

standard

contents

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

### NEWS COMMENTand

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

BUILDINGS CURRENT STATISTICS HOUSING

RS RSA

RSI

RIB

Architectural Appointments Vacant Wanted and

[VOL. 118 No. 30591 ARCHITECTURAL THE 9, 11 and 13, Queen Anne's Gate, Westminster, 'Phone: Whitehall 0611

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\* A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ie one week, Ig 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. 14, Great James' Street, W.C.2. Chancery 7718
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 Curron Street House Curron Street W1 Maufair 9400

Ministry of Education. Curzon Street House, Curzon Street, W.1. Ministry of Health. 23, Saville Row, W.1. Mayfair 9400 Regent 8411 MOH MOH Ministry of Health. 23, Saville Row, W.1.

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.

Gerrard 6933

MOT Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.

NAMMC Natural Asphalte Mine-Owners and Manufacturers Council

NAMMC Natural Asphalte Mine-Owners and Manufacturers Council

94-98, Petty France, S.W.1. Abbev 1010 National Association of Shopfitters. 9, Victoria Street. S.W.1. Abbey 4813
National Buildings Record. 37, Onslow Gardens, S.W.7. Kensington 8161
National Council of Building Material Producers, 10, Princes Street, S.W.1. NAS NRR NCBMP NFBTE

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W.1. Langham 4041/4054
National Federation of Building Trades Operatives, Federal House,
Cedars Road, Clapham, S.W.4. Macaulay 4451
National Federation of Housing Societies. 13, Suffolk St., S.W.1. Whitehall 1693
National House Builders Registration Council. 82, New Cavendish Street, W.1.
Langham 4341 NFBTO **NFHS** NHBRC Langham 4341

National Physical Laboratory. Head Office, Teddington Molesey 1380
National Sawmilling Association. 14, New Bridge Street, E.C.4. City 1476
National Smoke Abatement Society. Chandos House, Buckingham Gate,
S.W.1. Abbey 1359 NSA NSAS

National Trust for Places of Historic Interest or Natural Beauty.

42, Queen Anne's Gate, S.W.1.

Political and Economic Planning.
16, Queen Anne's Gate, S.W.1.
Reinforced Concrete Association.
94, Petty France, S.W.1.

Royal Incorporation of Architects in Scotland.
15, Rutland Square, NT Whitehall 0211 Whitehall 7245 PEP Abbey 4504

RCA RIAS 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.,

t., S.W.1. Whitehall 5322/9242 Whitehall 3935 Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1.
Royal Society. Burlington House Piccadilly, W.1.
Royal Society of Arts. 6, John Adam Street, W.C.2.
Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1.
Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19. RFAC Regent 3335 Trafalgar 2366 Sloane 5134 Wimbledon 5101 SBPM

Society of British Paint Manufacturers. Grosvenor Gardens House,
Grosvenor Gardens, S.W.1.
Society for Cultural Relations with the USSR. 14, Kensington Square, Victoria 2186 London, W.8. Western 1571 SCR Society of Engineers. 17, Victoria Street, Westminster, S.W.1. Abbey 7244 School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3.

SFMA Mansion House 3921 Structural Insulation Association. 32, Queen Anne Street, W.1. Society of Industrial Artists. 7, Woburn Square, W.C.1. Scottish National Housing. Town Planning Council. Langham 7616 SIA SNHTPC Langham 1984

Society of Industrial Artists. 7, Woburn Square, W.C.1. Langham 1984
Scottish National Housing. Town Planning Council.
Hon. Sec., Robert Pollock, Town Clerk, Rutherglen.
Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.
Holborn 2646
Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2. **SPAB** 

TCPA Temple Bar 5006 Timber Development Association. 21, College Hill, E.C.4. City 4771
Town Planning Institute. 18, Ashley Place, S.W.1. Victoria 8815
Timber Trades Federation. 75, Cannon Street, E.C.4. City 5051
War Damage Commission. 6, Carlton House Terrace, S.W.1. Whitehall 4341
Zinc Development Association. Lincoln House, Turl Street, Oxford. Oxford 47988 TDA TPI TTF WDC ZDA



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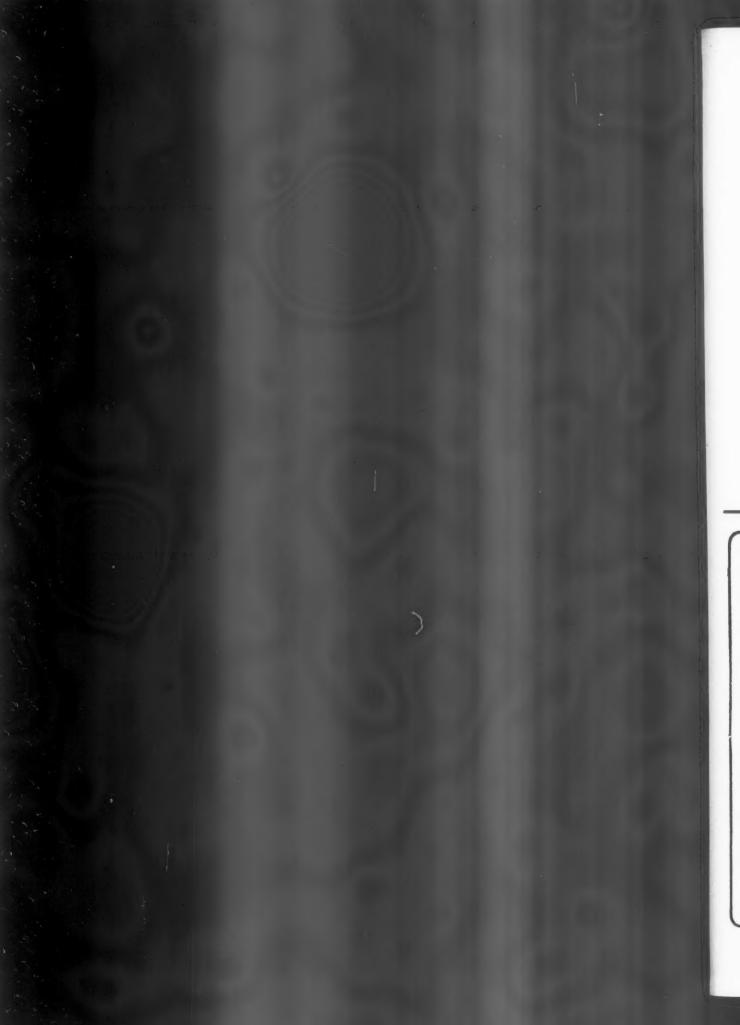
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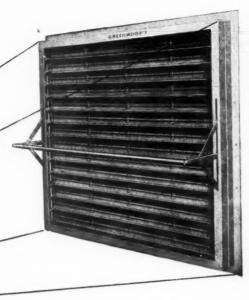
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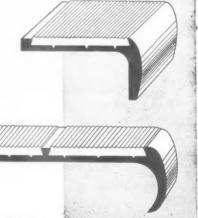
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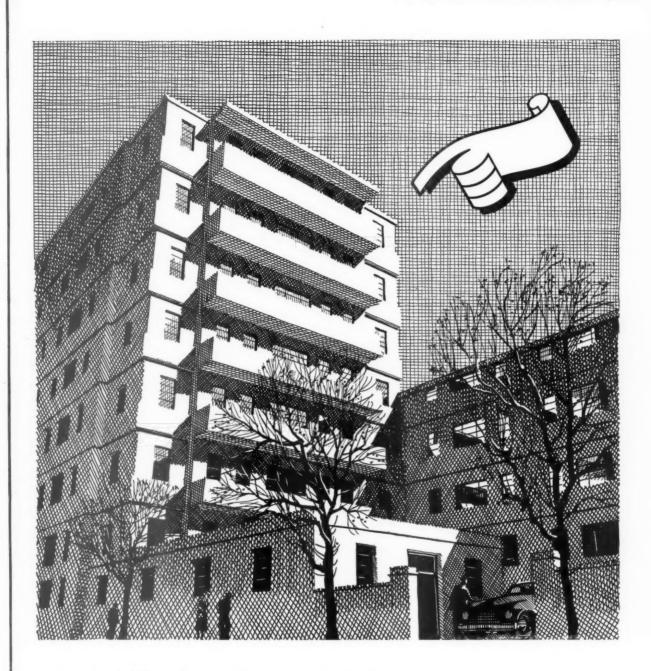
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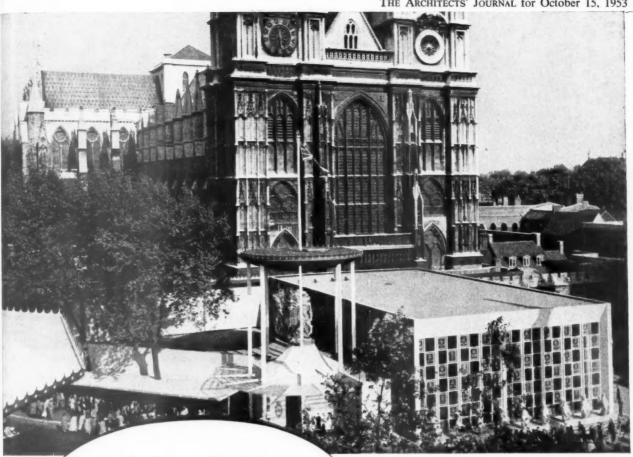
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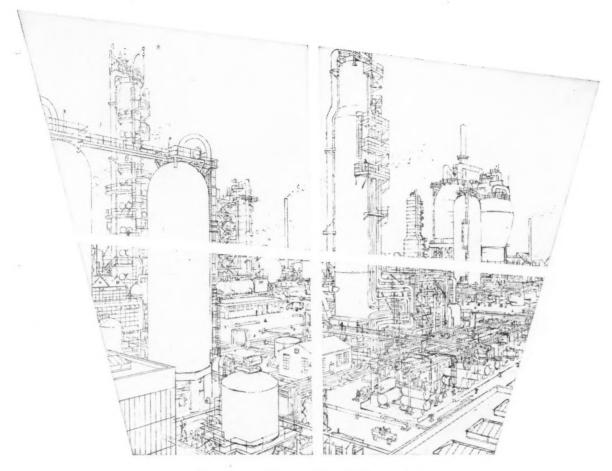
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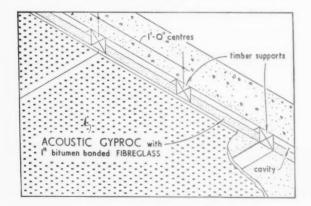
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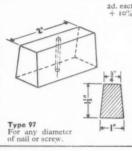


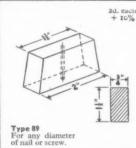


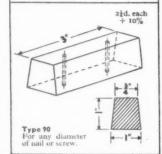
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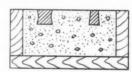
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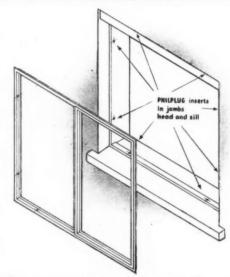
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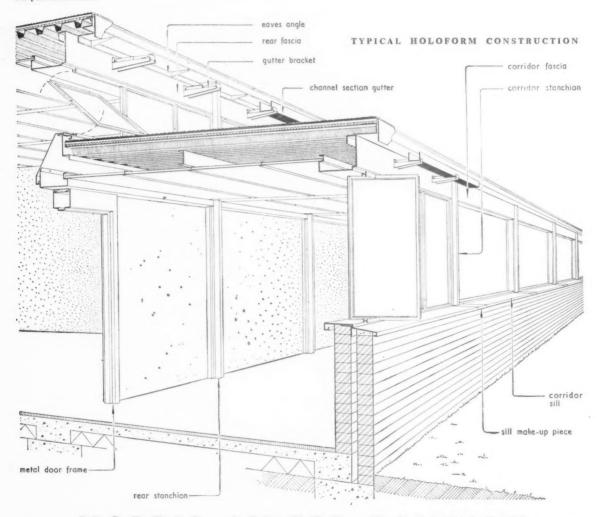
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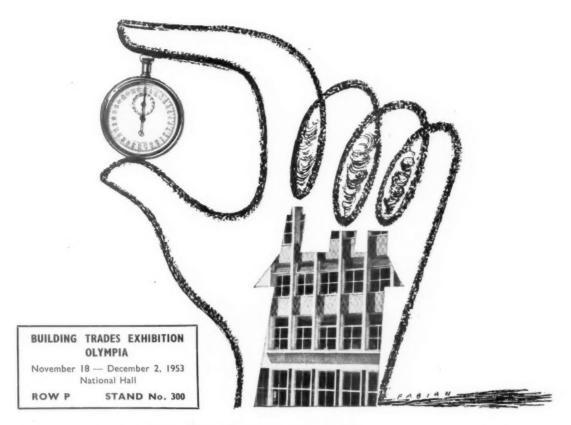
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NORTHERN GAS BOARD: 30, Grainger Street, Newcastle-upon-Tyne, 1. Newcastle-upon-Tyne 26101.

NORTH WESTERN GAS BOARD: Bridgewater House, 60, Whitworth Street, Manchester, 1.

Manchester Central 8121.

NORTH EASTERN GAS BOARD: Bridge Street, Leeds, 2. Leeds 32571/4.

EAST MIDLANDS GAS BOARD: Beverley House, University Road, Leciester. Leicester 23201/5.

WEST MIDLANDS GAS BOARD: 6, Augustus Road, Edgbaston, Birmingham, 15. Edgbaston 3616.

WALES GAS BOARD: 1 and 2, Windsor Place, Cardiff. Cardiff 28621.

EASTERN GAS BOARD: 2, The Abbey Garden, London, S.W.1. Trafalgar 5373/7.

NORTH THAMES GAS BOARD: 30, Kensington Church Street, London, W.8. Western 8141.

SOUTH EASTERN GAS BOARD: Katharine Street, Croydon, Surrey. Croydon 4466.

SOUTHERN GAS BOARD: 164, Above Bar, Southampton. Southampton 76362.

SOUTH WESTERN GAS BOARD: 9a, Quiet Street, Bath. Bath 60411/5.

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North Midland Region: Board of Trade, Government Buildings, Chalfont Drive, Nottingham

Eastern Region: Board of Trade, Block C. Government Buildings, Brooklands Ave., Cambridge

London & South Eastern Region: Board of Trade, Cromwell House, Dean Stanley Street, London, S.W.1

**Southern Region:** Board of Trade, Marlborough House, Parkside Rd., Reading, Berkshire

South Western Region;

Board of Trade, Burghill Road, Westbury-on-Trym, Bristol

Wales: Board of Trade Office for Wales, Government Buildings, Gabalfa, Cardiff

Midland Region: Board of Trade, C.M.L. Building, Great Charles Street, Birmingham, 3

North Western Region:

Board of Trade, 76 Newton Street, Manchester, 1

**Scotland:** Board of Trade Office for Scotland, 95 Bothwell Street, Glasgow, C.2

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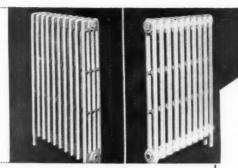
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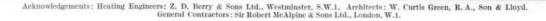
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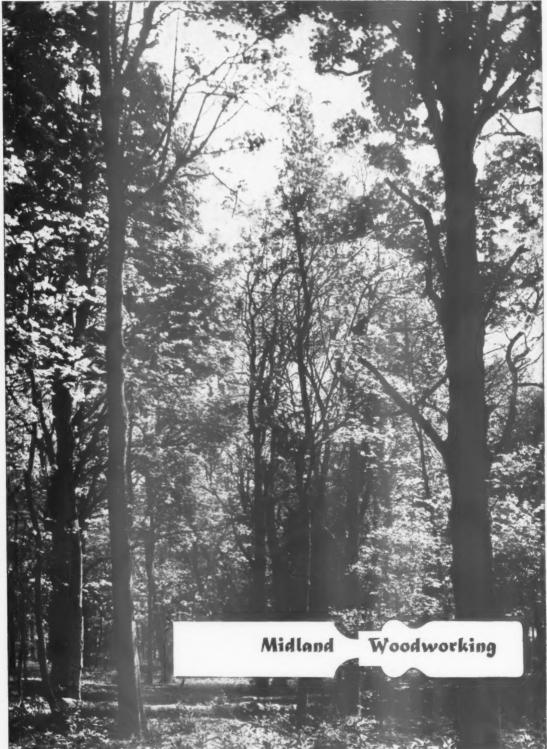
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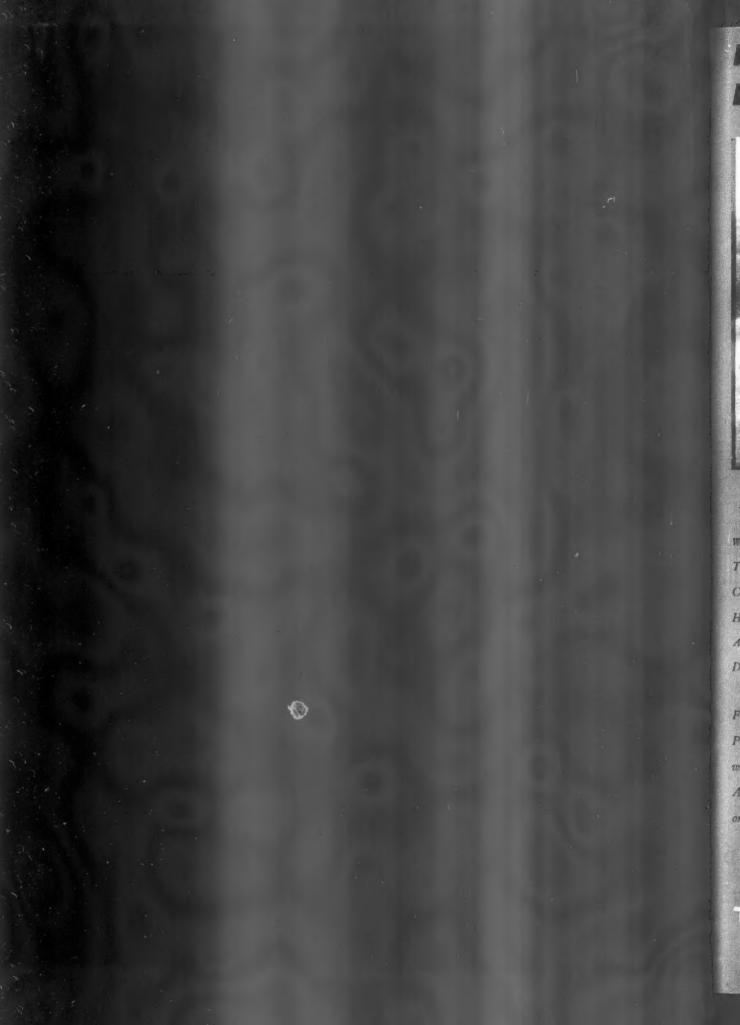
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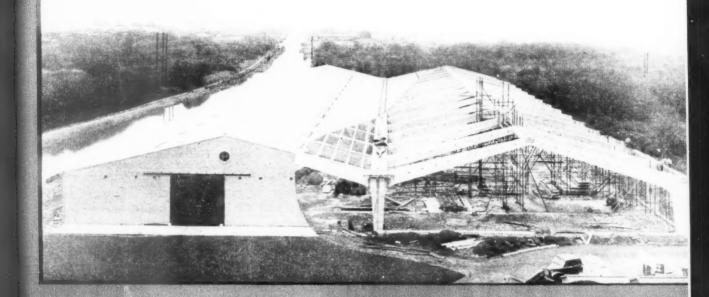
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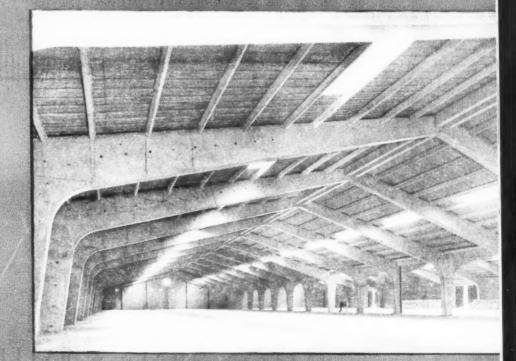
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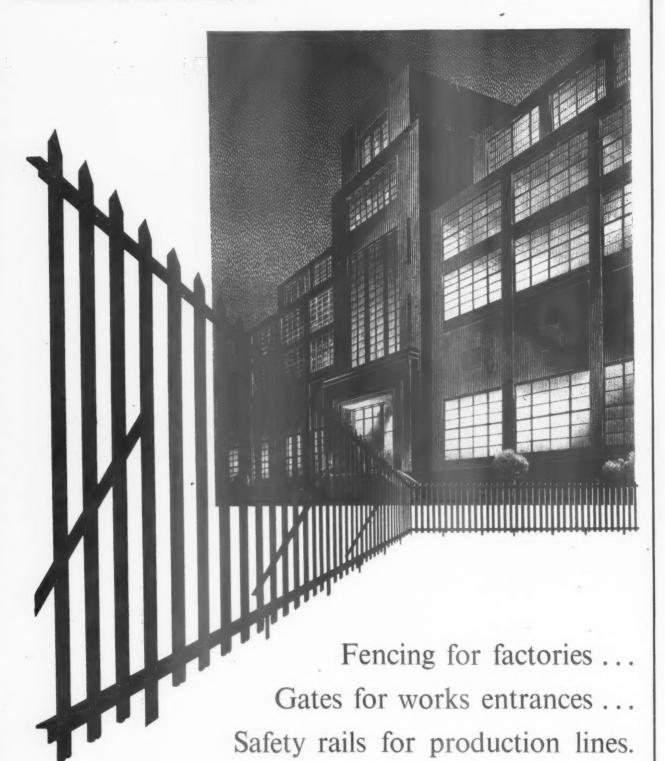
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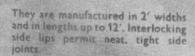
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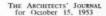
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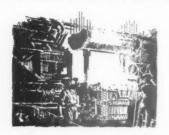
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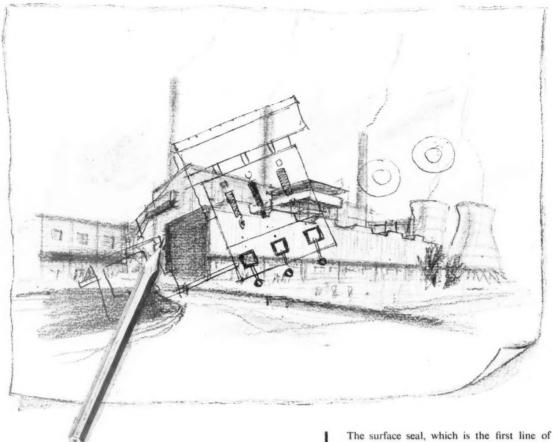


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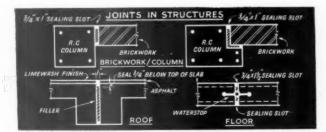
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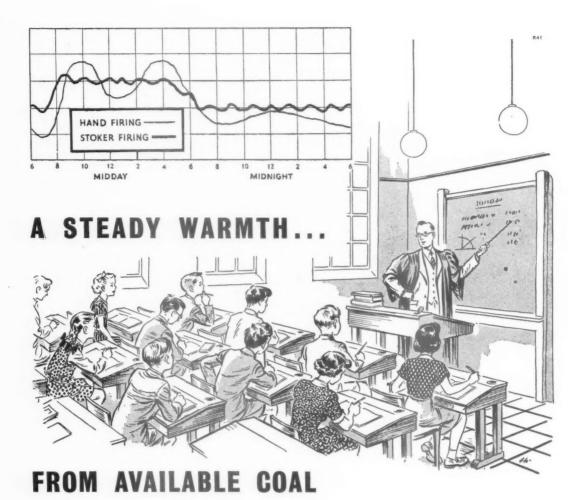


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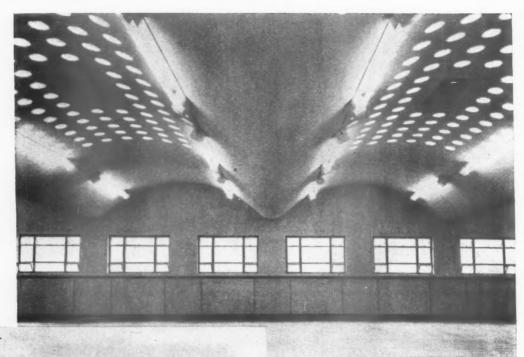


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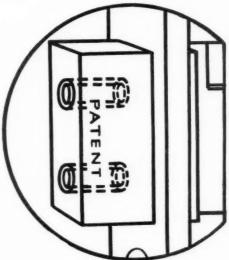
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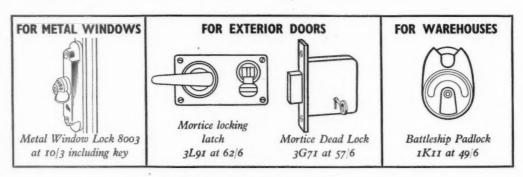
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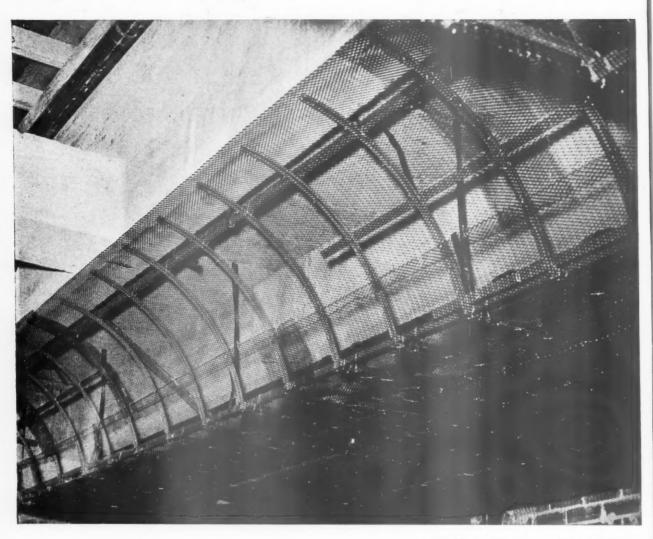
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### ADVANTAGES

- I. Lancaster Washable Wallcovering provides the equivalent of four coats of good paint applied in one single operation. As the directions for fixing show, hanging is simplicity itself since the paste is spread on the wall and NOT on the wallcovering.
- 2. Because of its cotton backing, imperceptible butt-joints can be obtained with little practice.
- 3. Unlike paint, it will not show unsightly cracks that may develop in the plaster, nor will it chip or show brush marks.
- 4. Because the composition of the coating is oil paint it is easy to keep fresh and clean. Ordinary dust and dirt can be removed with a damp cloth, whilst grease and more recalcitrant marks will respond to warm water
- 5. Because it is so easily cleaned it is thoroughly hygienic.

