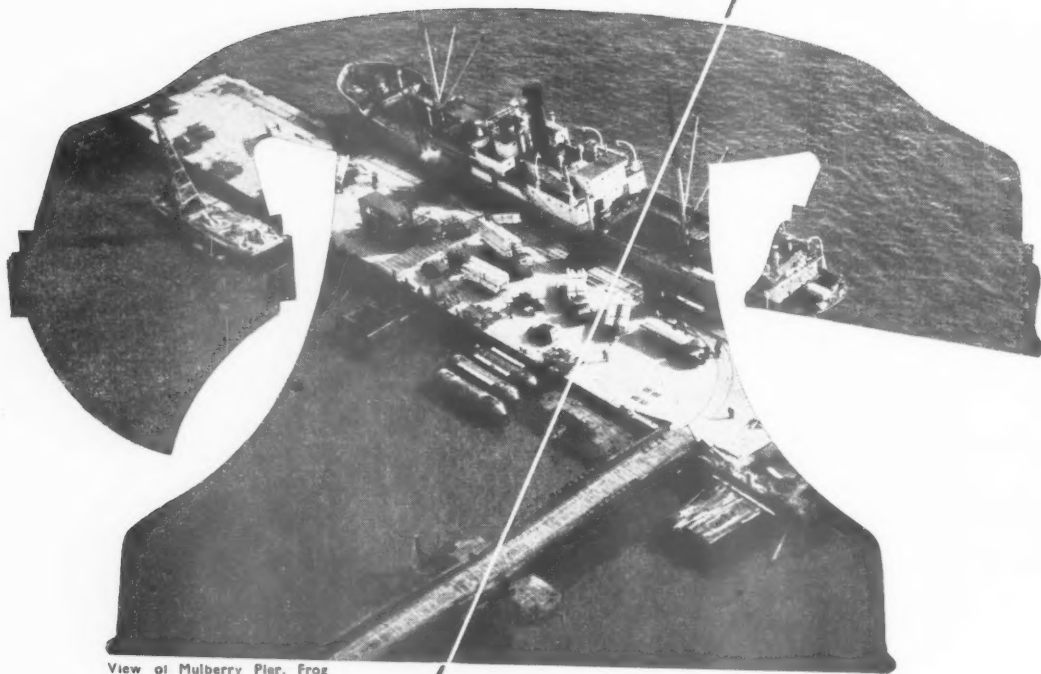
The members of roofs shown in the TDA design sheets have been very carefully calculated and they should never



Top, Fig. 3, diagram showing the defects for which the grader looks when stress-grading timber, and how they are measured. Above, Fig. 4, three pieces of Douglas fir submitted for stress-grading. The top piece (A) has been placed in the 1,200 lb. per sq. in. grade; the middle piece (D), first placed aside as doubtful because of the knot cluster, was later rejected; the bottom piece (R) was immediately rejected because of the knots and wane on the top left-hand side. With practise, a grader can work extremely quickly and accurately.

* BS 940 : Part 1 : 1944 (BS1, 2s. 6d.) and BS 940 : Part 2 : 1942 (BS1, 4s.).

PHONE PHOENIX



View of Mulberry Pier, Frog Island, Rainham, Essex.

FOR SOFTWOODS HARDWOODS & BUILDING BOARDS

*The Phoenix reputation has been built up in difficult times —
you cannot do better than — 'Phone Phoenix—of course!*

THE PHOENIX TIMBER CO. LTD.

FROG ISLAND · RAINHAM · ESSEX

TELEPHONE · RAINHAM 3311

therefore be altered to meet some special requirement, without first consulting the Association on the proposed amendments.

SUSPENDED FLOORS

There has been little change in first-floor construction apart from a general reduction in the sizes of joists and other members, the MOW having approved and, in fact, recommended many economies in the structural use of timber: for example, the adoption of a working stress of 800 lb./sq. in. as the basis for rafters, joists and purlins (timber for these members can now be drawn from parcels of unsorted and 5th quality European redwood and whitewood, or from the "merchantable" grades of Douglas fir, Western hemlock and sitka spruce). However, research is now taking place into new types of construction for first floors, including a technique of prestressed timber. (These will be dealt with in a later article.)

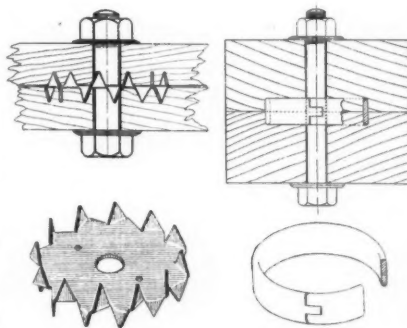
Recommendations for ground floors now require a concrete slab, except where the site slopes so much that the cost would be prohibitive. However, some people are so attached to wooden floors that TDA has devised a compromise, consisting of timber boards, resting on bearers, which, in turn, rest on special bricks. Under present regulations, the bearers must be of hardwood, but the extra courses of brickwork normally associated with suspended ground floors are avoided.

WORKING STRESSES

Probably the most significant advance in the economical use of timber in building has been the assembling of scientific data on working stresses for joists, rafters, purlins and floor boards. Research carried out by various bodies, but especially the Forest Products Research Laboratory, TDA and BRS, has shown that sizes can safely be reduced if certain principles are observed. Thus, the use of interlocking tiles, and hence a lower roof pitch and fewer battens, can lead to the saving of a considerable quantity of timber, while still keeping within the bounds of reasonable safe loading. The MOW leaflet on economy in the use of timber in building* sets out in detail the result of this research and includes tables of maximum safe spans.

LARGE BUILDINGS

The shortage of steel has encouraged the development of timber roofs for large industrial buildings. Several standard designs for large-span timber roofs have been devised by TDA, including trusses for clear spans up to 57 ft. 4 in., with and without suspended ceilings, and knee-braced trusses and columns for large-span single-storey buildings.



Above, left, Fig. 5, toothed-plate timber connector (double-sided); right, Fig. 6, split-ring timber connector. Right, Fig. 7, building up a truss with timber connectors.

Such work involves the fairly wide use of timber connectors. (See Figs. 5, 6 and 7.) Of these the toothed-plate connector (made single- and double-sided) is most widely used in this country. The split-ring connector, although used a great deal in America, is not so widely used here. The use of framing anchors is also becoming increasingly popular. Timber connectors not only make possible the safe use of short lengths of timber, but the resulting member has greater strength than uncut timber of equal length. Care has to be taken in the use of connectors that correct sizes are used and that there is adequate protection against rust.

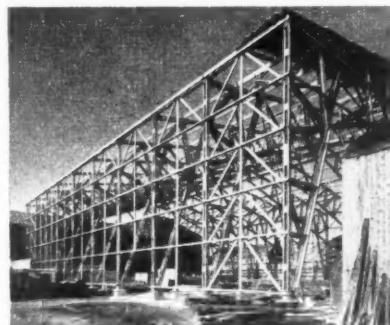
LAMINATION

Lamination has attracted the interest of many architects. In this country



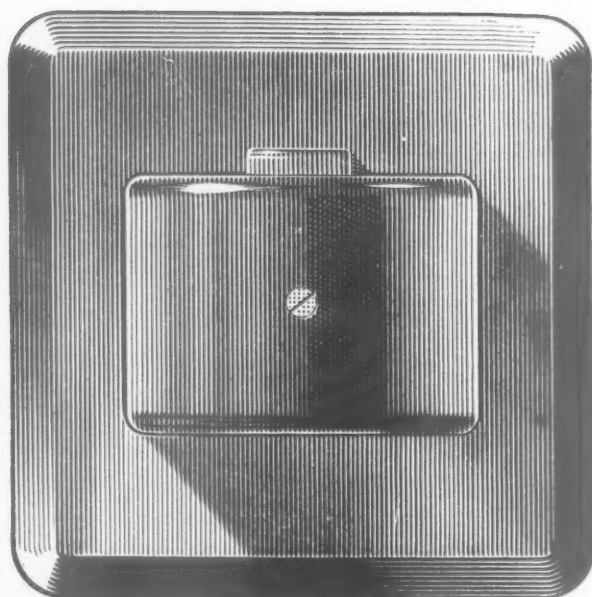
very large arches built up by the laminating process are exceptional and we have no examples as impressive as those to be seen in North America, but there is little doubt that a considerable future exists for laminated arches in building work. Cost is the greatest deterrent to their wider use at the moment, but research continues to be made into the subject with the aim of making the laminated span a commercial proposition. Already it has been found possible to use the lamination technique in timber on a mass-produc-

Right, Fig. 8, timber storage shed at Shoreham. Large-span timber trusses, on 3-pin arch system, held together by timber connectors. Below, Fig. 9, close-up of joint at apex of arches.



* Use of Timber in All Building Work. MOW Economy Memoranda No. 4. (HMSO, 1952, 6d.)

Add a touch of distinction



EDISWAN

CLIX

Surrey switches with their attractive appearance and quietly efficient, sliding bar switch action add a touch of distinction to electrical installations.

5 and 15 amp. switches, switch socket outlets, 30 amp. D.P. switches and cooker control units, all with the same unique switch style enable you to maintain harmony of design throughout an installation.

Surrey switches have their own specially moulded switch-plates and mounting blocks in place of the old-fashioned wooden blocks. They are quicker to wire and fix than ordinary switches and mount square and flush on the wall irrespective of errors in setting the box. As with all Clix products, Surrey switches are now marketed by Ediswan, thus providing a complete Ediswan electrical service.

Let us send you a sample switch with our catalogue and price list.

The low cost of Surrey switches will, we suggest, interest you.

THE EDISON SWAN ELECTRIC COMPANY LIMITED
155 Charing Cross Road, London, W.C.2, and branches
Member of the A.E.I. Group of Companies

tion basis for certain products (e.g., furniture) and, in one sense, it is only a development of the plywood technique.

The five huge laminated arches of the Waterloo entrance to the South Bank exhibition (see Fig. 10) showed what can be done with timber when little attention is paid to cost. A commercial application of the technique is the experimental glasshouse, 100 ft. long with a clear span of 32 ft., shown in Fig. 11. The arches are at 12-ft. 5-in. centres. Great strength is possible with this method of construction, and the clear spans and the beauty of the arch profile make this system of construction highly suitable for many buildings, including churches. Where cost is not an all-important consideration, architects might well consider this technique, although few firms yet specialize in it.

NEW HARDWOODS

The difficulty of obtaining licences for softwood is leading to the use, as substitutes, of the new commercial light hardwoods. Many of these are suitable for structural work, and there is little doubt that some of them will remain popular even when (and if) softwood again becomes freely available. The list of the hardwoods which are of value to the architect will grow with experience, but already it is formidably long, including such names as ekki, opepe, iroko, afara, obeche, tali, landa, agba, olon, and a host of others. It is not possible to deal with their value in this article, but they enable the architect to carry out work which would otherwise be impossible under the present restrictions, provided the client has the extra money to spare for these somewhat costly substitutes. However, the cost of many of the hardwoods freely available on the market today is much nearer the cost of softwood than the more traditional hardwoods and the extra cost can frequently be justified.

SEASONING

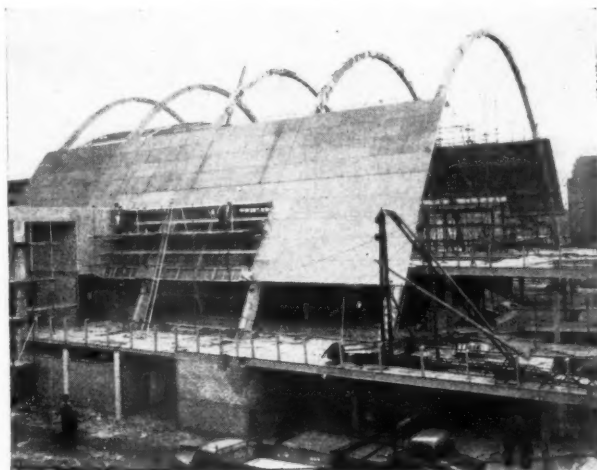
With imports so closely related to softwood consumption, it is natural that timber is not long in the yards of timber importers and merchants. The

result is that long periods of air-drying in merchants' sheds is now the exception rather than the rule, and the architect must, therefore, not only en-

sure that the timber to be used is adequately dry, but also make certain that it is properly stored on the site.

ARTHUR E. JONES

Right, Fig. 10, Waterloo Station Gate, South Bank, under construction. Application of lamination without great consideration of cost. Below, Fig. 11, economic application of lamination; experimental glasshouse at Bagfordbury. The laminates are 3½ in. wide, ¾ in. thick, and were scarf-jointed before assembly.



RECENT INFORMATION CENTRE ITEMS ON TIMBER

New timbers ...	13.98:	16.10.52
Grading softwood ...	13.97:	25.9.52
Wood screws (BSS) ...	13.96:	25.9.52
Timber drying ...	13.95:	25.9.52
Dry rot ...	13.94:	25.9.52
Names of timbers...	13.93:	4.9.52
Dry rot: new treatment	13.92:	4.9.52
Industrial timber trusses	18.103:	4.9.52
Floor boards ...	13.91:	17.7.52
Structural softwood:		
strength computation of	13.90:	10.7.52
Hardwoods ...	13.89:	10.7.52
FPRL Research, 1950 ...	13.88:	10.7.52
Light timber roof trusses...	19.153:	10.7.52
Painting woodwork ...	13.87:	3.7.52
Wooden doors ...	19.149:	29.5.52
Natural finishes for wood-		
work ...	13.86:	22.5.52
Suspended timber floors...	19.147:	3.4.52

ISA

Bison Prestressed Concrete will span up to 35ft... and needs no I.S.A.

Our own practical experience has shown us the truth of these statements.

SAVE STEEL AT LOWER COSTS—BISON prestressed is not offered merely as a means of saving steel in the present emergency, but it does this *competitively* with any other form of construction. Due to our mass production methods and the resulting large quantities which are turned out from all our factories at an ever increasing rate, it is in most cases **CHEAPER**. This is proved by the large number of orders constantly received from all over the country in conditions of free competition.

INCREASES SCOPE OF DESIGN—We can design and manufacture floors and roofs up to 35 ft. span by means of:—

1. Clear span Prestressed slabs.
2. Prestressed beams with Prestressed or ordinary R.C. slabs spanning between them.

Either scheme is *keenly competitive* with any other form of construction.

VERSATILITY—BISON can suit the individual conditions of your job, and BISON does it *competitively*. BISON units can be designed to be combined economically and efficiently with R.C., or Prestressed frames.

CONSTRUCTIONALLY COMPLETE—BISON units are constructionally complete, there are no other separate parts, topping or ceiling.

BISON'S PRACTICAL EXPERIENCE—Our many years of experience can help you to solve your problems with the maximum of economy and efficiency. Five strategically situated factories assure you of prompt delivery.

