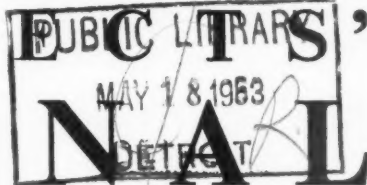


THE ARCHITECTS' JOURNAL



standard contents

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

NEWS and COMMENT

Diary

News

Astragal's Notes and Topics

Letters

Societies and Institutions

TECHNICAL SECTION

Information Sheets

Information Centre

Current Technique

Questions and Answers

Prices

The Industry

PHYSICAL PLANNING

SUPPLEMENT

CURRENT BUILDINGS

HOUSING STATISTICS

Architectural Appointments
Wanted and Vacant

★ 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, Ie 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. Curzon Street House, Curzon Street, W.1.	Mayfair 9400
MOH	Ministry of Health. 23, Saville Row, W.1.	Regent 8411
MOHLG	Ministry of Housing and Local Government. Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service, 8, St. James' Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, Victoria Embankment, W.C.	Gerrard 6933
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.	Mayfair 9494
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council. 94-98, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1.	Abbey 4813
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers, 10, Princes Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1.	Langham 4041/4054
NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4.	Macaulay 4451
NFHS	National Federation of Housing Societies. 13, Suffolk St., S.W.1.	Whitehall 1693
NHBRC	National House Builders Registration Council. 82, New Cavendish Street, W.1.	Langham 4341
NPL	National Physical Laboratory. Head Office, Teddington	Molesey 1380
NSA	National Sawmilling Association. 14, New Bridge Street, E.C.4.	City 1476
NSAS	National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1.	Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1.	Whitehall 0211
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1.	Whitehall 7245
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1.	Whitehall 9936
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh.	Edinburgh 20396
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Langham 5721
RICS	Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1.	Whitehall 5322/9242
RFAC	Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1.	Whitehall 3935
RS	Royal Society. Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2.	Trafalgar 2366
RSI	Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1.	Sloane 5134
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers. Grosvenor Gardens House, Grosvenor Gardens, S.W.1.	Victoria 2186
SCR	Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8.	Western 1571
SE	Society of Engineers. 17, Victoria Street, Westminster, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3.	Mansion House 3921
SIA	Structural Insulation Association. 32, Queen Anne Street, W.1.	Langham 7616
SIA	Society of Industrial Artists. 7, Woburn Square, W.C.1.	Langham 1984
SNHTPC	Scottish National Housing. Town Planning Council. Hon. Sec., Robert Pollock, Town Clerk, Rutherglen.	Holborn 2646
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Covent Garden, W.C.2.
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association. 21, College Hill, E.C.4.	City 4771
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation. 75, Cannon Street, E.C.4.	City 5051
WDC	War Damage Commission. 6, Carlton House Terrace, S.W.1.	Whitehall 4341
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	Oxford 47988

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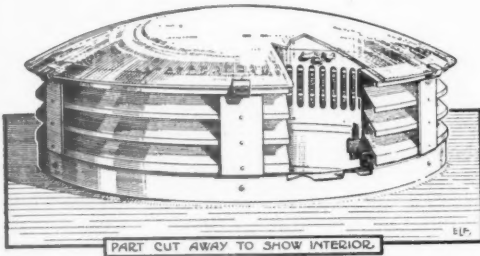
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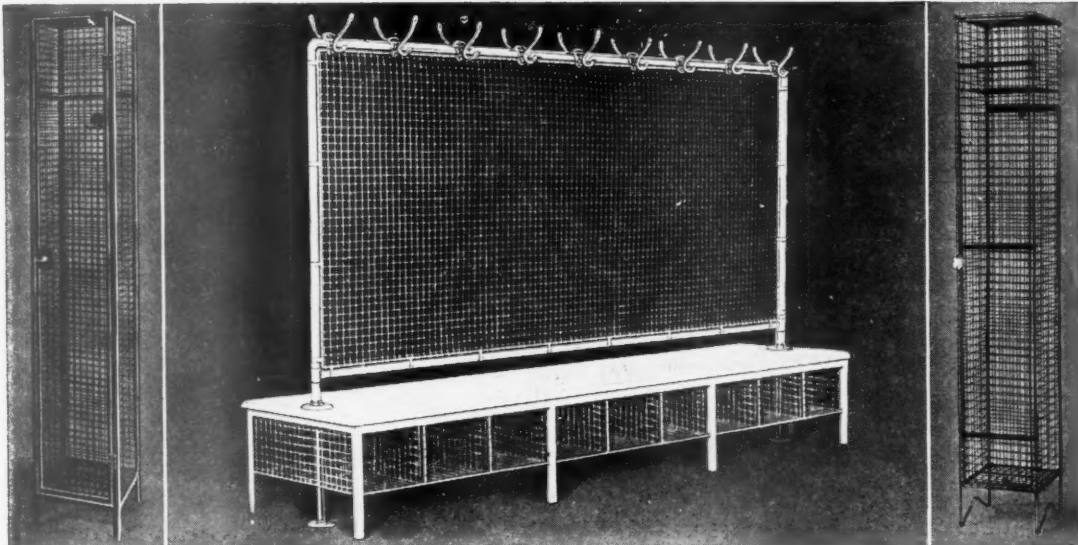
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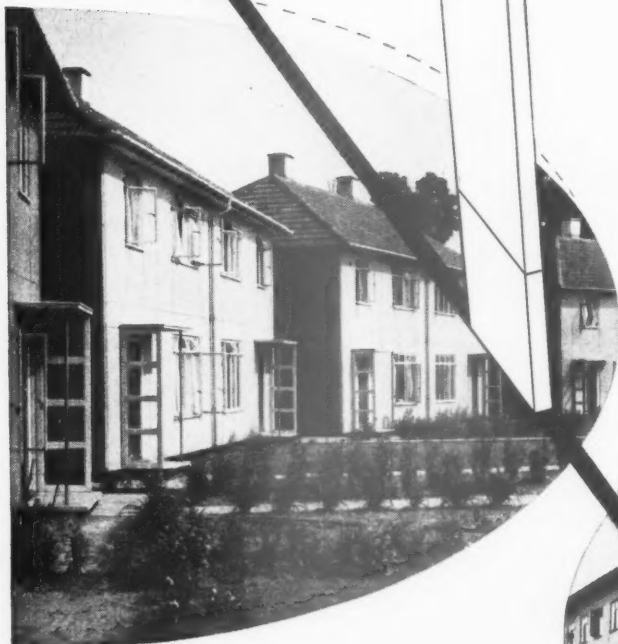
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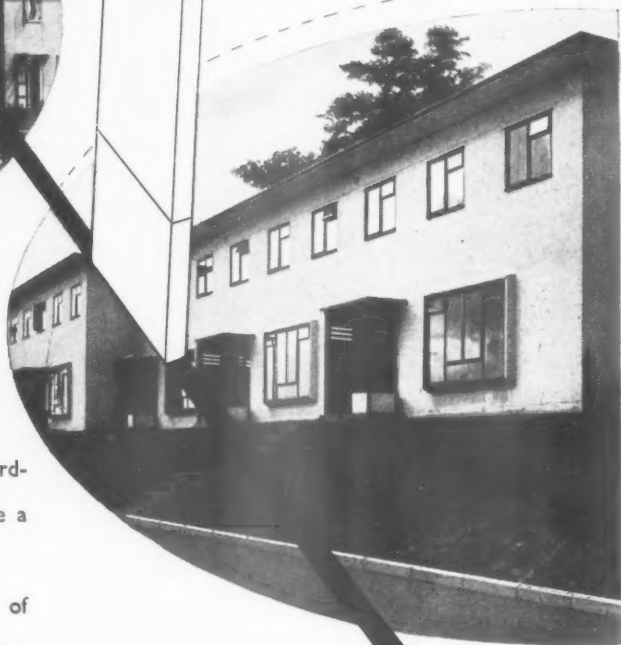
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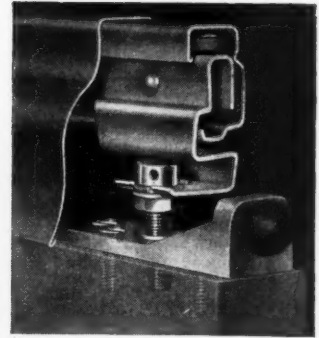
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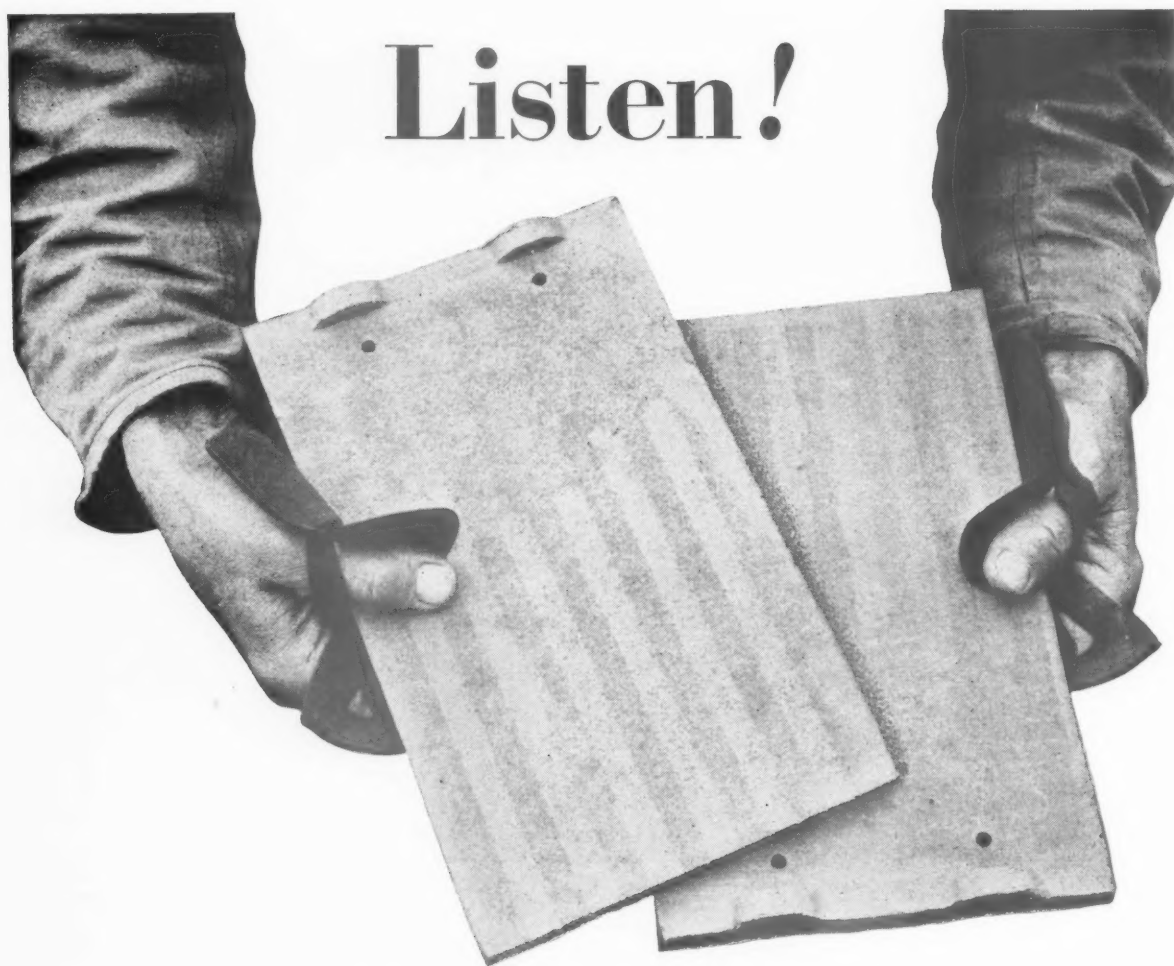
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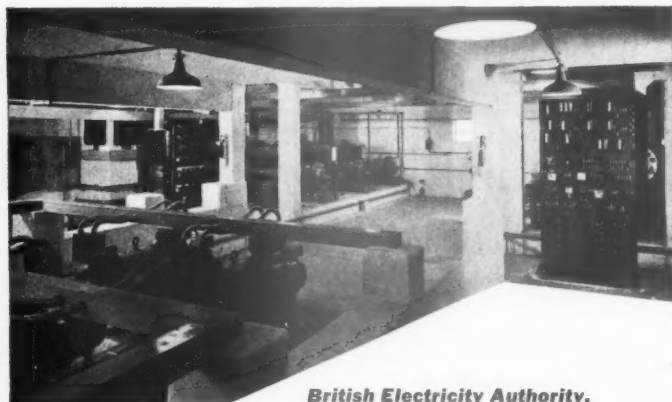
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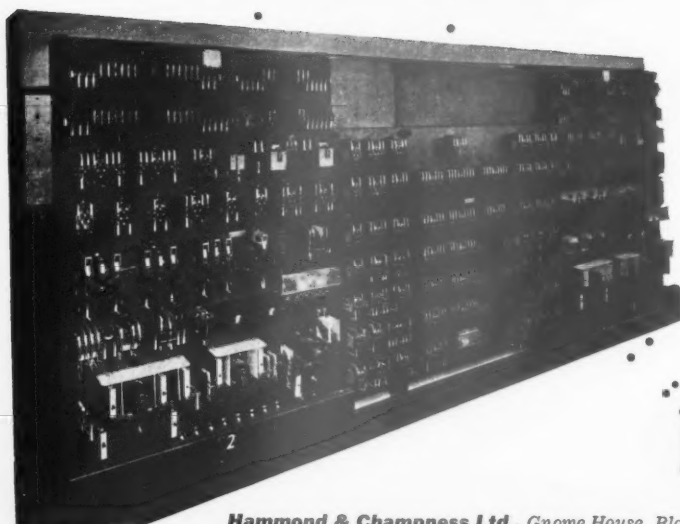


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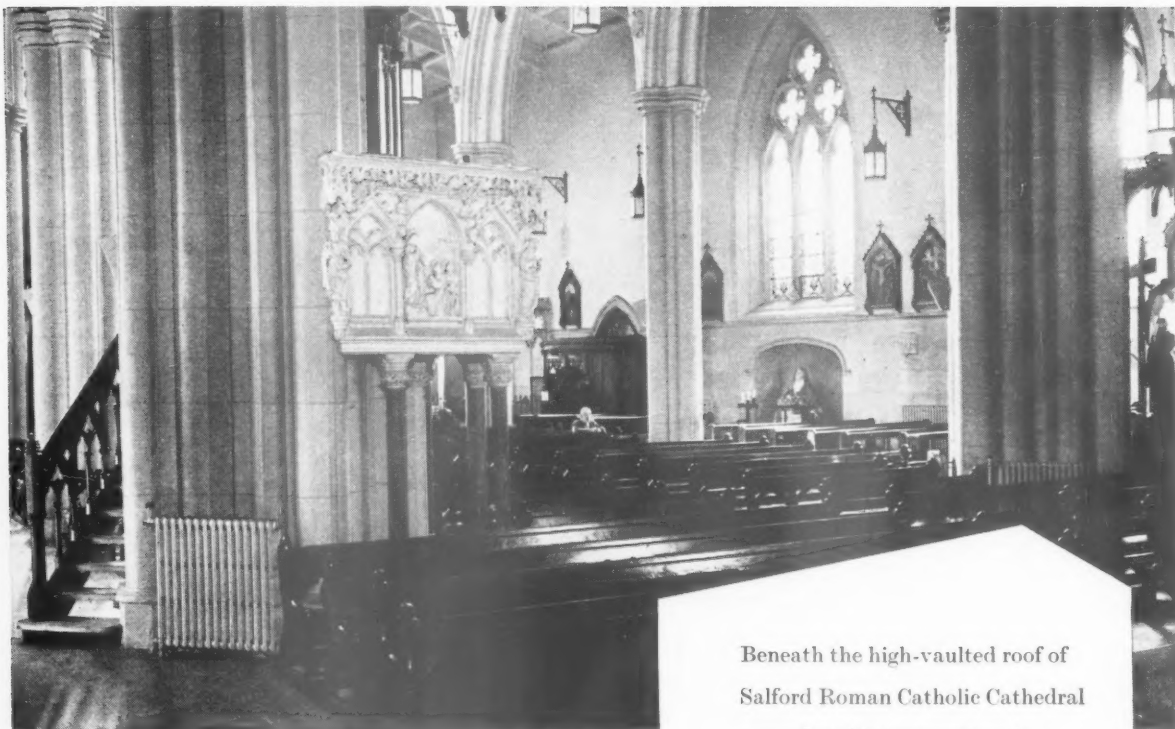
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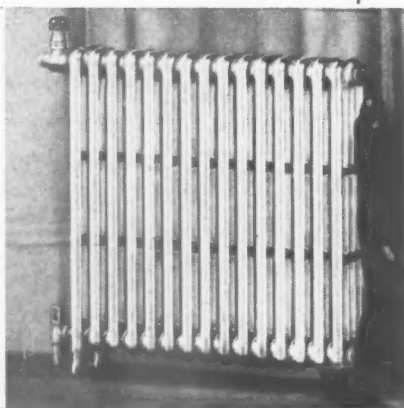