### **COLOUR RANGE**

and a little mild soap.

Lancaster Washable Wallcovering is normally finished with a light attractive emboss which gives a pleasant feeling of texture and design. It has a degree of gloss which is perfectly adapted to its function.

It is supplied in a range of plain colours covering all the popular shades of cream, stone, biscuit, grey, etc., and in addition in certain standard effects such as polka dots, wood veneers and marble facings.

### USES

Lancaster Washable Wallcovering is used par excellence where wear and tear are heaviest. Schools, hospitals, hotels, etc., are obviously places where its advantages are most easily observed, but any office, kitchen or corridor offers a suitable site for its use.

### ADHESIVE

It is recommended that the adhesive used for fixing Lancaster Washable Wallcovering should be the special "M" Paste made by A.I Adhesives, Ltd., Reliance Works, 20 Rossendale Street, Clapton, London, E.S. It is supplied in 7-lb., 14-lb. and 28-lb. tins, and in 1-cwt. kegs.

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The paste is applied direct to the wall and NOT to the Wallcovering.



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Architect: Harold Wyatt, A.R.I.B.A., M.S.I.A.

Specification No. I. PLASTER WALL-DRY AND CHEMICALLY NEUTRAL

Dry plaster walls, such as interior walls and most exterior walls in existing buildings, require little treatment and provided steps are taken to ensure smoothness, fixing can proceed at once. Preparation. Rub the surface well with glasspaper to remove any roughness, loose particles, efflorescence, etc. Cracks to be filled in with plaster filler and broadknifed off and finally rubbed smooth.

Apply one coat of size.

Fixing. Apply paste to wall, approximately I-lb per three square yards (NOT to Lancaster Wallcovering), brush well, lay off evenly and allow to dry for a few minutes. Hand Wallcovering dry from ceiling downwards and pull into correct vertical position. Lengths to be close butt-jointed. Smooth out with paperhanger's brush, and rub down vigorously with damp cloth to ensure complete adhesion to wall. Sponge off surplus paste and finish with wash

### Specification No. 2 PLASTER WALL-NEW

Lancaster Washable Wallcovering should not be used on any walls which are still wet. Reasonable time should be allowed for the plaster to dry and for efflorescence to subside.

Preparation. Rub the surface well with glasspaper to remove any loose particles, efflorescence, etc. Make good any defects in the plaster with plaster filler, broadknife off and finally rub smooth.

Allow to dry thoroughly.

Treat with one coat of a reputable alkali-resisting primer. Apply freely, brush well, and lay off evenly.

Allow to dry thoroughly.

Apply one coat of size.

Fixing. Instructions as Specification

### Specification No. 3 CEMENT WALL

Lancaster Washable Wallcovering can be used successfully on cement finishes provided the surface has been steel-floated and is reasonably smooth. Cement finishes, however, are particularly prone to alkalinity and efflorescence, and suitable treatment is necessary before fixing. The Wall-

covering should not be applied to surfaces which are still wet, and adequate time must be allowed for the cement to dry.

Preparation. Brush thoroughly to remove loose particles, efflorescence, etc. Give one coat of a reputable alkali-resisting primer. Apply freely, brush well and lay off evenly. Allow to dry thoroughly.

Apply one coat of size.

Fixing. Instructions as Specification No. I.

### Specification No. 4 PAINTED WALL

In order to use Lancaster Washable Wallcovering on walls that have previously been painted, it is only necessary to rub down with sandpaper to give good adhesion.

Preparation. Wash down thoroughly to remove grease. Rub down vigorously with sandpaper or pumice-stone to obtain the necessary key. Make good defects in the plaster with plaster filler, broadknife off and finally rub smooth.

Fixing. Instructions as Specification No. I.

### Specification No. 5 WALLBOARD

As Lancaster Washable Wallcovering provides its own cotton backing, it is most suitable for use on wallboard surfaces as joints do not need

Preparation. Fill in nail-holes and joints with plaster of Paris and rub smooth. Dust off thoroughly.

Apply one coat of size.

Fixing. Instructions as Specification No. I.

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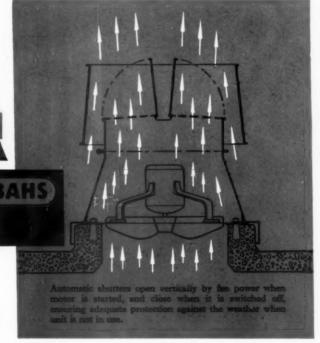
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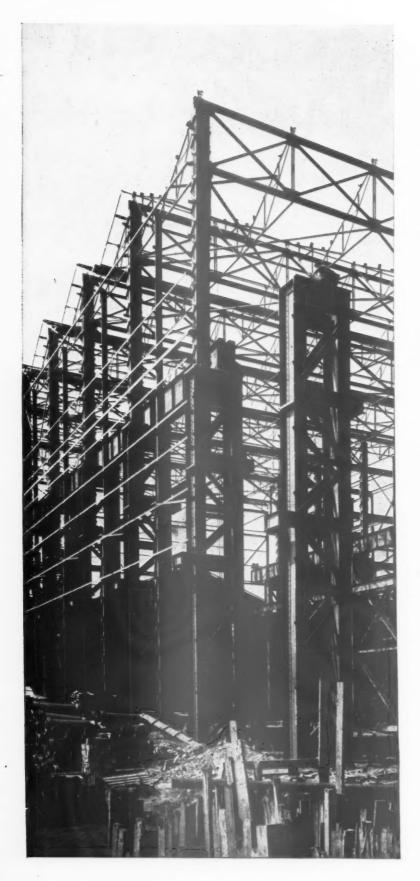
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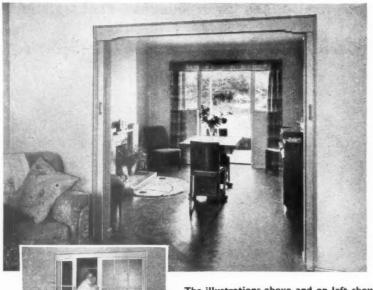
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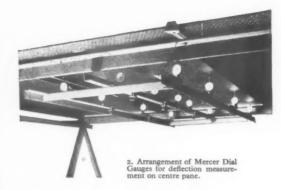
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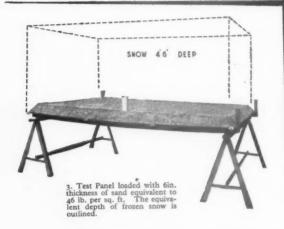
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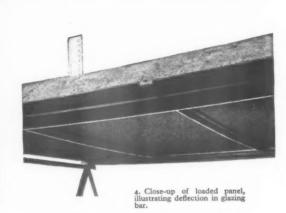
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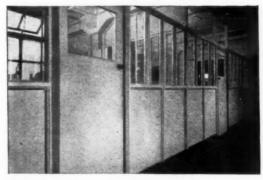
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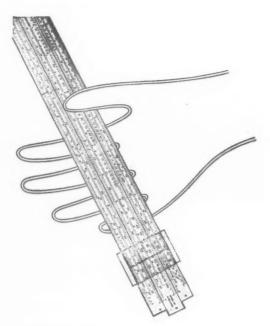


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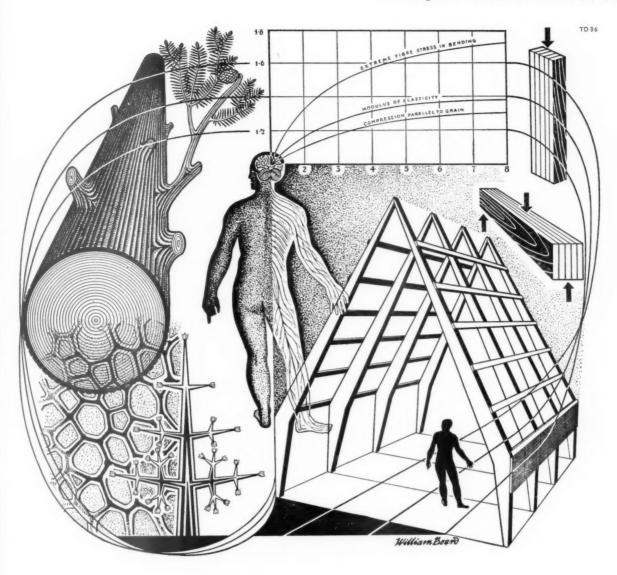
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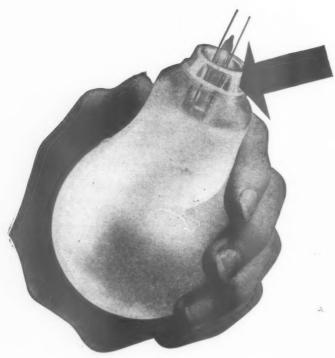
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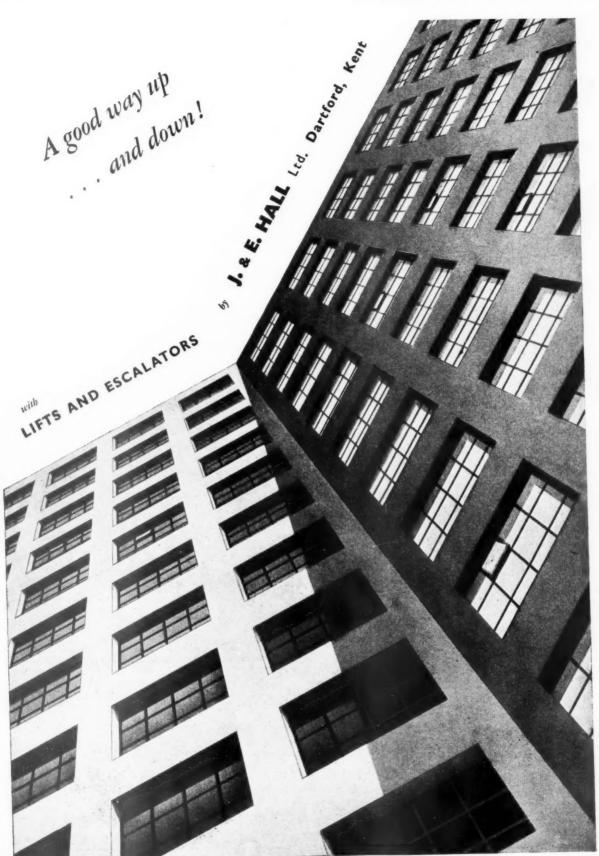
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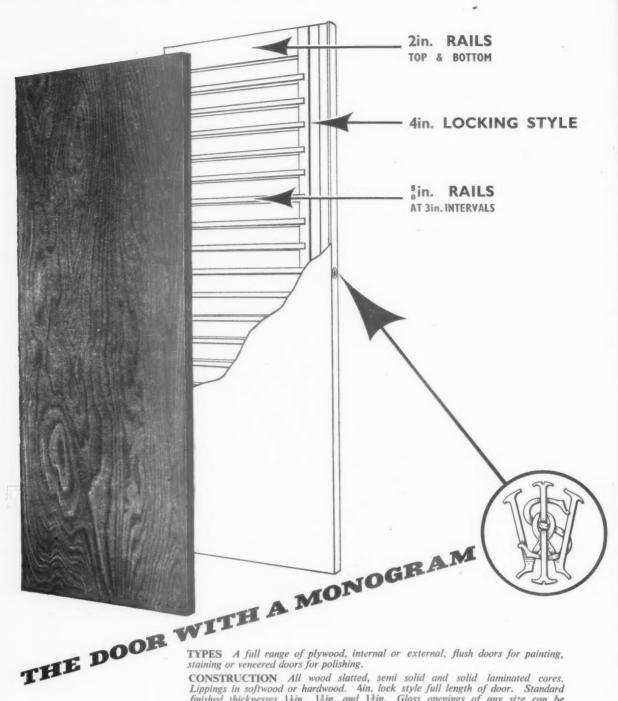
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THE NEW CLIFFS OF DOVER

Interest in the Dover flats competition is not likely to terminate with the announcement of the result. There will certainly be a lot of controversy about this project—not so much about the architecture (readers must make up their own minds about this when they see the designs illustrated in this issue) as about the idea of placing such towering cliff-like blocks on this important site dominating the Dover water-front, and commanded by the Castle.

It is a question of scale rather than architecture. The winners of the competition, Dalgliesh and Pullen, did what they were asked to do; but should not

the conditions have insisted on a design more in scale with the surroundings? Or is it the Dover Council who required such a degree of over-building in spite of the risk of spoiling the amenities of the town? All this will no doubt come out later. Those who share my misgivings can at least take comfort from the fact that the design has still to be considered by the Royal Fine Art Commission.

### RETORT DISAPPOINTING

Dover-well known during the war as one of the most vulnerable towns in Britain-seems fated in fact to become one of the most vulnerable towns for reconstruction. After escaping the threat of a gigantic statue of Winston Churchill smoking an artificially illuminated cigar proposed for a site on Shakespeare cliff: after being considered as the possible home for Reg Butler's Political Prisoner: after the almost certain promise of the flat development: a new blow is poised above its ancient streets-a Vertical Retort House for the Gas Board (see illustration overleaf).

A long article in the Gas Journal which describes the new installation goes into details, not to say raptures, about the interior fittings, which include piped vacuum with plug-in points for cleaning all over the building, but says nothing about the exterior. The author doesn't say whether he likes it or not, and doesn't even say who the architect is.

ASTRAGAL would be very interested to know who the architect was, how the gratuitous art-work on this building is justified, and where the Royal

Fine Art Commission come in on this one. It looks to ASTRAGAL as if Dover—so often called the Gateway to England—will soon become a gateway through which only the blind can happily pass.

### OUR MEAT HIS POISON

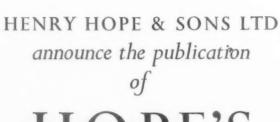
Lord Silkin, who is now a plannee, just like you and me, has recently had some rude things to say about the way in which his Act is working out in practice. He thinks that inquiries have the atmosphere of a murder trial for the poor would-be developer cowering in the dock. But it's not very amusing for the planner either, standing for days on end, being cross-examined by counsel who seem far more interested in splitting legal hairs than in planning.

The trouble with all planning is that it's all right as long as somebody else gets planned: and it's odd that Lord Silkin should feel so bitter about it.

### CREDITS MISSING

ASTRAGAL was surprised to find that only a few of the captions to architectural photographs in the contemporary section of the RIBA's current exhibition included the names of architects. Presumably the organizers wanted to make it clear that this was a photographic exhibition, rather than an architectural one. But as the captions give details of the buildings, and are not restricted to such titles as "Abattoir at Dusk," there seems no reason why architects should not have been given a mention.

WINDSOR TAKES ALL—OR SOME OF IT Scarcely had ASTRAGAL'S eyes ceased from their nostalgic moistening over Battersea (see last week's A.J.) when



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Post-war Dover, which has already seen the erection of the car-ferry lifts on the right, designed by Dover Harbour Board's, Chief Engineers' Department, is now promised the vertical retort house, above, and the sea-front development at the top of this page. ASTRAGAL discusses both these projects on page 463. The competition-winning sea-front scheme is illustrated on page 472.



they lighted happily on the news that a smaller version of René Clairland was now projected for a 14-acre riverside site at Windsor. The sponsors are a firm of caterers; the architect—excellent news—is again James Gardner, the layout—see illustration below—seems admirable.

There will be no fun fair but attractions will include a zoo, a tree-walk, grottoes, cafés, beer gardens and an area labelled "Petrified Monsters."

Opinion in Windsor upon the

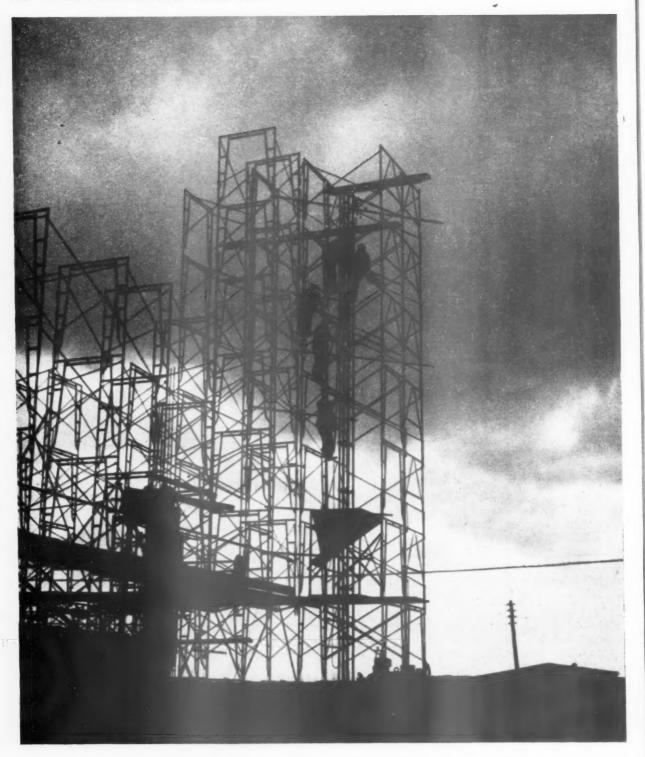
scheme is, it is said, sharply divided, and no doubt there will be some fascinating debates in the council chamber when the project is debated during the next week or so. ASTRAGAL is firing in favour of it. Something like a million and a half visitors went over the castle last year—most of them with time on their hands afterwards and few places in which to spend it—as anybody who has tried to force his way through the choked streets of Windsor on a summer Sunday afternoon will well remember. James Gardner can be trusted to

make a discreet as well as lively job of his opportunities—in this case a splendid site and hoards of idle strollers—and the Town Council—or at least the Chief Constable—will probably be thankful to have a solution to the summer traffic problem.

What the town planners will say remains to be seen—though to do them justice many of them nowadays are less pontifical and more imaginative than some of them were a few years ago.



Proposed pleasure gardens at Windsor, designed by James Gardner. See note above.



# Recording British Building

This picture (by John Stillman) of part of Glen Rothes colliery under construction is one of the photographs on view at the RIBA'S Exhibition of Architectural Photography (organised in collaboration with the Royal Photographic Society). (Colliery designed by Egon Riss, chief production architect for the National Coal Board, Scottish Division). It is one of the few unconventional pictures in a display of efficient but unimaginative views

of buildings. Perhaps entrants assumed that photographic records of a good quality would meet with more approval than "clever" shots. Certainly such photographs will be preferred by the RIBA for its proposed collection of photographs of architects' work. The Institute is to be congratulated on its proposal to form a record of post-1953 buildings. Readers who want to know more about the scheme will find details on page 470.

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#### REVISED GUIDE TO ARCHITECTURE

If there is one book on Modern Architecture which the average intelligent citizen may be assumed to have read, it is J. H. Richards's *Introduction to Modern Architecture*. It came out in Pelican format in 1940, and one can still find a battered copy, covered in the tea-stains and telephone messages which are the mark of a much used book, on most people's shelves. Now, after thirteen years of unrevised reprintings, a completely new edition has been produced.

The new edition should be called extended rather than revised: the text has been given a wider American coverage, and has been brought down as far as the Festival, UNO and Pimlico, the illustrations having been supplemented accordingly—a point which needs to be borne in mind, or one might find their arrangement rather odd. Their selection, too, might strike you or me as being a little odd, too, but remember this-the author's job is not to include your favourite photographs or mine, but to be fair to the growth and present state of the Modern Movement in 44 pages of plates, and his audience is not primarily "trade," but a much wider public, by whom (as well as by ASTRAGAL) it will be warmly welcomed.

#### HIGH-UP KENSINGTON

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Whatever the Royal College of Art may be up to in the way of architectural teaching will be watched with interest. It seems a trifle odd to subordinate architecture-even if it's only on the administrative side-to Interior Design, but otherwise the College would seem to be in a strategic position, and in any case the place is sufficiently stuffed with architects to make sure that architecture is Since the still thought of seriously. College does not purport to train architects as such, it is free from the stony hand of Portland Place, and Serge Kadleigh, therefore, as the new "Reader in Architecture," can do almost anything, and if-as is believed to be his task—he can interest painters and sculptors in architecture, then he can do anything. It is a most interesting appointment; as a personality he possesses the authentic Exhibition Road note, and we send him our best wishes.