CONCRETE  **LIMITED**

LONDON • LEEDS • LICHFIELD • FALKIRK • EDINBURGH

SPECIALISTS IN PRECAST FLOORING SINCE 1919

THE INDUSTRY

A. From the Industry this week, Brian Grant reports on the Public Works Exhibition, a booklet on rust prevention and a new 13-amp. plug and socket

RUST PREVENTION

The British Iron and Steel Research Association has just published *The Fight Against Rust*, in which is discussed the work of the Corrosion Committee, founded in 1928 by the Iron and Steel Institute. The regular painting of all forms of steel is nowadays taken so much for granted that the average person never thinks of the enormous annual cost of corrosion. In America the figure is estimated at something like £2,000 million each year, and although the figure for Great Britain is only about one tenth of this amount, it still remains a pretty formidable sum—equivalent, if you like figures, to 50 million gallons of paint, enough to keep 16,000 painters busy the whole year round.

The booklet starts with several "case histories" which are interesting in that they show that design can often do much to minimize corrosion. Among the examples quoted are the railings outside Westminster Abbey, where the horizontals (2½ by ½ in.) are halved together and bolted with a fish plate beneath the joint. Hence there is easy lodgment for water and the surfaces cannot be painted, the result being that corrosion has burst the ½-in. bolts holding the joint. Rust, by the way, has roughly four times the volume of the steel from which it is formed, and this amount of expansion is enough to break bolts or rivets, and to crack concrete cladding. Contrasted with those of the Abbey are the railings of the new Waterloo Bridge, where the horizontals are simple tubes welded to the uprights, thus giving little opportunity for moisture or rust to lodge, and simple to paint all over. Another example shows the danger of using copper and galvanized steel pipe in the same water system, if water supplies are unsuitable. Small particles of copper may be dissolved and, if they are then deposited on the zinc lining of the galvanized steel, they will form a highly dangerous corrosion cell.

So far as atmospheric corrosion is concerned, humidity seems to be of less importance than the smoke and salts found in manufacturing towns or by the sea. With a relative humidity of less than 70 per cent, corrosion is virtually negligible, but in places like Sheffield it is high, two and a half times as high, for instance, as in a semi-industrial area like Woolwich, and

five times as high as in rural areas. The truly rust-resisting steels, like 18/8 chrome nickel, are virtually incorrodible, but are far too expensive for structural work. However, small additions of chromium and copper can increase corrosion resistance three times or more, because apparently a more compact and impermeable type of rust is produced.

With regard to surface finishes the booklet contains references to a priming paint, consisting of a mixture of red lead, zinc oxide and asbestine in a linseed oil medium, which may shortly become the subject of a British Standard. For metallic coatings, aluminium is regarded as roughly equivalent to zinc, but it has the disadvantage that it can be applied only by spray to large and heavy steel articles. The method used for applying a galvanizing coat is regarded as of less importance than the final weight of the coat per sq. ft. of surface.

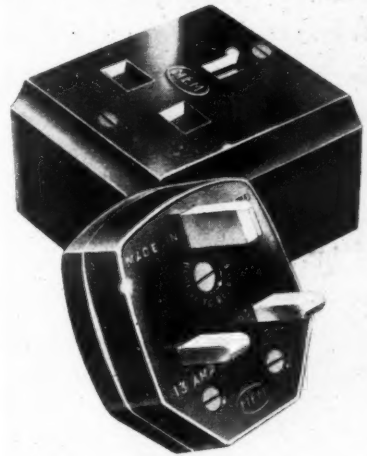
Finally, the booklet contains an outline of the fundamental research now being carried out at various centres throughout the country. For anyone who wants to be able to take an intelligent interest in what is going on, this booklet provides an excellent summary. Copies from BISRA, 11, Park Lane, London, W.1.

THE PUBLIC WORKS SHOW

Anyone who visited the Public Works and Municipal Services Exhibition should have been considerably impressed by the variety of plant shown, from large-scale quarry equipment to picks and shovels. A good deal of the plant was of interest mainly to the larger contractor, but the amount of mechanization now applied to local authority work, such as rubbish collection and road surfacing, gives one a good idea where some of the money one pays in rates goes to, though one gathered from the speeches at the opening ceremony that not all authorities are allowed to buy all the equipment they would like.

One of the most elaborate pieces of equipment on show (though too large to be really properly displayed) was the mobile quarry plant made by Goodwin Barsby of Leicester. The various units are shown in the photograph below, the whole assembly being capable of dealing with material direct from the quarry face, crushing and screening it to the required sizes, and delivering it to stock piles or by elevator into an overhead storage unit for gravity discharge into lorries. Equally impressive were some of the mixing and heating plants for road surfacing materials and for the automatic batching of concrete mixers. Some of the latter are "push-button" controlled with multiple weighing scales and coloured indicator lights, like a combination of Paddington signal box and a cinema organ.

At the other end of the scale one was reminded that local authorities also have to do such odds and ends of jobs as trimming hedges and the grass around gravestones. Even these processes have now been electrified. The Tarpen Engineering Co. of Ixworth Place, S.W.3, produces the "Hedgemaster"



Above, "MEM" 13-amp. plug and shuttered socket outlet, complying with BS 1363. Below, clipping a hedge with the "Hedgemaster."



trimmer in all normal voltages, or with portable petrol generators for use where no mains are within reach. A handy little device which gadget-minded readers may care to buy for themselves—much less trouble than snipping with those blunt shears you forgot to clean and grease when you put them away last autumn.

3-kw. SOCKETS

Ring main wiring with 13-amp. sockets and fused plugs—a method introduced soon after the war—has now become a fairly well accepted practice for new work, and most manufacturers have been producing the appropriate fittings for some time. The photograph, top right, shows a plug and socket in the new "MEM" range (to BS 1363), which is available in brown or ivory and both for surface and flush mounting. Prices are 40s. per dozen in brown; 42s. 4d. in ivory (both plus 15 per cent. PT).

Socket bases are in non-tracking porcelain, and the plugs are easily wired, all cable leads being cut to the same length. (Midland Electric Manufacturing Co. Ltd., Reddings Lane, Tyseley, Birmingham, 11.)

BRIAN GRANT



Mobile quarry plant made by Goodwin Barsby of Leicester

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

ENQUIRY FORM

I am interested in the following advertisements appearing in this issue of "The Architects' Journal." (BLOCK LETTERS, and list in alphabetical order of manufacturers' names please).

Please ask manufacturers to send further particulars to:—

NAME

PROFESSION or TRADE

ADDRESS

AJ 20.11.52

Buildings Illustrated

Iceland Tourist Information Bureau at 6b, Princes Arcade, Piccadilly, London, W.1. (Pages 610-611.) Architect: James Cubitt & Partners. Assistant-in-charge: G. V. Richards, A.R.I.B.A. General contractors: Holland & Hannen and Cubitts Ltd. Sub-contractors: photographic transparency, The Autotype Co. Ltd.; wall showcase, Mayfair Displays, cane furniture, Dryad Cane Furniture; aircraft model of Douglas "Sky-master," Z. A. Datkiewicz.

Offices at 8, St. James' Street, Derby, for the Leeds and Holbeck Building Society. (Page 612.) Architect: Samuel Morrison, A.R.I.B.A. General contractor: Kirkland (Derby) Ltd. Sub-contractors: artificial stone, Scandolo Ltd.; suspended ceilings, W. Proctor & Sons; patent flooring, Korkoid Decorative Floors Ltd.; central heating, F. & P. Davison; electric wiring, N. R. Kirk & Co. Ltd.; electric light fixtures, Merchant Adventurers Ltd., Troughton & Young Ltd.; door furniture, Wing & Webb Ltd.; signs, Oldham Sign Service Ltd.

Department of Human Ecology and University Health Service for the University of Cambridge, at Fenners, Cambridge. (Pages 613-616.) Architects: J. M. Macgregor, M.A., F.R.I.B.A., D. Wyn Roberts, M.A., A.R.I.B.A. General contractors: Coulson & Son Ltd. Quantity surveyor: Davis, Belfield & Everest. Sub-contractors: Asphalt, Cambridge Asphalt Co. Ltd.; reinforced concrete and fireproof construction, Kleine Floor Co. Ltd.; bricks, S. & E. Collier Ltd.; stone, Bath & Portland Stone Firms Ltd.; wood-block flooring, Horsley Smith & Co. (Hayes) Ltd.; central heating, G. N. Haden & Sons Ltd.; gas fixtures, The Eastern Gas Board; electric wiring, The Cambridge Electric Wiring & Repair Co.; electric light fix-

tures, Troughton & Young Ltd.; sanitary fittings, Shanks & Co. Ltd.; stairtreads, Hornton Stone Co.; door furniture, Dryad Metalworks Ltd.; casements, Crittall Manufacturing Co. Ltd.; folding gates, Bostwick Gate & Shutter Co. Ltd.; plaster, G. Cook & Sons Ltd.; metalwork, R. Dent & Son; tiling, Carter & Co. (London) Ltd.; furniture, Russell Furnishings Ltd.; cloakroom fittings, Cloakroom Equipment Co. Ltd.; signs, David Kindersley.

Houses in Ashley Close, Welwyn Garden City, Herts. (Pages 617-622.) Architect: Richard J. Nichol, A.R.I.B.A. General contractors: Yeomans & Partners Ltd. Sub-contractors: clinker concrete blocks, Broad & Co. Ltd.; structural steel (fabrication) Dawneys Ltd. (erection) Yeomans & Partners Ltd.; roofing felt, D. Anderson & Son Ltd.; cork tile flooring, Mundet Cork Products Ltd.; living room fire, Camelion Iron Co. Ltd.; gasfittings, Eastern Gas Board; boilers, Ideal Boilers & Radiators Ltd.; electric wiring, Eastern Electricity Board; electric light fixtures, Troughton & Young Ltd., Finmar Ltd., Allom Bros. (cross beam fittings); electric heating, Unity Heaters Ltd.; door furniture, James Gibbons Ltd.; aluminium casements, Williams & Williams Ltd.; joinery, Fuller Hills Ltd.; wallpapers, John Line & Sons, Ltd., Arthur Sanderson & Sons Ltd.; furniture, Dunns of Bromley, Finmar Ltd., Heal & Sons Ltd.

Correction

In our issue for October 30 we said that the general contractors for the shops for Messrs. Wyndhams, Worley (Properties) Ltd., G. Hoare, Murrays and Reynolds, Arundel Street, Portsmouth, were Messrs. John Hunt, Ltd. This was incorrect. The contractors were R. J. Winnicott, Ltd.



'Royal Flush' is our Trade Mark for the highest grade of Plywood Flush Doors veneered to architects' specifications.

Top photograph by courtesy of Desmond Tripp Ltd.

'ROYAL FLUSH' DOORS

(Guaranteed without qualification)
for Bristol's Colston Hall

The Colston Hall, one of the two large concert halls to be erected since the war, is another addition to our long list of important contracts. 'Royal Flush' doors are fitted throughout.

J. Nelson Meredith, F.R.I.B.A., City Architect, Bristol. T. S. Singer, A.R.I.B.A., A.M.T.P.I., Senior Assistant Architect in charge.

SOUTHERNS
LIMITED

HEAD OFFICE:

BOLD SAW MILLS, WIDNES, LANCs.

Branches at:

MANCHESTER • DUDLEY • LONDON • GLASGOW
COVENTRY • HANLEY • BRISTOL • KETTERING
NOTTINGHAM

• 20

Building a Future with **ELECTRICITY**

Thanks to all concerned in the building of new Power Stations and the extension of existing Power Stations, a record amount of new generating plant, with a capacity between 1,150,000-1,400,000 kilowatts, is being installed this year. And in the coming winter large industrial and commercial consumers are being required to reduce their peak load demands by a smaller amount than last winter and over a shorter period.

Care still needed

All this is good news; but care is still needed. If the coming winter is a hard one—unlike last year's mild winter—there is still a danger of overloading the available plant, with resulting inconvenience and loss of production in the factories. That is why the general public are still being asked to co-operate by going easy with their electricity in the early mornings and late afternoon, particularly on cold days.

To reduce yet further the risk of interruption, Industry is asked to ensure that it makes the most efficient use of power. If all play their part, both in industry and in their homes, the nation can benefit by all the advantages of increased production and improved amenities that the electrical age has in store.

*For more production—
Use power WISELY!*



*Hardwoods
Veneers
Armourply
Plywood Products*

130-150 HACKNEY ROAD
LONDON · E.2

TELEPHONE: SHOREDITCH 7654 (10 Lines)



has stood the test of time

Now specified all over the country for Public Buildings, Hospitals, Schools, Food Stores, etc.
As one of the originators of this type of surface coating, we recommend "Charterplast" with the utmost confidence.

Write for literature and specification to the manufacturers:

CHARLES TURNER & SON LTD

BLOOMSBURY HOUSE, 165, HIGH HOLBORN, LONDON, W.C.1



*Sharps of Burton
for Joinery of Quality*

SHARP BROS. & KNIGHT LTD.
Burton-on-Trent
Phone: Burton 4851 (5 lines)
London Office: Lion House,
Red Lion Street, Richmond
Surrey. Phone: RICHmond 0165/6



saves 60 vehicles

IN BIRMINGHAM DAIRY GARAGE FIRE!

2nd July 1952

Associated Fire Alarms Ltd.
Leicester.

Dear Sirs,

A fire broke out at our Manchester Street Depot at 2 a.m. on Sunday morning, 22nd June. The alarm bell connected to your apparatus sounded and automatically called the fire brigade. It also awakened one of our employees who resides on the premises and he was able to get down and open the doors for the fire brigade and begin to attack the fire with a portable extinguisher.

The result was that we lost one vehicle, but none of the other sixty odd vehicles was damaged.

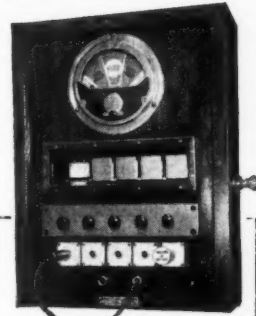
We thought you would be interested to know of the success of your apparatus in preventing extensive damage to our vehicles and property.

May we also mention the excellent service given us by Mr. Wharfe after the fire.

Yours truly,
Midland Counties Dairy Ltd.

signed. M.S. Munro.
Secretary.

Copy of letter from
The Midland Counties
Dairy Ltd., Corporation
St., Birmingham
4. To Associated
Fire Alarms Ltd.,
Leicester.



This panel at the Fire Station automatically warns the brigade at the inception of an outbreak in any building protected by an A.F.A. installation. Protection is positive through sensitive electric detectors linked by wire with the indicator panel in the Fire Station.

Let us send you particulars!

ASSOCIATED FIRE ALARMS LTD.

Head Office & Works:
ST. ANDREW ROAD, WALTHAMSTOW, LONDON, E.17
79 West Regent Street, Glasgow C.2.
54 Halford Street, Leicester

SERVICE IN ALL MAIN CITIES

Manufacturers of Pearson, May-Oatway and National Tubular fire detectors

TAS/AFA.19



What will happen in 1967?

... A bus service to the moon?