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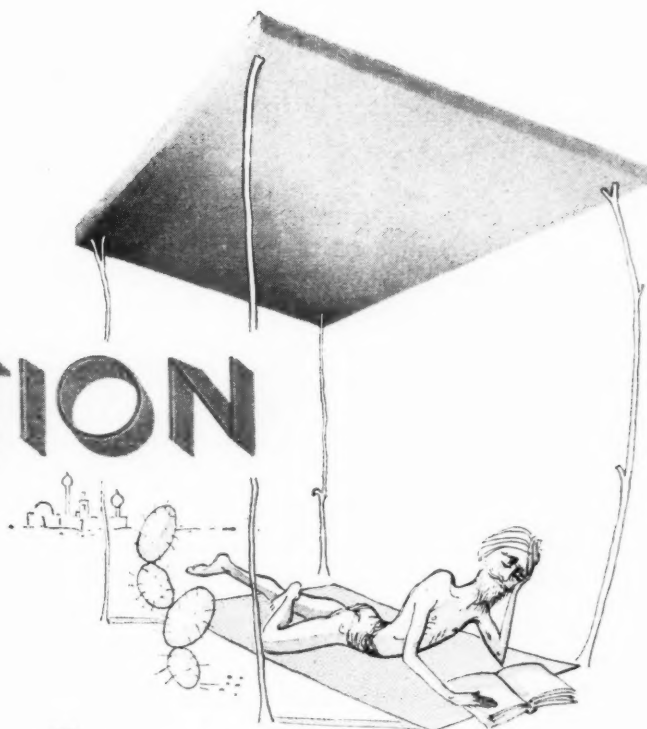
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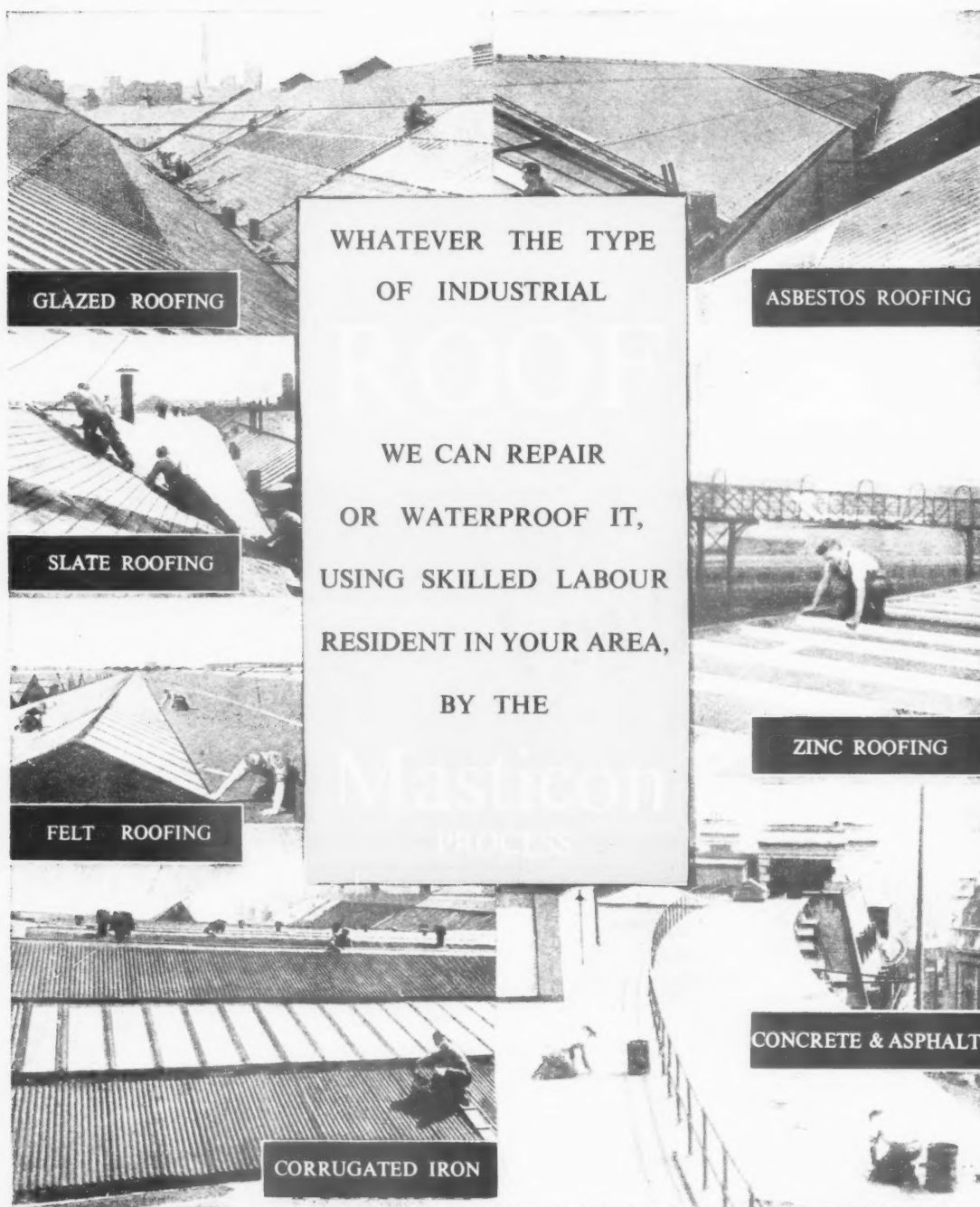
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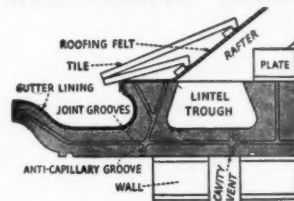
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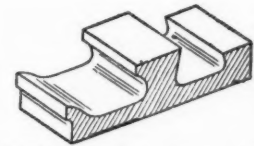
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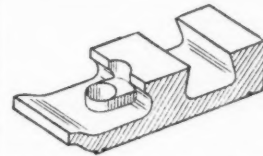
HOW FINLOCK WORKS



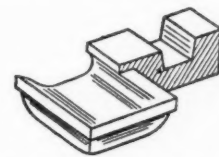
This sectional drawing shows the system in detail and illustrates the ways in which FINLOCK saves approx. 5 yards of brickwork, 80ft. of rafter, 40ft. of normal guttering, 40ft. of fascia, 40ft. of soffit and 80ft. super of roof tiling per single house. Painting is eliminated and a reduction in down pipes and drainage is obtained. The complete eaves for a building, with all fittings, can be fixed in one day. Some typical FINLOCK units are shown on the right:—



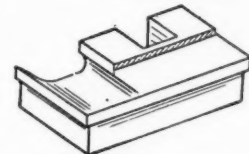
Finlock "N" Type Gutter block enabling lintels to be cast *in situ* if required.



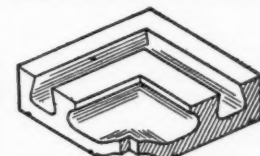
Finlock "G" Type Gutter block enabling lintels to be cast *in situ* if required, but illustrating soil vent.



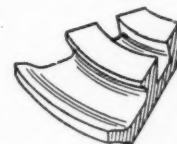
A typical standard stopped end for use on gable end walls, available for all type Gutters.



Illustrating a flush stopped end where this is also made with moulded return, available for all type Gutters.



Illustrates the typical internal angle for use with all Gutters. External angles also available.



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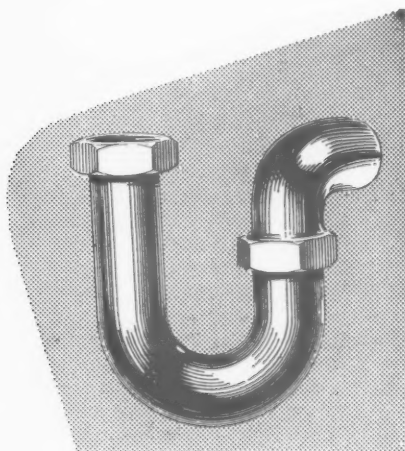
(A.J. Information Sheet No. 33010)

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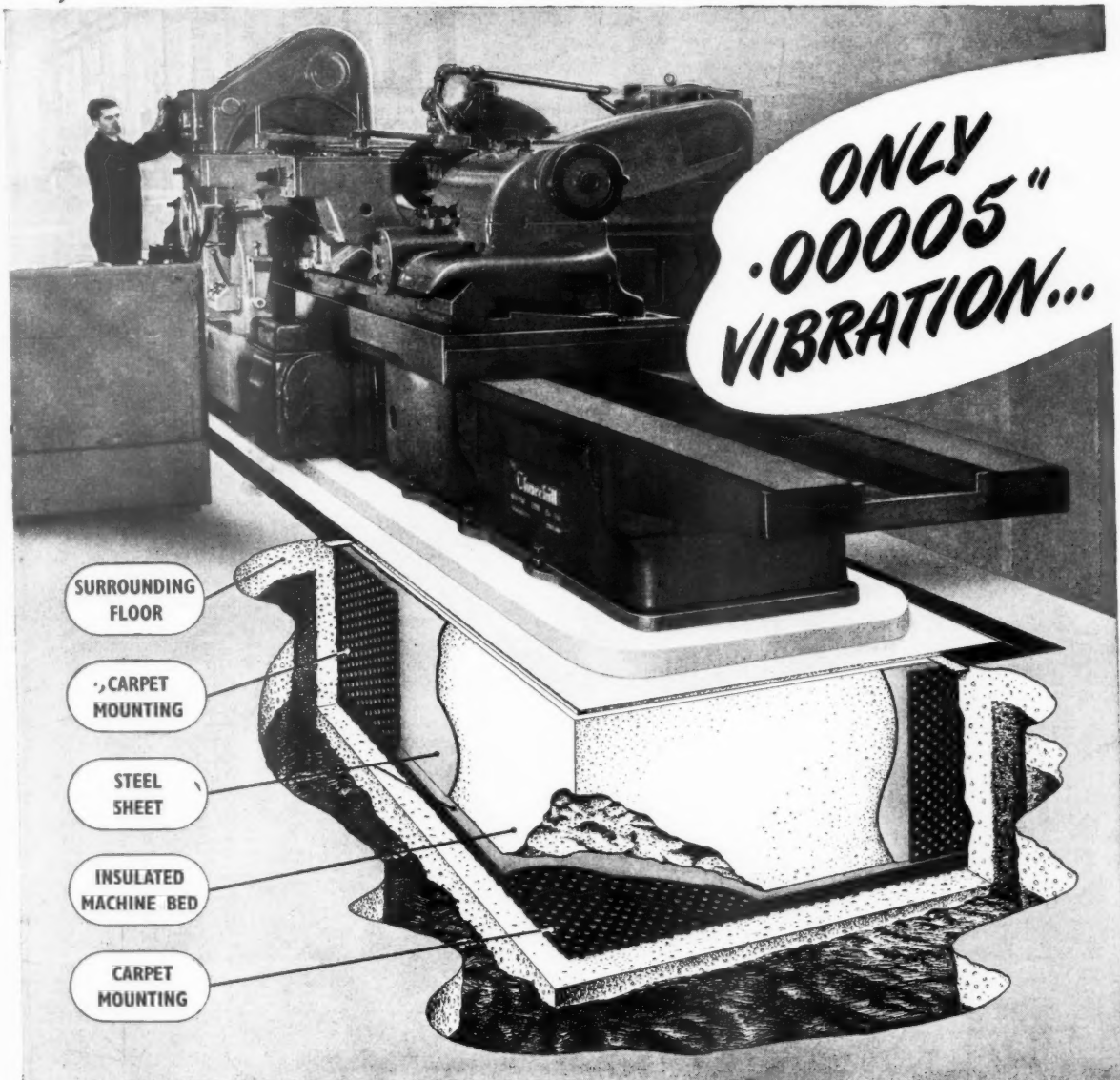
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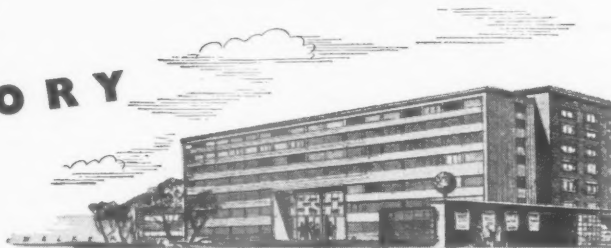
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PLIMBERITE

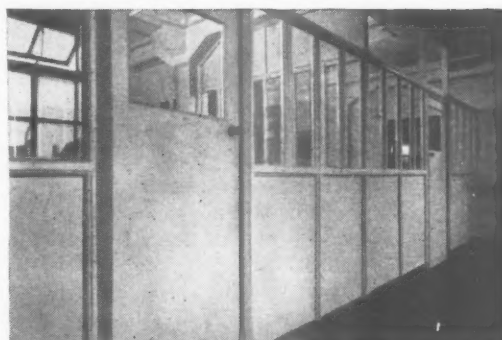
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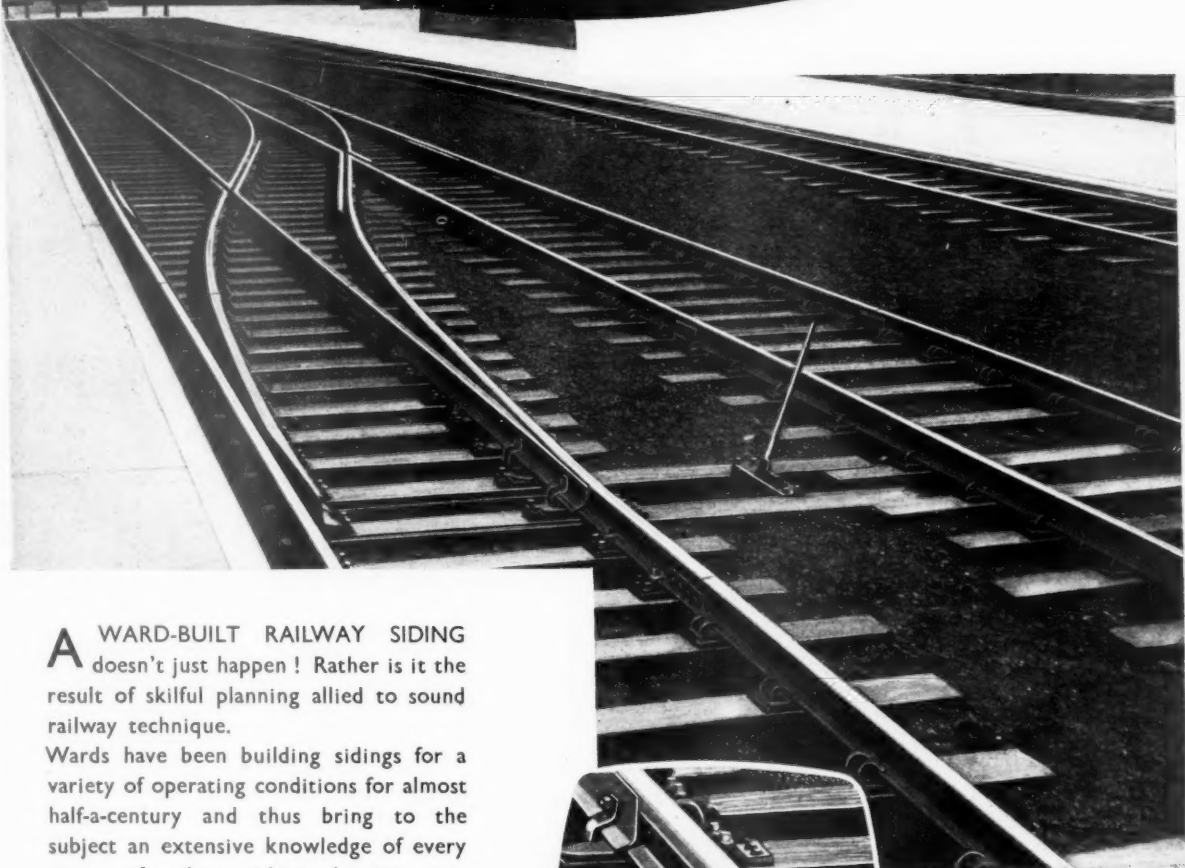
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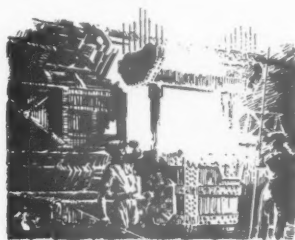
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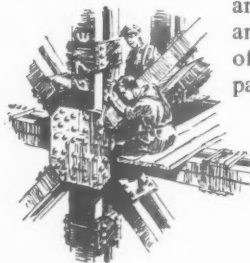


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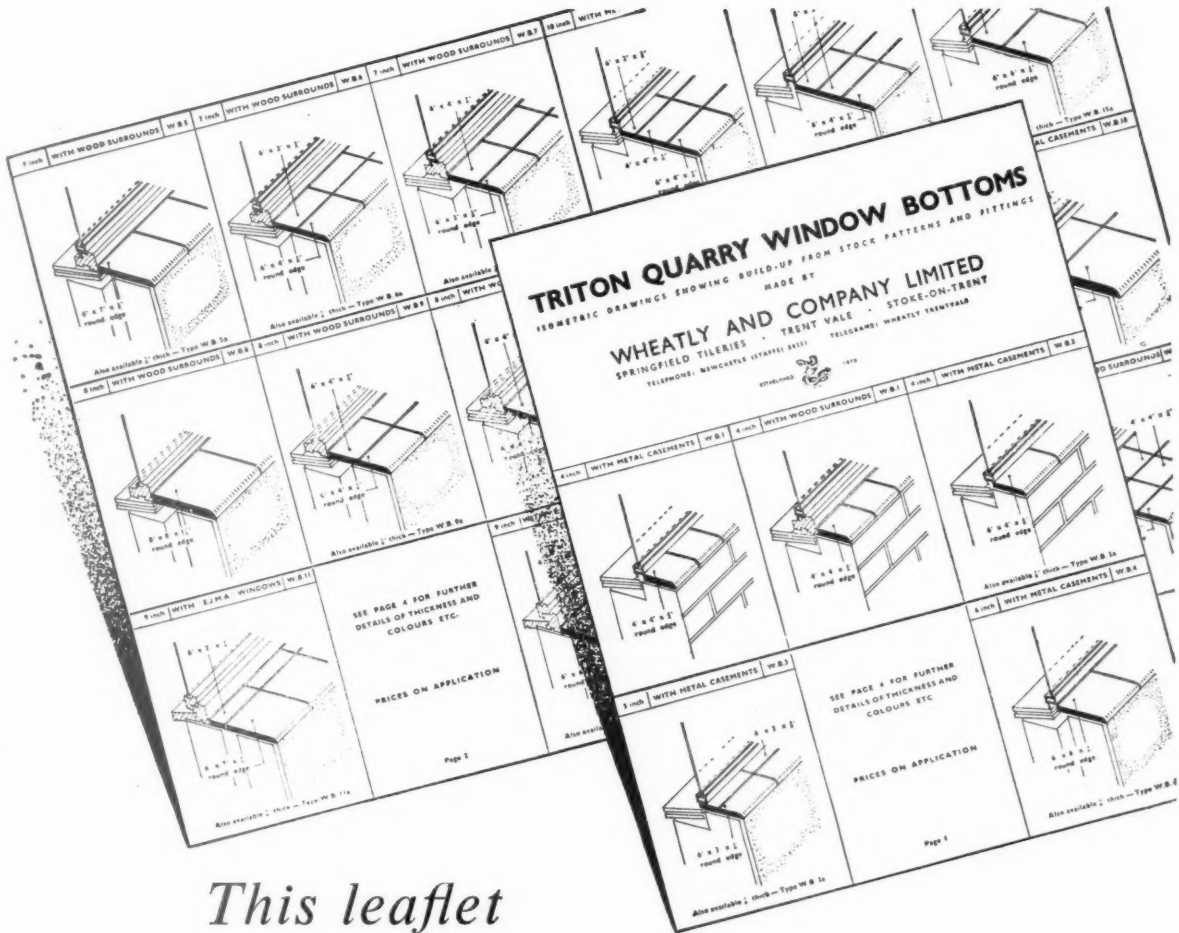