ASTRAGAL

#### POINTS FROM THIS ISSUE

RIBA to record British buildings ... pages 466 and 470

Results of Journal's survey of the profession ... page 470

Winning and unplaced designs in Dover flats competition page 472

The Editors

#### PRESENTING THE RESULTS

VERLEAF, Professor Bowen, the Journal's Guest Editor, recommences his study of the architectural profession. His information is the result of the sample survey conducted earlier this year. It is, of course, obvious that the more exact a survey the less startling are the facts produced to those who have been surveyed. By and large it should tell you "what you know already." So the scandalmonger is almost bound to be disappointed. The value of the survey is its confirmatory powers. What architects "know already" about their own profession is largely arrived at from guess-work, hunches, and deductions from meeting a handful of fellow architects. What Professor Bowen will tell is much more precise information which will prove how accurate the average architect's "hunch" really is.

For instance, most architects realise that there was a considerable intake into the profession during the 1930's, but no one, until Professor Bowen discovered it, could say with accuracy that 49 per cent. of the profession was aged from 34 to 48 and thus formed a very active "main body" to the profession. A "main body" which, as it ages, will have considerable troubles in store when it comes up against intense competition from the younger members of the profession.

#### COMPETITION ASSESSMENT

A few weeks ago we revived an old complaint about competition assessors. The assessor, we said, should write comments upon all the designs submitted. But since then the assessor of a very important competition—for the development of Marine Parade, Dover—has neglected to comment on even the prize-winning designs. He is not obliged to do so; the RIBA regulations merely state that he must report to (not on) the winning competitors. But surely the least reward that an unsuccessful entrant can expect in return for many hours of fruitless work is some indication of how the assessor's mind works. (This is sometimes a consolation.) The RIBA regulations should surely insist that reports (of a minimum length) be made on all winning competition designs.

#### FOCUS ON

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BATES, Arthur Henry, 1468, Rort, James House, Markey, James House, James House,

# Y O U

The JOURNAL's guest editor, Professor Bowen, recommences his study of the architectural profession by giving the results of an enquiry made earlier this year. (The names shown in the headpiece above were taken at random from the Architects' Register and are not related to the article.)

#### Guest Editor:

Professor IAN BOWEN

Results of the Sample Survey

WE can now begin a series of articles which will create a really comprehensive picture of the arcnitectural profession. The information has been derived from the sample survey conducted earlier this year. This, on grounds set out in earlier articles, may be taken to be reliable for most purposes. Where there is any substantial doubt as to its accuracy, the sample will not be used, or the extent of the possible error will be indicated. On many points the sample affords adequate evidence of the proportions (of different categories) into which registered members of the profession were divided in March, 1953. Some of the results will not be very startling or new; but the factual picture that can be built up from a series of analyses is interesting, and in some respects disturbing. For, unlike some

fession or as a closed shop.

But first the facts: what are the ages and the status of architects? How have they been, and how are they being, educated and trained? How is the system of registration working? How

other professions, architectural employ-

ment seems still incompletely organized

either educationally, or in relation to

the apparent social needs of our chang-

ing society, or even, perhaps, as a pro-

many architects are there in relation to the building needs of the country? Each of these questions will be dealt with in turn.

#### AGES AND STATUS

The age-distribution of registered architects reflects, to some extent, that of the country as a whole, but in some interesting respects varies from that distribution. The graph on page 469 illustrates the discrepancies.

There are, as might be expected, less registered architects proportionately aged 24-34 than males in that age group in the United Kingdom, but many more in the fifteen-year interval from 35 to 50. If these fifteen years are considered in three separate five-year groups, the group with the biggest proportionate "excess" (over the average) among architects is that from 45 to 50. Above 50 there are proportionately very nearly as many architects in each age-group as the average (with minor discrepancies for the 60-65 and 75-80 age-groups and those aged over 85—the latter being no doubt partly accounted for by the absence of returns from some of the oldest persons still on the register).

While in some respects this result is not surprising, in others it suggests some rather alarming conclusions. For it is evident that the "bulge" of architects aged 45-50 would, on normal life expectations, move forward in each quinquennium to the next age-group above it; and, as this bulge proceeds up the age scale, so the chances of entry to the profession at the younger ages will be diminished. Alternatively, the "bulge" will disappear. But this flat statistical result may mean much in the way of frustrated hopes and unfulfilled ambitions, for such a disappearance of the bulge would mean that men, now in the early or late forties, had abandoned architecture as a career.

The upper graph shows the ages of principals in private practice. This shows the same relative excess of persons aged from 35 to 50, but in addition it shows two rather interesting excesses, namely, for those aged 55 to 60 and those aged 70 to 75. The significance of these two special bulges may perhaps be more correctly guessed at when some further facts have been studied.

#### MAJOR DISTURBANCES

All the architects in our sample were, of course, registered architects. The three major disturbing influences in the lives of most of them were the two world wars (or one of these) and the consequences of the Registration Acts of the 1930's. Nearly two-thirds of our sample had their careers actually interrupted by one or other of the two world wars, and it is obvious that a career requiring a lengthy training is specially liable to such disturbance. This fact is a salutary reminder that the "normal"

career of an architect, in our times, is an abstraction rather than a description.

The Registration Acts laid down certain specific requirements for those wishing to register, or to call themselves architects. In the present profession there are, so our sample informs us, still 38 per cent. not possessing the present statutory qualifications, i.e., persons who took advantage of the various amnesties and loopholes which had necessarily to be allowed when the new scheme began. Only 62 per-cent. therefore of the present profession possess the full statutory qualifications. (It is self-evident that the average age of the 38 per cent. must exceed that of the 62 per cent.)

Another point that is sometimes overlooked in discussing the increase in the size of the profession is that the population of the United Kingdom has greatly increased over the last fifty years, and so, in even greater degree, has the annual quantity of construction. Standards and methods of building have altered, and, probably, a much wider range of technically sound alternatives has become available. These, too, have been major disturbances extraneous to, but profoundly influencing, architects' lives and careers.

#### EDUCATIONAL STATUS

Over the last fifty (indeed eighty) years there has been a steady upward trend in the age at which middle-class children leave school, and in the length and formality of school training. It is not surprising, therefore, that, on the whole, the younger age-groups now in the profession left school at 17 years of age, or older, more frequently than the older age-groups. Only 16 per cent. of those aged 34 to 43, inclusive, left school at the age of 15 or less, while for the 54-63 group this percentage was 43 per cent. (Incidentally, the percentage fell again, for the 64+ group, to 25 per cent., which suggests that the oldest group now living came from a social group rather higher than its immediate successors.)

Up to the 64+ age-group the percentage of those with school certificate (or its equivalent) fell with age, from 94 per cent. to 27 per cent.

These dry facts, in conjunction with what has gone before, bring out a situation not without its piquancy. The profession is clearly divided into two broad groups, the old and the young, the old being less well educated in the formal sense, though including a high proportion of successful men, the heads of private practices and leaders in their profession.

Where the dividing line between the two groups is to be drawn is arbitrary; no doubt some men in their early and middle forties count themselves in outlook, or in intention, young rather than old. But wherever each particular

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ary; and outthan ular individual may stand, that there is a line can hardly be denied; it has been especially clearly white-washed on to ground by the registration machinery, and the modern pattern of school and professional examinations.

It is clear from the interesting and courteous comments that we have received from so many architects, of every age and status, that this division is a source of concern to the older as well as to the younger members of the profession. The former are anxious to communicate their experience and skill, and even the lessons to be learnt from their own successes and failures, to the younger groups; the latter are eager to absorb this teaching. But the formal period of instruction seems somehow not yet fully to have solved this problem of communicating stored-up experience.

But to return to hard facts: a profession with, according to our sample, 15 per cent. of less than 34 years, 49 per cent. between 34 and 48, and only the remaining third above that age, is evidently intrinsically vigorous and potentially active.

But this unusually high proportion of middle-aged will presumably be found in five years time shifted to the right on the graph, and will then represent a relatively high proportion of men aged 39 to 54. The existence of this bulge, due to the large post-Registration Acts entry into the profession, may give rise to some problems, as the younger, schools-trained architects, predominantly in the age groups 29 to 39, come into competition with them.

#### PRIVATE AND PUBLIC

In our enquiry we were careful to distinguish between the main and the subsidiary employment of each architect.

TABLE 1
ESTIMATED DISTRIBUTION OF ARCHITECTS AT THE END OF 1952 WHO WERE REGISTERED PRIOR TO 31ST DECEMBER, 1951

1771			
	Number (mid-point estimate)	Per cent.	
Private practice	7,102	41.6	
national boards	1,417	8.3	
Local government	3,345	19.6	
Commercial, industrial, estates and consulting	358	2.1	
engineers	802	4.7	
Full-time teaching	68	0.4	
Not in United Kingdom	1.315	7.7	
Dead No longer in full time archi-	188	1.1	
tectural employment .	2,475	14.5	
	17,070	100	

By this means double counting was avoided, and official architects who were engaged on occasional private work were not included under the heading of private practice.

On this basis (which differs from that adopted in the Percy Thomas report) some 42 per cent. of the profession (over 7,100) were engaged in private practice, 8 per cent. in central government or by nationalized industries, 20 per cent. in local government employment and 2 per

cent. in the development of new towns. There can be no doubt, moreover, that there has been a shift from private practice to the other shown types of employment.

Table 2
Percentages of Architects Who Were Employed Both in 1938 and 1953, by Type of Employment

	1938	1953
Private practice	58	40
Central government,	11	15
Local government	23	27
New towns	_	1
Commercial, etc	6	6
Full-time teaching	l l	_
Not full-time practice	1	11
	100	100

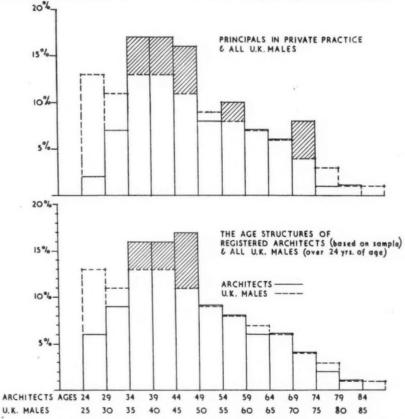
Those in our sample who were employed both in 1938 and 1953 included 40 per cent. in private practice in 1953, but no less than 58 per cent. in 1938. The main percentage gains were in

national and local employment.

Not all the movement, of course, was in one direction; people came into private practice, which gained from 1938 to 1953 over a quarter of what it had lost (gross), the net result being a substantial decline among those so employed. Furthermore, losses to other categories deserve attention.

It would be wrong to suppose, however, that private practice was declining as an attraction to the new entrant to the profession. If the occupations of those in our sample entering the profession since 1938 are analysed, they readily refute any such supposition, as is shown in Table 3 (overleaf).

The figures in this table suggest that as the post-war "bulge" of students completed their training and entered the profession, they tended to enter private rather than public practice since 1949.



The lower graph shows percentages of architects in each five-year age group from "24-29" to "84 and over" (the latter counting as one group): the total of all architects from age 24 upwards being counted as equal to 100 per cent. Thus about 6 per cent. of architects were aged 24-29, 9 per cent. were 29-34, and so on. For comparison the percentages of all males in the U.K. aged 25 and over, divided into five-year age groups, have also been shown. It will be seen that the age distribution of architects varied considerably from that of the country as a whole. There is, of course, no reason why the percentages should be the same. But the differences have to be explained, and the reasons for them discussed. The most surprising point, perhaps, is that despite the fact that from 1945-53 many more young men were entering architecture as a career than before the war, the age groups 24-34 were below the average. This was undoubtedly because of the proportionately still larger numbers who had entered the profession in earlier years, or by prolonged part-time study, and who were, at the time of our enquiry, aged 34-49.

The upper graph shows percentages of practising principals in private practice, in different age groups. It conforms in general shape to the first graph, except for the interesting excess of principals aged from 69 to 74.

Table 3
Occupations of Registered Architects Entering the Profession Since 1938 (Still with U.K.)

		AJ sample, 1953	RIBA estimates for 1949
Private practice Central government Local government New towns		Per cent. 64 4 16 10 6	Per cent. 50 9 32 2 7
	-	100	100

Some of the registered architects in our survey specialized in land agency work, or in branches of activity not commonly associated in the public mind with architecture. A very few (less than half of 1 per cent.) were teachers. The explanation of this last extraordinary figure may well (we have received some independent evidence that it is) be partly due to some teachers not being willing to pay a registration fee, although fully qualified to register. The architect directly employed by the commercial and industrial firms, though often well rewarded, does not seem to be increasingly important, and remained in 1953, as in 1938, at about 4 to 4½ per cent. of the total register.

#### DEAD, ABROAD OR RETIRED

These three categories together accounted for 23 per cent. of the sample, representing, if multiplied up, some 4,000 or so of the total 17,000 registered architects. The large number of persons still on the register, though no longer in this country, is quite surprising. So, too, is the even higher number of persons who have retired from full-time architectural employment—a figure estimated on the low side, moreover, since no doubt missing returns could be due preponderantly from still others in this category.

Little is known about the precise occupations of the large number of architects living abroad. It would seem, however, that in times of general depression some of them might return to the British market for employment.

Finally, the proportion going into "retirement" must be regarded as unusually high, and, as covering letters have confirmed, it represents much more than a "normal" process of retirement at a given age.

#### TRAINING

The different types of architectural training may be classified under four headings:—

- (a) Full-time training at a school of architecture.
- (b) A combination of some school training with experience in an office, either before or after the period at the school.
- (c) Pupilage, articles, or "apprenticeship" (as it is called in Scotland).
- (d) Spare-time study, combined with work in an office, but not necessarily by formal agreement with the employer.

Undoubtedly there has been a shift towards full-time training at a school of

architecture ((a) above), and some falling-off in the relative importance of pupilage ((c) above) in the last few years. But it is not easy to assess this change, because there are numbers who follow course (b), that is they have combined articles with some years of school training.

Those in our sample who had had no formal school training were, as might be expected, concentrated in the older age groups. In several age groups men are to be found who followed course (d), i.e., they took their training part-time while attending an office.

What may be deduced from this? It is by no means certain that method (d) is dying out as a way of entry into the profession, even though the lowest percentage following it is found in the youngest age group, for the war period was not conducive to the taking on of unarticled staff. Should such staff increase again in the future, part-time study may revive as a means of entry.

The importance of full-time school training has grown, but only recently, so that in the profession as a whole the articled, or part-time trained architect is still the most typical. Such is the relation of old to young in all walks of life, that, quite apart from any shortcomings school training may have, fault is bound to be found with the new methods of training. Unprejudiced indeed is the man who does not secretly, if not openly, believe that his own form of education had merits above all others.

Among those in our sample who gave details of their training, 25 per cent. were schools trained, 12 per cent. combined schools training with office training, and the remainder of 63 per cent. were office trained (among these 26 per cent. had taken finals and 37 per cent. had not).

Training in the schools takes time, and usually follows, moreover, an extended prior period of ordinary education. From our returns it appears that while 52 per cent. of those with schools training took five years to attain RIBA finals (or the equivalent), and a few (15 per cent.) finished more rapidly, the remaining 33 per cent. took six or more years (7 per cent. took eleven years or more). Those taking "combined" courses, i.e., following method (b), took even longer to complete, and so did a portion of the part-timers.

TABLE 4
LENGTH OF TRAINING STATED AS HAVING ELAPSED
BETWEEN THE COMMENCEMENT AND COMPLETION OF
STUDY FOR RIBA FINALS OR EQUIVALENT

The figures are:-

	(Percentage of each group)			
•	(a) Full-time schools	(b) Combined schools and offices	(d) Part-time finalists	
4 years 5 years 6-7 years 8-10 years 11 or more	15 52 10 16 7	7 15 12 22 44	5 4 16 20 55	
	100 %	100%	100 %	

This table makes no deduction for war service, because war service cannot be regarded in all cases as so many wasted years. Furthermore, special finals were available, and so were grants for fulltime post-war courses. The periods elapsing might be expected to be reduced somewhat in an extended period of peace; but, on the other hand, military service in peace-time may extend the period between commencement in a career and completion. War service complicates the position, but does not alter the basic fact that those following course (b) and (d) finish their training even later in life than full-time

The consequences for the profession of the late ages of completion will be considered in the next article in this series.

# NEWS

#### RIBA

## Photographic Collection

The RIBA is to collect photographs of architects work for reference purposes. Architects who want to submit pictures should send them (unmounted and printed on glossy paper, 10 in. by 8 in.) to the Secretary, RIBA, 66, Portland Place, W.I. marked in the top left-hand corner Photographic Collection. Not more than two separate jobs may be submitted each year; and in each case not more than three photographs (or two photographs and one 8-in. by 10-in. drawing) may be submitted.

On the back of each photograph should be given the name and address of the photographer (with reference number), the copyright holder and the architect; the nature of the job, its location and the date it was completed, and details of any publication in which the job has been mentioned.

Photographs of anything built since 1935 may be sent in until December of next year, after which no pictures of work completed before 1945 will be accepted.

All photographs will be retained for one year. Those selected for the collection by the Public Relations Committee (which will not be told the names of architects concerned when judging) will then be filed.

#### LISBON

## Architects' Congress

The following report of the International Union of Architects' third congress, at Lisbon, was written by Mark Hartland Thomas:—

Lisbon is a pleasant city (rebuilt on its seven hills after the earthquake of 1750) which seems to specialize in entertaining international congresses. There was a doctors' congress doubling with the architects' conference at the beginning and one about "The Family" towards the end. Everything was planned by the Portuguese architects, led by Carlos Ramos, of Oporto, with the greatest efficiency. For example, the list of participants who signed in on the first day was available as a neatly printed booklet before the closing session. Delegates, some with their wives, were whisked off in motor coaches to see the new housing estates (some very good architecture there) or to

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states or to The IUA exhibition, which is to go on tour, was well arranged in a hall with an awning of national flags to mark the positions of the different nations' contributions. (The RIBA contributed a creditable group of panels from Great Britain.) When the main hall was found to be too small, it was the Portuguese exhibit that was relegated to

a room upstairs—a graceful gesture.

Apart from its social side, an international congress must be judged by the breadth of its representation. In this respect Lisbon, 1953, can claim success, for some 400 architects, from 37 different countries (including Russia and eastern Europe, as well as USA, and all continents), took part. As in all congresses, it was the personal meetings and discussions between delegates that were most valuable, for the resolutions at the end (with one important exception) ran true to form in confining themselves to broad generalizations.

The text of the resolutions is not yet to hand, but they will be found to show that the problems facing the profession are world-wide, transcending economic and ideological boundaries, and that architects

are beginning to adopt something like a common front in questions of town planning, housing and industrialization.

The one exception was the resolution on modular co-ordination. Here the congress took a definite lead and adopted the basic module of 4 inches or 10 cm., calling upon all architects to use their influence to extend its use throughout the building industry. Linked with this resolution, it invited UNESCO to initiate studies towards an international convention for the equalization of the inch and metric systems of measurement.

ment.

Sir Patrick Abercrombie opened the congress with a lively address on the development of architectural style, in which he called for more designs in a manner that (to the distress of some of the purists) he called "pompier": but his meaning was clear enough: he demands from modern architecture more decent pedestrian unassuming designs that combine together well to make cities without ostentation. He was a most active and charming president and was most active and charming president, and was seen everywhere talking to everyone with great vivacity. During this congress he vacated his office in favour of his successor. Jean Tschumi, of Lausanne.

# DIARY

Identification of Unknown Drawings. RIBA Library Group Meeting at the RIBA, 66, Portland Place, W.1. 6 p.m.

OCTOBER 19

Symbolism and Architecture. Fello Atkinson, Reg Butler, Sandby Wilson, Robert Furneaux Jordan. At the AA, 34, Bedford Square, W.C.1. (Forum organised by AA Students' Committee.) 7 p.m. OCTOBER 21 Some Social Aspects of New Town Development. G. Brooke Taylor. At the TCPA, 28, King Street, W.C.2. (Sponsor: Students' Planning Group.) 6.30 p.m. OCTOBER 22

Flats at Marine Parade, Dover. Exhibition of competition designs at the RIBA, 66, Portland Place, W.l. Weekdays, 10 a.m. to 7 p.m.; Saturdays, until 5 p.m. UNTIL OCTOBER 28

Architectural Photography. Exhibition at the RIBA, 66, Portland Place, W.I. (Sponsor, RIBA and Royal Photographic Society.) Weekdays, 10 a.m. to 7 p.m.; Saturdays, until 5 p.m. UNTIL OCTOBER 29

#### Assembly hall for Middlesex School

Right, the assembly hall at Blackwell Hall secondary modern school for 900 pupils, at Headstone Lane, Harrow, Middlesex, which, together with an administration block and gymnasia, forms the second stage of development. The hall contains 683 fixed seats, 277 loose seats, an area of 1,800 sq. ft. for dancing and free activities and a stage 20 ft. deep, 56 ft. wide and 26 ft. 6 in. high. Total floor area is 9,120 sq. ft. Second stage buildings designed by John and Elizabeth Eastwick-Field for Middlesex County Council.

#### BUILDINGS IN THE NEWS

#### **Bus Garage for London Transport**

Left, the Stockwell garage designed by Adie, Button and Partners for London Transport, provides parking space for 200 buses. The roof consists of r.c. arches linked by barrel vaults, the span is 194 ft., the height to the centre of barrels is 54 ft. There are nine bays, each 42 ft. wide. (Consulting engineer, A. E. Beer.)



# WINNING AND UNPLACED DESIGNS IN COMPETITION FOR

# SEA-FRONT FLATS AT DOVER

On the following pages we illustrate the six prizewinning designs for the redevelopment of land in Marine Parade, Dover, organized by the Borough of Dover. Following the prize-winning designs are five unplaced schemes. These are illustrated because they present an original approach to the problem either in siting or in the planning of flat and maisonette types. The site is  $6 \cdot 5$  acres in area and is situated along the sea-front in the outer harbour. Marine Parade forms the south-eastern boundary to the site. A proposed new road to the eastern docks forms the north-western boundary and existing roads form the south-west and north-east boundaries. The competition conditions called for 303 dwellings of various types. There were no height restrictions. The assessor was Arthur W. Kenyon.

FIRST PRIZE-WINNING DESIGN. By KENNETH DALGLIESH AND ROGER K. PULLEN: ASSISTANTS, R. H. FRANCIS AND G. H. BEECH





Kenneth Dalgliesh and Roger K. Pullen have been in partnerhip since 1932 and practice from a one-time residence of Anthony Eden off Portman Square. Although this is their first competition it is not their first piece of seaside architecture, for they designed Marine Court, St. Leonards (130 flats, 14 storeys) before the war. They decided to enter the competition because they both know Dover well. The partners specialise in domestic architecture but will also be remembered for the amphitheatre and the tea and dance pavilions in the Festival Pleasure Gardens and the weather same at Twickenham Football ground. Dalgliesh, left, born 1887, in Nottingham. He trained at the AA under Hugh P. Maule and became an associate in 1912. Married, with five children, lives at Sidcup, likes sailing. Pullen was born in 1909 in Northamptonshire. He also trained at the AA, under Roberts Atkinson and Howard Robertson, and became an associate in 1932. A bachelor, lives in a flat above the office; has just started fishing.