... or, perhaps, merely

atomic power

for all Britain's needs?

And what of our present

buildings — our factories, our

blocks of flats, our houses?

One thing is certain — if ARBOLITE and

ARBOMAST was used when the windows

were fitted — those windows will be as perfect

in 1967 as they are in 1952

ARBOLITE METAL CASEMENT PUTTY has excellent keying properties and ensures a tight, tough, waterproof joint adding considerably to the life of metal windows.

ARBOMAST B.1 BEDDING MASTIC is equally suitable for bedding frames into brick or wood surrounds, or for completely filling the interstices when composite units are used.

ARBOLITE AND ARBOMAST B1

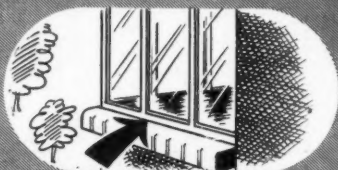
Full descriptive literature on request

ADSHEAD RATCLIFFE & CO LTD BELPER DERBY • Telephone Belper 351-2



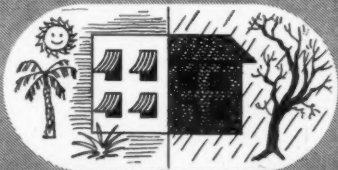
ARBOLITE

For GLAZING metal windows



ARBOMAST B1

For BEDDING metal windows



in any climate

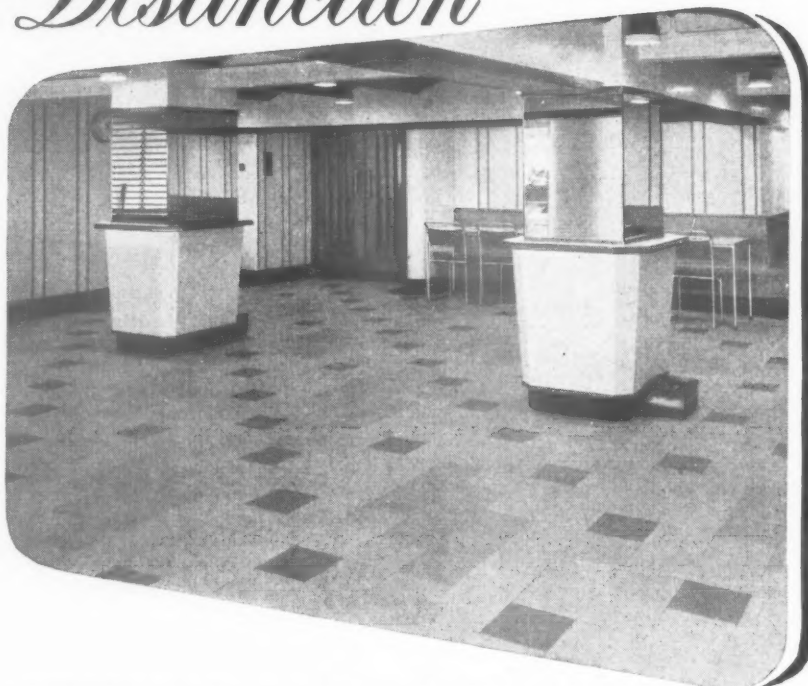
Floors of Distinction

LITHOCRETE REGD
INDUSTRIAL FLOORING

COLOURPHALT REGD
COLOURED MASTIC ASPHALT

SEMASTIC
DECORATIVE FLOORING TILES

TRINASCOLIN REGD
HIGH GRADE LINOLEUM



THE LIMMER & TRINIDAD LAKE ASPHALT CO LTD

STEEL HOUSE, TOTHILL STREET, WESTMINSTER, S.W.1. BRANCHES THROUGHOUT THE COUNTRY



SPECIFICATION

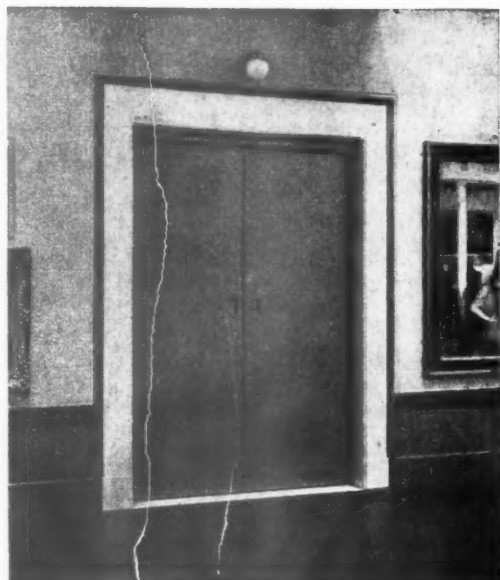
1952 EDITED BY
F.R.S. YORKE FRIBA

SPECIFICATION maintains an unrivalled position among architects, engineers, surveyors and others for supplying information to help them in drawing up their Specifications of Works. It is an up-to-date reference book, revised each year, which brings into one volume all the essential facts—comprehensively cross-indexed—concerning both old and new materials and systems of building practice. The current volume has thirty-five sections, covering the various branches in the building trades (with Model Specification Clauses appended to nearly every section) and arranged in sequence as laid down by the British Standards Institution.

← actual size is 13in. by 9in. Over 1,100 pages. Bound in stout boards. Price £1 5s. net; postage 1s. 10d. inland, 2s. 8d. abroad.

The standard technical reference work for architects, surveyors and engineers, and for all interested in building.

THE ARCHITECTURAL PRESS 9-13 Queen Annes Gate London S W 1



Dreadnought Doors—
Two-leaf Sliding Pattern.

Illustrated Catalogue
on Request to

DREADNOUGHT FIREPROOF DOORS (1930) LTD., 26 VICTORIA ST., WESTMINSTER, S.W.1

Telephone: ABBey 1411

FIRE— And The Nation's Paintings

In a few minutes, irreplaceable art treasures have been destroyed. Openings through which fire could pass in buildings holding national treasures are sealed against this contingency by fitting

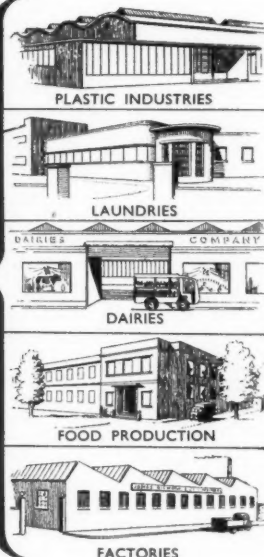
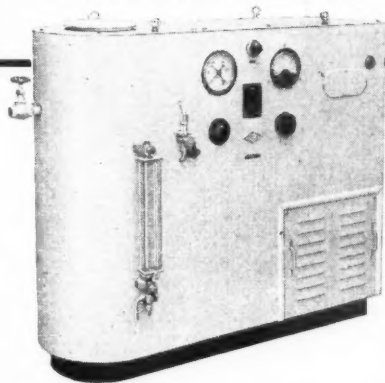
DREADNOUGHT FIRE-RESISTING DOORS

Installed at The National Gallery, The Tate Gallery, The Victoria and Albert Museum, and many more national buildings.

STEAM RAISING

—the easy way

The easy way of raising steam is without the labour, dirt and fuel difficulties which are normally associated with boiler houses. The Autolec Electrode Steam Raiser produces steam in any quantity automatically and silently and is readily installed. That is why it is being specified by many of the leading industries throughout the country.



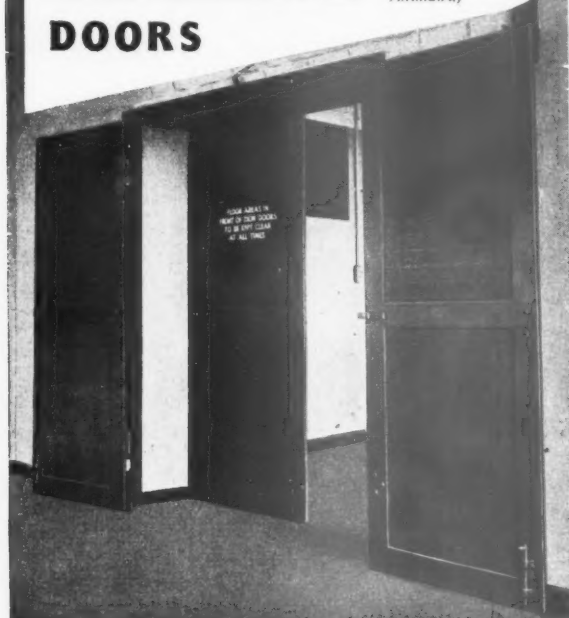
ELECTRODE STEAM RAISERS

DESIGNED & MANUFACTURED BY G.W.B. ELECTRIC FURNACES LTD., DIBDALE WORKS, DUDLEY, WORCS.
Proprietors: GIBBONS BROS. LTD. AND WILD-BARFIELD ELECTRIC FURNACES LTD.

M-W.297

DURASTEEL FIRE RESISTING DOORS

Example shows
"DURAPANEL"
Twin-Leaf Ware-
house Doors to
F.O.C. Specification.
(Courtesy of Archi-
tect, Cecil H. Elsom,
A.R.I.B.A.)



DURASTEEL LTD., OLDFIELD LANE, GREENFORD, MIDDX. WAXLOW 1051



The paint trade is using our METALLIC LEAD PIGMENT for this kind of job.

In a few words, Spelthorne Metallic Lead Pigment is 99.5% finely divided metallic lead in linseed oil or other media. It protects metals from corrosion and wood from decay. It flows easily, covers well and forms the base of chlorinated rubber paints. Lead is now free of control, and supplies are easier.

Protection of property with Metallic Lead Paint will save maintenance costs.

Samples and prices from:—

Witco Chemical Co., Ltd., Bush House,
Aldwych, London, W.C.2 or:—

SPELTHORNE Metals Ltd.

Berger House, Berkeley Square, London, W.1.

28/6

TANTIRON

S I L I C O N I R O N C A S T I N G S

and their use in the Chemical Industry

Tantiron, the registered trade name applied to Silicon Iron Castings, was first cast and produced on a commercial scale by The Lennox Foundry Co. before 1910, so we are well justified in our claim that it is the first—and still the best—high silicon resisting iron.

Tantiron is manufactured into Pumps, Valves, Dephlegmators, Pipes, Cocks, Absorption Towers, Pans, Reaction Vessels, Coolers, etc.

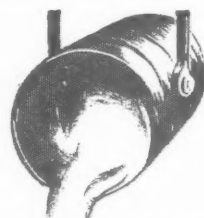
PHYSICAL PROPERTIES

	Cast Iron	Tantiron
Density	7.3	6.8
Tensile strength, tons per sq. in. ..	9-10	9-10
Transverse strength of lin. x lin. bar ..	2,500 lbs.	1,600 lbs.
Crushing—lin. Cubes	40 tons	35-40 tons
Melting Point	1,250 C.	1,400 C.
Hardness	1	1.6
Heat conductivity	10	8
Electrical resistance	8	10
Resistance to corrosion	1	1,000
Contraction allowance in casting	$\frac{1}{8}$ " per ft.	$\frac{1}{16}$ " per ft.

We shall be pleased to carry out corrosion tests using your reagents or arrange for Tantiron samples to be forwarded to you should you prefer to carry out such tests yourselves.

LENNOX FOUNDRY CO. LTD.

Tantiron Foundry, Glenville Grove, London, S.E.8

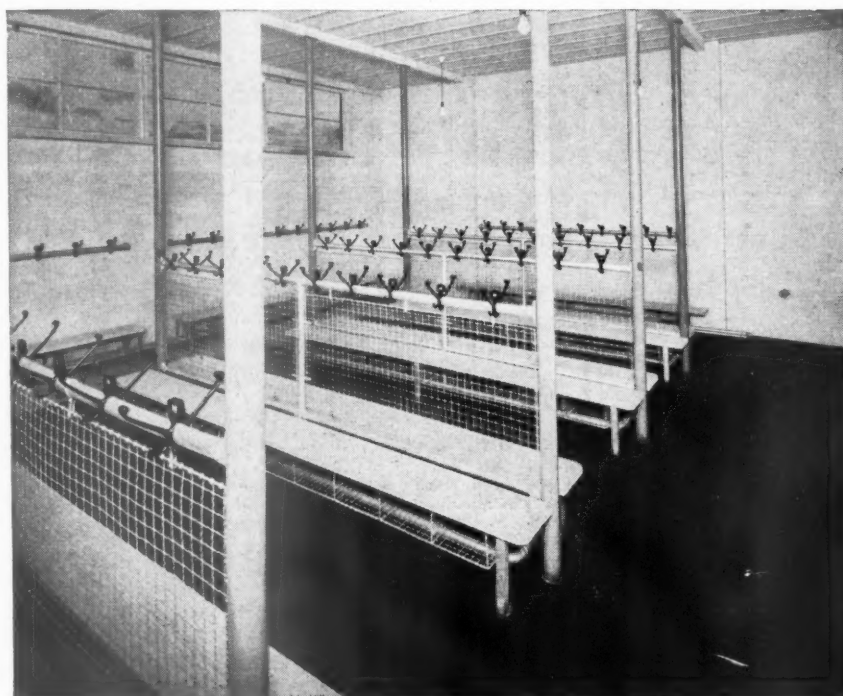


TANTIRON RESISTS

SULPHURIC ACID
NITRIC ACID
ACETIC ACID
TARTARIC ACID
CHROMIC ACID
COPPER SULPHATE
NICKEL SULPHATE
IRON SULPHATE
ZINC SULPHATE
AMMONIUM SULPHATE
ETC., ETC.



Cloakroom equipment installed at Donnington Wood Infants' School, Salop.
County Architect : A. G. Chant, F.R.I.B.A.



Cloakroom scheme fastened to existing Stanchions.



Cloakroom Equipment Ltd. is concerned solely with the manufacture, fabrication and erection of cloakroom and clothing storage facilities and allied equipment for all purposes, offering a specialist service fully qualified for the correct interpretation of architects' needs and specifications.

**CLOAKROOM
EQUIPMENT
LTD.**

STATION STREET
BROMSGROVE, WORCS.
Tel. BROMSGROVE 2962

HOUSES,
FLATS,
SCHOOLS,
HOSPITALS,
FACTORIES



3 ST. JAMES'S SQ. S.W.1  TRAFALGAR 7833

THE
**DEMOLITION &
CONSTRUCTION**
COMPANY LIMITED

EXTENSION TO THE FACTORY OF THE BUSHING CO. LTD.
HEBBURN ON TYNE.

Architects : Messrs. Cackett, Burns Dick & MacKellar

Two ways to HEAT CONSERVATION

① DRAUGHT EXCLUSION

will reduce the loss of heat through the average window by at least *half*, and through doors by an even greater amount. The actual rate of cold-air infiltration, the source of all draughts, can in turn be reduced by anything up to 95%, according to type of construction.

EXAMPLE: D/H Sash Windows of wood, 5' 2" x 2' 8", average length and width of gap, 18' 0" x $\frac{1}{8}$ ", average wind speed 10 m.p.h.