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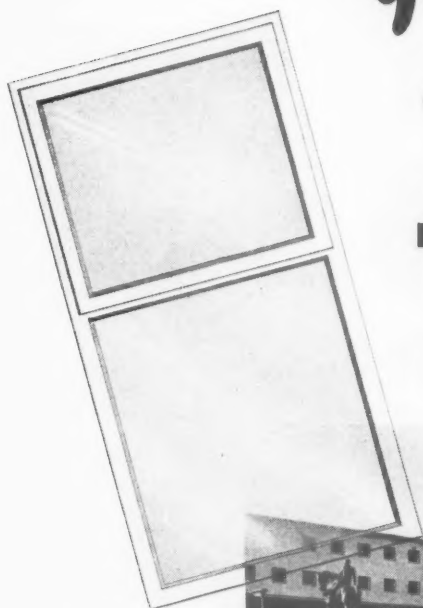
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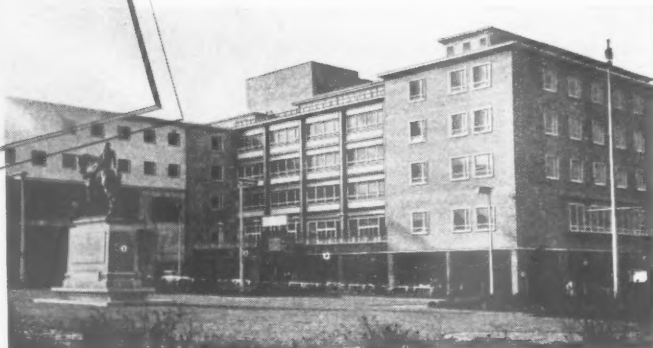
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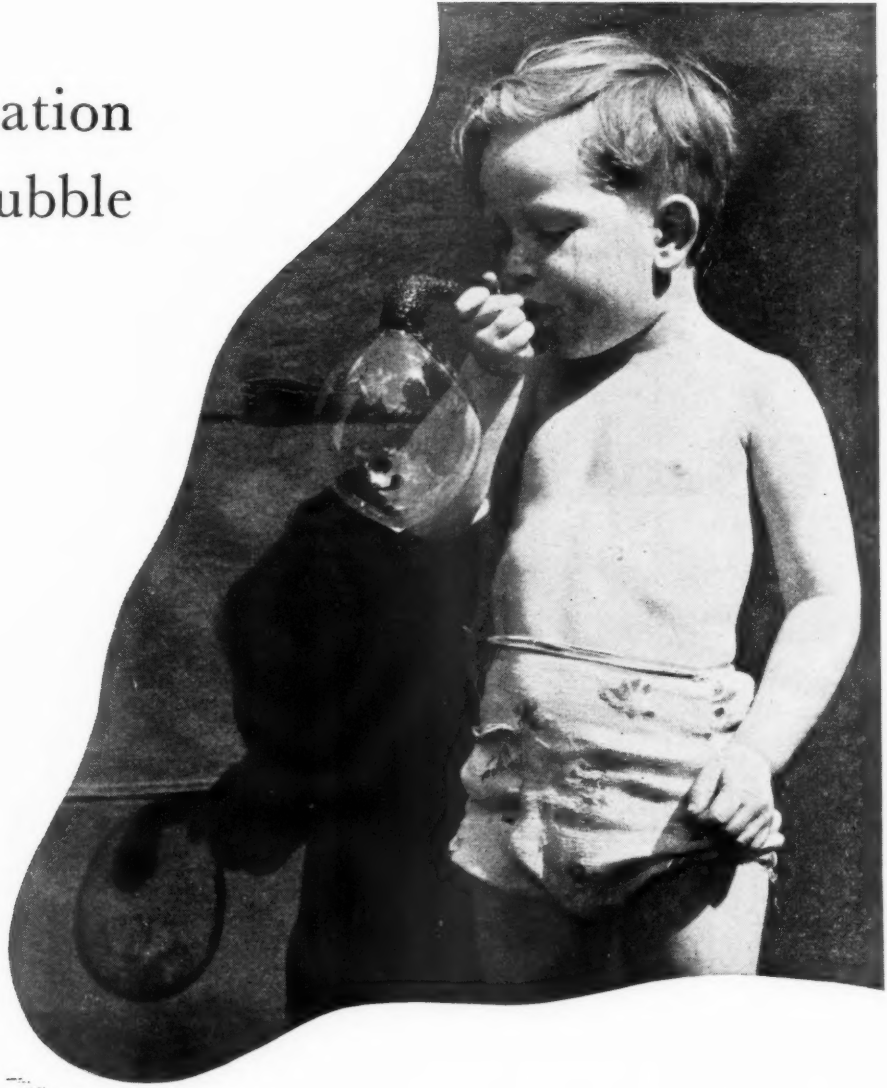
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ECONOMY OF BUILDING MATERIALS

Report by

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Director-General of Works,
Ministry of Works (Chairman)

SIR F. ARTHUR WHITAKER, K.C.B., M.Eng., M.I.C.E.
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MR. G. H. FRETWELL, C.B., M.I.C.E.
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Director of Fortifications and Works,
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LONDON : 1952

PUBLISHED FOR THE MINISTRY OF WORKS
BY HER MAJESTY'S STATIONERY OFFICE
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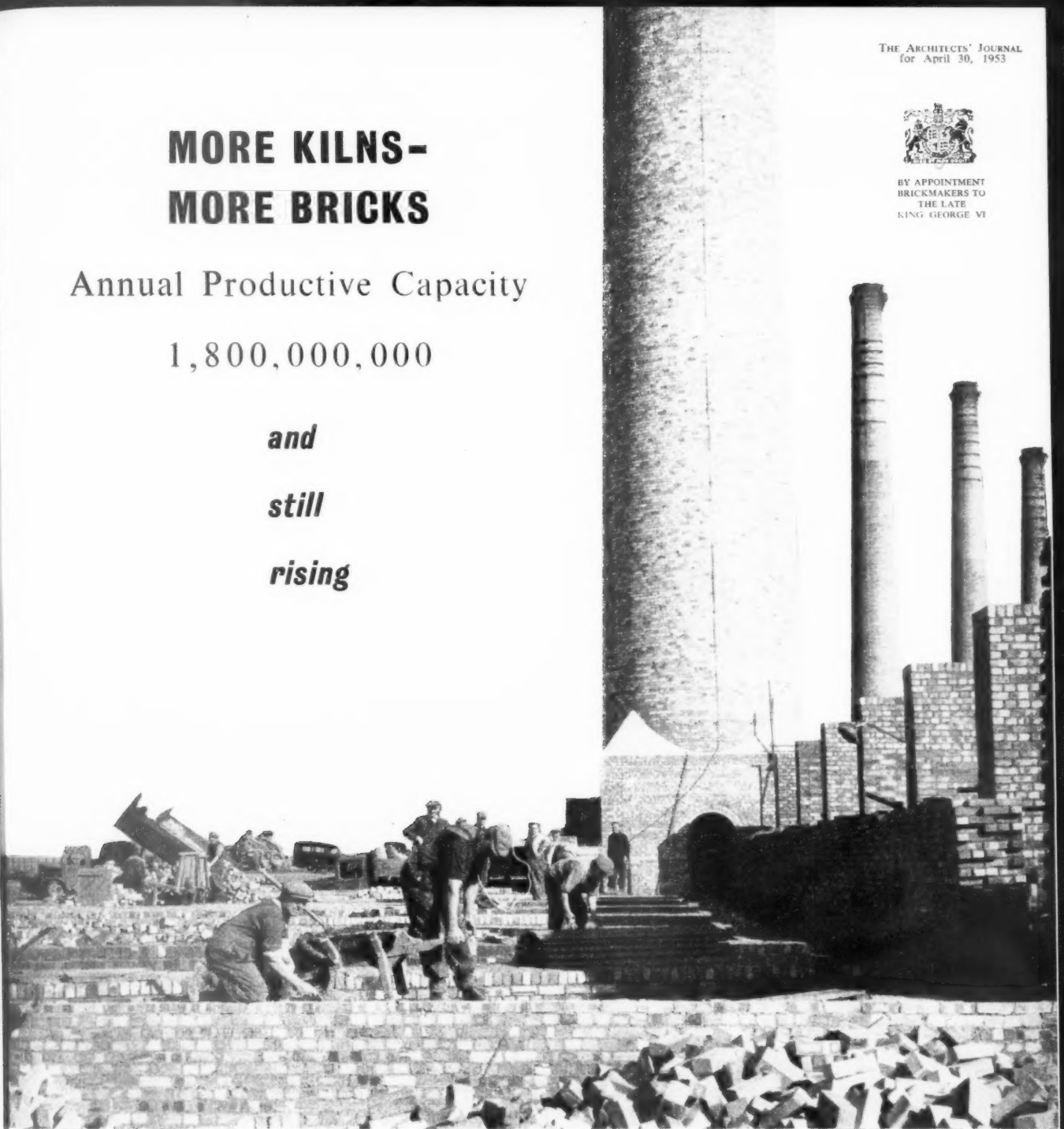
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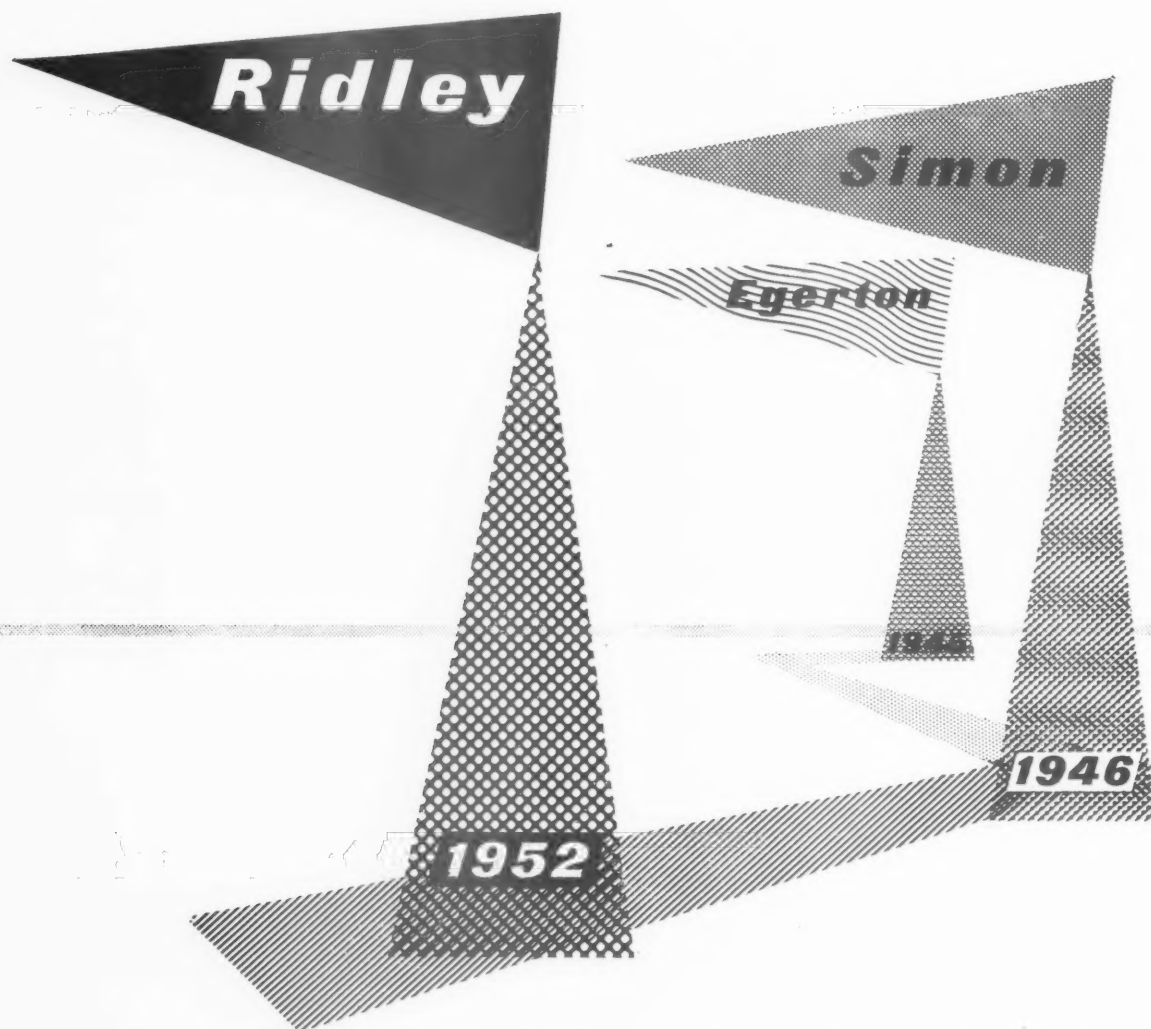
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Telephone: Bristol 23004/5. Northern District Office: Gascoigne Street, Boar Lane, Leeds, 1. Telephone: Leeds 20771. LBC 21





The "Egerton" Report published in 1945 set up new standards for the heating and ventilation of dwellings. The "Simon" Report, which followed in 1946, attempted to relate these standards to a Domestic Fuel Policy. The "Ridley" Report, recently published, emphasises the fact that fuel shortage is likely to continue for many years and is largely concerned with how to make available fuel resources go as far as possible.

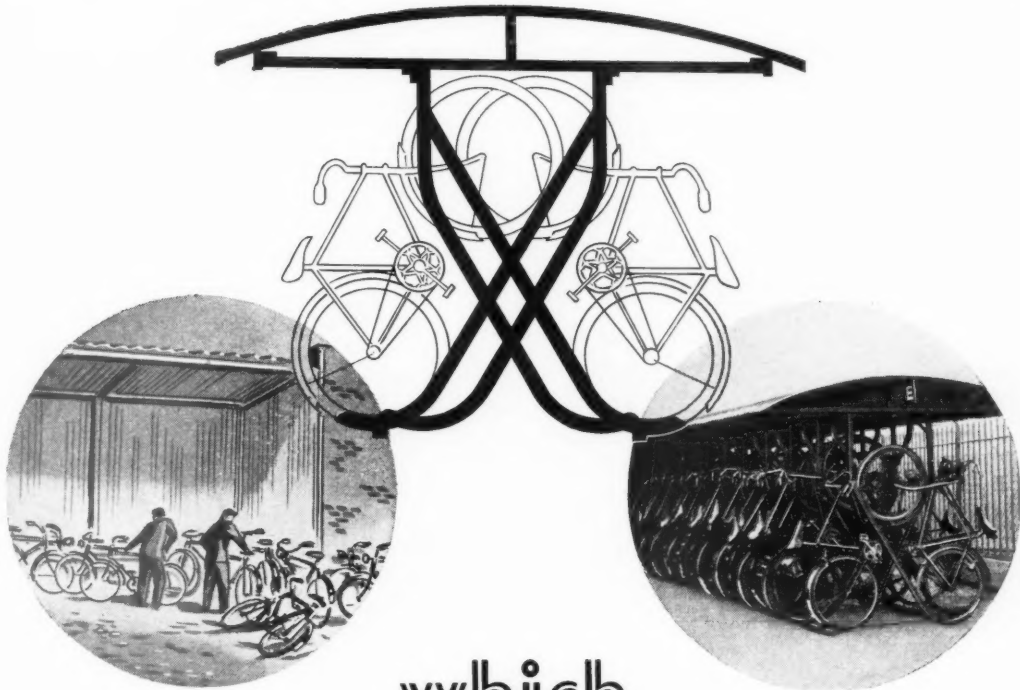
There appears to be a danger that the watering down of the recommended standards, which has occurred in practice because materials and appliances have not been available and capital expenditure has been restricted, may eventually lead to a general acceptance of lower standards. The Gas Industry has done, and is doing, what it can to make the full standards practicable by research aimed at developing gas and coke appliances of the highest possible efficiency and by a policy of full co-operation with all concerned with their design, manufacture and use. The wide knowledge of its technicians is freely available through the gas undertakings to assist those who wish not only to save coal but also to achieve improved standards of heating.

Where to go for information about Gas

If you are considering the use of Gas, however tentatively, your first move should be to get in touch with the Gas Undertaking serving the area in which the job is situated. Through it you have access to the combined technical resources of the entire Gas Industry. The following list gives the addresses and telephone numbers of the Area Boards. Where there is any uncertainty as to which Area Board is concerned, The Gas Council will be pleased to give you the correct address.