# FIRST PRIZE-WINNER'S REPORT

Kenneth Dalgliesh and Roger K. Pullen, winners of the first prize of 1,000 guineas, submitted the following report with their design for flats in Marine Parade, Dover:

The development makes provision for a total of 301 flats incorporating 1,003 habitable rooms as follows:—39 two room flats

The development makes provision for a total of 301 flats incorporating 1,003 habitable rooms, as follows:—39 two room flats with a total of 78 habitable rooms accommodating 85.8 persons; 139 three room flats

with a total of 417 habitable rooms accommodating 458.7 persons; 107 four room flats with a total of 428 habitable rooms accommodating 470.8 persons; 16 five room flats with a total of 80 habitable rooms accommodating 88 persons.

Provision has been made for 52 lock-up garages and communal garage space has been provided, in addition, for approximately 65 cars.

There are 308 stores for the use of the occupants of the flats, and also a main boiler house and fuel store required for supplying hot water and background heating.

LAYOUT.—The flats are divided into 14 separate adjoining blocks, blocks I-IX being 9 storeys high and blocks X-XIV 15 storeys high. The lower series of blocks are in line and facing directly out to sea in a S.E. direction, the sitting room—and at least one bedroom in every flat—having an uninterrupted sea view.

The higher series are in crescent form,



Elevation facing sea.

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and face generally due south, also having an uninterrupted sea view, with the exception of certain 2-room flats in block X. It is not possible for any occupant of any flat (with the above exception) to see the rear elevation of any other. The flats have been laid out in the above form, not only to ensure that they have a sea view as well as a maximum amount of sunlight and privacy, but also careful consideration has been given to the general silhouette and massing, as well as the setting of the blocks, bearing in mind the very important position that this site occupies, particularly when viewed from the harbour and its relation to the cliffs and castle above, the latter forming a background to the higher range of blocks.

Consideration has also been given to the treatment as seen from Camden Crescent and Granville Gardens, and also having regard to the future development of the land to the N.W. of the New Road.

A service road enters the site from Wellesley Road opposite Camden Crescent, and passes along the rear of blocks I-IX giving access to the rear entrance of these blocks, their refuse chambers, the lock-up garages and fuel store of the main heating chamber or boiler room, and thence to the communal garage. Ample turning space is provided in this road for fire service and refuse collecting vehicles. Provision has been made for two points of communication between this service road and the front access road by passing under the blocks dividing them, thus permitting residents to bring their cars from the garages to the front doors of each block without leaving the site.

There is a further service road behind the higher blocks X-X IV giving similar access to the refuse chambers, and for the use of the fire service. There is, in addition, an entrance to the communal garage from Marine Parade.

Wellesley Road is shown connecting to the New Road to Eastern Docks but this is not essential for the circulation of the roads serving the flats. The only other connection to the New Road is the service road behind blocks X-XIV.

There are a further three points of entry for pedestrians from this road, the main one of which is immediately opposite and on the axis of Woolcomber Street, thus forming a vista through the large archway beneath the flats at this point.

PLANNING.—Each block is served by its own individual lift with collective control in both directions, main staircase and additional fire escape staircase from the sixth storey upwards, the latter having direct communication with the main staircase and lifts in adjoining blocks at top floor level. In each block, except block X, two flats are served by each lift on every floor level, the lift in block X serving three flats per floor. The

lift shaft also contains a dry riser with a hose connection at ground floor level, and further connections on each upper floor, thus enabling the fire service to connect their pump at ground floor level and their hoses at any of the upper floors.

Refuse chutes have been provided at the rear of each block, the access to them being from small private balconies outside each kitchen, thus ensuring freedom from any unpleasant smells in the flats should the chutes, for any reason, become fouled, and the nuisance of untidy tenants dropping rubbish is confined to the individual concerned. The chutes rise to roof level so that they can be cleaned from the top.

Service ducts pass vertically through each flat and contain hot and cold water supplies, cold rising main, soil and rainwater drainage, electric mains and telephone cables, etc. Access to this duct is provided at each floor.

A refuse chamber has been included at the bottom of each chute at ground level with doors facing the rear service road, thus ensuring easy clearance of rubbish.

All flats have rooms of the required superficial area within a margin of approximately 3 square feet. A separate w.c. has been provided in each case, with an additional w.c. in the bathroom of the 4- and 5-room flats. The bathroom w.c., drying cupboard, kitchen and airing cupboard (with calorifier) in each case are arranged around the vertical duct for economy in hot water supply, drainage, etc.

drainage, etc.

The 3-, 4- and 5-room flats have space for a perambulator off each entrance lobby, the lobby itself being ventilated directly to the open air or by a trunk. The broom and meter cupboard in each flat is shown opening into the kitchen but in all cases this could open into the lobby, if desired.

The larder vents all face either N, NE or

NW.

Spacious balconies have been provided to all flats above ground floor in blocks I-IX, and above first floor in blocks X-XIV, the first floor flats being at terrace level. In all cases, the living room has a balcony, and about 50 per cent. of the main bedrooms. Where bedrooms do not have a balcony, that to the living room is equivalently larger, thus each flat of any one type has the same aggregate area of balcony space. Where balconies are not screened from the adjoining flats by staircase towers, individual protective screens have been provided at the ends.

STRUCTURE.—All blocks are of a monolithic reinforced concrete structure, each block having six 6-in. reinforced concrete transverse vertical spine walls, one each side of the staircase and lift towers, one at each end of each block and an intermediate one between the staircase tower and the end of the block, forming an internal partition.

All floors and the roof will be 5 in, solid reinforced concrete, the cantilever balconies being 4 in, thick. The staircases and newel walls will also be in reinforced concrete.

Three 8 in. × 12 in. reinforced concrete beams span longitudinally at floor levels between the spine walls, one at the front, another at the rear and one intermediate beam approximately midway between and over the central dividing partition. The beams at front and rear are set back 4½ in. from the finished face of the building with a 3 in. projecting toe to carry the brickwork above. None of the external beams will be visible. Generally, the floors will span from back to front.

Expansion joints have been allowed between each block by building the end spine walls of each adjacent block 2 in. apart, thus also giving sound insulation between adjacent flats. The spine walls will be supported on reinforced concrete foundations.

EXTERNAL WALLS are of 9 in. brickwork and will be built 4½ in. proud of all concrete spine walls, beams, etc. At exposed ends of the building, spine walls will be covered with 4½ in. of brickwork tied back with metal cramps forming permanent shuttering. Similar treatment is adopted where the spine walls each side of the lift towers project beyond the external face of the building.

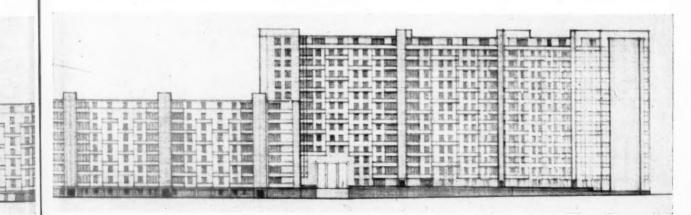
INTERNAL WALLS.—The inner lining of all external walls will consist of 2 in. slabs formed of lightweight expanded clay aggregate on felt strips, with a 2 in. cavity between them and the external brickwork. Partitions dividing the flats into various rooms will also be similar 2 in. slabs on felt strips. The wall enclosing the vertical ducts will, however, be in  $4\frac{1}{2}$  in. brickwork.

EXTERNAL FINISHES.—The roof will be covered with asphalt on screed laid on an insulating bed of 2 in. lightweight expanded clay aggregate. The roof to the communal garage or terrace will consist of a concrete paving on asphalt, incorporating pavement lights.

External brickwork will be in a warm grey stock with light pointing, except at ground floor, where a dark purple brown matt finished tile will be used.

Balconies will be used.

Balconies will be covered in hard asphalt on their upper surfaces, the soffites and fascias to be bush hammered and treated with a coloured cement wash. All exposed concrete at window heads, and string course at first floor level, will be treated similarly. The balcony fronts will consist of 1 in, thick coloured stove enamel "Holoplast" panels in galvanized metal tubular frames, with light steel rod ornamentation. Continuous vertical tubes will connect the external angles of balconies for the whole height of the buildings, and thus contribute towards a



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graceful vertical treatment, all metalwork being painted.

Windows will be specially designed, stormproof, timber framed casements, painted, with low cills to give uninterrupted vision. Access doors to all balconies will, similarly, be in timber, painted. INTERNAL FINISHES.—All walls and ceilings to all rooms, staircases, lobbies, landings, etc. (except stores) will be plastered. Quarry tile internal cills.

The floors of all rooms, with the exception of kitchens, bathrooms and w.c.s will be boarded on battens secured to concrete floors

by insulated clips. The bathrooms, kitchens and w.c.s will have thermoplastic tiles on screed. All rooms will have 3 in. softwood skirtings, metal trim door frames and timber flush doors. All rooms will be distempered, glazed tiles being fixed around the bath and over the sink in the kitchens, which will also have standard kitchen fitments.

Block 1

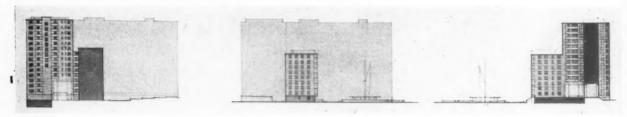
Blocks

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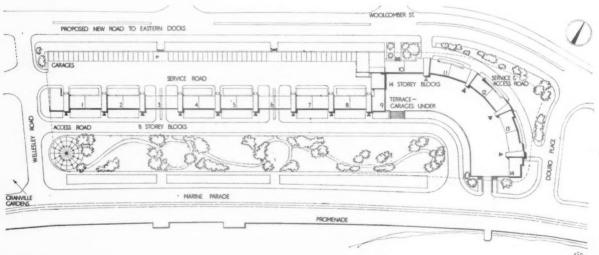
North elevation.



Section through block 8.

West elevation.

Section through block 11.



Site plan.



Blocks 11 to 14. Two-bedroom flat (829 sq. ft.)



Three-bedroom flat (905 sq. ft.) [Scale:  $\frac{1}{34}$ " = 1' 0']



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Block 1. One-bedroom flat (684 sq. ft.)



Block 9. Three-bedroom flat (1,047 sq. ft.)



Block 10. One bedroom flat (617 sq. ft.)

[Scale 21" = 1'0"]



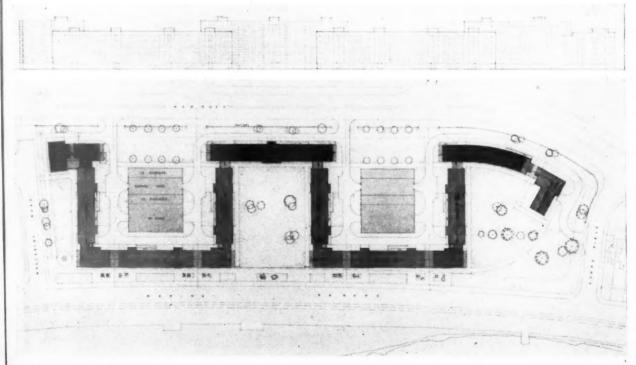
Blocks 2 to 8. One-bedroom flat (594 sq. ft.) Ground floor stores



Two-bedroom flat (791 sq. ft.)

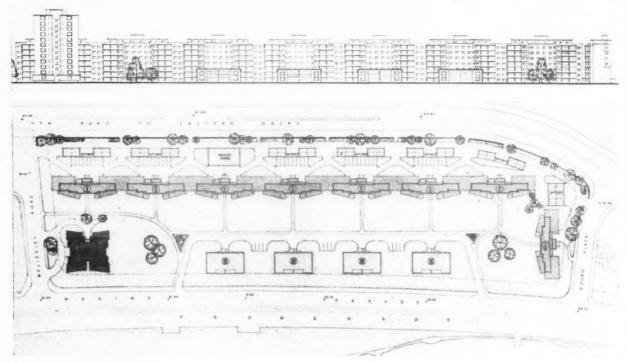
Store, first to fourth floors

# SECOND PRIZE-WINNING DESIGN By F. RUSSELL COX

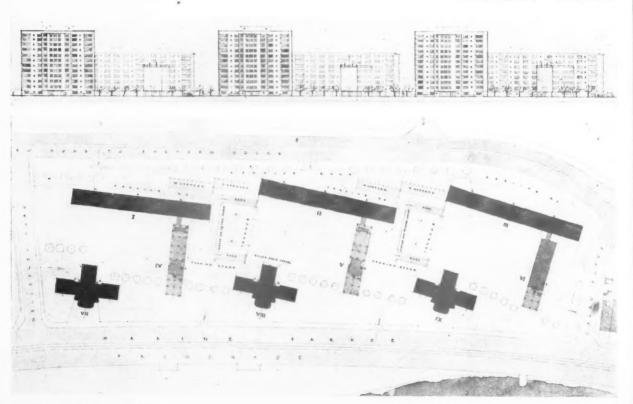


Site plan and elevation facing sea.

# THIRD PRIZE-WINNING DESIGN By JACKSON AND EDMONDS



Site plan and elevation facing sea.



Site plan and elevation facing sea.

FII

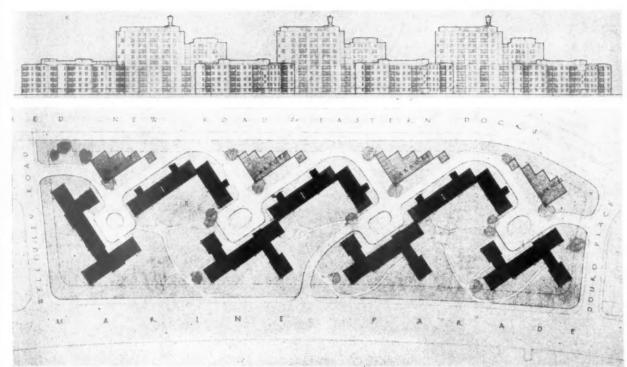
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# FIFTH PRIZE-WINNING DESIGN By STEWART AND HENDRY



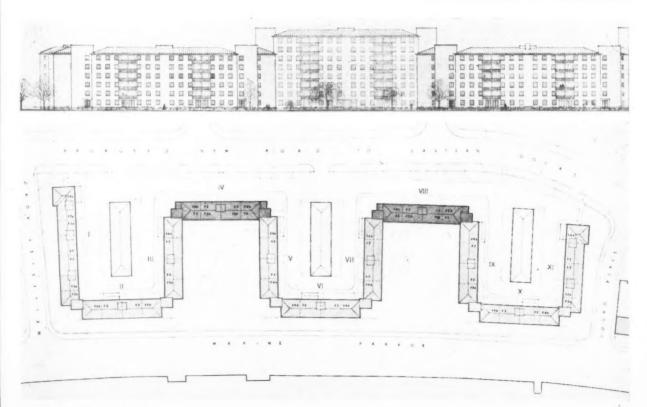
Site plan and elevation facing sea.

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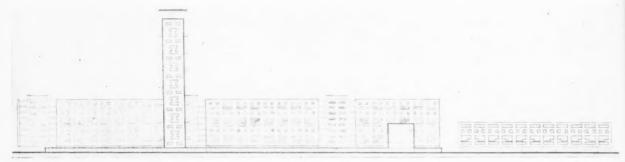
SIXTH PRIZE-WINNING DESIGN By J. BRANDON-JONES AND KENNETH G. MILLER



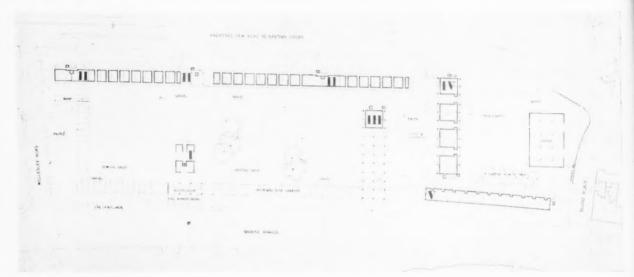
Site plan and elevation facing sea.

### Five Unplaced Designs

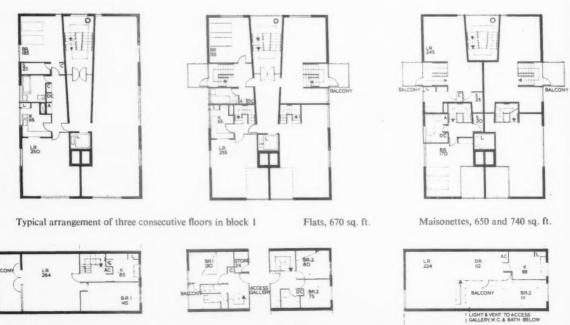
# DESIGN By CHAMBERLIN POWELL AND BON.



Elevation facing sea

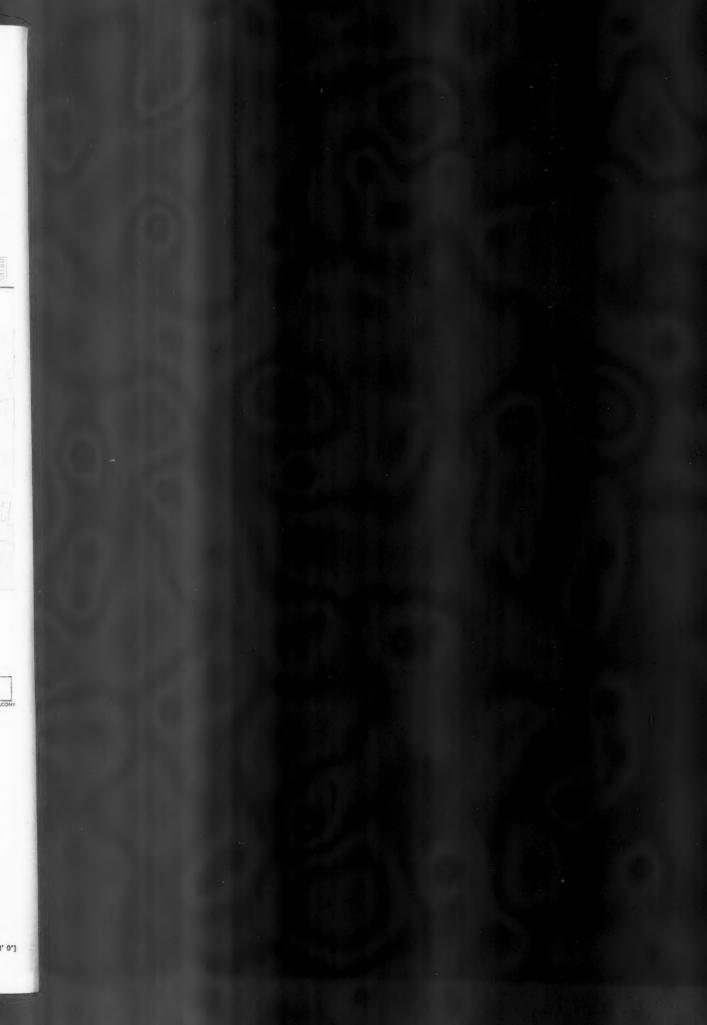


Site plan.



Typical arrangement of top three floors, blocks 3 and 4

Upper maisonette, 788 sq. ft.; lower maisonette, 816 sq. ft. [Scale: 1/4" = 1'0"]





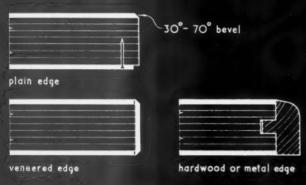
The Architects' Journal Library of Information Sheets 437. Editor: Cotterell Butler, A.R.I.B.A.

standard sizes of sheets: 4ft. x 8ft. and 9ft.

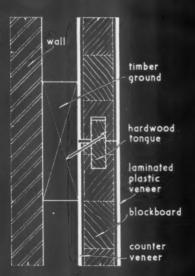
3 ft. x 7 ft. (limited colour range)

type of thickness	weight lb/sq.ft.	minimum radii of bends				
		9'-0" sheet		l"strip		
		cold	heated	cold	heated	
veneer	76	1/2	1-6"	4"	4"	3"
	16"	1	2'-6"	1-6"	8"	6"
panel 5/3"	1/6"	1	2'-6"	1-8"	9"	7"
	11/6	not rec	ommended	1-3"	1-0"	

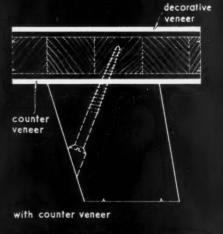
SIZES, WEIGHTS AND BENDING RADII.

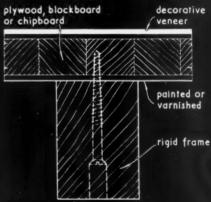


EDGE FINISHES.



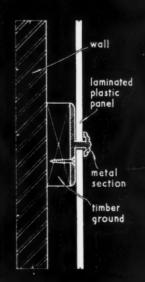
APPLICATIONS OF VENEERS.





FIXING OF VENEERS TO BASE IN RELATION TO TYPE OF FRAMING.

without counter veneer



APPLICATION OF PANELS.

wall

laminated

plastic

veneer

adhesive plaster

> cover moulding

> > floor finish

#### 15.S6 'FORMICA' LAMINATED PLASTICS: VENEERS AND PANELS: GENERAL DATA

This Sheet is the first of a series dealing with Formica laminated plastics. They are available in the form of veneers, for application to boards or walls, or as self-supporting panels. The table on the face of the Sheet gives the sizes, thicknesses and weights of the sheets and relevant information. The drawings give a general indication of the ways in which the veneers and panels may be used.

Formica laminated plastics consist of a compound assembly of paper sheets impregnated with synthetic resin, fused together under heat and pressure to form a homogeneous sheet. The core layers give resiliency and impact-resistance and are covered on one or both sides by a patterned and coloured sheet. The final layer is of clear paper impregnated with melamine resin, having a tough, hard-wearing surface which protects the colour beneath. The sheets for use as veneers have a decorative finish on one surface, the other being sanded to form a key for adhesives; panel sheets have a decorative finish on both surfaces.

#### Sizes and Weights

The first table on the face of the Sheet gives general data on the size, thickness and weight of Formica laminated plastic sheets. Special sizes may be cut

Bending radii: Both the veneer and the panels resist bending but they may be sprung and secured in position on curved surfaces. A narrow strip may be sprung to a curve of small radius but as the width of the surface to be curved increases, there is a corresponding increase in the radius to which the material can be safely bent.

With the application of heat, Formica may be bent to curves of smaller radius and on cooling the shape is permanently retained. This is a skilled operation requiring the attention of an expert.

Formica is unaffected by fruit juices, alcohol and soft drinks or by domestic detergents and bleaches, Alkaline solutions do not harm the material and organic or mineral acids in normal concentrations leave no mark if they are not allowed to dry on the surface. It is not subject to attack by destructive insects, is unaffected by prolonged dampness, the "cigarette-proof" grade (See Grades) excepted, and does not support fungoid growth. The surface transparency may deteriorate if subjected to strong, unfiltered sunlight, but the colours will not be affected.

Heat resistance: Boiling water or vessels containing it will not harm the surface or colour. The highest temperature that the material will safely withstand is 130° C. (265° F.)

Where Formica veneers are used it is desirable that the adhesive should be equally heat resistant.

Two grades are available, "standard" for general use and "cigarette-proof," which is more resistant to damage when small areas are subjected to high temperatures. The latter should not be used where persistently damp conditions prevail.