The two HERMESEAL strips make a perfect draughtproof seal when window is closed



BEFORE draught-exclusion = 1903.0 cu. ft. per hr.
AFTER " " = 264.6 cu. ft. per hr.
PREVENTION achieved = 1643.4 cu. ft. per hr. or 86.1%

② ROOF INSULATION



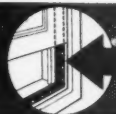
will reduce the loss of heat through a roof-area by at least 70%. This loss, in the average house, is about *one-third* of all the heat lost in various ways from the structure as a whole.

EXAMPLE: Average "U" values of a number of Pitched roofs of NEW but varying construction.
"U" = B.Th.U./sq. ft./hr./1 deg. F.

BEFORE insulation (Desirable standard 0.20) = 0.43
AFTER insulation by 1" bitumenised glass silk = 0.13
PREVENTION achieved = 0.30 or 69.7%

Specify DRAUGHT EXCLUSION and ROOF INSULATION by HERMESEAL. No higher degree of efficiency in the conservation of heat and the saving of fuel can be achieved in any already existing building. Surveys and installations are carried out by our own skilled staff throughout the country. Write for full details.

DRAUGHT EXCLUSION & ROOF INSULATION BY



HERMESEAL
means warmer homes

BRITISH HERMESEAL LIMITED
Head Office:—4 PARK LANE, LONDON, W.1
Telephone: GROsvenor 4324 (3 lines)

SAVE UNDERCOAT TIME HERE AND HERE DECORATION

"Time saved is money earned." The intervals between the various stages of plastering and finishing can be drastically curtailed by using "Sirapite" Browning, the ideal backing coat. The setting coat can be applied immediately the rendering has set hard—normally in about two hours—and decoration can be completed much earlier than usual.

Time and labour are saved, and scaffolding is released promptly. "Sirapite" Browning will not expand or contract once it has set; it contains no injurious alkalis, has a high covering capacity, reduces condensation, and has good thermal, sound and fire insulating properties.

"Sirapite" (REGD) BROWNING

The Rapid-Setting PLASTER UNDERCOAT

(Retarded Hemi-hydrate), Class B, type 'a'. Made by the makers of "SIRAPITE" (Anhydrous), Class C, "SIRAPITE" BOARD FINISH (Retarded Hemi-hydrate), Class B, type 'b', MOUNT-FIELD COARSE PLASTER (Hemi-hydrate), Class A. All conforming to B.S. 1191.

SPECIFICATION BOOKLET free on request. Full technical service available.



THE GYPSUM MINES LTD.
MOUNTFIELD,
ROBERTSBRIDGE, SUSSEX
Phone: Robertsbridge 80
and at Kingston-on-Soar, Nottingham

New Tucker/SIMMERSTAT VARIABLE HEAT CONTROL SWITCHED SOCKET



The new Tucker/Simmerstat Switched Socket makes available economical heat control for Domestic and Industrial portable appliances. Simmerstats built into Electric Cookers and Hotplates are well known and now a 3 pin Switched Socket incorporating the Simmerstat enables other appliances to be similarly controlled. The Simmerstat gives a range of control from zero to full heat, operating by automatically switching "ON" and "OFF", variable according to the dial setting. The heat is regulated to any desired level and current consumption accordingly reduced by at least 50%.

SIMMERSTAT is a registered Trade Name of **SUNVIC CONTROLS LTD.**

J. H. TUCKER & CO. L^{TD}
KINGS ROAD, TYSELEY, BIRMINGHAM, 11

Phone: ACOcks Green 0616-7

Grams: Switches, Phone BIRMINGHAM



PERCOLATORS



CONVECTION HEATERS



TEA URNS



ELECTRIC FIRES

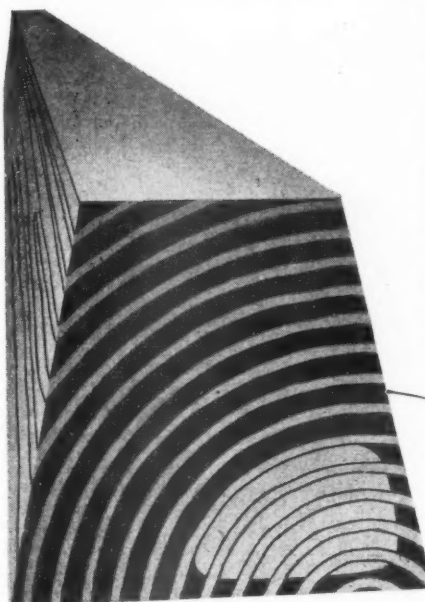
FLOOR-FILLET
PRESERVATION

WOLMAN

'Tanalith'

DEFENCE

IN DEPTH



Cross-cutting a "Tanalised" floor-fillet reveals that the whole of the sapwood and part of the heartwood is impregnated.

With small sized trees being used more and more to meet the demand for building timber, deep preservation is of vital importance. The sapwood content of timber cut from thinnings is very high and has little resistance to decay. Vacuum/Pressure impregnation plants are sited throughout the country. For details write to :

HICKSON'S TIMBER IMPREGNATION CO. (G.B.) LTD.

Castleford,
Yorks.
Castleford 2607/9.

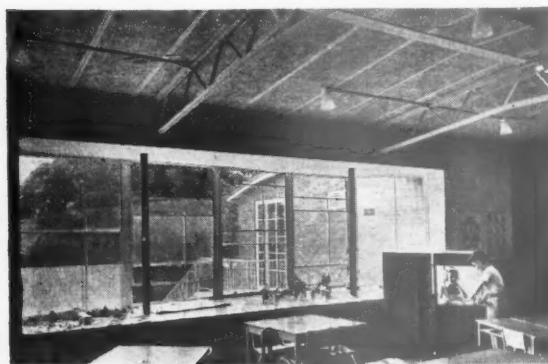
36, Victoria Street,
London, S.W.1.
ABBey 1477/8

'Tanalised' Timber

Thermacoust

CHANNEL REINFORCED
WOOD WOOL ROOFING SLABS

Were used in the new Cavendish Primary School, Middlesex, and in 12 schools in the same programme



Cavendish Primary School, Chiswick.
County Architect: C. G. Stillman, F.R.I.B.A.

- ★ For Flat or Pitched roofs
- ★ NO purlins needed at less than 7 ft. centres
- ★ NO other insulating material has greater structural strength
- ★ NO ceiling essential; high sound absorption if left bare

For full details, information sheets and prices write to:—

T.14

THERMACOUST LTD., 39 VICTORIA STREET, LONDON, S.W.1. (Abbey 2738)

"FORESIGHT"

MAKERS OF THE FINEST GRATES



THE "ROSSLYN"

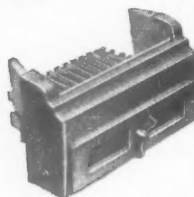
Oven-Over-Fire All Night Burning
Combination Grate

The Cooker for all purposes



THE "HAVEN"

Continuous Burning Fire for
Economy, Efficiency and Comfort



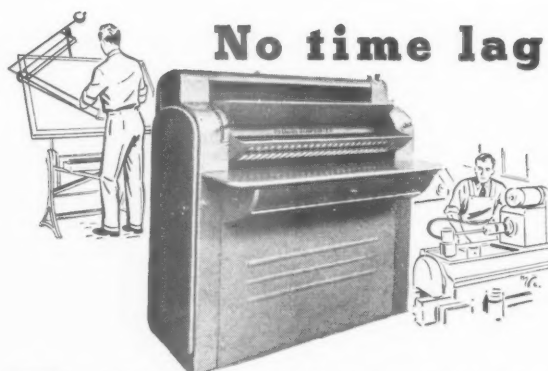
The above models have been approved by the Ministry of Fuel & Power

Please send for further details

SAMUEL SMITH & SONS LTD

Beehive Foundry

Smethwick 41. Staffs



The Duplex Ozaprinter

combines copier and developer in one compact machine, operated by one person who sits in comfort simply feeding in the sheets. The result is perfect, finished Ozalid prints; quicker, cheaper and easier than ever before.

NOTE THESE FEATURES

- The operator sits, avoiding fatigue and waste of time.
- All controls are within easy reach.
- Delivery of prints at front of machine facilitating easy handling and stacking.
- Single, high intensity, high pressure mercury vapour arc tube ensuring even illumination throughout the whole printing width.
- Glass cylinder revolves around stationary lighting unit ensuring perfect contact and eliminating print slipping and wear.
- Faster printing and immediate dry copies.



POST THIS COUPON
FOR FULL INFORMATION
To the OZALID CO. LTD.
41 LONDON WALL
LONDON E.C.3

Please forward full details of the
Duplex Ozaprinter

NAME

ADDRESS

Branches & Agency Stockists throughout the U.K. & Eire

THREE GOOD JOINTS ...

FOR COPPER TUBES



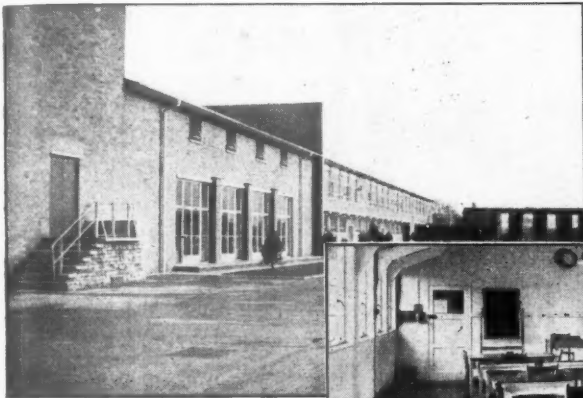
STANDARDIZED
COMPLYING WITH THE
LATEST BRITISH STANDARDS
...QUALITY PRODUCTIONS YOU
CAN SPECIFY WITH CONFIDENCE

LONDON REPRESENTATIVE

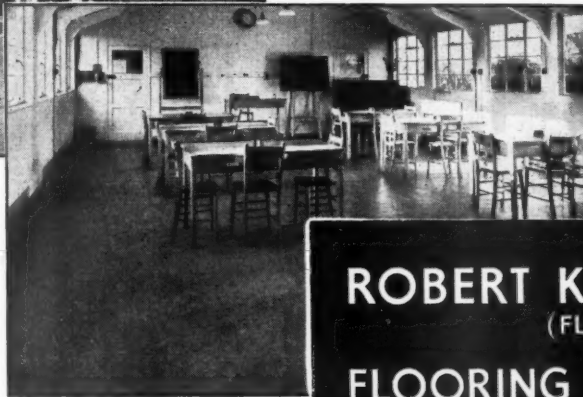
Mr. H. V. Nicholls, 40, Lamberhurst Road, West Norwood, London, S.E. 27
Telephone: Gipsy Hill 4148

COMPRESSION JOINTS LTD

TYBURN ROAD · BIRMINGHAM 24



BAGULEY HALL SECONDARY MODERN SCHOOL,
WYTHENSHAW.



ROCHDALE
GIRLS' HIGH SCHOOL
CLASSROOM EXTENSION.

it's on the level

KERLINE—embodies durability, resilience and colour fullness.

KERTEX—(rubber latex/cement) non-slip resilient composition.

KERLITE—jointless composition, fire, oil, grease resistant.

Technical Advice and Booklet available on request.

ROBERT KERR & SONS
(FLOORINGS) LIMITED

FLOORING SPECIALISTS

1-5 SYKES STREET
MANCHESTER 15

TEL: BLACKfriars. 2186 & 5280



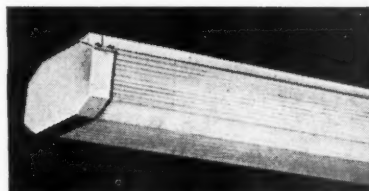
BY APPOINTMENT MANUFACTURERS OF ELECTRIC LAMPS TO THE LATE KING GEORGE VI.

Choose **Crompton** and save in 4 ways

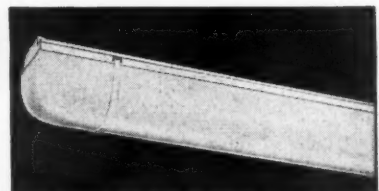
- Get more light for your money
- Save on maintenance
- Save on depreciation
- Save on installation

YET for all this Crompton quality fittings are offered at moderate prices. Check for yourself from the examples shown.

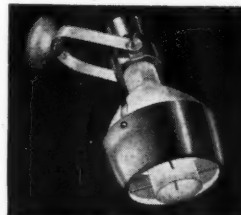
A Crompton Lighting Engineer will gladly discuss your problems with you.



AR 2531 with enclosed fluted opal diffuser for 5 ft. 80 watt lamps £15 . 5 . 4d P.Tax £3 . 16 . 4d



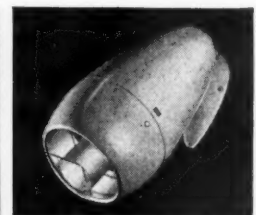
AR 1531 enclosed plain opal diffuser for 5 ft. 80 watt lamp. £7 . 10 . 0d P.Tax £1 . 17 . 6d



A 505/6 Adjustable Spotlight Bracket and Control Ring for use with Crompton 150w Spotlight reflector lamp. £1 . 1 . 2d



A 511 Adjustable recessed pattern fitting for use with 150 w spotlight reflector lamp. £2 . 17 . 6d



A 509 "COMET" adjustable spotlight fitting for 150 watt spotlight reflector lamp. £2 . 5 . 0d

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

Telephone: CHAncery 3333

Telegrams: Crompark, Estrand, London

HALL'S

LARGER BUILDINGS

FOR EVERY COMMERCIAL NEED



Part of a large installation supplied by Hall's

HALL'S ARE THE LARGEST MAKERS, AND OFFER THE WIDEST RANGE OF BUILDINGS WITH ALTERNATIVE SPECIFICATIONS AND SINGLE SPANS FROM 10 FT. TO 30 FT.

Hall's large timber buildings, fully sectional and complete for rapid and easy erection, are available as permanent or temporary erections. Roofing felt and glass are supplied, and we welcome enquiries from Architects and Public Works Contractors. Alternative specifications and single spans of from 10 ft. to 30 ft. give you the widest choice at the most economical price. NO TIMBER LICENCE REQUIRED. Let us solve your large building problems. Write to:—

ROBERT H. HALL & CO. (KENT) LTD.

30-41 PADDOCK WOOD, TONBRIDGE, KENT

School & Nursery

FURNITURE & EQUIPMENT



Craftsmanship in Design & Construction

R.W. WHITTLE LTD, MONTON, ECCLES, MANCHESTER

Suppliers to the Leading Educational & Public Authorities throughout the world

You want the
best Hardboard
—insist on—

FIBONITE

it's
all wood!

FOUNDATIONS

FOR HOUSES AND OTHER SMALL

STRUCTURES by W. H. Elgar, MA, MENG, AMICE,

FRICS Forewords by Noel Dean, MA
and James Macgregor, FSA

How to arrive at an adequate, safe foundation design whatever the soil and subsoil; how to avoid needless waste of money below ground level; how to test the behaviour and physical properties of subsoils. The book contains 92 pages with 52 line illustrations.