Scottish Gas Board: 26, Drumsheugh Gardens, Edinburgh, 3. *Edinburgh* 34331 5. *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* 32571/8. *East Midlands Gas Board:* Beverley House, University Road, Leicester. *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.

Issued by The Gas Council, 1 Grosvenor Place, London, S.W.1. Telephone: Sloane 4554.



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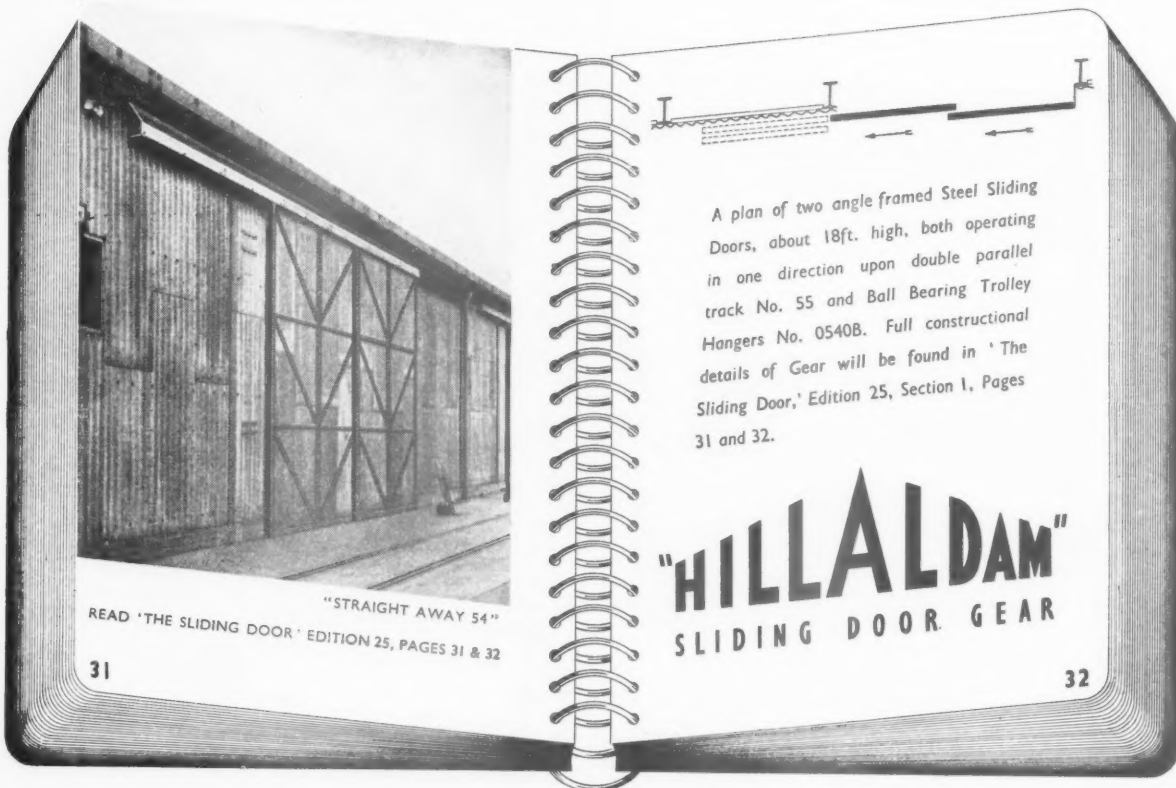
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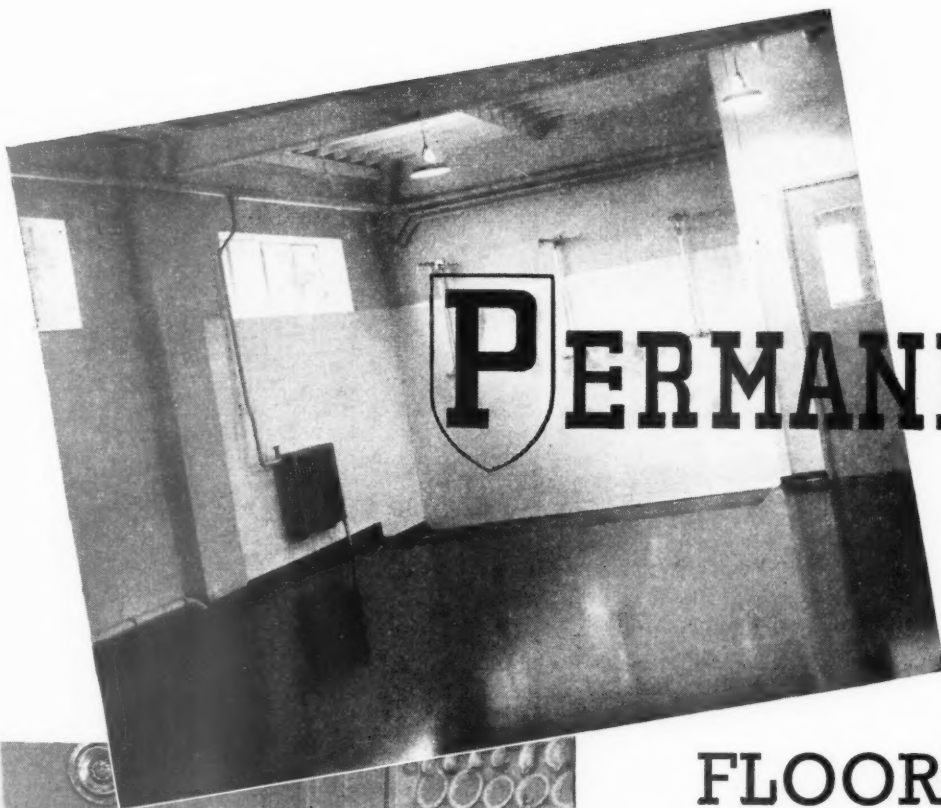
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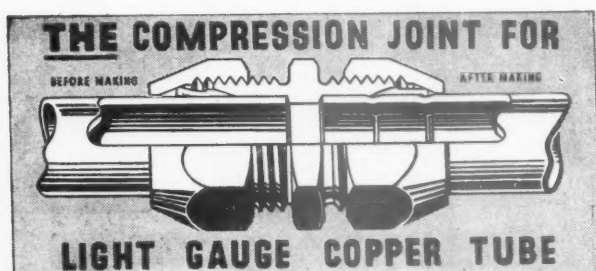
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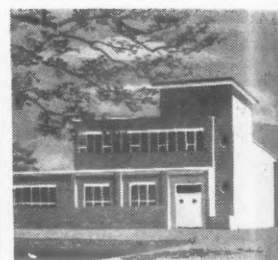
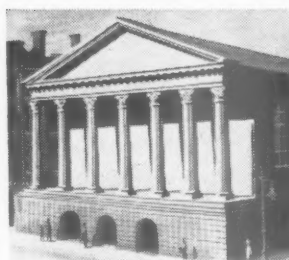
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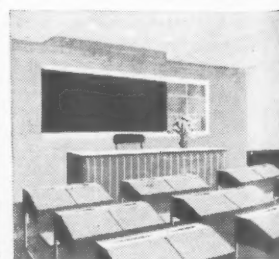
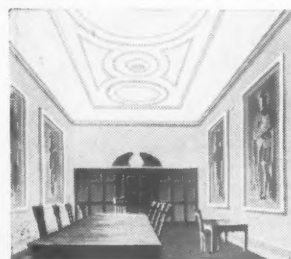
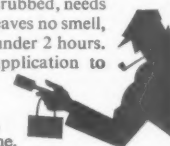
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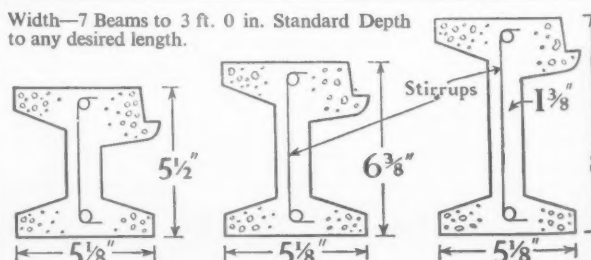
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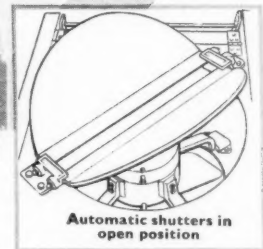
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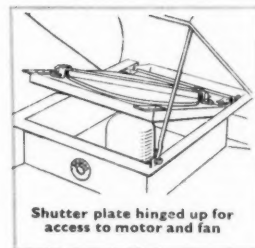
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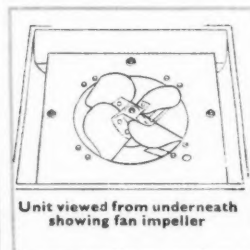
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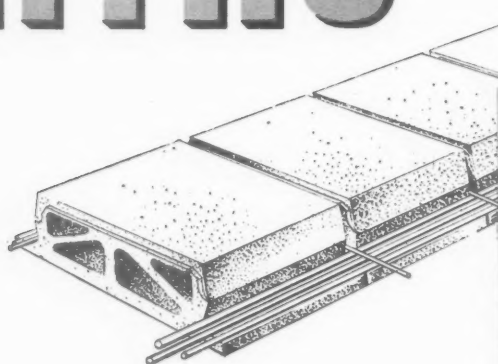


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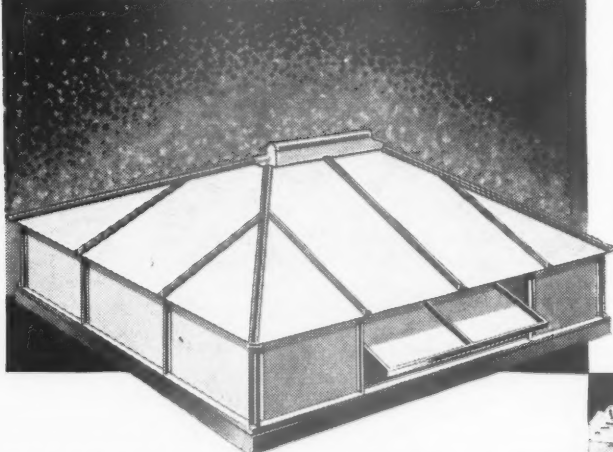


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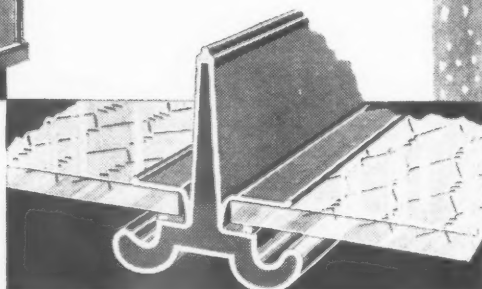
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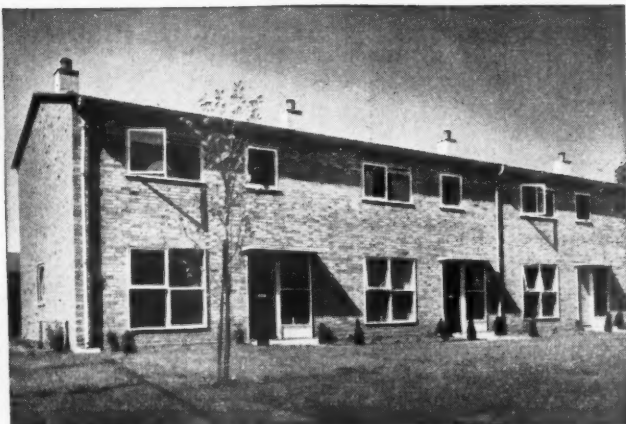
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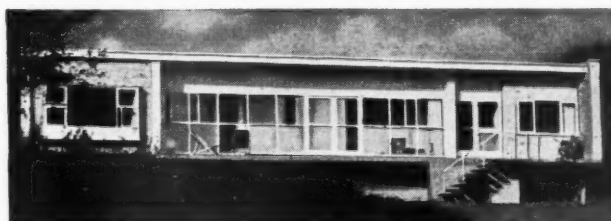
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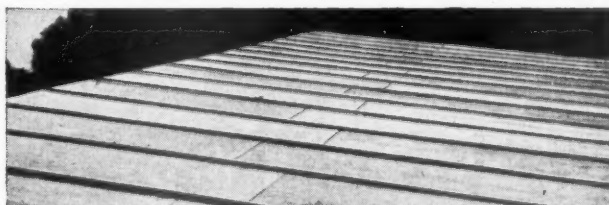
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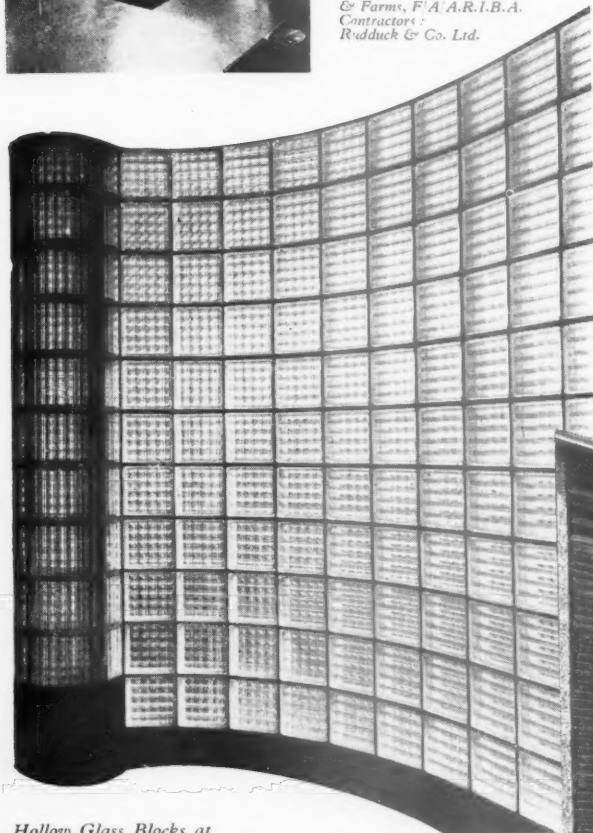
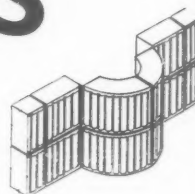
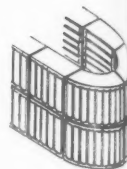
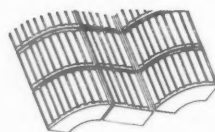


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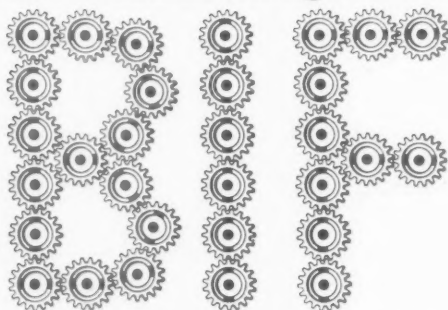
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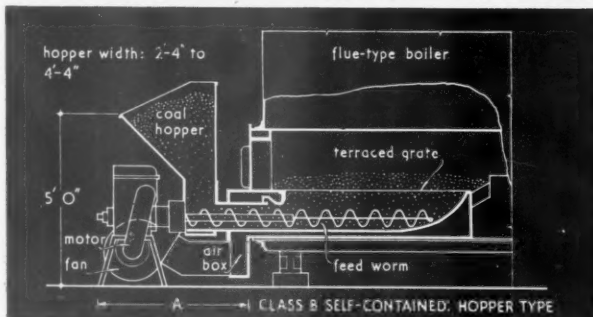
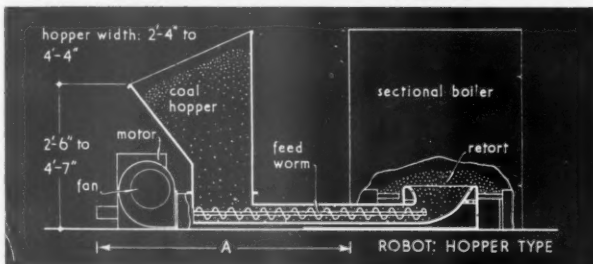
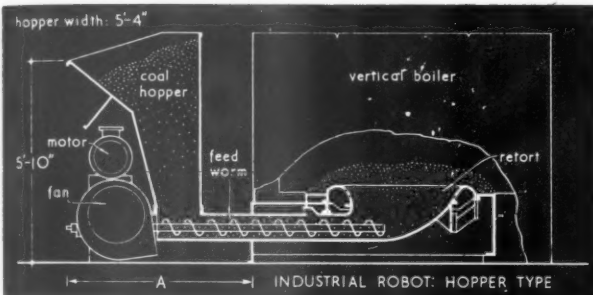
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B3	3,525,000	4'-6"
B5	5,075,000	4'-8"
B7	6,625,000	4'-8"
B9	9,350,000	5'-1"

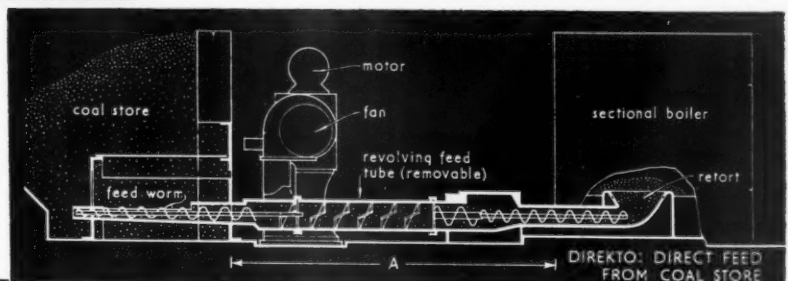
ROBOT		
model	boiler rating B. Th. U/hr.	A
BABY ROBOT	100,000	3'-3"
1	200,000	5'-0"
2	325,000	5'-0"
3	410,000	5'-4"
4	625,000	5'-8"
5	825,000	5'-11"
6	1,000,000	5'-11"
6A	1,200,000	5'-11"
7	1,400,000	6'-5"
8	2,000,000	6'-5"
9	2,700,000	6'-5"