#### Finish

Two finishes are obtainable both giving a surface which is tough and resistant to scratches: satin matt which is recommended for general use on horizontal surfaces or for decorative panelling and glossy for washable vertical surfaces, including splashbacks.

#### Patterns and Colours

The sheets are obtainable in a wide range of faintlypatterned colours including prints of wood grain. Real wood veneers, colour inlays, prints of artists' original designs, lettering, etc., may also be incorporated in the finished surface.

#### General Applications

Veneers: The sheets may be applied to a base of plywood, blockboard, or chipboard which should be in. or more in thickness and have a smooth surface. free from knots or strong grain markings.

The whole under-surface of the veneer is uniformly bonded to the base by an adhesive, preferably of the casein or synthetic-resin type. The veneer seals and restrains movement of one surface of the base material. The other surface must also be restrained against movement caused by changes in humidity. The drawings on the face of the Sheet show how this may be done by securing the base to a rigid frame and sealing the undersurface with paint or varnish, or by applying a counter veneer of inexpensive industrial laminated plastic.

Edges should be finished in a similar manner to those shown: a later Sheet in this series gives further detailed suggestions for edge finishes. The panels thus formed can be used for wall linings, furniture, etc., in the various ways to be illustrated in further Sheets.

The 1-in. thick veneer is suitable for all general purposes, the 1-in. thickness only being used where exceptionally heavy wear is anticipated. Veneers may also be applied direct to plaster walls.

Panels: These may be used for all purposes where lightweight lining or panelling is required. Methods of fixing will be described in detail in a later Sheet.

The surface may be cleaned with warm soapy water. Polishes are not required to retain the finish.

#### Further Information

The manufacturer maintains a technical advisory department which is available to answer questions and advise on problems relating to this subject generally.

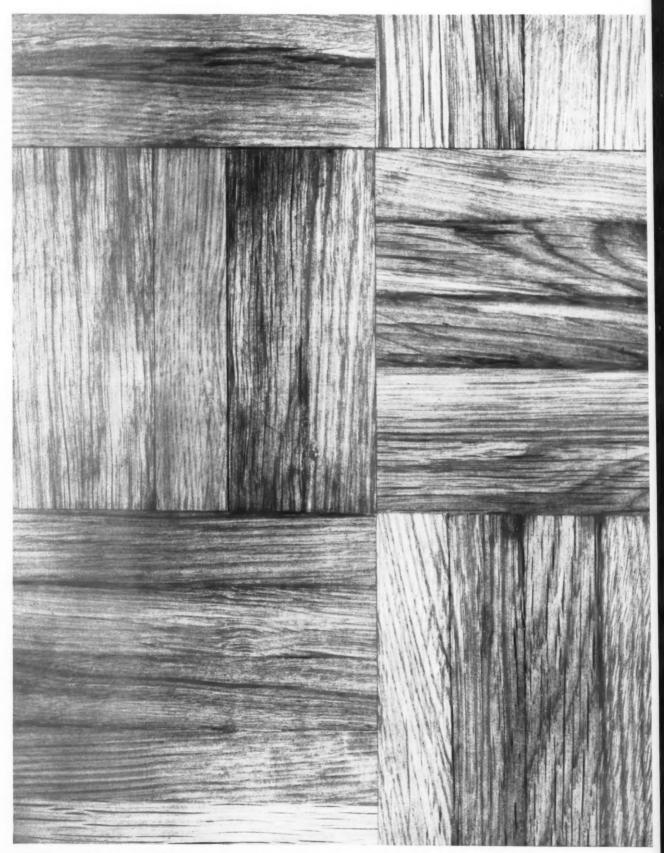
Compiled from information supplied by:

Thomas De La Rue & Co., Ltd.

Address: Plastics Division, Imperial House, 84/86, Regent Street, London, W.1.

Telephone: Regent 2901.
Telegrams: Delinsul, Piccy, London.

The Architects' Journal Library of Information Sheets 438. Editor: Cotterell Butler, A.R.I.B.A.



#### 19.J2 WINDSOR OAK FLOORING (Patent No. 544228)

This Sheet deals with Windsor Flooring and its application to concrete and other sub-floors. The photograph on the face of the Sheet shows the actual size of the blocks.

#### Description

Narrow strips of kiln-dried oak, assembled at the factory into basket-weave pattern to form square panels, are held together on the surface by kraft paper. On the site the panels are laid, close-butted, with a special cold bitumen adhesive, and the paper stripped off; the panels form a continuous basket-weave pattern over the whole area of the floor.

The floor provides the same wearing thickness as that of a \(\frac{3}{4}\)-in. nominal tongued-and-grooved block and may be laid in any situation where a hardwood block floor would be suitable. The small size of the components minimises the effect of shrinkage.

#### Size

The blocks are  $4\frac{1}{2}$  in. by  $\frac{9}{10}$  in. by  $\frac{3}{8}$  in. thick, arranged to form 1 ft. 6 in. sq. panels.

#### Fixing

Screeded concrete forms the most usual type of subfloor for Windsor floors, but they may be laid over other solid floors. The preparation of the various types of sub-floor is described below.

The Windsor fixing adhesive is damp-resisting, but should not be considered as a damp-proof course. Sub-floors in direct contact with the earth should be adequately waterproofed, preferably by means of a sandwich membrane laid in the concrete. Screeds must be quite dry before laying begins.

The thickness of the adhesive is negligible and an allowance of  $\frac{3}{8}$  in. only need be made for the floor finish.

To new concrete: Concrete should be finished with a 3:1 sharp sand and cement screed with a smooth, level finish free from trowel marks and ridges. The sand should be clean-washed and well-graded.

To other solid sub-floors: The sub-floor should be smooth, even, with level joints and proofed against rising damp where in contact with the earth. When these conditions do not exist the defects can some-

times be remedied by the laying of a cement/latex levelling course. In such cases the manufacturer should be consulted.

Skirtings: An expansion gap of approximately  $\frac{1}{2}$  in is left round all edges. Plastering should not be carried right down to the screed and a skirting board or moulding should be fixed to cover the gap after the floor is laid. If possible the skirting should not be painted until the sanding and polishing (see *Finish*) have been carried out.

#### Finish

The blocks are machine-sanded, after which they are sealed and polished.

#### Maintenance

The moisture content of the blocks is adjusted to normal domestic requirements, i.e. 12-14 per cent., and the situation, therefore, in which the floor is laid should be kept warm and dry or damage from swelling may result.

The polished surface should be maintained with a good quality paste wax. Once a year it should be rubbed with fine steel wool and turpentine to remove old applications of wax and re-polished. Water must on no account be used for cleaning.

#### Laying service

The manufacturer has a staff available for laying Windsor floors. Names of accredited laying concessionaires throughout the country can be supplied on application.

#### Cos

For 100 sq. yd. the price in the London area is approximately 30s. per sq. yd., supplied and fixed complete, including polishing.

Compiled from information supplied by:

Onsite Flooring Company.

Address: 12, Wigmore Place, London, W.1. Telephone: Langham 2256-8.

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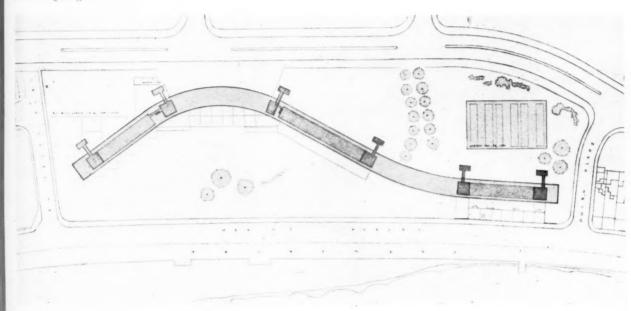
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# DESIGN By B. W. LAMB AND R. W. WETTON



Elevation facing sea.

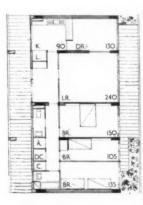


Site plan.

Two-bedroom flat (585 sq. ft.)
[Scale: 表。" = 1' 0"]



Three-bedroom flat (1,170 sq. ft)



Floor areas of flats do not include balconies.



Upper floor, Two-bedroom maisonette (965 sq. ft.)



Lower floor, two-bedroom maisonette; Upper floor, three-bedroom maisonette

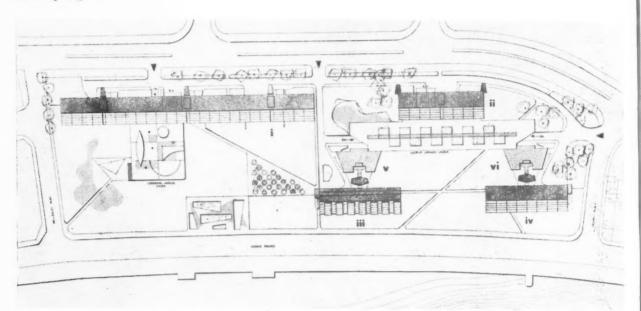


Lower floor, three-bedroom maisonette (1065 sq. ft.)

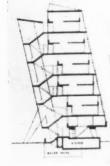
#### DESIGNBy BRIAN CARMICHAEL



Elevation facing sea.



Site plan.



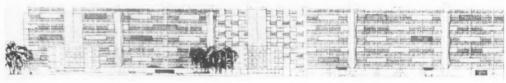
Section through Block 1.

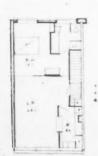
North elevation.

West elevation.



Below, type plans Blocks 1, 2 and 4.

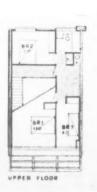










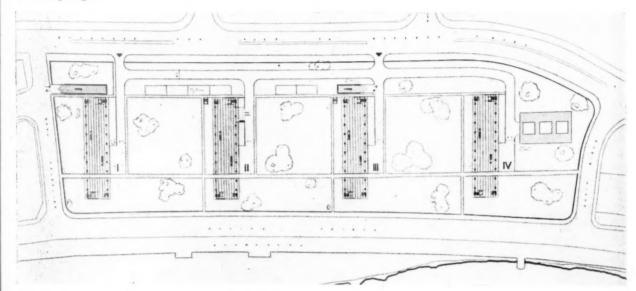


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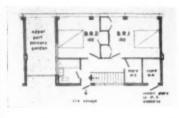
# DESIGN By BRUNO NEWTON AND ROBERT PURDEW IN ASSOCIATION WITH COLIN ST. J. WILSON AND PETER CARTER

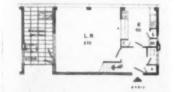


Elevation facing sea.



Site plan.

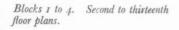


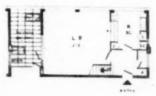


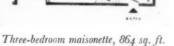
Odd floors

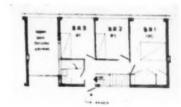
Even floors

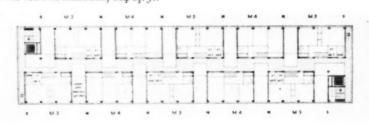
Two-bedroom maisonette, 808 sq. ft. 144 thus.

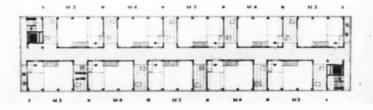




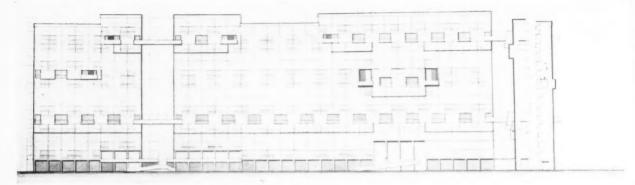




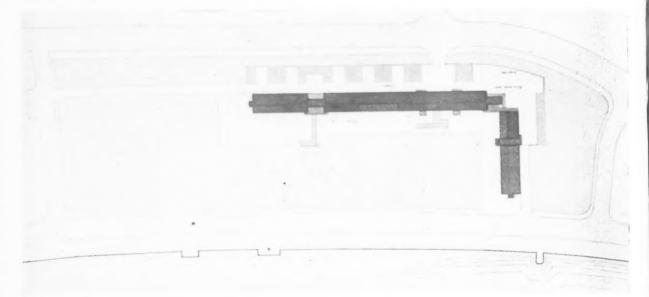




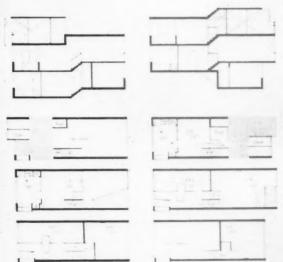
# DESIGN By ERIC HEAF



Elevation facing sea.



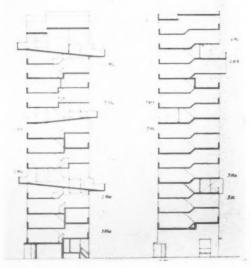
Site plan.



Two-bedroom maisonette. Type 3Mc 795 sq. ft. 38 thus.



Two-bedroom maisonette. Type 4Mb 882 sq. ft. 67 thus.



Sections.

## TECHNICAL SECTION

Recently-published results\* of an MOW inquiry into incentive and bonus schemes in the building and civil engineering industries carried out last year are, in general, disappointing—there being no significant improvement on the figures of the previous year's inquiry.

Incentive schemes were found to be in operation on only 29 per cent. of the sites from which returns were received. Of the men employed on the sites, only about 41 per cent. were covered by incentive schemes. It is encouraging to note, however, three important trends: firstly, that on the sites where there were incentive schemes, on the average 81 per cent. of the men were included in the schemes; secondly, that 61 per cent. of the sites where the contract sum was over £50,000 had incentive schemes (as compared with the average figure of 29 per cent, quoted above), and, thirdly, that, in spite of the fact that it has been claimed that it is impracticable to employ incentive schemes for maintenance work, on 22 per cent. of the sites where maintenance and repair work costing £2,000 or more was being carried out incentive schemes were, in fact, in operation.

Perhaps the most significant fact revealed by the figures is that on the larger contracts (presumably carried out by the larger firms) incentive schemes are far more common than on smaller contracts. (For example, 73 per cent. of the housing sites with contracts for £50,000 or over had schemes, compared with only 18 per cent. of those with contracts for under £10,000.) Clearly, it is the small builder who still needs to be persuaded of the value of these schemes—to himself, his employees and the community as a whole.

\* The figures quoted above are all for England and Wales only. Figures for Scotland, where the National Agreement allowing incentive schemes has been in operation only 3½ years, are between 30 and 50 per cent. lower.

This week's feature

#### 10 DESIGN: BUILDING TYPES hospitals

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.

Continuing the article they started in the JOURNAL for October 1, K. James Milnes and J. Schooneman, research architects on hospital planning in Holland, explain the economic advantages they claim for their revolutionary nursing unit and make certain criticisms of current practice in Great Britain and the work of the Nuffield Investigation into the Functions and Design of Hospitals. Richard Llewellyn Davies, the Investigation's director and architect, replies to these criticisms on page 487.

We are now designing eight-bed rooms for bedfast and semi-ambulant patients. We threw overboard the subjective reasoning and got down to finding out if there was a valid, generallyruling, factor divorced from all the other things that appeared in each

full utilization of the units of work concerned, which happen to be whole nurses (no one as yet has provided us with 5/8 nurse). We worked out the number of beds the average nurse can be reasonably expected to tackle under average circumstances (with studentpatient's story. It proved to be the | nurse aid), and it turned out to be eight. So eight beds in a room it is. From there to a staff roster, and staff list for the unit, is a matter of applying a patient's daily programme. The programme we advocate for bedfast patients in Holland is the following, which is in fact revolutionary for Holland:

7.00 to 8.00 hours ... Wake up and wash —Holy Catholic hospitals. 8.00 to 9.00 hours ... Breakfast. 9.00 to 9.30 hours ... Preparation for nursing. 9.30 to 12.30 hours ... Nursing, doctor's rounds. 12.30 to 13.30 hours ... Lunch. 13.30 to 15.00 hours ... Rest. 15.00 to 16.00 hours ... Visitors' hour. 16.00 to 18.00 hours ... Nursing. 18.00 to 19.00 hours ... Dinner (supper). 19.00 to 19.30 hours ... Visitors. 19.30 to 21.30 hours ... Preparation for the night. 21.30 to 7.00 hours ... Sleep.

The main revolutionary element, of course, is allowing the patients to sleep until 7 a.m. (where medically permissible), and the programme has been in perfectly satisfactory experimental use in one Dutch hospital for some time now, though its full implications were not realizable there owing to the design of the building and the composition of the staff. Fig. 4 is the resulting staff chart for the nursing unit, with due regard to time off, and holidays, and to the proportion of 1st-year students that do not continue their training. The scale of ward-sisters and their assistants is fully up to the task under the conditions ruling in this design of a ward unit, due partly to the ambulant principle, partly to the reduced number of nurses, partly to central performance of certain work. and partly to the employment of a ward

secretary in each unit to type reports, doctors' correspondence, etc., and to complete records, cope with visitors and similar duties.

#### STAFF SAVING

This staff strength per unit is equivalent to 30 per cent. of the number of patients, which represents a saving of just over 28 per cent. on average Dutch figures (52½ per cent. converted to 48hour week and 100 per cent. occupancy factor), though it is nowhere cramped or insufficiently provided. Average bed-occupancy in Holland at the moment is 87.4 per cent. of the available beds. When one recollects that by far the largest item on the hospital management account is that representing salaries and wages (approximately onehalf in Holland), it becomes clear that this line of research and design is bearing fruit of the right flavour and colour. It reduces directly the cost to the community per bed per day.

#### SUMMING UP ECONOMICALLY

Having quoted a sample out of the very many research subjects engaging the attention of this bureau, and since we have to be brief, let us refer back to

our originally stated tenets. We have touched upon a number of results leading in practice to two things:—

1. reduced cost per bed per day;

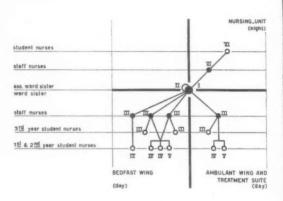
reduced number of bed/days per hospital case.

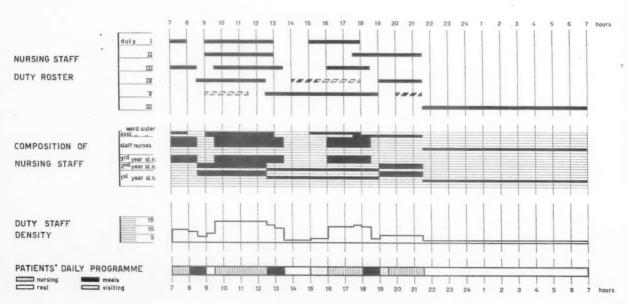
Now these two, taken together-unlike the American author who wanted more and better elephants-lead irrevocably to fewer and cheaper beds per 1,000 of the population, other things being equal. This is surely a pointer as to the way to assist the community towards a more efficient hospital service. We would go so far as to say that, in a recently completed study for a 305-bed general hospital which has been commissioned from us, capital expenditure and management costs are significantly lower than is usual, and should the average term of hospitalization also turn out to be lower, there can be no argument at all for the rejection of the principles contained in this article.

#### COMPARATIVE COSTS

The cost of building and equipping the hospital, including its comprehensive out-patient facilities and nurses' accommodation, is working out at just

Fig. 4, right, chart showing composition of day and night staff for the bedfast wing and the ambulant wing and treatment suite, each dot or circle represents one member of the nursing staff; below, charts showing (i) the hours of duty of the nursing staff, staff nurses may work either duty III or duty VI, 3rd year students IV, V or VI; (ii) the hourby-hour composition of the nursing staff; (iii) the hour-by-hour number of staff on duty; (iv) the hourby-hour patients' programme.





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The Architects' Journal for October 15, 1953

have leady; s per under £1,900 per bed (including land,

honoraria and loss of interest on the capital sum). We may take it that this

hospital's 305 beds will-for the reasons

contained in the article-be equivalent

to perhaps 320 conventional beds, thus

producing a figure of about £1,800 per

bed for purposes of comparison. These

are rough, but somewhat conservative,

figures which will become refined as

detail calculations progress, but they

may serve as comparisons with actual

figures. A district general hospital of

380 beds is on the point of being built

in southern Holland, the estimates for

the building and equipping of which

(including land) work out at about £2,800 per bed. An 800-bed teaching general hospital, including land and an

attached pathological institute, has just

commenced building in a large Dutch

city, and conservative estimates there

There must be room here for the

application of the basic economic yard-

sticks. We find it impossible to believe

that above-the-basic provisions to the

tune of over £1,000 per bed are likely

to lower either the cost per bed/day

or the hospitalization term sufficiently

to counterbalance the extra outlay; a

study of the plans reveals that there is

precious little chance they will do either

As regards management costs, the

study hospital throws up an "all-in"

cost of 14 guilders per bed per day when the entire out-patients' depart-

ment is charged to clinical account.

The nett charge to the community

therefore works out round about 13

guilders (24s. 5d.) a day, depending on

the number of out-patient treatments

This is naturally strange reasoning for

those used to a National Health Service,

but comparison is still possible with

other Dutch figures. For instance, pre-

war (cheaper and largely written-off)

hospitals are now working at about 17

guilders a bed/day (all-in), while post-

are about £3,700 per bed.

of these things at all.

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war conventional hospitals cost in the main about 24 guilders. One projected hospital with restricted teaching facilities reaches the dizzy heights of 30 guilders on estimate, of which they hope to persuade the sick-funds to pay the almost unprecedented amount of 18 guilders, leaving the remaining 12 to be borne by the municipality, whose ratepayers have already had to fork out for their sick-fund contributions.

There is another complication. We have just said that these principles would lead to fewer beds being re-

have just said that these principles would lead to fewer beds being required per 1,000 of the population, other things being equal. Some of these other things are not going to remain equal. For instance, in Holland the over-65's are becoming a greater and greater proportion of the population, and there is no doubt that they require about double the number of bed/days

of accommodation per year per head than other groups. We are embarking now on a study aimed at finding out exactly how many more.

When one takes a look at the dimensions and space involved, our nursing unit is not larger per bed than any other seriously-suggested design that we have discovered, and is smaller than most at 178.3 sq. ft. per bed. This has been achieved without sacrificing any single service and, in fact, the unit provides far more than any other we know without sliding away down the long. long slope of superfluous luxury and unappreciated superabundancy, which we in Western Europe cannot afford. We could afford it if it led to enough shortening of the term of hospitalization, but we are sure it does not.

#### COMPARISON

We are chary of drawing unwarranted conclusions from learned-looking figures without being sure we understand the ultimate implications of them. We have included an area analysis of the nursing unit (see JOURNAL for Oct. 1, page 419). but the reader will note that it takes care to mention that in some cases the area is nil. In other words it might be that a certain service is not provided at all (perhaps for very good reasons) or that a certain service is centrally organized so that that particular function does not throw up an area within the unit itself. And so it is important when applying figures of this kind to make sure that one is comparing a similar set of facilities.

Another pitfall is that of applying the method of the "share per bed" to an element which does not grow proportionately with the number of beds. In fact, the only element that does this is the nursing unit. One is on much safer ground when dealing with complete hospitals, since a given service will then be included, whether it is carried out centrally in a separate department or decentrally in the various units. Moreover, the total services and facilities are pretty much the same in conventional hospitals of the same size and type, though one is more efficient than the other. It all comes down to the same thing-the only real method of comparison is to look at the cost per bed/ day and the average hospitalization term in the hospitals to be compared. The final arbiter must always be the ultimate cost, per hospitalized case, which the community has to carry.