Price 12s. 6d. net, postage 5d.

THE ARCHITECTURAL PRESS 9 Queen Anne's Gate SW1

TO BOROUGH ARCHITECTS BOROUGH SURVEYORS WATERWORKS ENGINEERS

How many times have you had to wait for a misfiled or missing drawing, or tried to decipher a curled tatter representing a drawing . . . ?

PLANDEX

Ensures instant visible location: eliminates—curling, creasing, rubbing, misfiling, mutilation, and untidiness. Costs 1/4d. per drawing, 50 drawings to a D.E. Plandex Pack. All drawing numbers visible. 3 or 4 packs will nest in existing Planfile drawer. Packs to cover all drawing sizes. Further particulars from any D.O. supplier or—

PLANDEX LTD. DRIMNAGH, DUBLIN

Planex your new drawings!

THE PESTCURE TREATMENT

for dry rot and woodworm

has been proved pre-eminent in over one thousand contracts within the last three years. Amongst those we have been privileged to work for are:

Architects and Surveyors

John Adams, A.R.I.B.A.
C. D. Andrews, F.R.I.B.A.
Archard, Worrow & Hardy, F./A./A.R.I.B.A.
Arnold and Son.
J. Barrington-Baker, F.R.I.B.A.
H. T. B. Barnard, F.R.I.B.A.
W. Braxton Sinclair & Partners, F.R.I.B.A.
Bridgewater and Sheppard, F./A.R.I.B.A.
Martin Briggs, F.R.I.B.A.
Basil Briggs, A.R.I.B.A.
C. Bernard Brown, L.R.I.B.A.
Carter Jones.
Chesterton and Sons.
Clifford, Tee and Gale.
Cooke and Arkwright.
Donald Cottage and Company.
Morton Cowie, A.R.I.B.A.
A. I. Cripps, A.R.I.B.A.
Coy and Wainwright.
Ellis Clarke & Gallanough, F./F.R.I.B.A.
Lionel H. Fewster & Partners, L.R.I.B.A.
W. Fuller, Moon and Fuller.
Gale Heath and Company.
Philip and George Gean.
Gordon Jackson and Partners, F.R.I.B.A.
Goodman and Mann.
Gordon and Fitch, F.R.I.B.A.
Wallace James Gregory, F.R.I.B.A., F.R.I.C.S.
G. Grey Wornum, F.R.I.B.A.
Hallett Fox and White.
E. C. Harris and Partners.
H. J. Hewlett, F.R.I.C.S., F.A.I.
Hiscock and Duncan Scott.
W. P. Horsburgh and Son, F./A.R.I.B.A.
Gerald F. Jones, C.B.E., F.R.I.C.S., F.A.I.
Francis F. Jones and Sons.
Gerald Lacoste, M.B.E., F.R.I.B.A.
Kenneth Lindy, and Joseph Hill and Partners, F.R.I.B.A.
Ian Lindsay, B.A., F.R.I.B.A.
Llewellyn Smith & Waters, F.R.I.B.A.
Alister MacDonald, F.R.I.B.A.

E. H. Brooke

Boulton, M.C., M.A., (Cantab.), Diploma in Forestry, whose organisation, Pestcure, Ltd., undertakes the treatment of large and small affected buildings in any part of the country or the world and whose personal services are also available as a consultant or expert witness.



Eric Marchant, F.R.I.C.S.
D. Plaskett Marshall, F.R.I.B.A.
Raymond McGrath, F.R.I.B.A.
Oswald P. Milne, F.R.I.B.A.
Miles and Wills, A./A.R.I.B.A.
Guy Morgan, F.R.I.B.A.
R. Mountford Pigott, M.C., F.R.I.B.A., J.P.
James Munro and Sons.
A. H. Mottram and Son, F./A.R.I.B.A.
Leslie Raymond, F.R.I.C.S., F.A.I.
L. Robinson, L.R.I.B.A.
Keith Roberts, L.R.I.B.A.
Alfred Savill and Son.
Raglan Squire, F.R.I.B.A.
Scott Johnson and Stamp.
Strutt and Parker.
C. G. Stillman, F.R.I.B.A.
Tooley and Foster, F.R.I.B.A.
Wetherall, Green and Smith.
Wheldon and Jones.
William Willett, Ltd.
Norman Wyatt, F.I.A.A., F.I.A.S.
Yorke, Rosenberg and Mardall, F./F./A.R.I.B.A.
P. J. Broomhall, F.R.I.C.S., F.A.I.
Camper Nicholson, Southampton Naval Architects.
H. J. Bell and Company.
Greville-Heygate and Company.
Bernard Thorpe and Partners.

FOR STRONGER TIMBER STRUCTURES



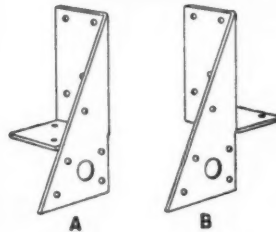
"BULLDOG" TIMBER CONNECTORS

are made in two types—double-sided and single-sided.



"TECO" Patent SPLIT-RING TIMBER CONNECTORS

are double bevelled to ensure easy insertion, and give greater load capacity.



MAC

TRIP-L-GRIP FRAMING ANCHORS

for use in all types of timber framing and for secondary structural connections.

For full details apply to the main distributors:—

MACANDREWS & FORBES LIMITED

2 CAXTON STREET, LONDON, S.W.1

Telephone: ABBey 4451/3

Stocks held by appointed distributors throughout the U.K. & Eire.

PESTCURE LTD., 30 CAVENDISH SQUARE,

LONDON, W.1. Tel: Regent 0704, Mayfair 3397.

Pestcure

Taylor made

TO SUIT ANY KITCHEN

Seven capacities from 21,000 to 70,000 B.T.U's per hour.

Designed in accordance with B.S.S. 758.

Approved by the Fuel Efficiency Dept. of the Ministry of Fuel and Power.

ROBERT TAYLOR & CO. (Ironfounders) LTD.

LARBERT • STIRLINGSHIRE

London Office and Showrooms: 66 Victoria Street, S.W.1
Also at the Building Centre, 26 Store Street, London, W.C.1



DOMESTIC

Tayco

BOILERS



FOR INFORMATION ON COPPER TUBES

Write for this 16 page publication

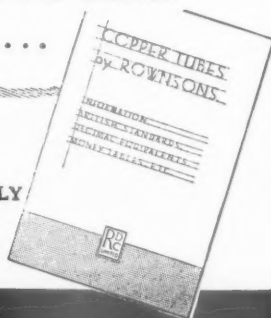
PRESENTING IN CONCISE FORM

- PROPERTIES
- B.S.S. SPECIFICATION DETAILS
- APPLICATION DETAILS
- WEIGHTS OF VARIOUS GAUGES

ETC.

ROWNSON'S TUBES

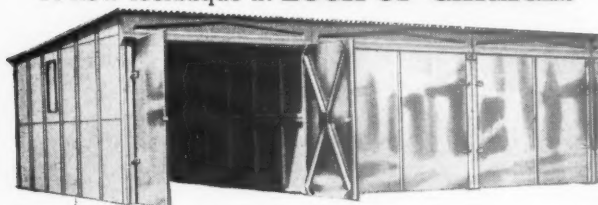
ARE THE MOST ECONOMICALLY
PRICED TUBES AVAILABLE



ROWNSON, DREW & CLYDESDALE LIMITED
225 UPPER THAMES STREET, LONDON, E.C.4

Established 1819 Phone: WAT. 6321

A new technique in LOCK-UP GARAGES



at half the cost of brick buildings



two



three



or more

With the present-day high cost of building materials and labour, BATLEY Multiple Concrete Garages offer tremendous economies. Employing the well-known Batley principle of tongued and grooved concrete units which are simply bolted together on a firm level foundation, these Garages can be erected by unskilled labour in hours instead of days. In addition to the big saving in initial cost, Batley Garages require no maintenance—they last a lifetime without attention. They are completely fireproof, weatherproof, rotproof and vermin proof. Wherever lock-up Garages are required—for Municipal Housing Estates, Hotels, Flats, Armed Services Camps, etc.—it will pay you to investigate.

at these low prices

No. of Garages	Base Size	Total Cost
2	16ft. 3in. x 16ft. 4in.	£125 - 0 - 0
3	24ft. 3in. x 16ft. 4in.	£180 - 0 - 0
6	48ft. 3in. x 16ft. 4in.	£345 - 0 - 0
9	72ft. 3in. x 16ft. 4in.	£510 - 0 - 0
12	96ft. 3in. x 16ft. 4in.	£675 - 0 - 0

Plus £55 per additional garage to any number required in one block.

BATLEY

MULTIPLE CONCRETE GARAGES

send for full details and brochure to—

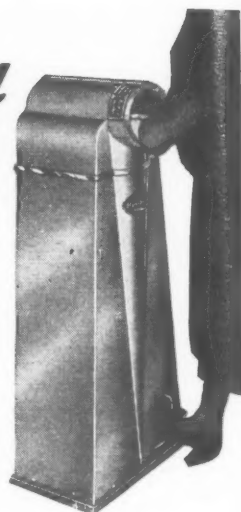
ERNEST BATLEY LTD., 63, Colledge Rd., Holbrooks, Coventry

Phone: 89245/6

Handy-Andy WARM AIR TOWELS

DRY HANDS AND FACES

swiftly, hygienically,
thoroughly at one quarter
the cost of paper towels at
less than one third the cost
of laundering, (The saving
is even greater if the cost of
replacements is included).



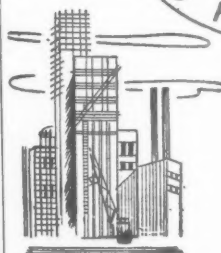
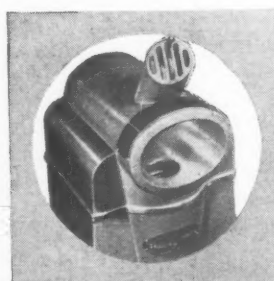
Handy Andy is the most
hygienic and economical
means of complying with
Section 42 of the Factory Act.
What you save will pay for
your Handy Andys in less than
a year.

Write for full details to:

QUIZ ELECTRICS LTD

160, High Street, Teddington,
Middlesex

Representation is required in some areas



Particularly suitable for houses,
factories, schools, hospitals and
public buildings where heat and
sound insulations are of vital
importance. Write now for
descriptive literature giving full
details of this unique material

LOGANS (VERMICULITE) LTD.

163 WEST GEORGE STREET, GLASGOW, C.2

Telephone CENTral 0274

JUST SAY

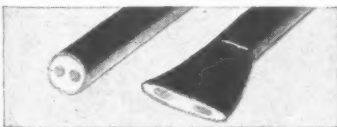
M.I.

IT STANDS FOR
MINERAL INSULATED
CABLE FOR
DISTRIBUTION
AND CONTROL



The main difference between "Pyrotanax" and other electric cables, the difference that gives this cable unique advantages, is that Pyrotanax cable is Mineral Insulated. So 'M.I.' it is, and we shall be using this abbreviation quite a lot in our future advertising. Another unique feature of Pyrotanax cables is that they have a seamless copper sheath. Pyrotanax cables are therefore inorganic and as a result are:—

★ Fire-resistant ★ Immune to water, oil and condensation



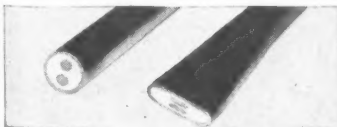
★ Corrosion-resistant

★ Non-deteriorating

★ Virtually indestructible

★ Vermin-proof (including White Ants)

★ Easily installed (needing no conduits)



Insulation still unimpaired after hammering flat.

PYROTENAX IS AN EXCLUSIVE TRADE-MARK NAME AND MUST ONLY BE USED TO DESIGNATE CABLES AND OTHER PRODUCTS MANUFACTURED BY THIS COMPANY AND ITS ASSOCIATES.

PYROTENAX LIMITED

Pyrotanax
CABLES

HEBBURN-ON-TYNE
PHONE: HEBBURN 32244/7

LONDON: Phone: ABBEY 1654/5 • BIRMINGHAM: Phone: MIDLAND 1245
GLASGOW: Phone: CENTRAL 2238 • MANCHESTER: Phone: BLACKFRIARS 6946

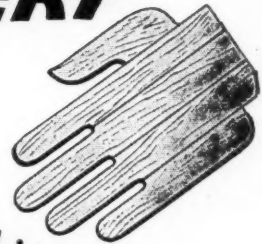
GD60

**Duncan
TUCKER**
for WINDOWS

**Duncan
TUCKER**
for DOORS

**Duncan
TUCKER**
for STAIRS

**For ALL
JOINERY**



you can hand it to

**Duncan
TUCKER**

DUNCAN TUCKER (Tottenham) LTD.
LAWRENCE ROAD, LONDON, N.15

Telephone: STAmford Hill 1212 (8 lines)

T.81

Brownall

**EASY-CLEAN
LABORATORY
FITTINGS**

In Chrome, Black-Bronze,
Polished & Lacquered Brass
Finish.

COMPRESSION Fittings
for Hospitals and Indus-
trial Building.

For 1/2 in. to 6 in. Tube.

Gunmetal Screwed
Fittings to B.S.
Table 1 and B.S.P.
Threads.

Solder (Capillary)
& Welding for all
Heating Work.

SEND FOR
CATALOGUES
DATA AND
PRICES ETC.



**HIGH JOINT
STRENGTH
FITTINGS**

• IN NON-FERROUS
METALS

DONALD BROWN (Brownall) LTD.
LOWER MOSS LANE MANCHESTER 15
 Tel: DEAnsgate 4754/5 Grams "DONABROW" Manchester.

"A.B.S."

HOUSE PURCHASE LOANS

Normal Advance:

70 per cent. of Valuation. Interest :
5 per cent. gross. (Borrower pays
Survey Fee and Legal Costs, totalling
1 per cent. of loan.)

Repayment by means of an Endowment
Assurance term not exceeding 25 years.

Houses in course of erection

Advances increased to 90 per cent. of the
controlled selling price.

Sitting Tenants:

100 per cent. advance considered.

Particulars from:—

The Secretary

A.B.S. INSURANCE DEPARTMENT

66 Portland Place, London, W.1

Tel: LAngham 5721

FIRST PUBLISHED IN AMERICA in 1945, this stimulating book is intended not only for the architect but for everyone who wants to plan, buy or build a new home or to re-plan an existing house or flat, making use of the latest materials and equipment. It describes the best way to plan the various rooms and how to heat, light and service them generally. It deals also with exterior design and contains a very large number of illustrations of the exteriors and interiors of houses recently built in America. The two authors are the editors of the *Architectural Forum*, and this book contains the results of their long experience of domestic building work generally.