DIREKTO			
model	boiler rating B. Th. U/hr.	A	
		b	c
1	200,000	6'-6½"	7'-1½"
2	325,000	6'-6½"	7'-1½"
3	410,000	6'-0½"	6'-7½"
4	625,000	6'-5"	7'-5"
5	825,000	7'-2½"	8'-5½"
6	1,000,000	7'-2½"	8'-5½"
6A	1,200,000	7'-3½"	9'-0½"
7	1,400,000	7'-3½"	9'-0½"
8	2,000,000	7'-0½"	8'-11½"
9	2,700,000	7'-6½"	9'-5½"

b = minimum
c = recommended minimum

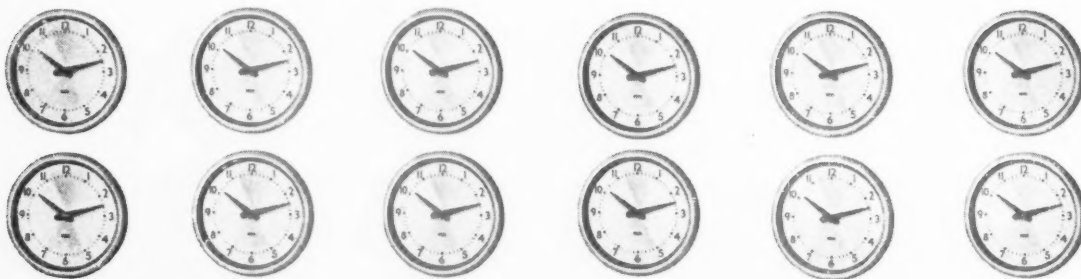
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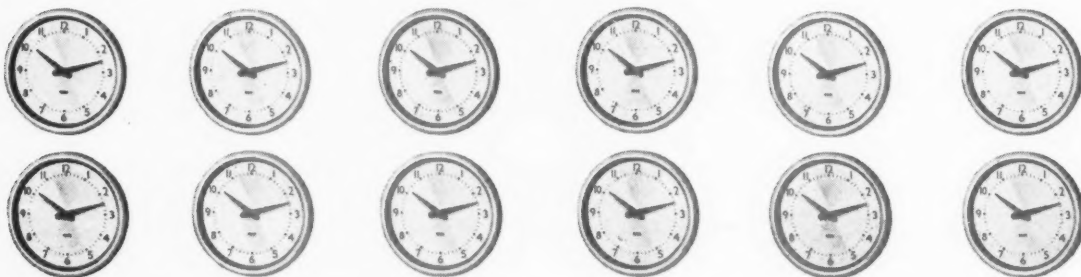


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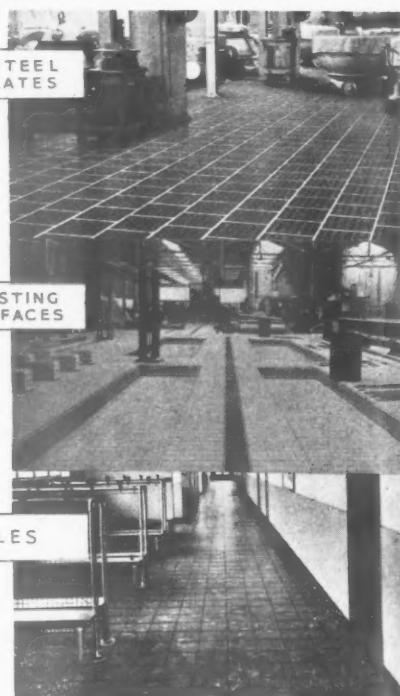
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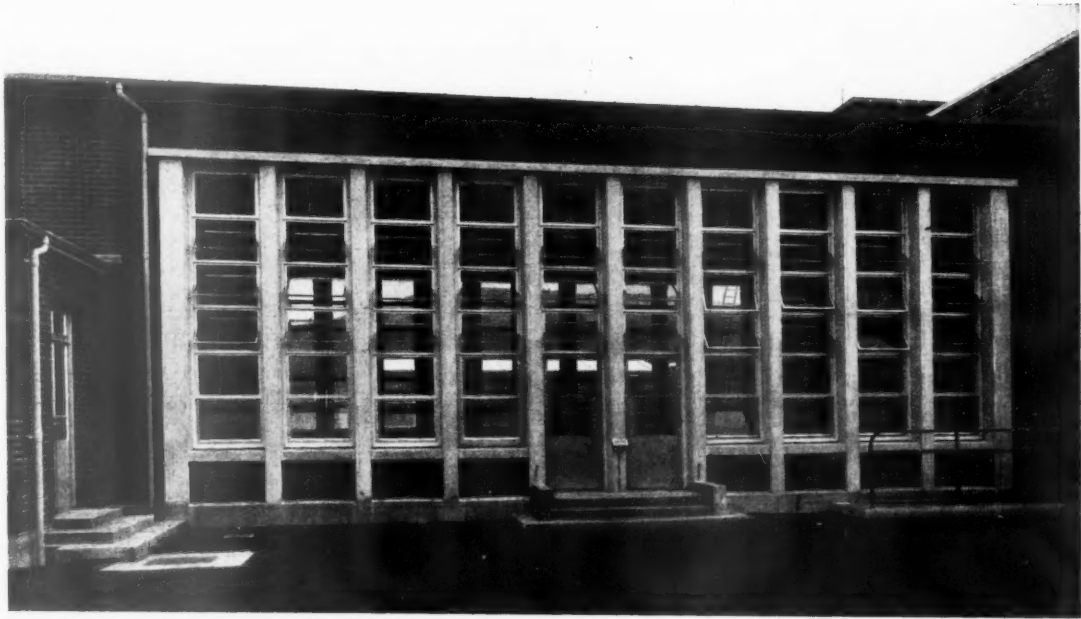
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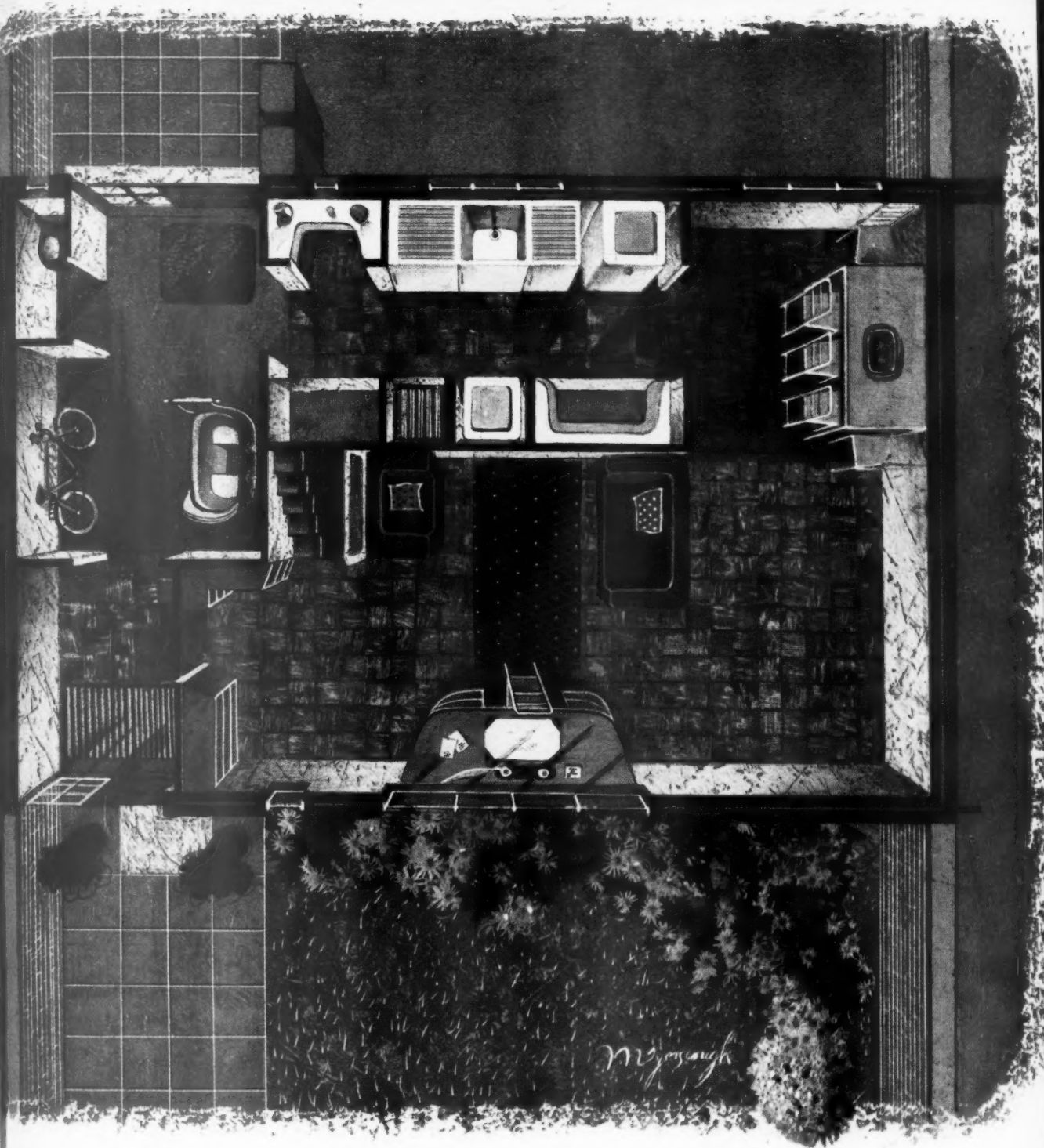
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No. 3035 April 30, 1953 VOL 117

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CULTURE AT WHITECHAPEL

Stung by Mr. Summerson's recent Sunday sermon in the *Observer* about the incomprehensibility of modern art generally, and modern architecture in particular, ASTRAGAL went to have another look at the cause of the trouble—the exhibition "Twentieth Century Form" at the Whitechapel Gallery.

*

This is a praiseworthy attempt to show the general public how architecture fits in with the other modern arts, but most unpraiseworthy for the muddle it gets into in trying to do so. One never thought to have to abuse an exhibition in this day and age for being

insufficiently didactic, but the untrained eye would never be able to follow the theme of this exhibition, though to the trained eye it is rather obvious and yawn-provoking.

*

Ignoring the theme and looking at it as an exhibition of works of art pure and simple, it is a marvellous show, full of things which normally one has little chance of seeing, but as an attempt to put across its theme it is a damp squib—for two main reasons. The first is fundamental—the formal vocabulary of the arts in this century is not an identifiable or separate thing. The nearest one could get to exhibiting it would be to have Reg Butler personally present working at the forge, Powell and Moya at the drawing-board, Ben Nicholson at the easel and so forth. It is an experience, a process, a body of rule-of-thumb practice which changes from minute to minute, and leaves behind it a number of typical objects (Professor Gideon would call them constituent) which somehow express the instant of their creation.

*

Had the exhibition consisted of such monuments to the stages of this development—Picasso's portrait of Kahnweiler, a steel-tube chair, a plan of the Villa Savoye, a reclining figure by Henry Moore, a Comet airliner, and so forth—arranged in chronological order and supported by a discreet text, the point might have gone over. As it is, some of these objects, or reasonable facsimiles thereof, are present, but their significance is lost by the absence of system in their presentation, and the presence of a number of objects which are not constituent, but merely happen

to have been fashionable at some time since 1900. And, incredible as it may seem, there are no industrial products at all, in spite of their vital rôle as exemplars and showpieces of the aesthetics of the age.

*

The second reason for the misfire has already been suggested—lack of system in the presentation. The Mondrian painting was a long way from the plan of the Bauhaus; there was no Purist painting by Corb to compare with the façade of the Maison Cook—but, so long as one can keep the proposed theme of this exhibition out of one's head one can enjoy it immensely, simply for the things in it, and you might do a lot worse than take a ticket to Aldgate East to see it.

CORB AGAIN

No sooner is the last word on Corb uttered than something crops up which makes further words necessary. The excitements of the Gold Medal and the stolen overcoat have barely died away when we are roused from our normal state of restful apathy by the ICA, who have always kept our apathy on the hop, with an exhibition of the master's non-architectural productions. These paintings, sculptures, drawings, collages, poems and tapestries are part of Corb which doesn't give rise to litigations and medals, but they are most impressive all the same, and ASTRAGAL cheerfully raises his battered *chapeau-melon* to the ICA for giving us a chance to see all this.

*

There is a bit of a hole in the middle of the exhibition, because a whole period of Corb's painting—1928-1948—is missing. But what is there



Photograph: "The Builder"

RADLEY HOUSE, GLOUCESTER PLACE, LONDON, W.1
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is fascinating—the early still lives in which a small *corps de ballet* of kitchen utensils shuffles around in ever-new patterns until they became unrecognizable; and those large recent oil paintings with their loud and exciting colours (Society of Mural Painters please copy) and their bold, confident outlines—not at all the sort of thing you see at the AA sketch club.

•

Some of these paintings seem to be signed by the Modulor as well as by the Master, and in one picture, reproduced on page 542, "Charlie," as the Modulor is known to its friends, has gained control completely. To be precise, this is not a painting but a collage of different coloured papers. And so are the sketches (which look too hastily assembled to last the exhibition) for his book of poems called *Le Poeme de l'Angle Droit*, which will appear shortly in one of those limited editions that are so limited that no one can ever afford them. How about a Penguin edition, M. Tériade?

•

Then there's that sculpture. Made of lumps of wood bolted, riveted and cramped together with a bold display of iron-work, it might make a good totem pole for a New Town. Come to think of it, this might well be a stray from the Tate Gallery, but whether from the Exhibition of Unknown Political Prisoners or from that of Mexican Art, it is difficult to judge. In case you were thinking of skipping this exhibition because there are so many others, let ASTRAGAL say just one more word—*don't*.

NEW READERS BEGIN HERE

A lot of my London readers will welcome the news that this year's RIBA conference is to be within easy reach. It has occurred to them, I hope, that for the membership fee of ten shillings (plus the fare to Canterbury or Folkestone) they can get most of the benefits from the conference without having to make themselves pleasant at tours and tea-parties.

•

Did some cynic say "What benefits?" If so, he has not been paying attention to this column, which has already announced the good news that the RIBA is going to try to make the conference more "productive" this year. As I have said before—and will positively



Next week, ASTRAGAL will comment on the Royal Academy Summer Exhibition, which opens today. In the meantime he has chosen one of the exhibits for his picture of the week—the proposed Coventry Cathedral's interior, showing recent amendments. The care taken by Basil Spence to improve on his competition—winning designs has already been the subject of admiring comments in these columns. ASTRAGAL wishes to record his continued admiration after seeing the latest improvements, described on page 549. The above picture shows the effect of placing the tapestry 45 ft. back from the altar.

not say many more times—there is to be a conference theme—"Schools." Papers to be circulated beforehand to members will be discussed at the Chapter House, Canterbury Cathedral, on Thursday,* June 11, at 10.15 a.m., and at the Lees Cliff Hall, Folkestone, on Friday,† June 12, at 10.30 a.m.

•

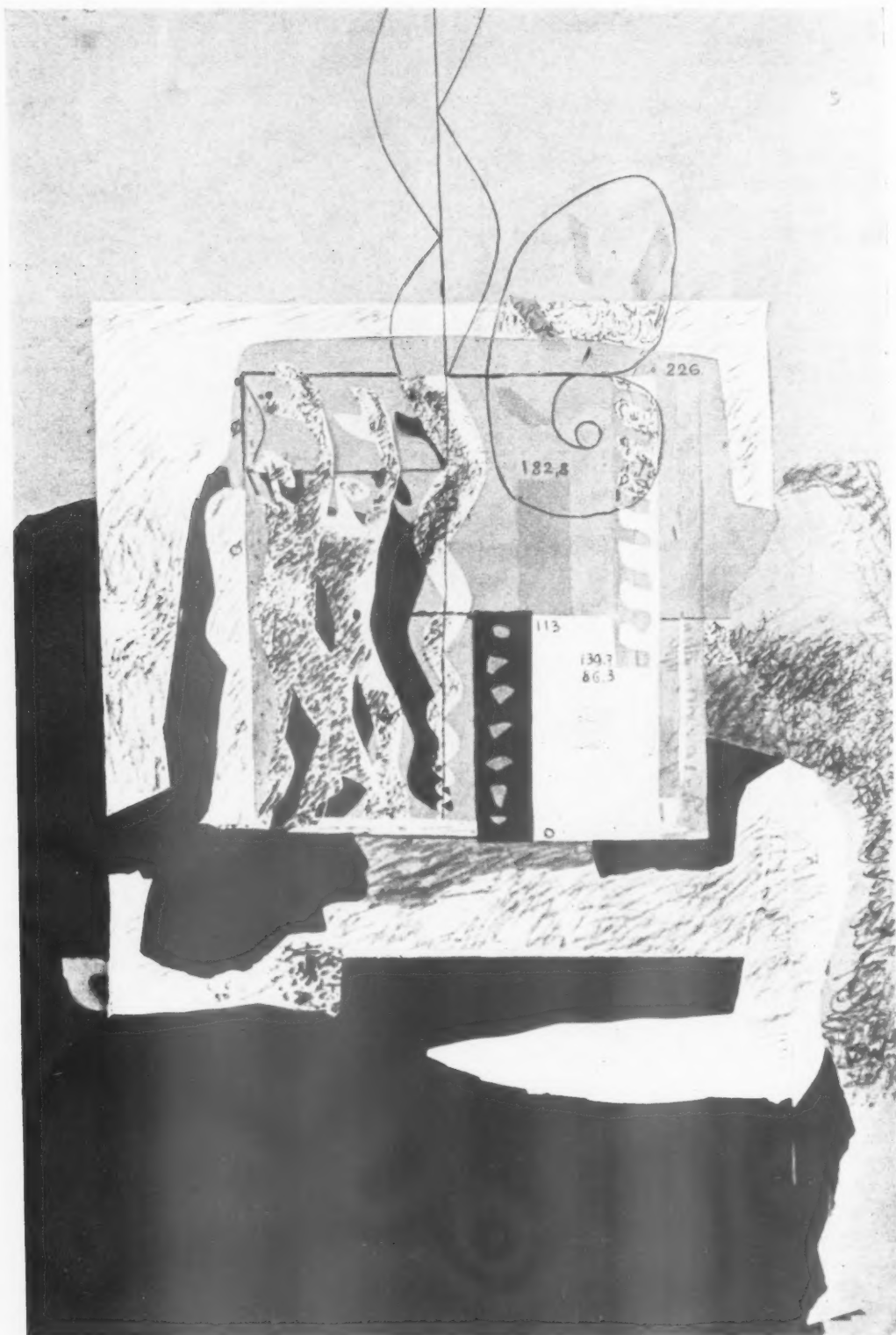
ASTRAGAL is told that these papers will touch on "wider issues" than the theme suggests: for example, how best to run a large public authority office; how to keep private practice alive; how to bring the designer closer to the job; how to improve the status of group leaders—and so on, not forgetting the question of fees and salaries, which one or two readers may be interested in.