Having stated our principles, it will be obvious that any consideration by us of other projects will have the air of a criticism, since if that were not so we would rapidly amend our own work. We do this quite often on the basis of criticism from others which we recognize as well-founded, and so we are not afraid of criticism. We would like to do our friends of the Nuffield

Schematic floor plan of the musing unit. The key to the plan, together with a detailed analysis of space requirements, outli be found on page 419 of the JOURNAL for Oct. 1.



hours

Investigation into the Function and Design of Hospitals the honour of believing that they also welcome it. We refer to their design for the extension to the Greenock Royal Infirmary (plan on page 488).

#### ENGLISH HOSPITAL TRADITION

Its basis upon the early-ambulation work of Dr. Goodall shines through it, as does its inseparability from the traditional English open ward. Now the traditional hospital in England is every bit as good as its counterpart in Holland, France, or where you will. The trouble with all of them is that they remain traditional in a sphere which can hardly suffer itself the time to digest each miraculous and revolutionary discovery as it comes along. Functionally, the only traditional thing of value throughout the hospital world is that evinced in the magnificent codes of conduct of the medical and nursing professions-of whatever nationality. But because the spirit of Bleriot lives on in B.O.A.C. and K.L.M. would be no reason at all to build the "Comet" along the same constructional lines as the pre-1914 aircraft—or even rehashes of it.

To be specific, we would mention that we see the germ of a traffic block incipient in the vicinity of the righthand beds in the Greenock unit, but this would be a small point. What is much greater is that adherence to the open ward has effectively precluded any chance of grasping with both hands the psychological and economical advantages conferred by the principle of early ambulation, once accepted. There is no clear, encouraging promotion to the convalescent state here. Neither is there any shift towards cheaper or less skilled and less scarce labour. Many of the things the ambulant patient could do for himself he cannot do here, because he has not been removed from the "bedfast" atmosphere.

We do not know what staff strength

was proposed for this unit, neither have we seen any estimate of running costs, but we cannot feel that any advantages it may have in these directions could counterbalance the above points, allied to a 50 per cent. greater floor area per bed than our nursing unit. We would not like to extend a criticism any further in the direction of figures without having at least an estimate of the cost per bed/day.

However, there is one observation that would appear to provide at least a hint of the reasoning that led to the retention of the open ward as a point of

design departure.

Mr. Llewellyn Davies has stated that corridor wards, in general, appear to have areas some 50 sq. ft. per bed larger than open wards. But the total area of the N.I.F.D.H. unit proper is something just under 9,000 sq. ft., which works out with 32 beds at something just under 300 sq. ft. per bed.

The remaining nursing units quoted work out at from 270 to 460 sq. ft. per



Right and below right, the day-space accommodation at Dr. Scholm's municipal hospital at Arnhem. Below, the right type of "atmosphere" for the semi-ambulant day-space ("16" on plan on p. 485).



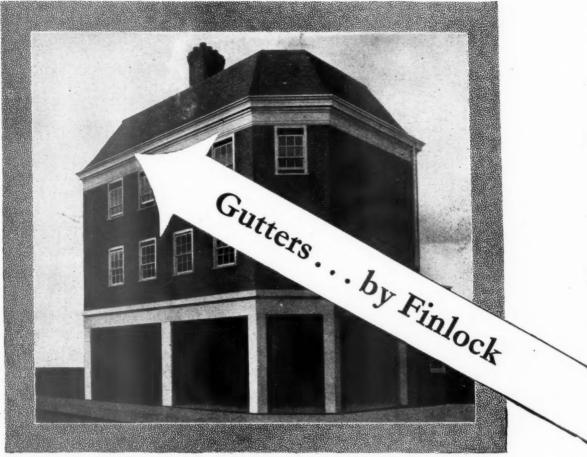


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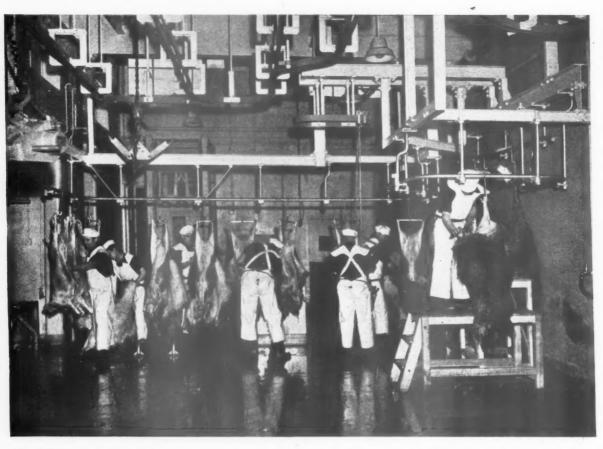
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bed. As our analysis shows (see JOURNAL for Oct. 1, page 419), the equivalent figure for our nursing unit is 178·3 sq. ft. per bed, which would put rather a different complexion on that particular line of reasoning.

THE AMBULANT PATIENT IN PRACTICE

Here, we would like to say something of the work in this field of Dr. L. Schalm, Medical Superintendent of the Arnhem Municipal Hospital, whose help and encouragement we have enjoyed. Thinking somewhat along the same lines as Dr. Goodall, though without the percentage survey, and with more accent upon the patient entering the hospital for observation (and therefore never bedfast) than on the graduation of bedfast patients to ambulancy, Dr. Schalm built an "observation pavilion" in the grounds of his hospital. The concept differs from ours in that the pavilion is merely an appendix to an otherwise unaltered conventional hospital, and not an integrated element. It cannot, therefore, realize all the advantages there are to obtain, and was, indeed, not envisaged to do so. But it contains all the essential elements-day-space, more normal bedrooms, doctor's surgery, etc., and its results in operation are a welcome confirmation of what we were certain were the right lines. (For photographs illustrating the atmosphere achieved in the day-spaces see page 486.)

PATIENT IMPRESSIONS

Dr. Schalm has been getting each patient transferred from bedfast wards to write his or her impressions on a card, and again on leaving. A very large proportion expressed apprehension on being told they were going to the pavilion, but all except two were enthusiastic about it by the time they left. The two exceptions in some hundreds were an old lady of 72 who was chronically sick and ought never to have been there at all, and a lad of 14 who was threatened with demotion to the bedfast ward for misdemeanour. The apprehension at going to the pavilion was clearly a question of lack of familiarity with the principle.

Patients in the pavilion have to comply with a set of "standing orders," includ-ing a daily programme, laying down garden bounds, and ordering compulsory baths, teeth cleaning, and learning to use a knife and fork at table even when they use a spoon at home. There is a pleasant educational aspect about the whole thing, and one businessman actually received his business colleagues there. We were pleased to have confirmation that the bedfast wards became much quieter than formerly, as we had expected. We regard this pavilion, short though it is of our completely integrated hospital, as the complete vindication of our principles and a tribute to the foresight of Dr. Schalm, whose name we

would couple with that of Dr. Goodall in the matter of ambulant nursing.

A FINAL WORD

As we always say-publishing an article like this is a pity really. It always looks as if it represents a rounded-off entity of research, while it really is nothing more than a report at a certain stage of progress. We have drawn a thick black line through the research results and said to ourselves, "We'll tell them what the position was along this line, because it's complete up to there." But of course we, like all students, are now way past the line in some respects, not merely as regards the nursing unit, but such elements of the hospital as children's wards, obstetric wards, operation departments, kitchen departments, laundries, out-patients' departments, and so on. With the exception of work for tropical hospitals, all our efforts have been aimed at the hospital in Holland. However, it is clear that much of it applies to a greater or lesser extent to other Western European countries—we are, after all, not so very different. If there are enthusiasts who would like to comment, or who think we are wrong and would like to say so, there is nothing we would like better than to argue the point further.

> K. JAMES MILNES, J. SCHOONEMAN.

Mr. Llewellyn Davies criticizes Mr. Milnes and Mr. Schooneman for drawing false conclusions from Mr. Goodall's work on early ambulation. He argues that, since the proportion of ambulant patients varies considerably, their design will tend to produce under-occupancy, and that supervision in the ambulant wing is inadequate, particularly since, during times of epidemic, it might have to be used for non-ambulant patients.

#### THE NUFFIELD INVESTIGATION'S CRITICISM

By Richard Llewellyn Davies, Director and Architect

Messrs. Milnes and Schooneman have put forward a new type of ward plan. This shows a total of 72 beds on one floor, and its originality consists in that it is divided into two units: one, of 40 beds, is a more or less normal continental corridor type of ward, and the other, containing 32 beds, is accommodation of a hostel type, designed for fully-ambulant patients.

The justification of this proposal depends on a paper by Dr. J. W. Goodall, a former member of the Nuffield Investigation into the Functions and Design of Hospitals, which was published in the *Lancet* for Jan. 6, 1951.

This work referred to acute general hospitals. The paper gave an estimate, based on a survey, of the proportion of patients, in different specialties who might be bedfast, partially-ambulant and fully-ambulant. (Of course, medical practice varies from hospital to hospital and from time to time.)

Dr. Goodall showed that under the regime of early ambulation, as propounded by its exponents, the numbers might reach from 38 to 50 per cent. in certain specialties. Schooneman and Milnes assume, therefore, that "something like half the patient total are, to all practical purposes, only in the

hospital for two reasons—to be close to the medico-technical equipment it possesses and to be under supervision of the specialist knowledge available This is a great deal more than Dr. Goodall's paper implied. Ambulant patients under the regime of early ambulation are still very ill and require, in addition to the services referred to above, continuous supervision and expert nursing. As soon as they no longer require nursing care, they should no longer be occupants of an acute general hospital. This is not to say that there is not a strong case for hostel type accommodation for certain categories of patient-convalescents in long-stay specialties, or persons coming from some distance who are attending for a series of diagnostic tests at the hospital. For such types of patient, however, it is very questionable whether hostel accommodation should be made part of the main acute ward building.

#### THE AMBULANT PROPORTION VARIES

Apart from this general objection to the proposals, there are other reasons why Milnes and Schooneman's conclusion does not follow from Dr. Goodall's work. In particular, the proportions of ambulant patients are, of course, averages over a period and there are very considerable fluctuations

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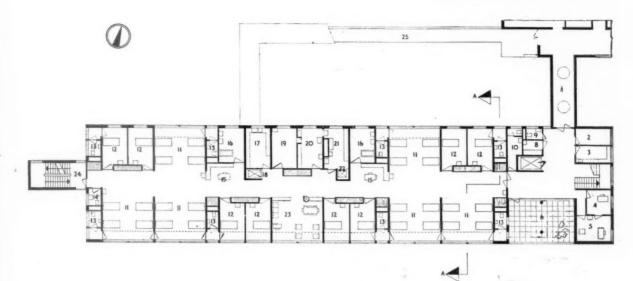
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The Hospital Ward Unit at Greenwich designed by the Nuffield Investigation. KEY

- I. Corridor link with main hospital
- 2. Store room (Doctor's room on first floor)
- 3. Laboratory
- 4. Interview room
- 5. Sisters' room
- 6. Loggia
- 7. Bed life

- 8. Cleaner
- 9. Visitors' and doctor's teilet room
- 10. Nurses toilet and locker room
- II. Four-bed ward
- 12. Single-bed ward
- 13. Patients' toilet room
- 14. Nurses' toilet room
- 15. Nurses' station
- 16. Bath and wash room
- 17. Kitchen
- 18. Supply lift
- 19. Treatment room
- 20. Clean utility room
- 21. Dirty utility room
- 22. Disposal lift
- 23. Day space
- 24. Escape stair
- 25. Service ramp to lift rooms in basement

from time to time. Therefore, dividing the ward into two different types of accommodation is bound to reduce occupancy rates. Again, during epidemics it may be necessary to reduce the length of stay considerably in order to make use of every available bed for acute care. The beds in the ambulant wing, nearly half the beds on the floor, would be useless for this purpose.

It may be that a case can be made for a small proportion of beds in a ward, in the interests of economy, to be designed specially for occupation by the more ambulant patients. Were this done, however, the layout would have to be quite different from that shown by Milnes and Schooneman. In particular, the question of supervision, particularly at night, is vital. In the acute hospital, ambulant patients, no less than any others, must be under constant surveillance by the nursing staff (otherwise they would be better nursed elsewhere). There is absolutely no provision for nursing in the ambulant wing of the Miles and Schooneman plan. Supervision of the day space for ambulant patients is also particularly important, as the whole policy of early ambulation means that the patients are allowed to get up while still in a weak condition.

REDUCED STANDARDS OF ACCOMMODATION It is claimed that the plan is extremely economical in floor area per bed. This has been achieved partly by the use of bed centres at 6 ft. in the 8-bed wards. By English standards this is much too close and, indeed, it is difficult to see how room can be found for curtains, lockers and other equipment necessary Accommodation for the in the ward. nurses has also been cut rather drastic-There is no usable nurses' station and the proposal to put sister, secretary, doctor and nurses' workspace in one room, which also houses the service lifts, is absurd

Dr. Schalm's idea that patients in the ambulant wing should be subject to discipline and be punished for misbehaviour, such as eating with a spoon, instead of a knife and fork, by being sent back to the acute ward, seems strange. It would certainly not work for English patients and it is hard to believe that it would work for Dutch

#### RECENT INFORMATION CENTRE ITEMS ON HOSPITALS

Interim Note on Flooring in Anæsthetising Locations ... 10.107:12.8.53 Interim Note on Rubber of Anti - static (Conducting) Quality for Hospital Use... 10.107:12.8.53 Background to Hospital Plan-...... 10.103:12.5.53 Hospital Organization and Management ...... 10.95 : 3.7.52 Planning for the Aged and Chronic Sick ...................... 10.91 : 3.1.52

Sanatoria ...... 10.90 : 3.1.52 

# INFORMATION CENTRE

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

2.131 planning : general

LAND USE

Control of Land Use in Daily Practice.
Maurice J. Hellier. (The Surveyor and
Municipal and County Engineer, Aug. 1,
1953, pp. 525-527.)

Report of paper given at a recent municipal engineers' summer school; the reflections of a county planning officer on development in relation to compensation, and the difficulties which sometimes arise with the present code in deciding if development requires permission.

5.47 planning: public utilities

CAR PARKING

Car Parking. V. Forshaw and J. I. Whitehead. (The Surveyor and Municipal and County Engineer, Aug. 1, 1953, pp. 519-521.)

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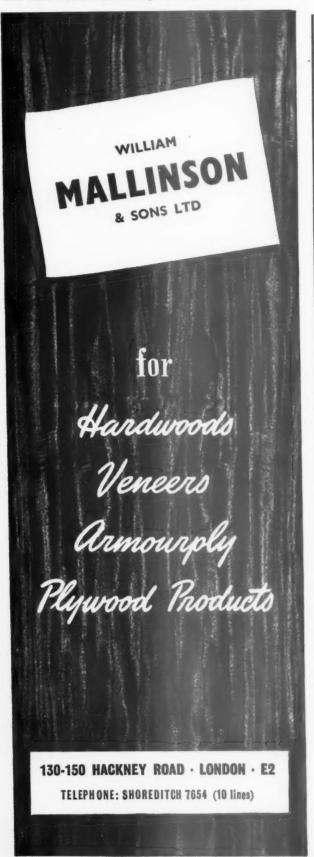
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17.9 SITE How Thor

One meth level Report of paper given at a recent municipal engineers' conference. The paper is a well-though-out survey of investigations in this country and includes information on American practice which, however, the authors admit is not always a reliable guide to practice in this country.

# 15.113 materials: applied finishes, treatments FLOOR TILES

Thermoplastic Flooring Tiles. BRS Digest No. 57. (HMSO. Aug., 1953. 3d.)

History and general description of thermoplastic floor tiles. Laying technique. Maintenance.

From this general note on thermoplastic tiles it becomes clear that by far the most important thing for satisfactory performance is the care in laying the base upon which the tiles are to go. More care over this would not only produce better results but might also obviate many of those unfortunate wrangles about whether the general contractor or the sub-contractor is really responsible for any troubles which occur.

Architects could help by being careful to specify the sub-floor more thoroughly and then insisting upon their specification being followed.

# 16.103 materials: miscellaneous GLASS FOR GLAZING

Glass for Glazing. Classification and Terminology (including Thicknesses and Tolerances). BS 952:1953. (British Standards Institution. 5s.)

The aim of BS 952, which was first published in 1941 under a slightly different title, is to assist architects, suppliers and builders in selecting and describing the numerous different types of glass required for building purposes. The standard is intended to be used in conjunction with BS 973, Code of Practice for the Glazing and Fixing of Glass for Buildings, which is now under revision. In Part I of BS 952 are classified the various types of glass currently supplied by manufacturers. The characteristics of each type of glass are described, together with the purposes for which it is considered suitable, and the different qualities and substances (thicknesses) available are listed.

In Part 2 various terms relating to the cutting, working and decorating of glass for building purposes are defined and illustrated.

# 17.98 construction: general BUILDERS' MACHINES

Care of Builders' Machines. MOW Advisory Leaflet No. 33. (HMSO. 1953. 3d.) Simple and direct leaflet on proper maintenance and care of builders' machines, with very brief notes on concrete mixers, hoists, powered barrows, small-tracked tractors and small excavators. Also a short note on how to organize plant maintenance.

# 17.99 construction: general SITE WATER

TED

How It Was Done—9. Edited by Sir Percy Thomas & Son. (Building, Sept., 1953.)

One-page note, with diagrams, explaining method used for lowering site water table level during construction of large basement.

#### 18.136 construction: theory

#### COST COMPARISONS

The Relative Economy of Framed Structures and Structures with Loadbearing Walls. N. E. Cooper. (Concrete and Constructional Engineering. Aug., 1953, pp. 257-261.)

Article on framed, partly-framed, and loadbearing wall structures in which attention is drawn to the factors which should be considered when comparing construction costs.

As in most articles in which building costs are compared, much is said about the economy of load-bearing walls up to 5 storeys without any reference to the job as a whole. The choice of contractor, the method of placing the contract, the bearing value of the foundations and the grid which determines the spans, can all influence the problem to such an extent that no direct statement that one method is more costly than another can be made without detailed examination of alternative designs.

Mr. Cooper considers in his article a 29-ft. wide, 5-storey building, on an 11-ft. grid and he gives prices for an 11-ft. bay for each of 3 types of construction: (a) fully-framed, (b) outer load-bearing walls, with an inner central spine beam, and (c) fully-load-bearing walls. To show the effect of the foundations on cost, he gives prices for both 1-ton and 2-tons/sq. ft. bearing pressures. For 1 ton/sq. ft., the ratio a/b/c is 945/997/1142; for 2 ton/sq. ft., it is 861/877/969. Scheme "a" included 11-in. cavity brickwork, so the results would have been even more in favour of "a" if lightweight concrete blocks were used for the inner skin. Pile foundations would also lower the cost of scheme "a."

Taking into account the other advantages of framed structures, it is clear that the use of a structural frame should always be considered when a building 4 or more storeys high is being designed.

#### 19.168 construction: details

#### PANEL WALLS

Panel Walls in Framed Buildings. Denzi Nield. (RIBA Journal. Aug., 1953.)

Useful, well-illustrated article on panel walling and facing materials, with examples from Switzerland, Germany, Holland and France.

This article, which is an extract from the author's Bossom Research report, commences by drawing attention to the importance of recognising movements, by panel, frame, or the whole building, as factors which must be taken into account in the choice of materials and in the design of fixings. A number of interesting examples from various countries are then described, and are well illustrated by photographs and diagrams. They include natural stone slabs, marble slabs, concrete, brick and glass. Faience slabs are not mentioned.

The descriptions are adequate and clear, and some useful comments are made, especially on the advantages and disadvantages of cramps and the use of bonding stones or slabs. In his "conclusions" the author departs a little from the main subject to discuss the choice between steel and concrete for the building frame and points out that foreign engineers regard the choice as one between concrete and uncased steel, with the difference largely a question of lower insurance rates for concrete. He makes some suggestions for practical trials of various kinds of slab finishes which he thinks could, with advantage, be made in this country.

A useful and thought-provoking report.



#### 6.Z1 and 33.U10. REFERENCE BACK

Readers are asked to note the following revision and to amend their copies of the Sheet in question: 6.Z1.—Face of Sheet—In the table the inflation pressures given are in lb./sq. in. and not lb/sq. ft. as shown. 33.U10—Face of Sheet—On the drawing of the type G gutter for a pitched roof the depth should now read 5 in. and not 4½ in. The stopped end shown as "type S/N" should read "type A/N." Reverse of Sheet—change of address: Finlock House, 25, Frant Road, Tunbridge Wells, Kent. Telephone: Tunbridge Wells 3396 (4 lines).

#### CANCELLATION

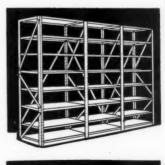
Sheet 19.J1 has been cancelled and should be withdrawn from the library.

# THE INDUSTRY

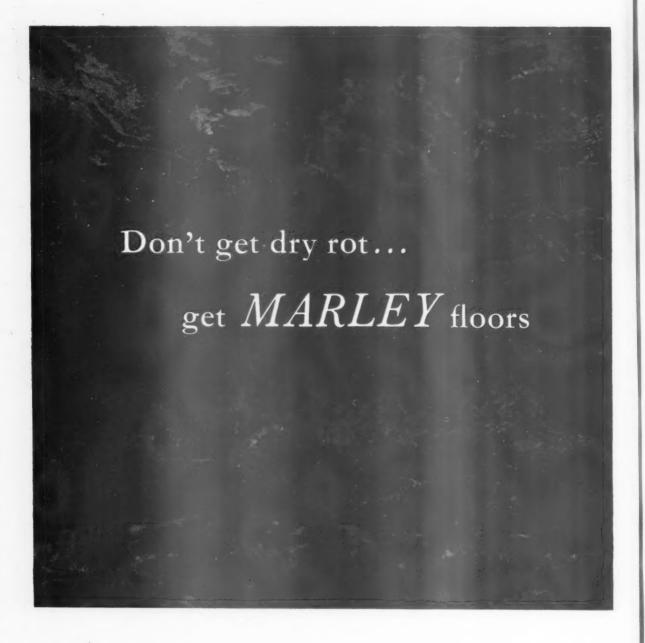
From the Industry this week, Brian Grant reports on storage units, window gearing, an operating theatre lighting fitting, glass doors and adjustable ventilation grilles.

#### COMPONENTS FOR STORAGE

As a development of their metal partitioning system, Messrs. Rowe Bros. are now manufacturing adjustable steel shelving (sketches below). The basic idea is the provision of angle uprights and shelves to which may







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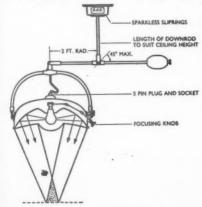
Pilkington's "Armourcast" door, of specially toughened 3-in. rough-cast glass, with bronze finish hinge and lock fittings and overhead door-check.

be added sheet backs and sides, bin fronts, card holders, dividing units, drawers, doors and a variety of equipment which should allow for the storage of almost any commodity. The basic unit consists of four angle uprights pierced on both faces with bolt holes every inch, providing 8 attach-ment points for shelves. These uprights are made from 3 ft. 3 in. to 10 ft. 3 in. high, in 1-ft. increments. The shelves have flanges on all four sides and are pierced with 2 rows of holes at 2-in. centres, to receive adjustable shelf dividers. The shelves are made in widths from 2 ft., by 6-in, increments to 3 ft. 6 in., and in depths from 1 ft. to 2 ft. 6 in.