TOMORROW'S HOUSE

A complete guide for the home-builder

By GEORGE NELSON and HENRY WRIGHT

Size 11 ins. by 8 ins. 214 pages, illustrated by many line-drawings and over 230 halftones. Price 25s. net, postage 1s. 1d.
Only a limited stock of copies available. Order promptly.

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

THROUGHOUT LONDON AND PARTICULARLY

EALING ACTON KENSINGTON

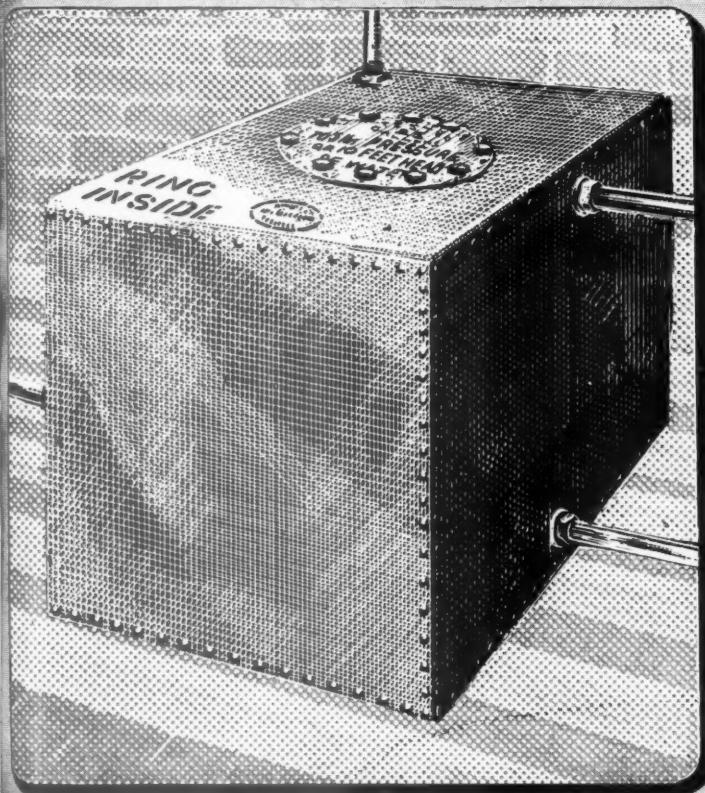
THIS AREA

RAWLINGS BROS
LIMITED

for Decorations & Building

ESTIMATES UPON REQUEST

KENSINGTON: 85, GLOUCESTER ROAD, LONDON, S.W.7. Phone: FRObisher 8161 (10 lines)
EALING: 37-38, HAVEN GREEN, EALING, LONDON. W.5. Phone: PERivale 1013/4



**TO THE ARCHITECT-
SURVEYOR AND BUILDER**

**Yours the problem-
Harveys the answer!**

Whenever the question of where-to-get, not only Tanks, but Cisterns and Cylinders arises—remember Harveys. Our illustration shows a typical "Harco" product—unsurpassed for soundness of construction and galvanized after manufacture for lasting use. Get all supplies from your Builders' Merchant. For full information of all ranges write for Pocket List A.J.873

Harvey

G.A. Harvey & Co. (London) Ltd.
Woolwich Rd. London, S.E.7

GH/GM12/46

GH/GM12/46

W & M NEGUS LTD
Building Contractors

Station Works,
 King James St.,
 Southwark, S.E.1

Telephone:—
 Waterloo 5474
 (3 lines)

A
RONUK
 PRODUCT

COLRON
 WOOD DYE

THE "I-COAT" TRANSPARENT, PENETRATING, PERMANENT,
 PRESERVATIVE STAIN FOR ALL NEW WOODWORK.
It cannot raise the grain

ADVISORY SERVICE
 Shade cards, full directions and working
 instructions for contractors' use, estimates
 and 50 years of specialists' experience are at
 your service.

RONUK Ltd., Portslade, Sussex
 Polishing Contract Depot, 16 South Molton Street,
 London, W.1

**12 SHADES
 ALL SIZES**

THE COLLEGE OF ESTATE MANAGEMENT

Incorporated by Royal Charter
 St. Albans Grove, Kensington, W.8
Day and Evening Courses for the following Examinations:—
 Royal Institution of Chartered Surveyors (Building,
 Quantities and Valuations subdivisions), commence in
 April. (Completed application forms must be submitted
 by December 31st.)

University of London Degree of B.Sc. (Estate Management),
 commence in October. (Day courses only. Completed
 application forms must be submitted by May 31st.)

Postal Courses

The Royal Institution of Chartered Surveyors,
 Institution of Municipal Engineers,
 B.Sc. (Estate Management), commence in January and July.
 Town Planning Institute, commence in May and October.
 Royal Sanitary Institute, commence in April and
 October.

Applicants for Postal Courses should submit their forms
 two complete calendar months before the date on which
 the course begins.

Applications to: The Secretary. Telephone: Western 1546

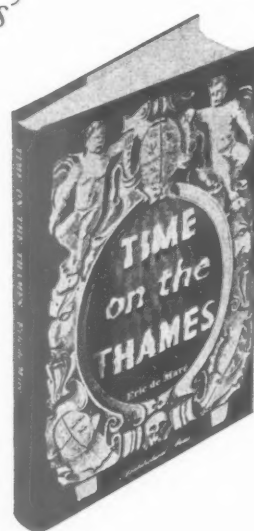
As would be expected after three and a
 half centuries of tradition and experience,
 every Durtnell job carries the unmistak-
 able stamp of honest English craftsmanship

Durtnell
 Builders since 1591

R. DURTNELL & SONS LTD, BRASTED, Nr. SEVENOAKS, KENT
 Tel: Brasted 105-6

SEVENOAKS, St. John's Hill. OXTED, Station Road, East.
 Tel: Sevenoaks 3186 Tel: Oxted 498

*a seasonable suggestion from 9 Queen Anne's
 Gate, S.W.1: give 'Time on the Thames'
 for Christmas. A delightfully-written
 book, it contains over 120 brilliant
 photographs, mostly by the author,
 Eric de Mare, with map endpapers;
 costs 21s. net (postage 6d.);
 and is published by The Architectural Press London*



CLAS
 Advertis
 Manager,
 15, Queen
 should re
 morning f
 paper.
 Replies
 care of "
 given abo

Public
 25a.

The en
 advertis
 Office of
 Employm
 aged 18-
 inclusive
 accepted
 of Vacan

I
 Vacancy
 (£332 10s.
 planning
 applicatio
 S.E.1. quo

Applica
 tions on t
 partment

(1) CH
 Applica
 who have
 its equiva
 drawing
 capable a
 knowledge

The sc
 227 10s.—

(2) SEN
 Can dida
 good exp
 buildings
 supervisi
 ment. P
 are Corps

The sc
 225—4795

The fo
 mentione
 The cor

case will
 qualificat
 applicant

payable
 of remun
 Prefere

possessin
 appointin
 dates can
 fill the p

Canvas
 or indire
 the appoi
 for appoi

Forms
 ment ma
 Academy
 envelopes
 undersig
 8th Nov

City Hal
 5th No
 CHESTE

APPO
 Applicat
 and exp
 Architect
 rector's I
 Grade A
 £645 per

Applica
 tion of f
 and be c
 detailed

work, sh
 by the c
 The ap
 of Cond
 and to

Superan
 by one
 successfu

medical
 THE C
 ASSISTA
 HOUSIN
 SUCCES

Applic
 obtained
 J. B. W
 Barriste
 gate, Ch

undersig
 Novembe
 "Archit
 Canvas

qualify.

Rural C

CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13 Queen Anne's Gate, Westminster, S.W.3, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

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

Public and Official Announcements
25s. per inch; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

**LONDON COUNTY COUNCIL
ARCHITECT'S DEPARTMENT.**

Vacancy for PLANNING OFFICER, Grade II (£832 10s.-£1,002). Professional qualifications and planning experience essential. Particulars and application form from Architect, County Hall, S.E.1, quoting AR/EK/F.L.L/4. (1172) 7692

CITY OF BELFAST.

Applications are invited for the following positions on the staff of the Education Architect's Department:

(1) CHIEF ASSISTANT ARCHITECT.
Applicants should be highly qualified Architects, who have passed the final R.I.B.A. examination or its equivalent. As senior officer in charge of the drawing office the person appointed must be a capable and efficient administrator with a sound knowledge of building construction.

The scale of salary for the position is £815 × £27 10s.-£925 per annum.

(2) SENIOR ASSISTANT ARCHITECTS.
Candidates must be qualified Architects, with good experience in the design and construction of buildings, particularly schools, and be capable of supervising the work of a section of the Department. Preference will be given to applicants who are Corporate Members of the R.I.B.A.

The scale of salary for the position is £720 × £25-£795 × £20-£815 per annum.

The following conditions apply to the above-mentioned appointments:—

The commencing figure of remuneration in each case will be determined in accordance with the qualifications and experience of the successful applicant. Superannuation contributions will be payable at the rate of approximately 6 per cent. of remuneration.

Preference will be given to ex-Service candidates possessing the required qualifications, provided the appointing authority is satisfied that such candidates can, or in a reasonable time will be able to, fill the posts efficiently.

Canvassing in any form, oral or written, direct or indirect, will, if proved to the satisfaction of the appointing authority, disqualify a candidate for appointment.

Forms of application and conditions of appointment may be obtained from the Education Office, Academy Street, Belfast. Applications, in envelopes suitably endorsed, should reach the undersigned not later than 12 noon on Saturday, 26th November, 1952.

JOHN DUNLOP.*Town Clerk.*

City Hall, Belfast.

5th November, 1952.

7711

**CHESTERFIELD RURAL DISTRICT COUNCIL.
ENGINEER AND SURVEYOR'S
DEPARTMENT.****APPOINTMENT OF ARCHITECTURAL
ASSISTANT.**

Applications are invited from suitably qualified and experienced persons for the appointment of Architectural Assistant in the Engineer and Surveyor's Department, at a salary in accordance with Grade A.P.T., V, of the National Scale, £595 to £645 per annum.

Applicants must have passed the final examination of the R.I.B.A. or be Registered Architects, and be capable of preparing designs, working and detailed drawings and specifications for housing work, shops and general building works executed by the contractor or Direct Labour.

The appointment will be subject to the scheme of Conditions of Service for Local Authorities, and to the provisions of the Local Government Superannuation Act, 1937, and will be terminated by one month's notice on either side. The successful candidate will be required to pass a medical examination.

THE COUNCIL WILL GIVE ALL POSSIBLE ASSISTANCE TOWARDS THE PROVISION OF HOUSING ACCOMMODATION FOR THE SUCCESSFUL APPLICANT.

Applications should be made on forms to be obtained from the Engineer and Surveyor, Mr. J. B. Wikeley, M.Eng., A.M.I.C.E., M.I.Mun.E., Barrister-at-Law, Rural Council House, Saltergate, Chesterfield, and must be returned to the undersigned by not later than Friday, 28th November, 1952, in an envelope endorsed "Architectural Assistant."

Canvassing, directly or indirectly, will disqualify.

H. O. HAWKINS.*Clerk to the Council.*

Rural Council House, Saltergate,

Chesterfield. 7710

**NORTHAMPTON COUNTY BOROUGH.
BOROUGH ARCHITECT AND TOWN
PLANNING OFFICER.**

Salary: £1,550 × £50-£1,800 per annum.

Particulars of the above appointment and forms of application to be returned by 5th December may be obtained from me.

C. E. VIVIAN ROWE.*Town Clerk.*

Guildhall, Northampton.

7718

**COUNTY BOROUGH OF SOUTHAMPTON.
AMENDED NOTICE.**

Appointment of GROUP ARCHITECT, Grade VIII (£760-£835 p.a.) and SENIOR ASSISTANT ARCHITECT, Grade VI (£670-£735 p.a.).

Housing accommodation may be made available. Application forms from Borough Architect, Civic Centre, to be returned by 29th November, 1952. 7717

BOROUGH OF NELSON.**ARCHITECTURAL ASSISTANTS.**

Applications are invited for the following appointments in the office of the Borough Engineer and Surveyor:

(a) SENIOR ARCHITECTURAL ASSISTANT. Salary in accordance with Administrative Grade V (£595-£645 per annum). Applicants should be preferably Associates of the R.I.B.A. and have experience in housing design and supervision, surveys and specifications and general work.

(b) JUNIOR ARCHITECTURAL ASSISTANT. Salary in accordance with Administrative Grade IV (£555-£600 per annum). Applicants should be students of the R.I.B.A. and have experience in housing and general work.

Applications, suitably endorsed, giving details of experience and qualifications, together with copies of three recent testimonials, must be received by the undersigned not later than Saturday, 29th November, 1952.

F. W. ROBERTS.*Town Clerk.*

Town Hall, Nelson.

11th November, 1952.

7720

BOROUGH OF ILFORD.**APPOINTMENT OF ARCHITECTURAL
ASSISTANT (GRADE VII).**

Applications are invited for the appointment of an Architectural Assistant on the permanent staff of the Borough Engineer's Department. Applicants should be Associate Members of the R.I.B.A. and should possess good general experience in a Municipal office. Salary in accordance with Grade A.P.T., VII, viz., £710, rising to £785 p.a., plus London weighting.

THE COUNCIL IS PREPARED TO CONSIDER IF NECESSARY IN CONNECTION WITH THIS APPOINTMENT THE PROVISION OF A ONE- OR TWO-BEDROOM SELF-CONTAINED FLAT AT AN ECONOMIC RENT.

The appointment will be superannuable and subject to one month's notice on either side, to the National Scheme of Conditions of Service, and to medical examination.

Applications, on forms obtainable from the Town Clerk, Town Hall, Ilford, should be submitted not later than the 29th November, 1952. 7712

**COUNTY BOROUGH OF BARNSELEY.
BOROUGH ENGINEER AND SURVEYOR AND
PLANNING OFFICER'S DEPARTMENT.****APPOINTMENT OF SENIOR PLANNING
ASSISTANT.**

Applications are invited for the appointment of a Senior Planning Assistant, in accordance with the A.P.T., Grade VII, commencing salary £710 per annum. A car allowance will be paid in accordance with the prevailing scheme for essential users. The appointment will be subject to the Scheme of Conditions of Service for essential users. The General Conditions of Service within the Corporation as varied from time to time, and to the provisions of the Local Government Superannuation Acts.

The successful applicant will be required to pass a medical examination, and the appointment will be subject to one month's notice on either side. Candidates must have had extensive experience in Town Planning and must be Corporate Members of the Town Planning Institute or hold an equivalent qualification.

Applications, stating age, present and previous appointments, experience, qualifications, etc., together with the names of three referees, should be addressed to the Borough Engineer and Surveyor and Planning Officer, Town Hall, Barnsley, and reach him not later than Monday, 8th December, 1952.

Canvassing will disqualify, and applicants should disclose in their application whether or not to their knowledge they are related to any senior official or member of the Council.

A. E. GILFILLAN.*Town Clerk.*

Town Hall, Barnsley.

November, 1952.