As no reporters will be allowed at the second day's meeting, at which problems of public and private architects are to be discussed, the proceedings should be lively. But you won't know how lively they are if you don't go. And, in fact, they may not be lively if you're not there, as you will be the first—and probably the last—to agree. So do go along and speak your mind (it's quite safe—ASTRAGAL is wearing a reluctant muzzle for the occasion). The RIBA deserves help to make its rejuvenated annual conference a success. Its secretary, at 66, Portland Place, W.1, will be glad to hear from you before May 16.

CLIPPER PRESERVATION

Will a few—or a thousand—readers please spare some pence, shillings or pounds for the preservation of *Cutty Sark*, the *prima donna* of all clipper ships? It is proposed that she shall

* (1) Research and Development. The Work of the MOE. By S. A. Johnson-Marshall. (2) Recent School Buildings. By R. H. Sheppard.
† (1) How the Local Authority Works. By C. H. Aslin. (2) Collaboration between Official and Private Architects. By S. Loweth. (3) The Private Architect's Problem. By F. R. S. Yorke.



The Modulor

The Modulor is not merely a mathematical device for determining the size of building components; to its inventor it is a way of looking at the world, and to those who use it as a guide to the creation of objects of visual beauty it has a personality so strong that it has acquired the affectionate nick-name of "Charlie." Le Cor-

busier himself deems it worthy to have its portrait done in triplicate, above, and to use it as a kind of sign-manual on his recent paintings, six of which can be seen in the retrospective exhibition of his non-architectural work which is at the ICA until the middle of next month. ASTRAGAL's comments are on page 541.

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POINTS FROM THIS ISSUE

Coventry Cathedral: further amendments on view at Royal Academy	pages 541 and 549
Robert Matthew's farewell speech to LCC members	page 546
Sheffield University competition: detailed requirements ..	page 552

The Editors

ARCHITECTURAL SCHOOLS ATTACKED

A RECENT leading article in *The Builder* attacks schools of architecture for producing qualified architects "of very limited value to their architect employers." The obvious answer, of course, is that it is not the purpose of the schools to produce assistants, but to train architects. It is singularly disheartening to find an architectural weekly attacking schools on such grounds, when the profession is only now beginning to show the public the benefit of having school-trained men in senior positions in private offices, but more particularly in public offices.

Most architects who have qualified *via* office pupilage and external examinations frankly regret the fact that they were denied the opportunity of school training, and the fact that the vast majority of post-war buildings of merit are the work of school-trained architects is adequate proof that the schools have had a great beneficial effect on design standards. If there is a fault, it is that the schools of architecture should be expected to produce not only a supply of architects, but a supply of assistants as well. The McMorran Committee studying architectural education is working at a most opportune moment, because now more clearly than ever before can be seen certain trends within the profession on which it can advise the architectural educationist. Before the war, being an architect meant, generally speaking, being in private practice: a large one, if he was successful and business minded, or small if he was a dilettante, or if he put his art before his business efficiency. And, almost as an afterthought, there was the architect in public office—often virtually a nobody. Today, the public architect does as much, if not more, building than the private architect, and he has to handle that relatively new thing, a large and complicated building programme. (Robert Matthew had something to say about this last week, when he gave a farewell speech to members of the LCC [see page 546]).

The architect now may specialise in building techniques, or in services—lighting, heating and acoustics. Or he may be a "job-getter," an office organizer, a "design-co-ordinator" or a group leader. To train a man to have some understanding of such highly complicated and specialised pursuits is quite obviously a very different matter from producing an assistant who may be part office-boy, part draughtsman and part architectural detailer. And, even more obviously, it is

be placed in a dry berth near the Royal Naval College at Greenwich (the site already given by the LCC) and serve as the headquarters ship of the LCC Nautical School and the local Sea Cadet units. This idea seems far better than any sort of glass-case preservation, and the ship herself is as worthy as some of the buildings for which appeals are made. Donations should be sent to the *Cutty Sark* Preservation Fund, Westminster Palace Gardens, S.W.1.

And while we're on the subject of ships—my sympathy to the owners of the *Kronprins Frederick* for the loss of one of the first well designed and decorated ships to be built since the war ended.

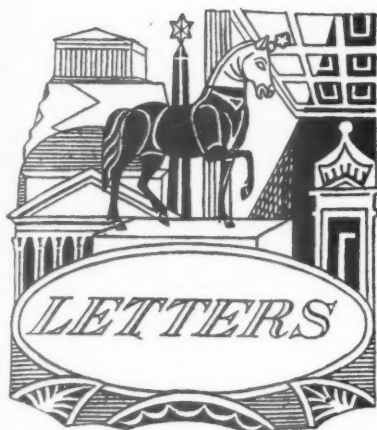
STAR SPANGLED

Long regretting the overshadowing of Mumford as architectural critic by Mumford the missionary, ASTRAGAL is doubly pleased with the anthology* compiled and edited so excellently by Mumford, and containing some of his own best writings. While to me Mumford has always seemed to lack an instinctive talent for personal visual perceptivity, he has always shown a genius for selecting and bringing together the really significant observations of others, and in this book he has used this to the full. Surely nobody could have made a more fair and more discriminating choice of essays than he has made from the vast quantities of books, lectures and articles on the subject.

Many of them, such as F. L. Wright's memorable lecture of 1901 on *the Arts and Crafts of the Machine* and Dankmar Adler's lecture on *The Implications of Glass and Steel* to the 1896 AIA convention, have not been available here before. Many books, like Schuyler's *American Architecture* and Sullivan's almost unreadable *Autobiography of an Idea*, have long needed pruning. Mumford has brought all these rough diamonds together, cut and polished them and produced a star spangled anthology. This book is pretty strong meat—there are nearly forty long essays—and those who read it cannot expect to take it all at one sitting without suffering from severe indigestion.

ASTRAGAL.

* *Roots of Contemporary American Architecture.* Lewis Mumford. A series of Thirty-seven Essays. (Reinhold Publishing Corporation, U.S.A. \$7.00.)



V. G. Killeen

R. P. Shannon, A.R.I.B.A.

R. Coppock, General Secretary, NFBTO

J. R. W. Murland, B.Sc.,
M.I.C.E., A.M.I.Mech.E.

A. J. Gordon, A.R.I.B.A.
(T. Alwyn Lloyd and Gordon)

Architectural Training

SIR.—The real value of practical experience is, in part, a question of relations between architect and client, and, in part, of mundane matters such as conforming to by-laws, planning and site restrictions, availability of materials, and costs both in the project and the office.

The day school student, while aware of these factors, cannot fully appreciate their force until he has run the full course of a job in which these conditions apply. However much research and study he may put in, this cannot give him the knowledge of how to apply the fruits of his study to the realities of any specific situation.

Every architectural problem has many answers, but the one answer a practising architect can rarely adopt is that which makes an approach on the basis of an exercise in pure design and construction. He has to have his finger on the pulse of his clients' whims, take into account not only the demands of his client, but of all the other interests and authorities involved, and produce a good design within the framework of these limitations.

Employers are not necessarily distrustful of ideas or of brilliance, but they know that ideas need to be tempered by experience. The practising architect however high his head is in the clouds must have his feet planted firmly on the ground. All too often the student just from day school has both his head and his heels in the air.

Surrey.

V. G. KILLEEN

SIR.—I do not propose to join issue with your correspondents who have so kindly read and commented upon my letter (March 19). My gratitude is yours, however, if I may correct one matter and answer a question. I am not a student; I became an associate in 1937 and can hardly claim the enthusiasm your suffix might lead your readers to imagine I possess.

Secondly, Mr. Sharp (April 2) asks a question and I will attempt an answer.

Thousands of budding practitioners are training in office and school from 9 a.m. till 9.30 p.m. and receiving a balanced diet of learning—not one solely comprising the *vol-au-vents* of whole time design tutors, and the general fancy *soufflés* of schooldom. Encouragement from the RIBA for these students would show recognition of the limitations attendant upon whole-time school training. Such recognition would also place the full-time tutor in his rightful niche and not burden him with an authority he cannot fully sustain.

Moreover, with an alteration in the status of day schools, the RIBA, as an examining body, will be delivered from the thrall of schoolmasters, who are no more architects than the pupils they teach.

When architects are trained for contact with clients, officials, builders and, what is most important, foremen, as well as contact with design as a paper subject, we shall receive the high regard of the public to which our profession entitles us.

R. P. SHANNON.

Surrey.

Have Operatives Nothing to do with Industry?

SIR.—I am very glad to note your editorial comment (March 27) on the composition of the committee convened by the RIBA to study contracting methods.

As you rightly point out, no one thinks of inviting the operatives to serve on such committees, from which the reasonable conclusion may be drawn that building operatives have nothing to do with the building industry!

R. COPPOCK.

London.

Floor Heating

SIR.—The article on domestic floor heating in your issue for February 19, 1953, has just been brought to my attention.

As I was responsible for the design of the installation described on pages 256-257, I am rather concerned at being described on page 256 as the "heating engineer." In Northern Ireland this description is taken as referring to contractors, and I would appreciate it very much if you could make it clear that I am a consulting engineer.

It may be of some interest that I was responsible for the engineering services in an all-electric house of single storey traditional construction at about the same time as the one described in your journal. In this case also floor heating was employed, using soil heating cables drawn into aluminium ducts embedded in the floor screed. The heating is controlled by ordinary room thermostats, a method which I do not consider completely satisfactory for radiant heating installations with a long time lag, but in the event the installation has proved most satisfactory and although the running costs are higher than

would be obtained with a comparable solid fuel installation my client is extremely satisfied. From my own experience of visiting this house I would like to instal a similar heating system in any house which I was building for myself.

J. R. W. MURLAND.

Belfast.

Gas Board Architecture

SIR.—We were interested to see ASTRAGAL'S reference, some time ago, to the standard of buildings now being erected for the Gas Industry.

On its formation in 1949, we were appointed Consulting Architects to the Wales Gas Board, and have prepared for them designs for new constructional work, including showroom premises, grid governor houses, dwelling houses and even a travelling showroom. Some time ago we were brought in at an early stage for a new water-gas plant, and other buildings at Aberavon, and in addition to giving guidance on the general layout of the new works, we have now prepared the designs (see elevation below) for the first major building which is to be erected.

When we were brought in, a contract had been let for the main gas producing plant, but not for the coal handling plant or the boilers. We have, therefore, within the restrictions of the standard arrangements for the gas manufacturers plant, had an opportunity to decide the form of the building.

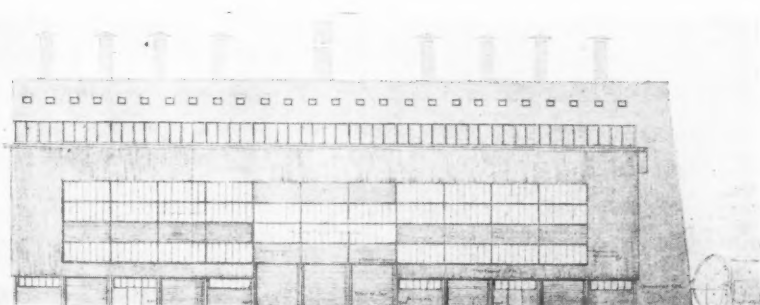
Whatever prejudice there may have been in the Gas Industry to the employment of architects, the Wales Gas Board's enlightenment has enabled an approach to the design of this building, which is perhaps unique in the industry. There was initial doubt regarding the appointment of an architect on a scheme which was predominantly industrial, for it was believed that the Board would be involved in additional expense, but when we advocated a sheeted building in preference to heavy construction in brick, and were able to say that we would, in fact, reduce costs, this doubt was overcome. (We feel confident that in future, the Board will now be prepared to employ architects on such schemes without the necessity of such an economic justification, for they are becoming more and more aware that the architect can make a contribution while working closely with the engineers.)

On this particular scheme, in conjunction with the engineers of the board and the structural engineer, we have carried on direct consultation with the three plant manufacturers who, although unused to such a procedure, have been extremely co-operative.

The drawings were submitted to the Royal Fine Arts Commission and met with their approval without modification. Piling is in hand and a contract will shortly be let for the steel frame of the building.

A. J. GORDON.

Cardiff.



Elevation of gas manufacturing plant proposed for Aberavon. See letter on "Gas Board Architecture."



LCC

Robert Matthew's Departure

Robert Matthew, who has now left his position as architect to the LCC to take up a new appointment as principal of the School of Architecture, Edinburgh College of Art, gave his reasons for leaving "a position of great responsibility and of unlimited and unrivalled architectural opportunity" in his leaving-taking speech at a LCC council meeting last week.

"No one," he said, "will be more aware than the members of this council of the spectacular change in the last few years in the patronage of the arts, and in particular the art of architecture. Today in this country about half of the whole profession of architecture is engaged on work promoted by some form of public authority or another and very many of these architects are directly employed by public authorities, the greatest of these being the LCC itself. It is very clear to me that the student generation now training in the schools of architecture will, to a very great extent, find themselves faced with situations quite different, completely different, from those of the normal pre-war job. It is also very clear from my own experience and that of very many architects in public positions similar to mine that there is, in fact, comparatively little contact between the schools today, up and down the country, and the conditions and the problems associated with that public work. So it seemed to me that, at some stage, it would be right that the experience which I have gained, not only in local government but in central government as well, should be handed on to the younger generation, and that that decision should not be delayed too long to be effective. As you may appreciate, that decision was not a very easy one to make, but the timing was not entirely in my own hands. There are few chairs of architecture in this country and, indeed, there are few cities outside London in which I should very much care to work. I will have very many regrets in leaving London, but I must say I was fortified in taking that decision by the confident expectation, which proved correct, that the Council would appoint as my successor, Dr. Martin. I could not have had a more inspiring deputy, with whom I have worked for nearly five years, and, if I may say so, the Council could not have appointed a finer architect.

Thanking the Council for the trust which they had placed in his judgment as an architect, Mr. Matthew said: "There has never been in my experience the slightest occasion on which members in the committees of this

council have sought to influence my professional judgment, and that, I think, is a complete answer to the fear which is often expressed from the point of view of artistic integrity of the widening influence of the public authority. My view is that the work of an authority such as the LCC is giving and—by the very reason of its steady programmes of building in many spheres—will continue to give architectural opportunities quite impossible under other conditions, and I am grateful that I have been permitted to take some small part in that work. If I have done something in return to make my department not only an efficient machine, that is something, but it is not enough, but if I have been able to make it a place where architects of all kinds and of all ages would wish to come and work, then I feel I may have done something that may be of lasting benefit, through this Council, to the people of London."

Mr. Matthew summarized his seven years of service with the LCC as follows:—"I have attempted, if I can put this very broadly, to do three things: First of all, by organization and method to enable my department to tackle the very great programmes of new building work which affected many committees of this Council. Secondly, and this was possibly more difficult because a more intangible thing to do, I wished to set a general architectural standard for all the work of the Council that would in time become recognized not only here but abroad as in line with, if not slightly ahead of, the very best work done either here or anywhere else.

"My third point is in the field of town planning, and here it was my responsibility to effect a change from—how shall I put it?—the relatively undefined scope and sweep of the imaginative County of London Plan, to the harder realities of the Development Plan of 1951, and I would just like to say one point about that. I know that there will be, once the Development Plan is approved by the Minister, or indeed when the public inquiry which has been going on for many months now comes to an end, a very great pressure, in the interests of economy, to reduce town planning effort. There may even be an idea among some members that once the Development Plan is done there is little to be done in the future but a routine infilling into the Plan. This is very far from the case, and I would plead with this Council not to relax their efforts on town planning. I am sure that if that is done not only will the very considerable work which has gone into the Development Plan be lost, but I feel that the whole future of the London Plan would be in jeopardy."

BIF

Organizers' Adviser is an Architect

An architect, Neville Conder, acted as adviser on decor to the organizers of this year's BIF, open at Olympia, Earls Court and Castle Bromwich until May 8. He also advised them on the design of the standard type of stand, used by many exhibitors.

Of particular interest to architects this year is the large range of prefabricated structures, mostly on view at Earls Court (although one firm has its exhibits at Castle Bromwich), including a new version of the "Punt" roof system, designed to eliminate the steel framing of some prefabricated schools.

At least 2 firms are exhibiting room air-conditioning apparatus (widely used in the hotter parts of the Commonwealth)—one machine, on view both at Earls Court and Castle Bromwich, being the first all-British one with a sealed compressor unit.