Each bay of the shelving is complete in itself and may be disconnected from adjacent bays without removing the shelves, so that re-arrangement is easy. All fittings are stove enamelled in either olive green or grey. (Rowe Bros. & Co., Ltd., Pall Mall, Liverpool, 3.)

#### **GEARING FOR WINDOWS**

A new catalogue from Hopes (No. 267) contains 70 pages or so of photographs and drawings of different types of window gearing. Most architects will be familiar with the well-established types of gear—shaft and lever, tension, and cable—but Hopes have



Diagrammatic cross section through the new GEC operating theatre lighting fitting.

recently been developing hydraulic systems of control for long ranges of window, par-ticularly in power stations where hydraulic power is often employed for operating valves and other gear, such as dampers. Hydraulic operation is quite silent and can be carried out from a single control point with a system of selector valves. The operating gear is extremely powerful and gives accurate control of the amount of

opening.

There are also some interesting applications among the special-duty gearing, notably some electrically-operated doors notably some electrically-operated doors with push-button control from a pedestal set in the floor a few feet away from the door, so that hospital patients in wheel chairs have full control over the doors. Drive is from an electric motor in the floor and there are friction clutches so that the doors can be pushed open in the usual way by foot passengers. (Henry Hope & Sons Ltd., Smethwick, Birmingham.)

#### OPERATING THEATRE LIGHTING

The GEC has just produced a new operating theatre light fitting which gives an excellent shadow-less light of more than 3,000 lumens/sq. ft., at a distance of 32 in. The fitting has a 3-ft. diameter reflector, and houses a 150-W. lamp. Three lampholders are also provided to take 60-W. pearl lamps for connection to an emergency lighting circuit.

A large focusing knob within easy reach provides rapid concentration of the light, and the lamp has a balanced suspension system for adjusting the angle or position. The ceiling unit houses a sparkless slip ring so that the lamp can have a free, all-round movement, without any stops, and the counterbalanced arm suspension allows the fitting to be used with a ceiling height of as

little as 9 ft. 3 in.
"Perspex" is used for the front cover of the lamp, as it has a high light transmission and is at the same time a poor thermal conductor, so there is little serfsation of heat

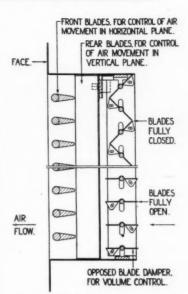
when working under the lamp.
GEC has just issued the '53-'54 edition of the "Osram" lamp catalogue. Architects will need Part I, which covers lamps and tubes for general and special lighting purposes. The catalogue now includes 25and 40-W. extended candle lamps and 75-W spotlight reflector lamps. Two forms of the 250-W. mercury compact source lamp are now listed, one having a glass outer bulb, so that a separate protective housing is unnecessary, the other being enclosed in a metal box fitted with a circular glass window. (The General Electric Co. Ltd., Magnet House, Kingsway, London, W.C.2.)

#### **GLASS DOORS**

The photograph on the left shows one of Pilkington's new "Armourcast" doors of Pilkington's new "Armourcast" doors which are made from 1-in. rough-cast glass, toughened for additional strength and dequipped with hinge and lock fittings in a bronze finish. The doors are translucent, and should be fitted with the patterned surface on the inside. Although they give a reasonable degree of obscuration, they still allow people outside a room to see at a glance whether it is occupied or not. For offices, hospitals or showrooms these doors will help to solve the problem of lighting internal corridors or other spaces, and it should be easy to keep them clean since there are no mouldings to catch dust.

Standard sizes are 78 in. high, with widths

of 30 in. and 33 in., though non-standard sizes can be made to order. The doors are supplied ready drilled for the fixing of the stylings, the toughening process being such as to prevent any further working of the glass. The hinges are fitted at the works and the hand of the doors must, therefore, be given when ordering; the recommended clearances for the door openings are 1 in.



Diagrammatic horizontal cross section through Richard Crittall's " Deflecto' ventilating grille.

at each side and  $\frac{1}{4}$  in. at the top, with a bottom clearance of  $\frac{1}{4}$  in. for hard floors or as required to suit the floor covering. A "Champion" door-check and closer can be fitted as standard and a further modification allows the door to be held open at 90 deg. There is no reason why doors of this kind

should not be produced in ordinary clear "Armourplate," but with the rough-cast texture there is no likelihood of people not noticing that the door is there, a detail which has occasionally led to trouble in public buildings. (Pilkington Bros. Ltd., St. Helens, Lancs.)

#### VENTILATING GRILLES

One of the difficulties with the installation of ventilating grilles in air conditioning and ventilating plants is that the uniform distriventilating plants is that the uniform distri-bution of the incoming air usually involves a number of separate grilles in different parts of the room, and a corresponding amount of duct work. The sectional draw-ing above shows the "Deflecto" grille, which has two sets of blades controlling both the vertical and the horizontal distribution of the incoming air, and there is also a damper which gives a close adjustment of the total volume of air admitted. The primary advantage of these grilles is that high air velocities (1,000 feet per minute or more) are possible without undue noise, as a result of the aerofoil section of the blades. The front set of blades is mounted horizontally and controls the vertical air distribution, the rear set being vertical and controlling horizontal distribution. The air stream can thus be diffused in any direction. The blades are individually adjustable by means of a small detachable key, which is also used for the damper blades at the back of the grille. The damper blades are all inter-connected and work together from the fully open to the closed position, and whatever position they are in they do not interfere with the air distribution already set by the other blades. The total depth of the grille from front to back is just under four inches, including the damper blades, and the grilles are produced in all sizes from six inches square upwards. Alternatively the damper only can be supplied in a frame 11 inches deep, flanged if required, for use behind other types of grille, or in ducts. (Richard Crittall & Co. Ltd., 151, Great Portland Street, London, W.1.) BRIAN GRANT.

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#### ENQUIRY FORM

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#### Announcements

The autumn meeting of the RIBA Golfing Society was held at Denham Golf Club on Thursday, September 17. The Selby Cup was won by L. H. Hammond and the runner up was R. G. Scott, both giving very fine performances in spite of adverse weather conditions. At the annual general meeting in the evening, Eric H. Firmin was elected Captain of the Society for the next season and Joseph Emberton was elected to the Committee.

We have received from the Midland Electric Manufacturing Co., Ltd., their new switchcraft and wiring accessories catalogues Nos. 340 and 341, together with adhesive price slip for fixing in their motor control gear list No. 300, which, apart from the new consolidated price sheet, remains unchanged. Their fire lists already show consolidated prices. Supplies of MEM products are available to electrical contractors and installation engineers throughout the country.

S. Hille & Co., Ltd., furniture manufacturers, announced the production of several new pieces of furniture on the occasion of the first anniversary of their London show-rooms at 39-40, Albemarle Street, W.1, last week. The whole range of Hille furniture is now contained in two catalogues which have been designed by Peter Werner in conjunction with Robin Day. A green catalogue is entitled "Seating 1953-54," and an orange catalogue is entitled "Cabinets and Tables, 1953-54." Both catalogues contain photographs and descriptions but not prices. The new pieces of furniture, now available, include the following:—A table with a top 5 ft. by 2 ft. 6 in. and 28½ in. high. This table has a top veneered in either walnut, Nigerian cherry or elm. The frame is of tubular steel, stove enamelled dark grey. The cost is £24. Another table of the same construction and materials is available with

circular top, 2 ft. 9 in. in diameter, or with a square top 2 ft. 9 in. by 2 ft. 9 in. This one costs approximately £20. The dressing desk first shown by Hille earlier this year has now been improved on. The new desk has a top divided into two compartments closed by two lift-up lids. One compartment is lined with white plastic and the lid of this is fitted with a mirror. The frame is of solid beech. The lids are veneered in walnut or Nigerian cherry. The length is 3 ft., the height is 29 in. and the depth is 18 in. "Hilleplan" sideboards and bookcases are now available with steel legs, if preferred; the height is 29 in., which is one inch lower than units with wooden legs. The bookcase with steel legs retails at £15 ls.; the sideboards at £26 3s. 7d. The sliding doors of sideboards are available in either black or light grey "Vitrolite," walnut or Nigerian cherry. Five new chairs are introduced. A dining chair with steel frame rod bondarised and stove enamelled dark grey, with seat and back moulded of plywood, veneered beech, cherry walnut or mahogany, costs £4 7s. 6d. A steel frame chair with latex foam seat and back, over formed ply, costs £8 19s. 5d. (cover extra). The familiar "Hillestak" chair with a seat covered with leather-cloth or fabric over Latex foam costs £5 15s. A fully demountable chair with beech frame and arm rests, Latex foam back and seat over a hardwood frame costs £10 18s. 9d. A dining chair with legs in natural beech, Latex foam seat and back over plywood costs £6 10s.

#### Correction

G. N. Haden & Sons Ltd., were wrongly credited with electrical work in the passenger handling building of London Airport in the JOURNAL for September 24. They were in fact responsible for the heating and ventilation installations in the South-east Face Building.

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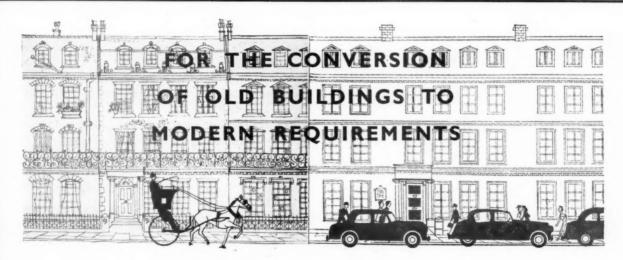




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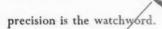
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"Jackson Electric Cooking Equipment is installed in our main kitchen. In the training of Student Chefs economy and cleanliness are of paramount importance at all stages, and we find that Jackson Equipment is second to none."

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> 13,770 Units consumed = 0.43 Units per meal

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# BECLAWAT type 9s adjustable spring tape sash balance

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When circumstances demand economy, plus ease of erection, plus adaptability, the J.B. Pre-fabricated Garage meets all requirements. Weatherboard unit construction facilitates erection to any dimension of standard 9 ft. width, in any length multiples of 4 ft. 6 in. It is supplied with double doors for a garage or single door when used for other purposes. Any unit can be lifted by one man and the whole building can be erected by two men in two days.

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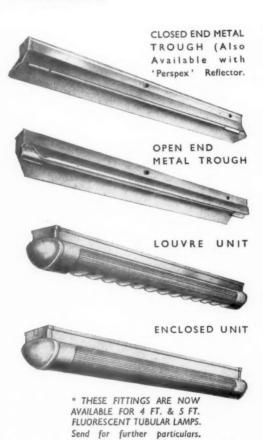
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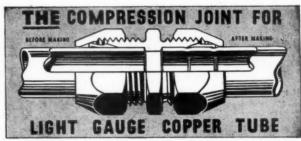


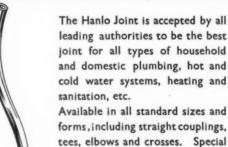
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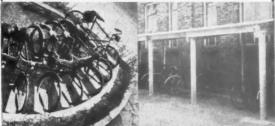
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IOCO Rubber Flooring is practically permanent and will eliminate worn or shabby surfaces for as long as you are likely to look ahead. This is an enormous alone is worthy of your most society consideration.

saving in the long run and on these grounds alone is worthy of your most serious consideration. But it has much more to commend it: it is resilient, hygienic, non-skid and greatly reduces noise; it is easy to clean; it is decorative and is available in a variety of plain, tiled and marbled effects which can be adapted to suit any colour scheme. Surely all this adds up to one thing?—
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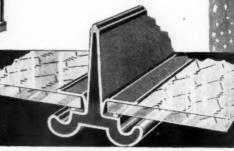
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#### CLASSIFIED ADVERTISEMENTS

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

paper.
Replies to Box Numbers should be addressed 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 adortisements 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 18-65 inclusive unless he or she or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

NATIONAL COAL BOARD.

Applications are invited for the following appointments in the office of the Divisional Architect, National Coal Board, Northern (N. & C.) Division:—

Division: - Co. Board, Northern (N. & C.)
ARCHITECT (Grade I). Salary scale: £900×
£35 to £1,200.

ARCHITECT (Grade I). Salary scale: £900× £35 to £1,200.
Applicants must be Associates of the R.I.B.A., with at least five years' office experience, after qualification, in the design and administration of of a new section now being formed.
ASSISTANT ARCHITECT (Grade II). Salary scale: £600×£25-£650×£30-£900.
Applicants must be Associates of the R.I.B.A., capable of carrying out all work required for large building schemes.
ARCHITECTURAL ASSISTANT (Grade I). Salary scale: £255×£25 to £650.
Applicants must be students of the R.I.B.A., with experience in preparation of working drawings under supervision.
Starting salaries according to qualifications and experience.

mine experience in preparation of working drawings under supervision.

Starting salaries according to qualifications and experience.

Applications, stating age, training and full details, including salaries of past and present appointments, and clearly indicating for which post application is made, should be submitted not later than 26th October. 1953, to: Establishments Officer, National Coal Board, Northern (N. & C.) Division, Ellison Buildings, Ellison Place, New-castle-upon-Tyne, l.

WELWYN GARDEN CITY AND HATFIELD DEVELOPMENT CORPORATIONS.

ASSISTANT QUANTITY SURVEYOR.

Applications are invited for the appointment of Assistant Quantity Surveyor, at a commencing salary of £800 per annum.

Applicants should be experienced in taking off quantities and in the preparation of Bills of Quantities, Estimates, Certificate Valuations, and Final Accounts for all types of buildings.

Preference will be given to Members of the Royal Institution of Chartered Surveyors.

The appointment is superannuable and terminable by one month's notice on either side.

The successful applicant will be assisted in obtaining housing accommodation, if required.

Applications, giving age, qualifications, and full details of present and past experience, salaries and appointments held, together with the names and addresses of three persons to whom reference may be made, should be addressed to the General Manager at 4. Wigmores South, Welwyn Garden City, Herts. and received not later than 2376 CITY AND COUNTY OF BRISTOL.

CITY AND COUNTY OF BRISTOL.

City, Herts., and received not later than 9683 October, 1953.

CITY AND COUNTY OF BRISTOL. CITY ARCHITECT'S DEPARTMENT. Applications are invited for the following permanent staff appointments:—
(a) SENIOR ASSISTANT ARCHITECTS. Grade V (£595-£645 p.a.).
(b) ASSISTANT ARCHITECTS. Grade IV

(b) ASSISTANT (£255-£600 p.a.).
(c) ASSISTANT (ARCHITECTS. Grade IV (£255-£600 p.a.).
(c) ASSISTANT (ARCHITECTS. Grade III (£252-£570 p.a.).
Applicants for (a) must be Associate Members of the R.I.B.A. or hold equivalent qualifications, and have had considerable experience in design, construction, and contract administration, pre-ferably with a large Local Authority. For appointments (b) and (c) applicants must have passed the Intermediate Examination of the R.I.B.A. or equivalent, and have had good experience, including preparation of working drawings, details, etc. Appointments are superannuable, subject to satisfactory medical examination and one month's notice in writing on either side.

ide.
HOUSING ACCOMMODATION PROVIDED,
F NECESSARY AT AN ECONOMIC RENT.
Applications, stating age, training, qualificaions, experience, projent appointment, grade,
alary, and names of two referees (including
oresent employer), by Monday, 26th October,
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present employer), by MARIENT PRICE PROPERTY OF THE PROPERTY O

Bristol, 1. 9740

LONDON COUNTY COUNCIL
ARCHITECT'S DEPARTMENT.
TECHNICAL ASSISTANTS required for specialist section dealing with furniture design. colour schemes, exhibition work, etc. A.R.I.B.A. or specialist qualifications. Salary up to £721. Application form and particulars returnable by 31st October, from the Architect (AR/EK/F&D/3), County Hall, S.E.1. (1096). 9719

GLOUCESTERSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the appointments of
ASSISTANT ARCHITECTS on A.P. & T., Grade V
(£695-£645 per annum), Candidates must be
qualified members of the R.I.B.A.
The appointments will be subject to the Local
Government Superannuation Act, 1937, and will
be terminable by one month's notice on either
side. The successful applicants will be required to
pass a medical examination before appointment.
Applicants should state whether or not they
possess a motor car and/or hold a driving licence.
Applications, stating (1) name and address, (2)
married or single, (3) age, (4) qualifications, (5)
present position, salary and date of appointment,
(6) previous positions with dates and salaries, (7)
names and addresses of two persons to whom
reference can be made, should be sent to the
County Architect, Shire Hall, Gloucester, not later
than Thursday, the 22nd October, 1953.

Clerk of the County Council.
Shire Hall, Gloucester.

STAFFORDSHIRE COUNTY COUNCIL.

Shire Hall, Gloucester.

STAFFORDSHIRE COUNTY COUNCIL.

EDUCATION COMMITTEE.

Applications are invited for the following posts in the Education Architect's Department:—

1. QUANTITY SURVEYORS, Grades A.P.T. IV/VI according to qualifications and experience. Preference will be given to members of the R.I.C.S. Quantities Sub-Division), or the I.Q.S. Applicants to state their experience in "Working Up." Estimating," "Measuring on Site," "Adjustment," and "Settlement of Final Accounts."

"Adjustment," and "Settlement of Final Accounts."

2. SPECIFICATION WRITER up to Grade A.P.T. IV according to experience. Applicants should have a thorough knowledge of the building trade, and some years experience in specification writing.

Applications to be submitted as soon as possible to:

A. C. H. Stillman, Esq., F.R.I.B.A., Education Architect, Green Hall, Lichfield Road, Stafford.

T. H. EVANS,

Clerk to the County Council.
9707

LONDON COUNTY COUNCIL
ARCHITECT'S DEPARTMENT.

MAINTENANCE ASSISTANTS in Maintenance
Division. Applicants should be capable of carrying out inspections and surveys of all types of
buildings for maintenance repairs, redecorations
and minor alterations. and have experience in
preparation of estimates based on Schedule of
Prices, specifications for and supervision of work
carried out by either schedule contracts or direct
labour. Salary £480—£660 according to experience
with opportunities of promotion to higher grades
for suitably qualified assistants.

Application form. returnable by 31st October,
from Architect (AR/EK/MA/2), County Hall,
S.E.1. (1064).

Application form. Feturnanic by 31st October, from Architect (AR/BK/MA/2), County Hall. S.E.I. (1064).

BOROUGH OF OLDBURY.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments in the Architects' Section of the Borough Surveyor's Department:—

(a) SENIOR OULD TYPE SURVEYOR. Grade A.P.T., VII (£710×£25-£785).

The Corporation's building programme comprises mixed development of houses, maisonettes and flats, shopping centres, development on Central Clearance Areas for multi-storey flats, and general building works for all committees.

Candidates for appointment (a) should be a Chartered Quantity Surveyor, possess a thorough knowledge of building contract procedure, and have administrative ability; be experienced in preparation of estimates, preparing specifications and bills of quantities; valuation for interimetrificates and settling final accounts for all types of local authority building contracts.

Appointment (b) applicants should preferably be qualified Quantity Surveyors, and have had considerable practical experience in the preparation of bills of quantities.

The appointment will be superannuable and subject (a) to the Conditions of Service of the National Joint Council for Local Authorities' Administrative. Professional. Technical and Clerical Services, and (b) to the successful candidate passing a medical examination.

Applications, giving particulars of age, qualifications and experience, together with the names of two referees, should be delivered to the undersigned not later than Monday. 26th October, 1953. Housing accommodation will be available to married applicants if this is required.

KENNETH PEARCE.

Town Clerk.

Municipal Buildings, Oldbury.

HERTFORDSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following

appointments:- CHIEF ASSISTANT ARCHITECT, Grade X £895—£1.025. SENIOR ASSISTANT ARCHITECT, Grade VII

SENIOR ASSISTANT ABOUT 18710-18785.

Previous Local Government experience is not essential. Applications stating clearly which nost is applied for, together with the names of three referees, should be addressed to the County Architect. County Hall, Hertford, Herts., to be received not later than the first post on Friday. 30th October, 1953.

CITY OF NOTTINGHAM.
CLERK OF WORKS.
Applications are invited for the position of Clerk
( Works in the City Engineer's Department.
Salary—Grade Misc. 5, i.e., 480 rising to £540,
ommencing salary according to applicant's
anabilities.

commencing salary according to applicant's capabilities.
Applicants should be experienced in the supervision of the construction of building work, and/or building maintenance, and capable of preparing Bills of Quantities and Specifications for minor repair work.
The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, as amended by Part XI of the Nottingham Corporation Act, 1952. The successful candidate will be required to pass a medical examination.

examination.

Applications are to be made on forms to be obtained from R. M. Finch Esq., O.B.E., M.I.C.E., City Engineer and Surveyor, Guildhall, Nottingham, to whom they should be returned not later than Friday, 30th October,

T. J. OWEN. Town Clerk.

Guildhall, Nottingham

Guildhall, Nottingham.

9665
PETERLEE DEVELOPMENT CORPORATION.

APPOINTMENT OF ARCHITECT.

Applications are invited from qualified architects for the appointment of Architect in the Chief Architect's Department at a salary of 1785 × £50—£985 per annum. The post is superannumble and the appointment will be subject to the Corporation's Conditions of Service. The successful candidate will be required to pass a medical examination. Housing accommodation can be made available if necessary.

Applicants should be experienced in housing design and layout, flats and shopping centres and capable of taking part in contract administration. Experience in school design would be an advantage.

Applications, stating age, qualifications and ex-perience, together with names of two referees, should reach the undersigned not later than 1st November, 1953.

A. V. WILLIAMS, General Manager.

Shotton Hall, Castle Eden, Co. Durham.

Shotton Hail, Castle Euch,

Co. Durham.

Co. Durham.

HACKNEY BOROUGH COUNCIL require a
GENERAL SUPERVISOR (New Building Works)
on the permanent establishment in the Borough
Engineer and Surveyor's Department.
Salary within A.P.T. Division Grades VII—
VIII (4210 per annum—4835 per annum) plus
London Weighting Allowance of £30 per annum
(for candidates aged 26 years and over). Candidates must have extensive experience in the
Building Industry and the Control of Building
Operatives. Organising ability is essential.
Conditions of appointment and application
forms may be obtained from the undersigned
upon receipt of a stamped addressed foolscap
envelope.

upon receipt of a stamped addressed foolscap envelope. Completed application forms endorsed "General Supervisor (New Building Works)" must be re-turned not later than first post on the 12th November, 1953.

DUDLEY SORRELL, Town Clerk.

Town Hall,
Hackney, E.8.
1st October, 1963.

HUYTON-WITH-ROBY URBAN DISTRICT
COUNCIL.
JUNIOR ARCHITECTURAL ASSISTANT.
Applications are invited for the above-mentioned appointment in the Architect's Department from candidates who have passed or have been exempted from, the Intermediate Examination of the R. I. B.A. Applicants much had the necessary experience laid down in the National Joint Council's Scheme o' Gonditos of Service.
Applications marked "Junor Architectural Assistant" must be received by the Clerk of the Council by Monday, the 26th October, 1953. Names of two referees will be required.
Canvassing disqualifies.
Relationship to any Member or Officer of the Council must be disclosed.
H. E. H. LAWTON,
Clerk of the Council.

October, 1953.