7724

BOROUGH OF WALTHAMSTOW.**BOROUGH ARCHITECT, ENGINEER AND
SURVEYOR'S DEPARTMENT.****ASSISTANT ARCHITECT.**

Applications are invited for the above appointment on Grades I/V, A.P.T. Division (£495-£675, inclusive of London weighting), commencing salary according to qualifications and experience.

Applications, with names of two persons for references, should be received by the undersigned not later than Friday, 6th December, 1952.

G. A. BLAKELEY.*Town Clerk.*

Town Hall, Walthamstow, E.17.

7728

SURREY COUNTY COUNCIL.**COUNTY ARCHITECT'S DEPARTMENT.**

Applications are invited for the appointment of ASSISTANT MAINTENANCE SURVEYOR, Grade VI, at a commencing salary of £670 p.a., rising by annual increments of £20/£25 to a maximum of £735 p.a., plus London allowance of £30 p.a.

Applicants should possess approved qualifications and experience, and preference will be given to those who are Members of the Royal Institution of Chartered Surveyors (Building Sub-Division).

They should be capable of drafting specifications in all trades, preparing schedules of dilapidations, the preparation of detailed estimates for general maintenance works, and surveys of properties.

Full details of past and present appointments should be given.

The appointment will be subject to the provisions of the Local Government Act, 1937, and the successful applicant will be required to pass a medical examination.

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 29th November, 1952.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration.

The Council will be unable to provide any housing accommodation, and the successful applicant will be expected to make his own arrangements in this direction.

W. W. RUFF.*Clerk of the Council.*

County Hall, Kingston-upon-Thames.

7727

UNIVERSITY OF CAMBRIDGE.

ARCHITECTURAL DRAUGHTSMAN, age 20 to 25, required by University Department. Must be capable of measuring and preparing plans of existing buildings without supervision, also working drawings and specifications under supervision. Salary according to age and experience. Apply in writing to Director in Estate Management, University of Cambridge, 74, Trumpington Street, Cambridge. 7722

COUNTY OF LEICESTER.

SENIOR ASSISTANT ARCHITECT, Grade VI/VII, £670-£785. Candidates must be Associate Members of the R.I.B.A., experienced in design and construction of modern buildings, and capable of carrying through projects from inception to completion. N.J.C. Service Conditions; medical examination; post pensionable. Consideration given to Registered Disabled Persons. Apply by 8th December with copies of three recent testimonials, on forms obtainable from County Architect, 123, London Road, Leicester. 7734

LONDON COUNTY COUNCIL.

Vacancies for ARCHITECTS (A.R.I.B.A.), in Housing Division.

(a) Grade II, £837 10s.-£1,002; (b) Grade III, up to £837 10s.; (c) Technical Assistants, up to £696.

Application forms and particulars from Architect, County Hall, S.E.1, quoting AR/EK/H/2. (1203) 7737

CORPORATION OF DUNDEE.

CITY ARCHITECT'S DEPARTMENT.
Applications are invited for the post of ASSISTANT ARCHITECT in the City Architect's Department, Dundee. The post will be graded A.P.T., V-VI (£600 to £740 per annum), but placing in a grade will be given according to qualifications and experience.

Applicants should be Associate Members of the Royal Institute of British Architects.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will require to pass a medical examination.

Applications, stating age, qualifications and experience, along with copies of three recent testimonials, should be lodged with the Town Clerk, City Chambers, Dundee, on or before Saturday, 6th December, 1952.

ROBERT LYLE.*Town Clerk.*

City Chambers, Dundee.

12th November, 1952.

7736

BOROUGH OF PRESTWICH.**APPOINTMENT OF PERMANENT ARCHITECTURAL ASSISTANT, BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.**

Applications are invited for the permanent position of Architectural Assistant in the A.P.T. Division, Grade VI (£670-£735 per annum). Applicants should hold suitable qualifications and have had some experience in housing.

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

Applications, stating age, qualifications, experience, etc., together with the names and addresses of two persons to whom reference may be made, should be sent to the undersigned in envelopes endorsed "Architectural Assistant," so as to be received not later than Saturday, 6th December, 1952.

Canvassing disqualifies, and applicants must state whether to their knowledge they are related to any member or senior official of the Council.

C. A. CROSS.*Town Clerk.*

Town Hall, Prestwich, Lancashire.

21st November, 1952.

7738

CITY OF LEICESTER EDUCATION COMMITTEE.

LEICESTER COLLEGE OF ART.

Principal: KENNETH HOLMES, O.B.E., A.R.C.A.

DEPARTMENT OF ARCHITECTURE.

Applications are invited for the post of **STUDIO MASTER** on the full-time staff. Candidates should be Registered Architects, holding a Degree or Diploma of a Recognised School.

Salary in accordance with the Burnham Further Education Scale for Lecturers: £940-£25-£1,040.

Applications (no special forms) should be sent to the Registrar, College of Art, The Newark, Leicester, within two weeks of the appearance of this advertisement.

ELFED THOMAS,

Director of Education.

JUNIOR ARCHITECTURAL ASSISTANT required for Central London office. Experience in School or Hospital work desirable, but not essential. Apply, stating salary required and other particulars, to Box 7719.

ASSISTANT required. Not less than pre-Final A standard, and 3 years' private office experience. Salary £500, but according to ability. Messrs. Kenneth F. Wray, F./A.R.I.B.A., 43, Gildredge Road, Eastbourne. 7739

Architectural Appointments Wanted

SENIOR ASSISTANT (age 35), 20 years' various experience, all branches of the profession, neat, accurate and essentially quick draughtsman, desires London engagement. Free to commence duties immediately. Salary: 12 gns. per week. Box 599.

LADY ARCHITECT, D.A. (Edin.), two years' experience, seeks position with Architect. Contemporary outlook. Box 600.

ASSOCIATE, with 15 years' experience, requires position of responsibility in contemporary office, where he will be treated as a human being and where initiative, hard work and conscientiousness are acknowledged. Salary by arrangement. Box 7697.

STUDENT (woman), passed R.I.B.A. finals in July, seeks post in or near London; no previous office experience. Box 612.

SIXTH year Poly, evening **STUDENT** seeks position in contemporary office in the London area. Box 611.

ARCHITECTURAL ASSISTANT (age 25), Intermediate standard, requires post, London. Box 613.

RETIRED ARCHITECT, ex-Fellow, seeks part- or whole-time employment with firm wishing shed some of its load. Varied private practice and Civil Service experience. Must be in or near London. Preliminary interview gladly arranged. Box 608.

ARCHITECTURAL ASSISTANT seeks position in London. Capable and experienced draughtsman on all working drawings, details, etc. Box 7725.

QUALIFIED, school trained **ARCHITECTURAL ASSISTANT** (27), requires progressive appointment in or near London. Contemporary and practical, 2 years' office experience. Good references. Box 610.

DIPLOMA, A.R.I.B.A. (23), single, released National Service September, urgently requires position in London. One year's general experience. Offers of help gratefully received. Keen, energetic and available immediately. Tel.: TOT. 4736, or Box 609.

CHARTERED ARCHITECT (age 25) requires position in Private Practice or with Industrial Organisation. Any area. University trained, office experience. Box 606.

ARCHITECTURAL ASSISTANT (27), school trained, Final R.I.B.A. standard, three months' office experience, seeks position in South-West England with progressive Architect. Box 605.

ARCHITECTURAL ASSISTANT (30), 7 years' practical experience—hospitals, industrial, domestic—studying for Finals, seeks position in London. Box 607.

Other Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

EXPERIENCED DRAUGHTSMAN required for work on non-traditional buildings. Good salary will be offered to suitable applicant. Reema Construction, Salisbury. 7732

DRAUGHTSMAN required by Showroom and Exhibition Designers in London. Free lance basis. Box 7740.

WESTMINSTER Consultants require **LADY TRACER**. Previous civil engineering experience advantageous. Salary will be based on experience and not fixed to a minimum figure. Age range 25 to 35. If over 30 successful applicant would come into staff pensions. Box 7735.

Partnerships

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

CHARTERED SURVEYOR, with expanding Architectural and Surveying Practice (including L.A. Housing), in Suffolk, urgently seeks Partner, with general experience, who is a Registered Architect, preferably A.R.I.B.A. Some capital required. Box 7733.

Services Offered

4 lines or under, 7s. 6d.; each additional line, 2s.

A.R.I.B.A., with good all round experience, requires part-time or free lance work to help his growing practice. MUSEUM 9106. 7706

TYPEWRITING, DUPLICATING—Bills of 1 quantity. Specifications, etc., expertly typed/duplicated. Express service. Work collected/delivered. **JOSEPHINE HALL & PARTNERS**, 501/2, GRAND BUILDINGS, TRAFALGAR SQUARE, W.C.2. WHI. 6411/2, and 87, High Street, Tunbridge Wells. Telephone: 1255. 7005

ARCHITECTURAL DRAUGHTSMAN, experienced in constructional details, seeks work on free-lance or part time basis; sketch plans, working drawings, details, etc. Will travel for interviews. Box 7668.

QUICK and reliable temporary assistance or part-time services offered by experienced Architect. Any class of architectural work undertaken at reasonable fees. 69, Barkston Gardens, S.W.5. Tel.: FRObisher 1363. 7703

TWO young qualified **STRUCTURAL ENGINEERS**, with diplomas in building, offer their services to Builders and Architects for the Design and Detailing of Structures in all materials. Box 7705.

DUPLICATING AND TYPEWRITING, Bills of Quantities, Specifications, etc. All grades of Office Staff supplied. Trinity Bureau, 60, Bedford Street; Strand, W.C.2. TEM. 3002. 7606

a pocket guide to **MODERN**
buildings in **LONDON**
by **IAN McCALLUM**
is strongly recommended to architects visiting
London this Christmas: price is 3s 6d net, post 4d
THE ARCHITECTURAL PRESS 9 Queen Annes Gate SW1

WALLBOARDS
LONDON
BRISTOL, LANGLEY
SOUTHAMPTON

BRYCE WHITE & CO. LTD.
We supply all types of Wallboard and have set up a special department to meet your Wallboard needs and to give full technical information.
Enquiries: HEAD OFFICE: DESERONTO WHARF, LANGLEY, BUCKS

WALLBOARDS
Telephone: LANGLEY 232
SOUTHALL 2231

SURVEYING and Levelling of Building Sites and Measured Drawings undertaken by experienced Surveyor at moderate charges. Box 6863.

For Sale or Wanted

4 lines or under, 7s. 6d.; each additional line, 2s.
RECONDITIONED EX-ARMY HUTS, and manufactured buildings. Timber, Asbestos, Nissen type, Hail type, etc. All sizes and prices. Write, call, or telephone. Universal Supplies (Belvedere), Ltd., Dept. 25, Crabtree Manorway, Belvedere, Kent. Tel.: Erith 2948. 6803

Miscellaneous

4 lines or under, 7s. 6d.; each additional line, 2s.
A. J. BINNS, LTD. Specialists in the supply and fixing of all types of Fencing, Gates and Cloakroom Equipment. Harvest Works, 96/107, St. Paul's Road, N.I. Canbury 2061.

COUNCIL and Municipal Architects who have not yet received their gratis copies of the Autumn issue of "The Blindmaker" (Official Organ of the National Association of Window Blind Manufacturers), please write to the Publishers, 356, Kilburn High Road, N.W.6. 7713

ARCHITECT searching for Small Building Plot suitable for house. Anywhere North London area. Box 7726.

Educational Announcements

4 lines or under, 7s. 6d.; each additional line, 2s.
R.I.C.S., I.A.A.S., and I.Q.S. Exams.—Postal Courses conducted by the Ellis School (Principal: A. B. Waters, M.B.E., G.M., F.R.I.B.A.), 103B, Old Brompton Road, S.W.7. KEN. 4477/9. Descriptive Booklet on request. 7020

R.I.B.A. and T.P.I. EXAMS.—Stuart Stanley (Tutor Sch. of Arch., Lon. Univ.) and G. A. Crockett, M.A./B.A., F.A.R.I.B.A., M./A.M.T.P.I. (Prof. Sir Patrick Abercrombie in assn.), prepare Students by correspondence tuition. 10, Adelaide Street, Strand, W.C.2. TEM. 1603/4.

RIBA INTER, FINAL & SPECIAL FINAL

Postal Courses in all or any subjects including Design and Professional Practice, Consultation arranged.

THE ELLIS SCHOOL

Principal: A. B. Waters, M.B.E., G.M., F.R.I.B.A., 103B, OLD BROMPTON RD., LONDON, S.W.7
Phone: KEN 4477/9 and at Worcester

MODELS

ESTAB.
1893.
BY

John B. THORP

FOR TOWN PLANNING
PUBLIC BUILDINGS
ESTATES and
INTERIORS
98 GRAY'S INN ROAD,
W.C.
TELEPHONE:
HOLBORN 1011

You are invited to write for an illustrated

(free) catalogue of

BOOKS on architecture, planning,

and kindred subjects to The Architectural

Press, 9-19 Queen Anne's Gate, London, SW1



Chain Link fencing

A complete service

BOULTON & PAUL Ltd

NORWICH

CRC 17 F

ASPHALT WORK TO ALL B.S.S.
COVERITE
COVERITE (ASPHALTERS) LTD.
PALACE GATES 674, HILL Street, Park 1207

EXAMINATION CANDIDATES!

you are coached by **ICS** until you pass

Students enrolling with I.C.S. for examination courses are coached without extra fee until they pass. Many brilliant successes are gained each year in R.I.B.A., R.I.C.S., I.Q.S., I.Struct.E., I.Mun.E. Examinations. Fees are moderate and include all books required. Generous discount to H.M. Forces.

WRITE TODAY FOR FREE BOOKLET giving full details of YOUR examination or non-examination subject.

INTERNATIONAL CORRESPONDENCE SCHOOLS
Dept. 5B., 71 KINGSWAY, LONDON, W.C.2.