Heating appliances, electrical equipment, sanitary appliances and contractors' plant are on show at Castle Bromwich, together

with the general building section. There are few new items in any of these sections, but an important exhibit is that of pitch fibre drainage pipes. Much has already been heard of their use abroad; now they are being made in Great Britain.

At Earls Court, in addition to the prefabricated buildings' section, architects will also find the furniture and caravans sections of interest.

There are a number of well-designed stands at the Fair, particularly those of the manufacturers of prefabricated buildings and of official bodies. Of the latter, the stand of the Port of London Authority (Castle Bromwich) is a good example.

BATC

New Chairman

Sir George Gater, chairman of the BATC since 1947, has tendered his resignation to the MOW.

The Minister has appointed Sir Frederick Leggett, K.B.E., C.B., in his place.

CCA

Freyssinet to be Honoured

The honorary degree of Doctor of Science is being conferred on the French engineer, Monsieur Eugène Freyssinet, by the University of Leeds on May 14.

To mark the occasion a special dinner has been arranged by the Prestressed Concrete Development Group in the university refectory on the evening of May 14. All those interested in attending this dinner should get in touch with the secretary of the Prestressed Concrete Development Group, CCA, 52, Grosvenor Gardens, S.W.1.

DIARY

Competitive Tendering Is Not Necessarily Conducive to Economic Building. Debate at Talbot Restaurant, London Wall, E.C.2. (Sponsor: RICS Junior Organization, Quantity Surveyors' Committee.) 7.40 p.m. APRIL 30

Mural Paintings Exhibition. At the RIBA, 66, Portland Place, W.1. Weekdays, 10 a.m. to 7 p.m.; Saturday, until 5 p.m.

UNTIL MAY 2

Spanish Baroque Architecture. R. C. Taylor. At the Courtauld Institute of Art, 20, Portman Square, W.1. 5.30 p.m.

MAY 5

RIBA Annual General Meeting. At the RIBA, 66, Portland Place, W.1. 6 p.m.

MAY 5

Scandinavia, Switzerland, England and Scotland. Colour slides. David Medd. At the AA, 34-36, Bedford Square, W.C.1. 6 p.m.

MAY 6

British Industries Fair. At Olympia, Earls Court, in London, and Castle Bromwich, Birmingham. 9.30 a.m. to 6 p.m. Public admitted 2 p.m. to 6 p.m. and all day Saturday.

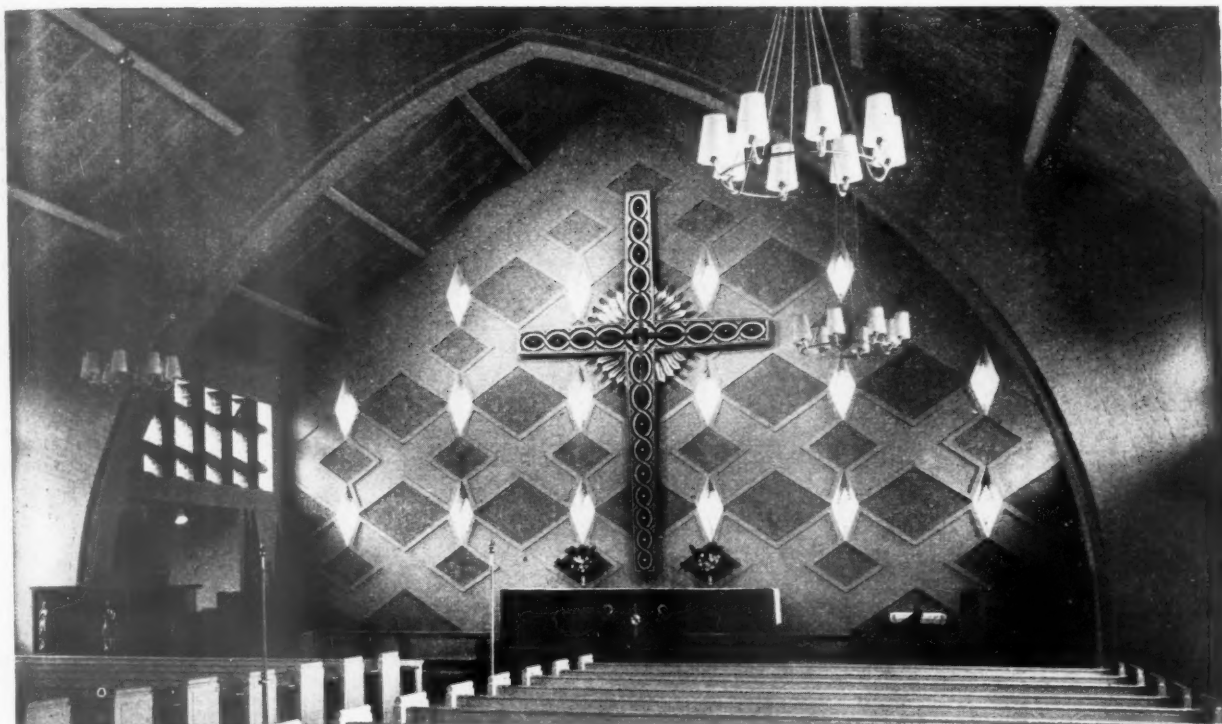
UNTIL MAY 8

Danish Housing Exhibition. At the BC, 26, Store Street, W.C.1. Weekdays 9.30 a.m. to 5 p.m.; Saturdays until 1 p.m.

UNTIL MAY 9

Paintings, Drawings, Sculpture and Tapestry, 1918-1953. By Le Corbusier. At the ICA Gallery, 17-18, Dover Street, W.1. Daily, 11 a.m. to 6 p.m.; Sundays, 2 p.m. to 6 p.m.

UNTIL MAY 17



BUILDINGS IN THE NEWS

Church at Stratford

Above, the parish church of St. Paul, Stratford, replaces a previous church on the same site, which was bombed. It was designed by D. R. Humphreys and R. W. Hurst. There are seats for 350, including the choir. The cost of the church was £17,500.



Flats at Hampstead

Left, one of the three blocks of flats in West End Lane, N.W.6, designed by E. B. Glenfield. There are 80 flats, 380 sq. ft. to 745 sq. ft. in area. The planned density is 99 persons per acre. Estimated cost, £191,500.



School at Hastings

The first post-war secondary school to be completed in Hastings (above) was opened at Ore last week. This three-form entry modern school for girls was designed by S. Ripley under the borough engineer, E. O. Baxter. Accommodation is provided for 360 pupils (140 sq. ft. per place). The site covers seventeen acres.



Flats at Birmingham

Above, the first of six 6-storey blocks of flats of no-fines construction, at Marston Green, Birmingham, which is to be opened on May 5. These blocks were designed by the Birmingham Corporation (city engineer and surveyor, H. J. Manzoni; city architect, A. G. Sheppard Fidler; housing architect, D. H. Davies) and built by Wimpey & Co. Ltd. It is the first time that no-fines construction has been carried to a height of six storeys and the first time that a reinforced dense concrete frame has been used in conjunction with no-fines infill panels. Flats are either 750 sq. ft. or 500 sq. ft. in area.



Above and left, views of Broadgate House, a new block of shops and offices in the south-west corner of Broadgate, Coventry, which is to be opened this Saturday. It was designed by the city architect, D. E. E. Gibson and his deputy, F. B. Pooley; the chief assistant architect was R. Ash. This six-storey block is being let on long-term leases to tenants whose premises were completely destroyed by bombing during the war. The six-storey block consists of one- and two-floor shops, restaurants and four floors of offices. Above, a view from the north-west; left, a view from the south, through the bridge, into Broadgate. This building was fully described in the JOURNAL of August 24, 1950, page 184.

RICS

"Call in Q.S. Early," says Richard Sheppard

In the paper, entitled "Quantities and Qualities," which he gave at the RICS recently, Richard Sheppard described the three principal changes in the structure of the building industry by which, he considered, sooner or later, surveyors and architects would find their positions affected. Firstly, the decline of traditional techniques: "As factory production of building components increases, and as manufacturing rings and the BSI settle quality and finish, so these items leave [the quantity surveyor's] control and become P.C.'s in the bill; real cost, as distinct from price, becomes a mere matter of speculation."

Secondly, the increase in the sub-letting of work to specialist firms and sub-contractors: A few large firms dominated the plastering, precast concrete, painting and glazing trades. These firms, for all we knew, might make 100 per cent. profit, if there were no competitors to undercut them and no means of checking their costs. *The RIBA contract*

was not very effective in dealing with this. Surely, said Mr. Sheppard, if some system of a breakdown of costs were made a condition of the contract, it would at least be of use in measuring variations.

Thirdly, the development of off-site construction: Most architects were interested in standardized factory-made buildings, and felt a good deal of impatience with the traditional industry. They were anxious to exploit the aesthetics of standardization. But the present form of contractual documents reflected the fact that the architect sought different qualities in prefabricated building than in traditional forms, nor could orthodox methods of costing be adapted to unorthodox methods of construction.

Mr. Sheppard stressed that the quantity surveyor should be "in on the job" from the first meeting with the building owner, so that he could appreciate "the whole strategy of the building." It was important that he should understand from the outset what the building owner and the architect regarded as important. He should know whether durability and quality of workmanship were paramount or—as was more likely—whether speed and economy were the most essential factors.

Some of the functions of the quantity surveyor should be enlarged so that he took a more positive part in design and cost. Today, the quantity surveyor often came into the architect's office too late to be of any use except in producing a bill of quantities. But what was needed was close and continuous co-operation between architect and quantity surveyor at the sketch plan stage. It was not enough if the quantity surveyor just worked out an estimate per cube or per foot super, multiplied the cube and yardage and told the architect to knock off a few thousand feet. He should understand what the building was about and what the architect wanted to get out of it. He should be able to supply information on comparative costs and he should have suffi-

cient knowledge of the characteristics of the type of building under consideration to give spot generalisations.

Mr. Sheppard said that he would like to see more attention given to the publication and annotation of costs in the technical journals [unfortunately architects, or their clients, are often reluctant to give costs—Ed.]—analysis of costs should always accompany the criticism of a building. The information which quantity surveyors gained in preparing their bills of quantity should be made freely available. It would be useful not only to the architect in practice but to the student as well, for the complaint was often made that the architectural schools were out of touch with external conditions and there was no more difficult subject for the student to obtain information on.

HOUSING

A Policy Statement

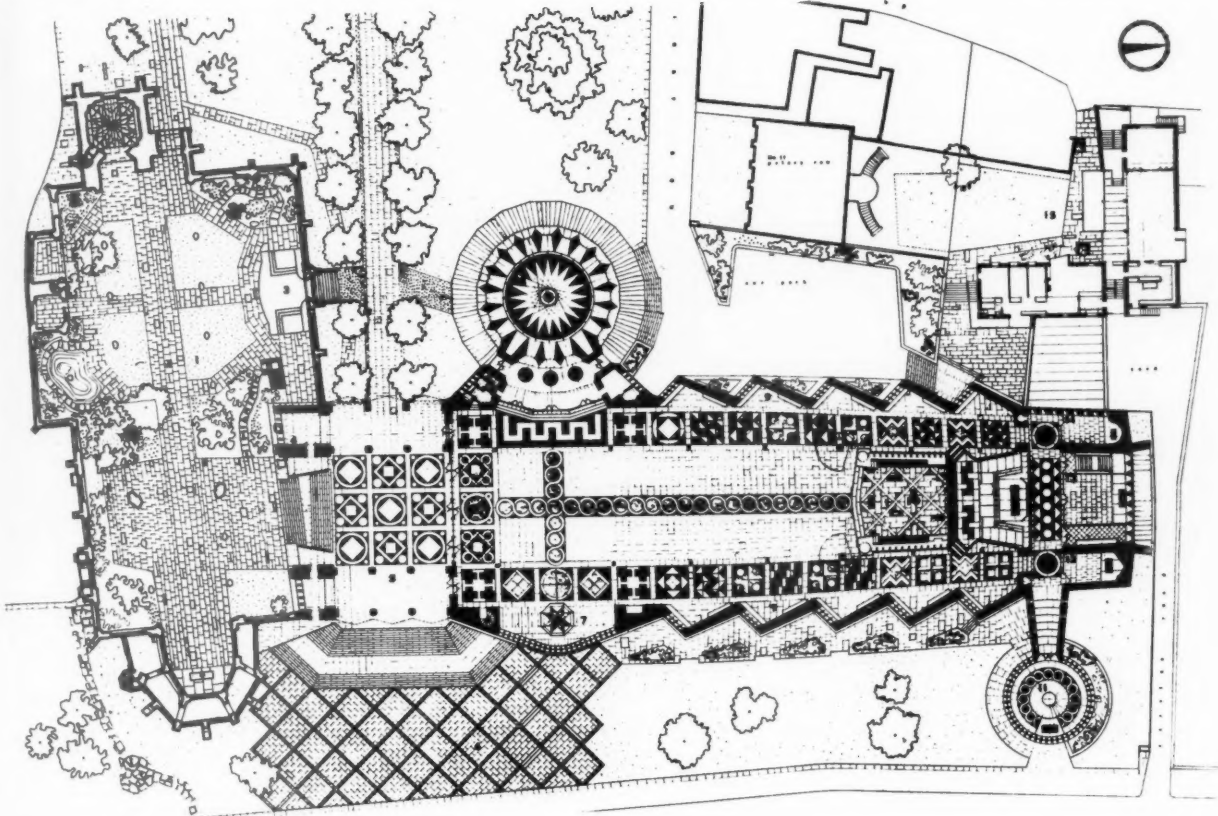
Accepting the financial limitations set by the treasury, the National Housing and Town Planning Council,* is of the opinion that the Government's target of 300,000 new houses per year should be secondary to the raising of housing standards generally. But, as the Council's chairman, Councillor H. M. Pattinson, pointed out at a press conference last week, the Council does not accept these limitations, believing that in addition to 300,000 new houses per year, we should be reconditioning large numbers of sub-standard, but structurally sound, dwellings, too.

The Council has prepared a policy statement (its first since the war), which has been

Continued on p. 551.

* Membership of the Council, which was formed in 1900, consists mainly of local authorities (all the principal housing authorities in the country are members), housing trusts and societies, trade unions and private individuals—mainly sociologists.

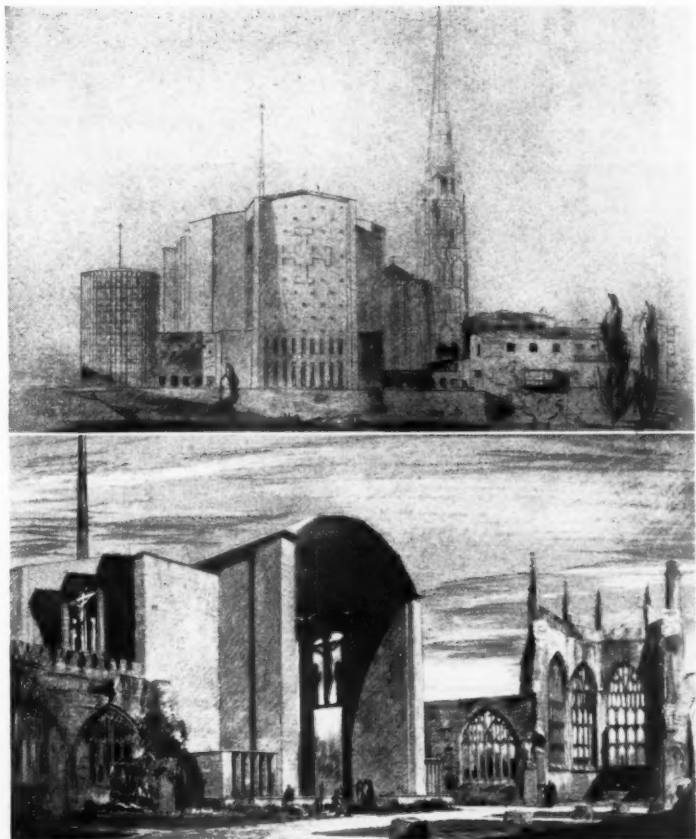
LATEST AMENDMENTS TO COVENTRY CATHEDRAL



KEY

- | | | |
|---------------------|----------------------|--------------------------|
| 1. Cathedral ruins. | 6. Forecourt | 12. Chapel of the resur- |
| 2. Tower. | 7. Font. | rection. |
| 3. Open-air stage. | 8. Chapel of unity. | 13. Lady chapel. |
| 4. Crypt chapel | 9. Hallowing places. | 14. Children's chapel. |
| entrance | 10. Chancel. | 15. Christian service |
| 5. Entrance porch | 11. Guild chapel and | centre. |
| | chapter house vault | |

Further amendments made by Basil Spence to his Coventry Cathedral designs are on view in the architectural room at the Royal Academy Summer Exhibition, which opens today. The tapestry has been moved back 45 ft. from the altar. The wall immediately behind the altar has been replaced by a low wrought-iron screen and the window behind this, in the extreme "east" end wall, which was formerly the full height of the wall, has been reduced to 15 ft. in height. The tapestry, which was previously lit by the most "easterly" hallowing place windows, is lit by clear-glass windows now provided in the flank walls behind the altar. Right, a view of the "east" end showing the end wall, which is now to be of stone. The pitched roofs of the two flanking chapels and of the link to the guild chapel are now flat. Below, right, a view of the "west" end. The edge of the roof over the entrance porch is no longer curved, it now has the same outline as the vault form.