CITY OF STOKE-ON-TRENT.
CITY ARCHITECT'S DEPARTMENT.
Applications are invited from suitably qualified persons for the following appointments:—
(a) ASSISTANT QUANTITY SURVEYORS.
Salary A.P.T. Div. Grade VII £760-£835.
(b) ASSISTANT QUANTITY SURVEYOR.
Salary A.P.T. Div. Grade VII £760-£835.
Norr: Suitable housing accommodation may be made available to successful candidates.
The selected applicants will be required to pass a medical examination and the appointments will be subject to the provisions of the Local Government Superannuation Act, 1937.
Applications, stating date of birth, particulars of training, experience, etc., with copies of two recent testimonials, should be received by J. R. Piggott, F.R.I.B.A.. City Architect. Kingsway, Stoke-on-Trent, Staffs., endorsed with the title of the appointment, not later than Monday, 25th October, 1953.

HARRY TAYLOR.

HARRY TAYLOR.

Town Hall, Stoke-on-Trent, 29th September, 1953.

BOROUGH OF HESTON AND ISLEWORTH.
ENGINEER AND SURVEYOR'S
DEPARTMENT.
Applications are invited for the appointment of
GENERAL ARCHITECTURAL ASSISTANT at
a salary in accordance with A.P.T. Grade III
(£525 × £15-£570) plus London "weighting."
Applicants must have had good general architectural experience. Other things being equal
preference will be given to candidates who have
passed the R.I.B.A. Intermediate Examination.
The Council is unable to assist the successful
candidate with housing accommodation.
Particulars of the appointment and form of
application may be obtained from the Borough
Engineer and Surveyor, 88, Lampton Road,
Hounslow, to whom applications must be submitted by noon on Monday, 2nd November, 1953.

HAROLD SWANN,
Town Clerk.
Council House, Hounslow.

Council House, Hounslow.

Council House, Hounslow.

NATIONAL COAL BOARD—
WEST MIDLANDS DIVISION.
Applications are invited for an ARCHITECTURAL ASSISTANT Grade 1 £525 × £25—£550
(male) and £420 × £20—£520 (female) in the
Divisional Architect's Department of the Board.
Headquarters for this appointment will be at Fenton, Stoke-on-Trent.
Applicants should at least have passed the Inter.
Examination of the R.I.B.A. and have experience in preparation of working drawings under
supervision. The post is superannuable.
Applications giving age, education, qualifications
and experience with dates in chronological order
should be sent to the Divisional Establishment
Officer, National Coal Board, West Midlands
Division, Himley Hall. Dudley, Worcs., not later
than 24th October, 1953.

MINISTRY OF WORKS.

Vacancies exist in London in the Chief Architect's Division for ARCHITECTURAL ASSISTANTS with recognised training and fair experience. Employment will be on a wide variety of Public Buildings including Atomic Energy and other Research Establishments, Telephone Exchanges and Housing.

Salary: Up to £628 per annum. Starting pay according to age, qualifications and experience. Although not established posts, many have long term possibilities and competitions, are held periodically to fill established vacancies. Reasonable prospects for promotion to Leading and Senior Architectural Assistant.

State age, nationality, full details of training and experience to Chief Architect, W. G.10/C.A.3. (G), Ministry of Works, Abell House, John Islip Street, London, S.W.1.

BOROUGH OF KETTERING.

APPOINTMENT OF JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment at a salary according to experience within Grade A.P.T. I (£465 × £15-£510).

The appointment will be subject to the Local Government Superannuation Acts, and to the provisions of the National Scheme of Conditions of Service, and the successful candidate will be required to pass a Medical Examination.

Applications stating age, status, qualifications, experience, past and present appointments, with dates, and accompanied by copies of at least two testimonials must reach the undersigned not later than Monday, 26th October, 1953.

D. DUNSFORD PRICE,

Town Clerk's Office,

Town Clerk's Office, High Street, Kettering. 5th October, 1953.

HORNCHURCH URBAN DISTRICT COUNCIL.
ENGINEER AND SURVEYOR'S
DEPARTMENT.
Applications are invited for the following appointments in the Engineer and Surveyor's Department.
ARCHITECTURAL ASSISTANT Grade A.P.T.
IV 4555-4570.
ARCHITECTURAL ASSISTANT Grade A.P.T.
III 4265-4570.
ARCHITECTURAL ASSISTANT Grade A.P.T.
12 4465-4510.

ARCHITECTURAL ASSISTANT Grade A.P.T. 12465—2510.

Forms of application and full details of the appointments can be obtained from the undersigned by whom applications endorsed "Architectural Assistant Grade —" must be received not later than 24th October, 1953.

Council Offices, Hornchurch.

October, 1953.

9723

OXFORD REGIONAL HOSPITAL BOARD.
Applications are invited from qualified Architects and Quantity Surveyors to fill the following posts in the Regional Architect's Department.
Compulsory superannuation. A car is desirable.
PRINCIPAL ASSISTANT ARCHITECT Scale
1—21.050 × £40—£1.250.
ASSISTANT ARCHITECT £500 × £25(7) × £30(3)—£855.

ASSISTANT ARCHITECT 2000

\*\*250(3)-2865.

ASSISTANT QUANTITY SURVEYOR £600 ×
£25(7) × £30(3)-£865.

Applications stating age, training qualifications and previous experience with the names of two referees should be submitted to the Secretary.

Oxford Regional Hospital Board. 43, Banbury Road, Oxford, not later than 5th November, 1953.

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BOROUGH OF RAMSGATE.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
APPOINTMENT OF ARCHITECTURAL
ASSISTANTS.
Applications are invited for the following appointments:—

(a) Two temporary Architectural Assistants at salaries in accordance with A.P.T. Grade IV (£555—£600).

(b) Junior Architectural Assistant at a salary in accordance with A.P.T Grade IV (£655—£650).
For appointments (a) preference will be given to applicants who have passed the intermediate examination of the Royal Institute of British Architects, and have had at least two years office esperience.

to appuration of the Royal Institute of Architects, and have had at least two years' office experience.

Housing accommodation will be made available if required.

The appointments are subject to the National Scheme of Conditions of Service, and will be terminable by one month's notice on either side. Appointment (b) is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Canvassing, either directly or indirectly, will disqualify, and applicants must state whether to their knowledge they are related to any member or senior officer of the Council.

Applications endorsed "Temporary Architectural Assistant" or "Junior Architectural Assistant" and accompanied by not more than two recent testimonials, should be delivered to me not later than Tuesday, 3rd November, 1953.

Manieral Buildings, Ramsgate.

K. F. SPEAKMAN,

Town Clerk,

Municipal Buildings, Ramsgate.

DUBLIN CORPORATION,
VACANCIES FOR:

TEMPORARY PLANNING ASSISTANTS
GRADE I.

Latest date for receipt of applications—16th
November, 1953.

Salary: 4975 per annum inclusive of temporary
allowance.
Application forms and full particulars from
Establishment Department, City Hall, Dublin,
where completed forms should be lodged.
P. J. HERNON,
City Manager and Town Clerk.
City Hall, Dublin.
7th October, 1953.

POPLAR BOROUGH COUNCIL invite and town controls.

7th October, 1953.

POPLAR BOROUGH COUNCIL invite applications from Registered Architects for the established post of ARCHITECTURAL ASSISTANT, A.P.T. V. Forms obtainable from the Borough Engineer and Surveyor, Poplar Town Hall, Bow Road, E.3. Closing date, first post 2nd November, 1953.



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COUNTY BOROUGH OF BARNSLEY.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.

APPOINTMENT OF TEMPORARY ASSISTANT
ARCHITECT.

Applications are invited from suitably qualified
persons for the appointment of Temporary
Assistant Architect in the Borough Engineer's
Department at a salary in accordance with
A.P.T. Grade V (£595—£645 per annum).
Applicants should be good draughtsmen and
have had experience in the design of Municipal
housing schemes and/or public buildings.
The appointment will be subject to (a) the
Scheme of Conditions of Service for A.P.T.C. Staff.
(b) any other general conditions of employment
in operation within the Corporation from time to
time; and (c) to one month's notice on either
side.

time; and (c) solved and previous side.

Applications, stating age, present and previous app..intments, experience, qualifications, etc., and giving the names of two persons for reference, should reach the Borough Engineer, Town Hall, Barnsley, not later than Monday, 2nd November,

1953.

Canvassing will disqualify and applicants should disclose whether to their knowledge they are related to any Member or Senior Officer of the Conneil.

A. E. GILFILLAN, Town Clerk.

A. E. GILFILLAN,
Town Hall, Barnsley.
October, 1953.

BOROUGH OF BASINGSTOKE.
BOROUGH ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of an architectural assistant Grade IV (£555—£500.)
Applicants must have reached the standard of the Intermediate examination of the R.I.B.A. and to have had good experience in housing of contemporary design.
The appointment will be subject to the provisions of the Local Government's Superannusion Act, 1977, to the National Joint Council's condition of service and the successful candidate will be required to pass a medical examination.
Applications stating age, qualifications and giving details of education and experience, together with copies of two recent testimonials, are to be submitted to the Borough Architect, (Eric Almond, Dipl. Arch. R.I.B.A.). Municipal Buildings, Basingstoke, not later than 30th October, 1955.

MEIRION O. JONES.

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MEIRION O. JONES.

Town Cler.

Municipal Buildings, Basingstoke.

97

MUNICIPAL BUILDINGS, BASINGSTOKE.

DERBYSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
Applications invited for the appointment of:—
(a) ASSISTANT ARCHITECT on A.P.T. Grade
VI (£670 × £20(2) and £25 to £755 per annum).
(b) ARCHITECTURAL ASSISTANT on A.P.T.
Grade II (£495 × £15 to £540 per annum).
These vacancies are in the General Section of the department dealing with Police and Firemen's houses, Police and Fire Stations, Smallholdings, etc.

houses, Folice and the control of the control of application to be obtained from the County Architect by the 24th October, 1953.

F. H. CROSSLEY,

County Architect.

F. H. CROSSLEY,
County Architect.
St. Mary's Gate, Derby.
7th October, 1953.

ROROUGH OF ILFORD.

APPOINTMENT OF ARCHITECTURAL ASSISTANT GRADE A.P.T. VII/VIII.
Applications are invited for the position of
Architectural Assistant on the permanent staff
of the Borough Engineer's Department.
Candidates should be registered Architects and
Corporate Members of the R.I.B.A., have a
thorough knowledge of architectural works with
practical experience in the design and development of public buildings of all types, flats
housing schemes, etc., the preparation of specifications and be capable of supervising and controlling contracts.
Salary will be in accordance with A.P.T. Grades
VII/VIII commencing at £710 per annum and

rising to £835 per annum plus London Weighting. The Council may be in a position to provide housing accommodation in connection with this appointment.

The appointment will be subject to one month's notice on either side, to the provisions of the Local Government Superannuation Acts, the National Scheme of Conditions of Service, and to a medical examination.

Applications on forms obtainable from the Town Clerk, Town Hall, Ilford, should be submitted not later than the 24th October, 1953.

BRITISH ELECTRICITY AUTHORITY.

Applications are invited for the following positions within the Division.

CIVIL ENGINEERING DRAUGHTSMEN, Construction Department. (Vacancy No. 22/53.) Candidates should have experience in design and detail of reinforced concrete structures, piled and slab foundations for heavy plant, culverts, cable subways, etc., for general building construction drainage and sanitation schemes, associated with office and administrative buildings. The salary will be in accordance with Grade 5 (£567—£671 per annum) or Grade 6 (£433—£567 per annum) of Schedule D of the National Joint Board Agreement.

Board Agreement.

ENGINEERING DRAUGHTSMEN

(MECHANICAL),

Construction Department. (Vacancy No. 44/53.)

Senior Draughtsmen are required in the Mechanical Section of the Construction Department at North Wilford Power Station. Candidates should have experience in one or more of the following:

ould have experience in the lowing:

(i) Design and layout of Power Station equipment, including Turbo-alternators, boiler plant, coal and ash plant, and general station auxiliaries.

(ii) H.P. and L.P. steam and feed pipework. Condensing plant and feed heating systems.

Condensing plant and feed heating systems.

(iii) Conveyor plant, coal handling systems and material handling of station auxiliary equipment.

Salary and conditions of service will be in accordance with the National Joint Board Agreement Grade 5 (£557-£671 per annum) and Grade 6 (£433-£567 per annum) of Schedule D according to experience.

ment Grade 5 (£567—£671 per annum) and Grade 6 (£433—£575 per annum) of Schedule D according to experience.

ENGINEERING DRAUGHTSMEN
(ELECTRICAL),
Construction Department. (Vacancy No. 61/53.)
Candidates should have experience in the preparation of layouts and diagrams for the installation of E.H.T. and L.T. Switchgear, transformers, E.H.T. and L.T. Switchgear, transformers, E.H.T. and L.T. Switchgear, transformers, E.H.T. and L.T. Scotchede of the stallation of E.H.T. and L.T. Switchgear, transformers, E.H.T. and L.T. Gables; knowledge of protective gear systems would be an advantage.

The salary will be in accordance with Grade 5 (£567—£671 per annum) of Grade 6 (£433—£567 per annum) of Schedule D of the National Joint Board Agreement.

The above positions will be pensionable within the provisions of the British Electricity Authority and Area Boards Superannuation Scheme.

Applications should be submitted on the official form which may be obtained from the Divisional Establishments Officer, British Electricity Authority, Barker Gate, Nottingham, and should be returned to the undersigned. Please quote Vacancy Number.

L. F. JEFFREY.

Divisional Controller.

L. F. JEFFREY, Divisional Controller

EBBW VALE URBAN DISTRICT COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for the undermentioned appointment on the permanent staff of the Architect's Department:—

ASSISTANT ARCHITECT (Grade A.P.T., III).

Salary: £252×£15—£570.

Applicants should have passed the Intermediate Examination of either the Royal Institute of Architects or the Royal Institute of Architects or the Royal Institution of Chartered Surveyors (Building Sub-Divisiom), and should have had good general architectural and surveying

experience, not necessarily in Local Government Offices. In addition some knowledge of Quantities would be an advantage.

The Architect's Department has a full programme of work covering Housing Estates, Slum Clearance and Reconstruction Schemes, layout of new parks and open spaces, Town Planning Administration, and general Municipal Building work.

work.

The appointment will be subject to the provisions of the Local Government Superanguation Acts, 1937-1953, and the National Conditions of Service. The successful applicant will be required to pass a medical examination, and the appointment will be subject to one month's notice in writing on either side.

The Council are unable to provide housing

The Council are unable to provide housing accommodation.

Applications stating age, qualifications and experience, together with the names of two referees to whom reference may be made, should be delivered to the undersigned not later than Wednesday, the 28th October, 1953.

Applicants must state in their applications whether, to their knowledge, they are related to any member of the Council or senior officer under the Council.

Canvassing, directly or indirectly, will disqualify.

BE HEDDERS

R. E. HERBERT.

Clerk of the Council.

District Council Offices, The Walk,

Ebbw Vale, Mon.

9739

Architectural 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 18-69
inclusive unless he or she is, or the employment, is
excepted from the provisions of the Notification
of Vacancies Order, 1952.

Vacancies Order, 1952.

TO ALL APPLICATIONS MADE TO BOX
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A SSISTANT required for large general Architectural Practice with offices in Maidenbead.

Some experience in specification writing essential. Salary £300 to £500, according to experience.

Box 835.3

NACANCY arises for Articled Pupil (Architectural or Building Surveying) in City Brm. Box 9468.

ARCHITECTURAL ASSISTANT, Inter
R.I.B.A. standard required in Reading
office of Chartered Architects. Applicant must
be capable of preparing working drawings, details
and specifications. Salary £350 to £500. All
details to Box 9650.

and specifications. Salary £350 to £500. All details to Box 9650.

A RCHITECTURAL ASSISTANT (SENIOR) required by Dublin Firm of Architects. Applications are invited from qualified Assistants (Hospital experience an advantage), stating experience, salary required, etc., to Box 9724.

A RCHITECTURAL DRAUGHTSMAN required for busy office in Home Counties. Good salary to suitable applicant. Reply Box 9670.

YOUNG Midland office-trained ASSISTANT required for Norfolk office. Car driver; competent Surveyor. Draughtsman and Detailer. Knowledge of Final Accounts a distinct advantage. Apply with details of experience and salary required to Box 9675.

S ENIOR ASSISTANT ARCHITECT or Surveyor required to take charge of administrative side of busy architect's office in London. Good salary. Apply stating age, salary required, qualifications and experience to Box 9686.

A RCHITECTURAL ASSISTANT required with practical experience, knowledge of contract work, surveys, etc., yaried work, mainly industrial. George Watt, A.R.I.B.A., Merton Park, S.W.19. Tel. Liberty 8181/2.



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YOUNG ASSISTANT, up to Inter. B.I.B.A. standard, with good constructional knowledge, required for Architects' Department of Multiple Retail Company, with H.Q. in London. Occasional travelling involved. Write, stating age, experience, and salary required. Box 9725.

ARCHITECTURAL ASSISTANT required, in country town 20 miles south of London, for detailed working drawings. Previous office experience essentiai. Salary: £300 to £500, according to experience. Box 9726.

WANTED.—SENIOR ASSISTANT, with all-round experience in small office in the City. Please write full details, experience, and salary required, to Box 9702.

ROMILOW, WHILE & SMEETON,
A./A.R.I.B.A., require Intermediate ARCHITECTURAL ASSISTANT. Starting salary: £6
per week. 5-day week. 72, Newhall Street,
Birmingham, 3.

MIDLAND Motor Car Body Manufacturers invite applications from a qualified ARCHITECT, for a six months' project, who has had wide experience on Structural Engineering and Factory Building. Remuneration would be considered on a fee or salary basis. Apply, giving full details of experience, age, and salary or fee required. to Personnel Manager. Box 9729.

A RCHITECTURAL ASSISTANT required for busy office in Home Counties. Good salary to suitable applicant. Reply Box 9669.

SENIOR and JUNIOR ARCHITECTURAL ASSISTANTS required for Norwich private practice. Varied works in progress throughout Norfolk, Suffolk, Essex and in London. Reply in writing, giving full particulars of qualifications, if any, age, previous experience, and salary required. Box 9701.

A SSISTANT required immediately in busy contemporary office, S.W.1, for varied work, including shops, houses and industrial projects. About 3 years' experience. Good knowledge of construction and detailing essential; ability to sketch an advantage. Salary according to experience and ability. Ring TAT. 3824 or write Box 9737.

PRAUGHTSMAN, SHOPFITTING.—Preference man with Art School Training. Reply before end October, stating age and shopfitting experience, to Managing Director, A. Edmonds & Co., Ltd., 91, Constitution Hill, Birmingham. 9700

WANTED for London, competent assistant. Good draughtsman. Traditional work. Box 9736

CHARTERED Architects, S.W. London, require SENIOR ASSISTANT, age 30/35. Capable of taking complete charge of work. Good prospects for suitable applicant, Salary according to experience. Box 9704.

JUNIOR ARCHITECTURAL ASSISTANT required for country practice. Write, stating age, experience, and salary required, to Edwin H. Earp & Badger, L./A.R.I.B.A., Scholars Lane, Stratford-on-Avon.

A RCHITECTURAL ASSISTANT required immediately in busy practice, North-East. Good draughtsman, experienced in surveys, sound construction and detailing. Salary according to experience. Full particulars, Box 9716.

A RCHITECT.—PARTNER or CHIEF ASSISTANT, with view to partnership, required in established North Midlands Firm to succeed retiring Partner. Capital not essential. Connections an advantage. Write Box 9717.

ARCHITECTURAL DRAUGHTSMAN required for detailing, also site layouts. High standard of draughtsmanship absolutely essential, and previous knowledge of non-traditional construction an advantage. Apply Trusteel Corporation, Heath Road, Oxhey, Herts. Watford 6256.

EXPERIENCED qualified architect A.R.I.B.A. required, preferably with A.R.I.C.S. degree, to take complete charge of technical development in connection with a new patented aluminium roofing. Excellent salary and long term prospects. Age no barrier for competent applicant. First-class references will be required. Applications to S. W. Ronald & Co. (London) Ltd., 329, High Holborn, W.C.1. Tel: HOL 2237.

#### **Architectural Appointments Wanted**

CHARTERED ARCHITECT, with 19 years' experience in general practice, domestic, commercial and industrial work, war damage and conversions, handling of contracts, site supervision, etc., seeks responsible post. Box 773.

A RCHITECTURAL DRAUGHTSMAN, Student Divina Proportione, seeks post as Assistant to experienced designer. Headwork appreciated and preferred. Box 9692.

ENIOR ASSISTANT (33), with 15 years' varied experience in design, structures and contract administration, seeks responsible London post with prospects. Box 785.

A SSISTANT, meat draughtsman, having comprehensive experience, requires position where enthusiasm and imagination appreciated and scope for personal expression in good contemporary work allowed. Interested landscape design. Preferably, in S. or S.E. Excellent references. Car driver. Single. Kindly reply Box 780.

HIGHLY experienced ARCHITECT, foreign as CHIEF ASSISTANT or RESIDENT ARCHITECT. Vast experience in all type of works in many countries. References provided. Will accept appointment in any country. Apply Box 784.

ENIOR ASSISTANT (35) desires post London area. 15 years' varied experience all branches of the profession. Neat, accurate, quick draughtsman. Surveys, working drawings, details, perspectives. Rough sketch to contract drawings. Site supervision, levelling, specifications, etc. Industrial buildings, schools, hospitals, flats and housing. Conversions, estate layout, multi-storey buildings, etc. Excellent testimonials. Salary: £700 per annum. Box 781.

A RCHITECTURAL ASSISTANT, experienced all working drawings, details, seeks London situation. Box 786.

EXPERIENCED ARCHITECTURAL ASSISTANT, L.R.I.B.A. (40) 20 years' experience, seeks permanent position in London or Southern Counties. Car owner. Apply Box 776.

CHARTERED SURVEYOR (Building), Prob. R.I.B.A. (32), several years' experience as responsible Senior Assistant, seeks permanent pensionable post anywhere in South (not London), where general experience in architectural and surveying practice is required, Car owner. Box 782.

A SSISTANT, B.Arch., recently qualified, with some experience, requires position in London, with opportunity for work on contemporary interiors. Box 787.

WIDELY experienced assistant; surveys, specifications, design, with contemporary outlook, quick, accurate draughtsman, Part 2. Special Final, school trained, seeks position of responsibility promising a future of interest. Box 789.

STUDENT R.I.B.A. (female 23), 4 years' full time training, nearly 2 years' office experi-ence, seeks progressive post in London or N. Surrey. Box 788.

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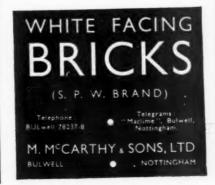
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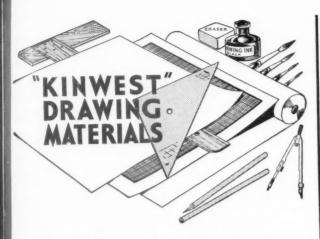
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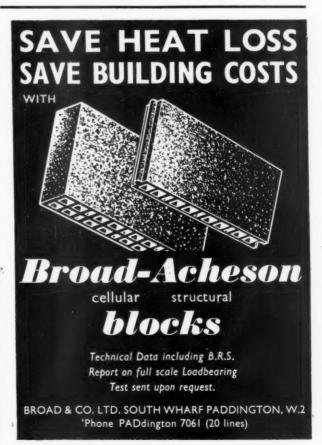
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