METAMICA
Vermiculite Scientifically Applied

- * AGGREGATE
- * IN SITU APPLICATIONS
- * PREFABRICATED PRODUCTS

TECHNICAL BULLETINS AND DETAILS FROM METAMICA LTD., 50 BLOOMSBURY ST., W.C.1

The World's Greatest Bookshop

FOYLES
FOR BOOKS

SPECIALISTS IN TRACING OUT-OF-PRINT BOOKS

New, secondhand & rare Books on every subject

Subscriptions taken for British, American and continental magazines

119-125 CHARING CROSS RD., LONDON, W.C.2
Gerrard 5660 (16 lines) ★ Open 9-6 (inc. Sats.)


for "inside & outside" use
"Aspilin Gloss"
FOR 'SHEER' QUALITY
ENAMEL PAINT
ASPINALL'S (PAINTS) LTD., CARLETON, SKIPTON, YORKS

For Electric motor Starters of proved reliability—specify—

ELLISON

MADE BY GEORGE ELLISON LIMITED, PERRY BARR, BIRMINGHAM, 22B

stone—
king of building materials—
easily and cheaply cut—
on site or in quarry—

with  stone cutting chain saws

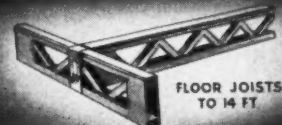
write for particulars of full range of types—
siskol machines limited,
sheffield 6

JUST ANOTHER

Sommerfeld's

PRODUCT

SOMMERFELDS, LTD WELLINGTON SHROPS • TELE 1000



FLOOR JOISTS TO 14 FT

Alphabetical Index to Advertisers

Adshead Ratcliff & Co., Ltd.	PAGE ixxi	Gaskell & Chambers, Ltd.	PAGE ix	Phoenix Timber Co., Ltd.	PAGE ixxi
Anderson Construction Co., Ltd.	ixxi	Gibson, Arthur L., & Co., Ltd.	xliv	Plandex, Ltd.	ixxi
Architectural Press Ltd., The	ixxi, lxxx, lxxxiv, lxxxvi, lxxxviii, lxxxix	Guest, Keen & Nettlefolds (Midlands), Ltd.	xxxiii	Plywood & Timber Products Agencies, Ltd.	xxiv
Arens Controls, Ltd.	xxxvii	G.W.B. Electric Furnaces, Ltd.	lxxxiii	Prodorite, Ltd.	lxxxvii
Armstrong Cork Co., Ltd.	xi	Gyproc Products, Ltd.	lxxxvi	Pyrotex, Ltd.	lxxxvii
Ascot Gas Water Heaters, Ltd.	lxxxix	Gypsum Mines, Ltd., The	lxix	Quiz Electrics, Ltd.	lxxxvii
Aspnalls (Paints), Ltd.	lxxxix	Hall, Robt. H., & Co. (Kent), Ltd.	xiv	Radiation Group Sales, Ltd.	lxv
Associated Fire Alarms, Ltd.	xx	Harper, John, & Co., Ltd.	lxxxv	Rawplug Co., Ltd., The	lxxxvii
Ayco, Ltd.	lxxxii	Harvey, G. A., & Co. (London), Ltd.	lii	Rawlings Brothers, Ltd.	lxxxvii
Batley, Ernest, Ltd.	lxxxix	Heal's Contracts, Ltd.	lxxxvii	Ronuk, Ltd.	lxxxvii
Boulton & Paul, Ltd.	lxxxix	Hickson's Timber Impregnation Co. (G.B.), Ltd.	xli	Rownson, Drew & Clydesdale, Ltd.	lxxxvii
Bovis, Ltd.	l	Hills, F., & Son, Ltd.	lxvii	Rubery Owen & Co., Ltd.	lxxxvii
Briggs, Wm., & Sons, Ltd.	lxix	Hills (West Bromwich), Ltd.	xli	Sealanco (St. Helens), Ltd.	lxvii
British Aluminium Co., Ltd., The	lxix	Holophane, Ltd.	lxix	Semtex, Ltd.	lxvii
British Electricity Authority	lxix	Hope, Henry, & Sons, Ltd.	lxii	Sharp Bros. & Knight, Ltd.	lxvii
British Herculite, Ltd.	lxix	Horseley Bridge & Thomas Piggott, Ltd.	lxxxiv	Sieglwart Floor Co., Ltd., The	lxvii
British Plumber, Ltd.	lxix	International Correspondence Schools	lxxxix	Siskol Machines, Ltd.	lxxxvii
Broad & Co., Ltd.	lxxxiv	Kenyon, Wm., & Sons, Ltd.	lxvi	Smith, Saml., & Sons, Ltd.	lxxxvii
Brown, Donald (Brownall) Ltd.	lxxxviii	Kerr, Robt., & Sons (Floorings), Ltd.	lxix	Somerfeld's, Ltd.	lxxxvii
Bryce, White & Co., Ltd.	lxxxviii	Kinrod Grilles	xli	Southern's, Ltd.	lxxxvii
Carter & Co., Ltd.	lxix	Kwikform, Ltd.	lxix	Speithorne Metals, Ltd.	lxxxvii
Celotex, Ltd.	lxix	Laing, John, & Son, Ltd.	xli	Spencer, Lock & Co., Ltd. (Royal Board)	lxxxvii
Cloakroom Equipment, Ltd.	lxxxv	Lead Industries Development Council	lxix	Stelcon (Industrial Floors), Ltd.	lxxxvii
College of Estate Management	lxix	Leatherfloor, Ltd.	lxix	Stramit Boards, Ltd.	lxxxvii
Cole, E. K., Ltd.	lxix	Lennox Foundry Co., Ltd.	lxix	Sugg, Wm., & Co., Ltd.	lxix
Colt Ventilation, Ltd.	lxix	Limmer & Trinidad Lake Asphalt Co., Ltd.	lxix	Sundeala Board Co., Ltd.	lxix
Compression Joints, Ltd.	lxix	Lockhart Equipment, Ltd.	lxix	Taylor, R., & Co. (Ironfounders), Ltd.	lxix
Concrete, Ltd.	lxix	Logan, Sons & Co., Ltd.	lxix	Thames Plywood Mfrs., Ltd.	lxix
Costain Concrete Co., Ltd.	lxix	London Brick Co., Ltd.	lxix	Thermacoust, Ltd.	lxix
Coverite (Asphalts), Ltd.	lxix	MacAndrews & Forbes, Ltd.	lxix	Thompson, John (Beacon Windows), Ltd.	lxix
Crompton Parkinson, Ltd.	lxix	Mallinson, Wm., & Sons, Ltd.	lxix	Thorp, John B.	lxix
Demolition & Construction Co., Ltd.	lxix	Main, R. & A., Ltd.	lxix	T.I. Aluminium, Ltd.	lxix
Denny, Mott & Dickson, Ltd.	lxix	Mander Brothers, Ltd.	lxix	Timber Development Association, Ltd.	lxix
Dimplex Radiators (Habin), Ltd.	lxix	Marley Tile Co., Ltd., The	lxix	Tretol, Ltd.	lxix
Dreadnought Fireproof Doors (1930), Ltd.	lxix	Medway Buildings & Supplies, Ltd.	lxix	Troughton & Young (Lighting), Ltd.	lxix
Durasteel, Ltd.	lxix	Merchant Trading Co., Ltd., The	lxix	Tucker, Duncan (Tottenham), Ltd.	lxix
Durtnall, R., & Sons, Ltd.	lxix	Meta Mica, Ltd.	lxix	Tucker, J. H., & Co., Ltd.	lxix
Eastwoods, Ltd.	lxix	Metallic Seamless Tube Co., Ltd., The	lxix	Turner, Chas., & Son, Ltd.	lxix
Edison Swan Electric Co., Ltd., The	lxix	Mills Scaffold Co., Ltd.	lxix	Unisco, Ltd.	lxix
Ellis School of Architecture, The	lxix	Morris Singer Co., Ltd.	lxix	United Steel Companies, Ltd., The	lxix
Ellison, George, Ltd.	lxix	Negus, W. & M., Ltd.	lxix	Val de Travers Asphalt Paving Co., Ltd.	lxix
Esavian, Ltd.	lxix	New Day Electrical Accessories, Ltd.	lxix	Vizers Brothers, Ltd.	lxix
Etchells, Congdon & Muir, Ltd.	lxix	Newman, Wm., & Sons, Ltd.	lxix	Vulcan Products, Ltd.	lxix
Evode, Ltd.	lxix	Neuchatel Asphalt Co., Ltd., The	lxix	Walpanar Co., Ltd.	lxix
Ewart & Son, Ltd.	lxix	Orlit, Ltd.	lxix	Whittle, R. W., Ltd.	lxix
"Fibonite"	lxix	Ozalid Co., Ltd.	lxix	Williams & Sons (Cardiff), Ltd.	lxix
Foyles, Ltd.	lxix	Permanite, Ltd.	lxix	Williamson, James, & Son, Ltd.	lxix
Frengers Ceilings, Ltd.	lxix	Pestecure, Ltd.	lxix	Wright, John, & Sons (Veneers), Ltd.	lxix
Gas Council, The	lxix			Zinc Alloy Rust Proofing Co., Ltd.	lxix

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Education, Legal Notices, Miscellaneous, Property, Land and Sales, see lxxxvii, lxxxviii, lxxxix.

YOURS for the Asking

LEARN HOW TO:-

SPECIFY,

TEST,

USE.

SHERARDIZING

ZINC ALLOY

RUST PROOFING CO. LTD.

SHAKESPEARE STREET, WOLVERHAMPTON

TELEPHONE: WOLVERHAMPTON 20647/8

ALSO AT LONDON & ROCHDALE.

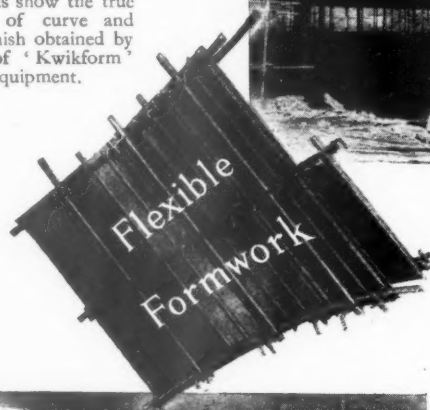
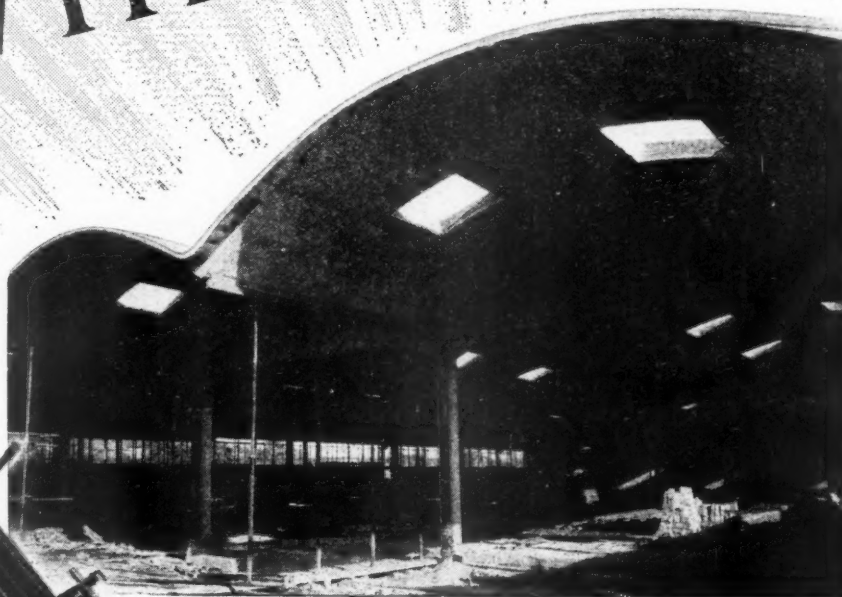


Illus
defin
smo
the
stan

...it's KWIKFORM

REGD. TRADE MARK

Illustrations show the true definition of curve and smooth finish obtained by the use of 'Kwikform' standard equipment.



FLEXIBLE FORMWORK

...perfect alignment

...really smooth finish

...true definition of curve

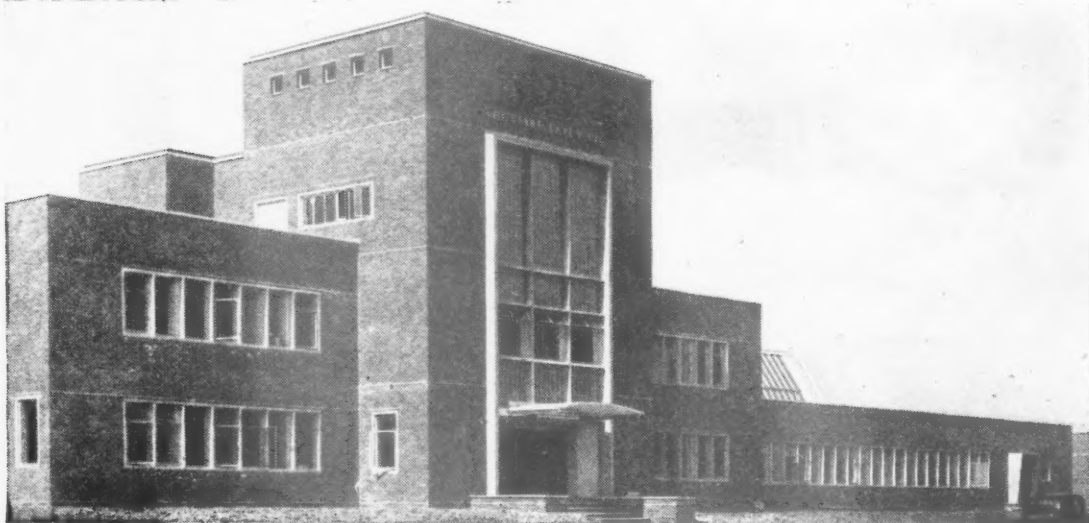


The designers of 'Kwikform' equipment have always been aware of the high standard of form, finish and alignment of the concrete necessary in modern structures, and the system of Flexible Formwork produced by them has received widespread commendation from the Architectural and Engineering Professions. 'Kwikform' Flexible Formwork produces a quality finish unequalled by any other standard system of formwork and is adaptable to all circular concrete construction. Write for descriptive literature A/29/51. Our organization specialises in supplying formwork fixed to Contract requirements.

KWIKFORM LTD. WATERLOO ROAD; BIRMINGHAM 25.

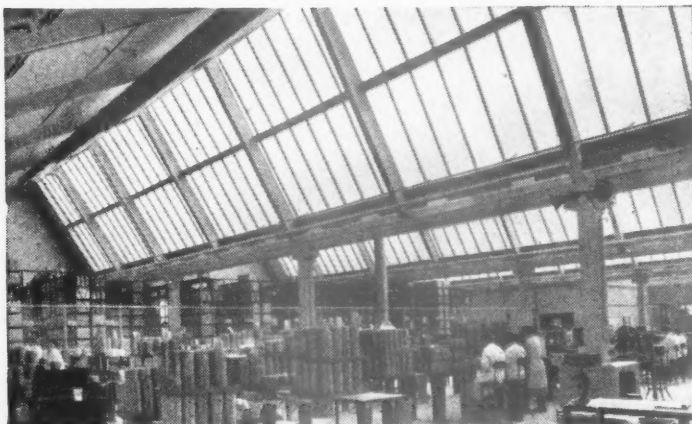
London Office:
66 Victoria Street, S.W.1.

Factory at Boreham Wood, Herts. for Adhesive Tapes Ltd.



Administration block

Architect: E. F. Peat, A.R.I.B.A.



Roof construction showing precast reinforced concrete trusses, purlins and main beams



*John Laing and Son Limited
Building and Civil Engineering
Contractors, London, NW7
Carlisle, Johannesburg and Lusaka
Established in 1848*



Entrance Hall paneled in Australian Walnut



Main staircase of reinforced concrete cantilevered from main frame