PRIVATE HOUSE AND DENTAL SURGERY IN ELLERDALE ROAD



This private house in Hampstead was designed by A. V. Pilley for a client who is a dental surgeon in the West End, but who required a surgery as part of the house to carry out work in his own time for a few special patients. The photograph above shows the house and garage from Ellerdale Road; top, opposite, is the garden facade from the west; below is the hall and staircase; below, right, the living room looking towards the terrace and bottom, opposite, is the hatch between dining room and kitchen. The site slopes down steeply to the west and there is a view westwards over the grounds of University College School, towards London. The site did not permit the use of normal foundations and 8-ft. deep brick piers are taken down to solid concrete foundations. Above these piers is a continuous reinforced-concrete ring beam, which carries the external brick walls. An 11-in. cavity wall had to be built independently of

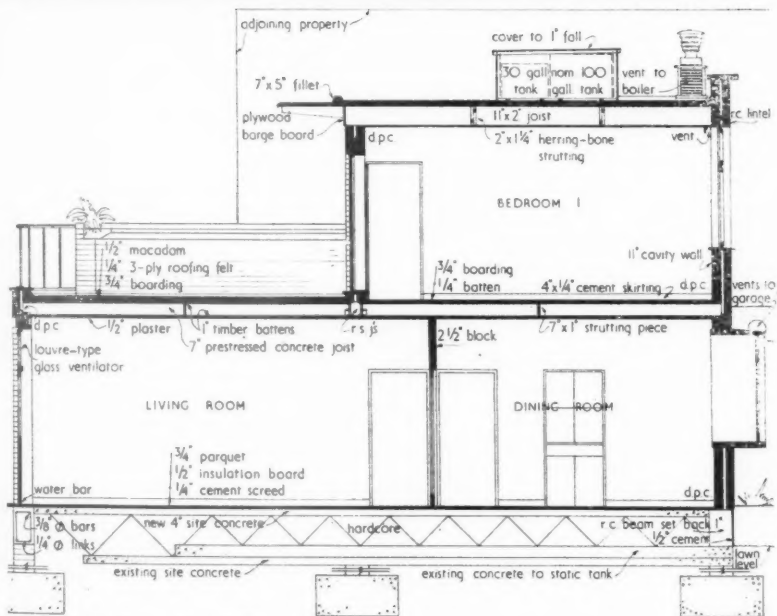


First floor plan

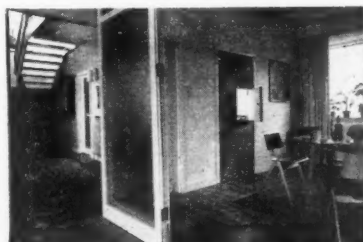
Ground floor plan
[Scale: $\frac{1}{16}$ " = 1' 0"]

Section
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LE ROAD, HAMPSTEAD, LONDON N.W.3

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

the neighbouring house on the north side and the 4-in. cavity between the two walls is ventilated and used as an air duct for the ground-floor bathroom and the first-floor landing. It was a requirement of the clients that all bedrooms and the kitchen should face east. External walls are of 11-in. cavity brickwork, faced with black bricks with raked joints. R.S.J's. carry the west wall of the first floor and the first-floor joists which are of prestressed concrete. The timber roof joists project 3 ft. on the west elevation and are painted rose and white. The contract price was £5,500. The price per ft. cu. was 3s. 6d., and per ft. sq. 48s. A specially designed rubbish disposal unit in the external wall of the kitchen has an access panel operated by a foot pedal. The general contractors were Collins & Prior, Ltd. For sub-contractors, see page 568.



passed by its executive committee and which, after it has been before a delegate conference of the Council later this year, is to be presented to the Minister of Housing and Local Government.

The Council is recommending a "three-pronged attack": firstly, the attainment of the Government's target of 300,000 new houses a year; secondly, the elimination of the slums; thirdly, a programme of reconditioning which it considers, in many respects, most important of all.

Mr. Pattinson said that there were approximately 2,000,000 sub-standard houses in Great Britain that were structurally sound and worth reconditioning. They were the country's primary asset, and we should not allow them to decay. The 1949 improvement Act had not worked; few local authorities and even fewer private owners had taken steps, under the Act, to recondition property. The main reason for this was, in the council's opinion, the 16 conditions that were laid down in the Act, particularly the one which obliged the owner to undertake to make the property available for letting for 30 years. There were two solutions: legislation to encourage property owners to recondition their property, or, where this failed, compulsory acquisition and reconditioning by the local authority.

Mr. Pattinson's personal estimate of our needs was 300,000 new houses, 100,000 reconditioned houses, and 100,000 slum homes cleared each year. But, in order that a detailed programme could be worked out, it was essential, he said, that authorities carried out surveys of the houses in their areas, as the council had been recommending since 1945, and as had, in fact, been done in some areas.

Every encouragement should be given to the various housing societies and trusts. Some of them charged rents as little as 1s. 10d. per week, and they were crippled by the Rent Restriction Act. They had a very important part to play, for many tenants of slum property could not afford the rents of new council houses.

The Council recognized that an increased housing programme would mean more money spent on housing subsidies, but improved housing conditions would have direct repercussions on the health of the nation and expenditure on the National Health Service would be reduced and productivity would improve. A pilot survey had shown that roughly half the council's members were in favour of a scheme whereby council tenants who could afford it should pay more than the subsidized rent. This would, of course, reduce the national expenditure on subsidies.

COMPETITION

"News Chronicle" House Assessors

Assessors have been appointed for the final section of the *News Chronicle* house competition. They are F. R. Yerbury, O.B.E., Hon. A.R.I.B.A., director of The Building Centre and consulting editor of the JOURNAL; David Goddard, A.R.I.B.A.; Dr. Stephen Taylor, *News Chronicle* medical correspondent; Margaret Sherman, *News Chronicle* home expert, and Phyllis Garbutt, A.R.I.C., principal of the Good Housekeeping Institute.

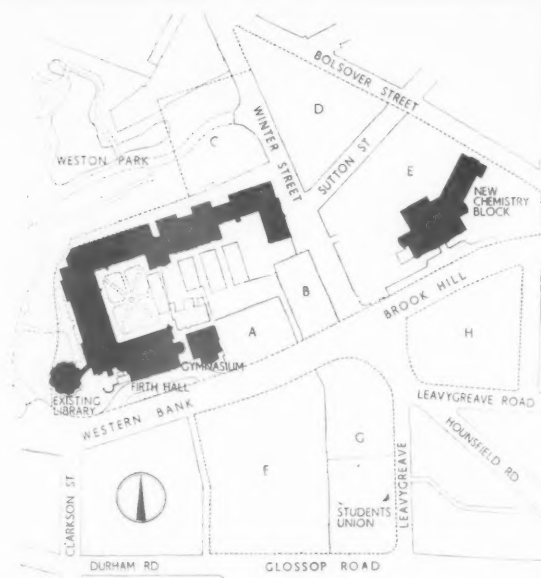
These assessors will decide which competitor shows the best judgment in listing ten architect-designed houses in order of merit. Five of the houses (all of which are being illustrated in the *News Chronicle* this week and next week) were prize-winning entries in an architectural competition; the other five were specially commissioned by the newspaper.

The competitor who (in the opinion of the assessors) has the best judgment, and who also gives the most appropriate and original name to one of the houses, will be awarded the house of his choice.

COMPETITION FOR NEW UNIVERSITY BUILDINGS, SHEFFIELD

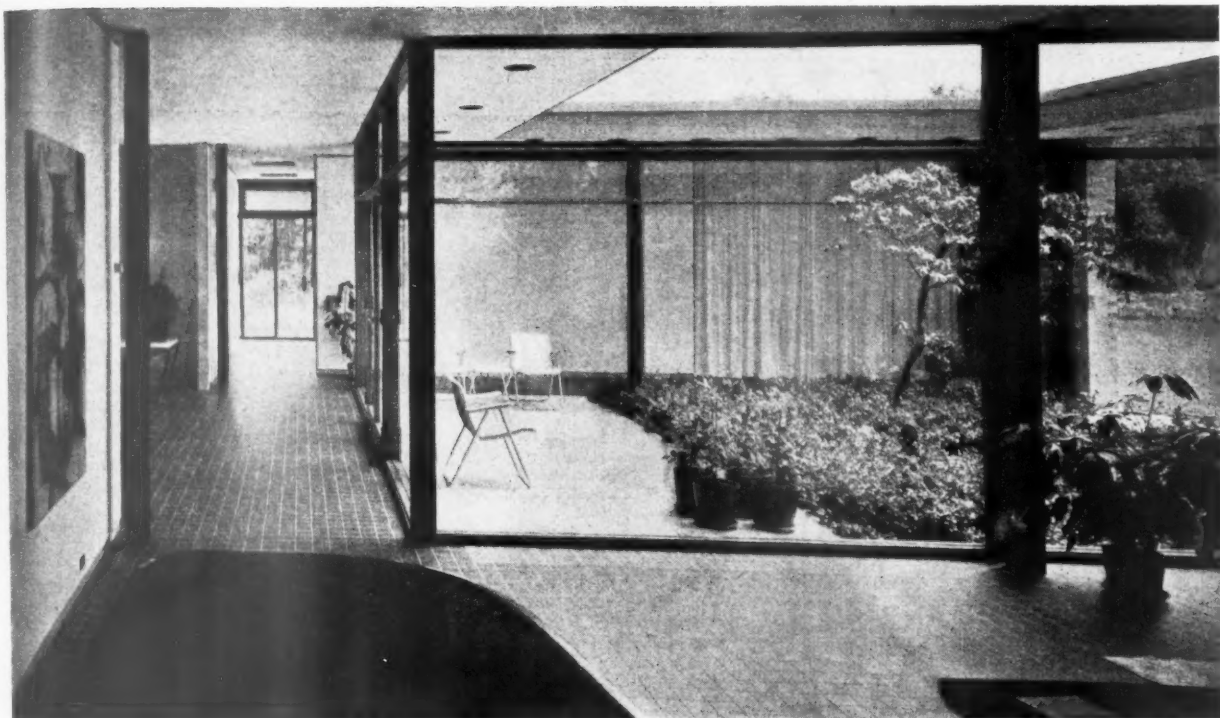


The JOURNAL has already published a brief announcement (February 19, page 246) of the competition for extensions to the University of Sheffield, organized by the Council of the University, who are giving three prizes: £5,000, £3,000 and £2,000. Above is the existing building from the west-north-west, around which will be placed "a central area of buildings which shall be distinguished in their university character." The promoters have appointed Sir Percy Thomas, F. R. S. Yorke and Gerard Young, pro-chancellor of the University of Sheffield, to act as assessors. The closing date is October 31, 1953. Plans, elevations and sections are required (to a scale of 16 ft. to the inch) of a library, arts departments, and administration buildings. Also required is a layout showing the positions and heights of the following buildings:—physics department, medical school, refectories and staff house, union of students, central boiler house and extensions to the chemistry department. The layout should also include the library, arts departments and administration buildings. Sketch elevations of the frontage to West Bank and Brookhill should be included, showing how the new buildings will harmonise with the existing university buildings. Competitors are free, within the limitations of the sites shown on the plan, to locate the various buildings where they will. The library comes first in the university's order of priority for projected buildings, and it is unlikely there would be any delay in site C being made available for the library if that site were selected for it. Site B can also be made available quite easily; but sites D and F "each have numbers of dwelling-houses upon them, the rehousing of whose tenants would create delay in starting building thereon." Sites A and G are mainly occupied by academic departments in temporary quarters, whose removal would be difficult to arrange until alternative accommodation



Site plan of Sheffield University

was available. The university authorities hope that competitors will not find it necessary to use site H, which is not likely to come wholly into the possession of the university for some years. The administrative offices should be placed at the natural focus of the layout and should be conveniently accessible from a car park which, if possible, should accommodate 50 vehicles or more, near the main entrance. Administration need not be housed in a separate building, but the students' new cloak and locker rooms must be placed near to the arts department and centrally for other departments. A combination of the library with some arts departments "would not be ruled out." The academic departments, as distinct from such social amenities as the refectories, should, if possible, be concentrated to the north of this main road.

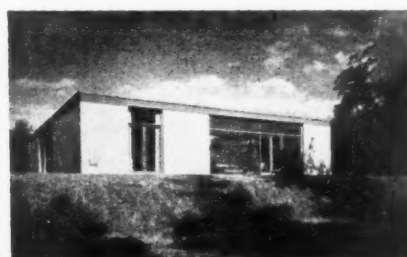
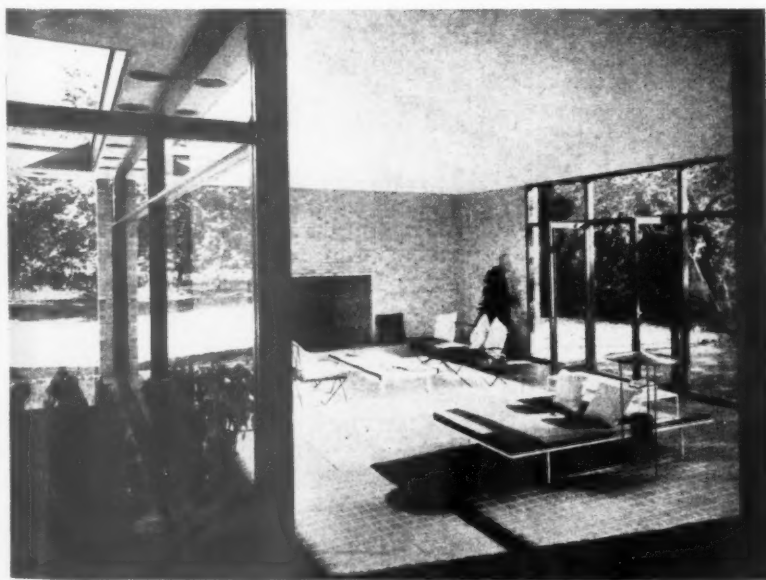


HOUSE AT NEW CANAAN, CONNECTICUT, USA

The house at New Canaan, Connecticut, USA, was designed by Philip C. Johnson for a television executive: the associated designer was Landis Gores. Living, sleeping and service areas are grouped in a U-shape round a patio which forms the focus of the design. The roof construction consists of wood joists supported by steel girders which are in turn supported by masonry and four steel H-columns inside the house. Hot-water radiant heating coils are embedded in the floor-slab. Above is a view of the patio from the living room. Below a view of the living room showing the patio on the left. Below right, is a view of the house from the north-west, and bottom right, the house and patio from the south. (Reproduced from Architectural Record, USA.)



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



POLYTECHNIC EXTENSION

in ONTARIO STREET, SOUTHWARK, LONDON S.E.1

designed by NORMAN and DAWBARN, architects and consulting engineers
assistants in charge, JOHN MORETON and PETER CLARKE

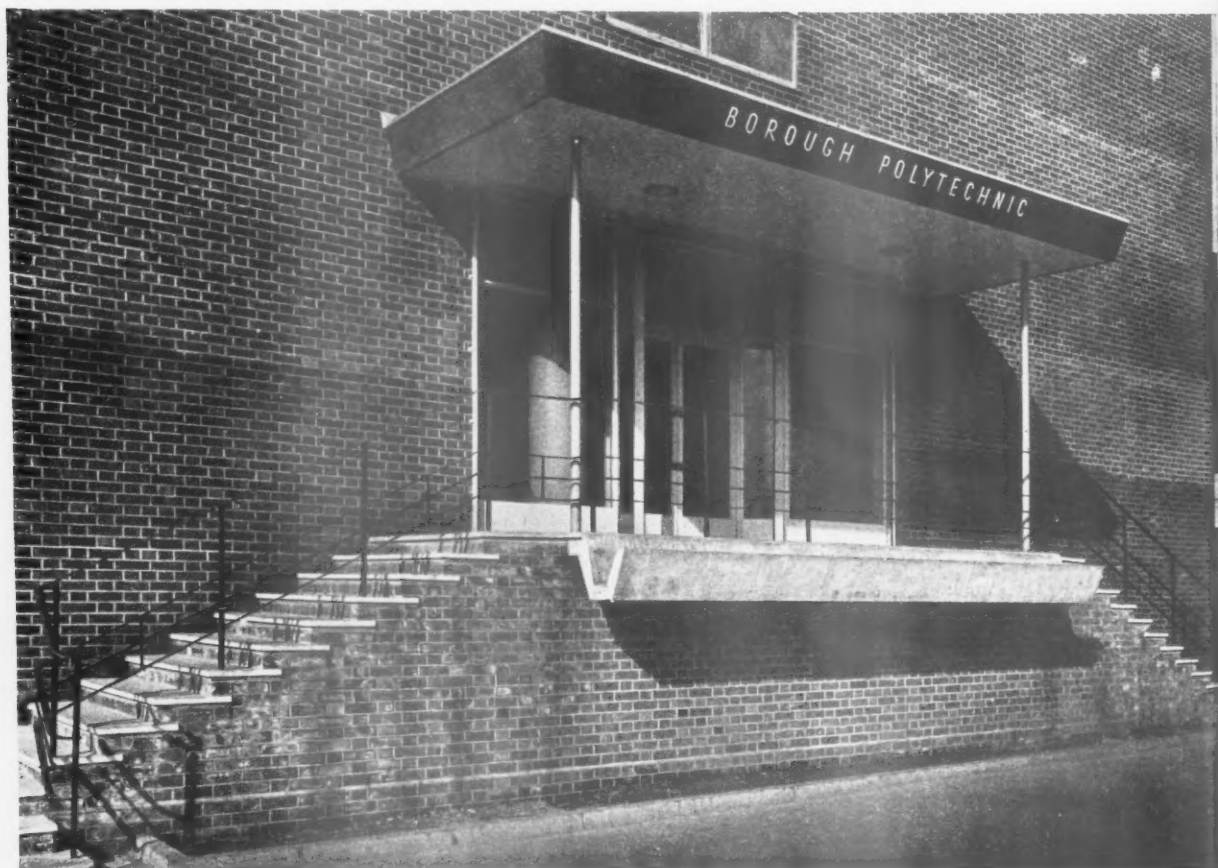
consulting structural engineers, TRAVERS MORGAN and PARTNERS⁸
quantity surveyors, WILLIAM C. INMAN and PARTNERS

The new extension to the Borough Polytechnic, Southwark, for the LCC, which was recently completed, forms part of a far larger scheme, as shown in the photographs of the model and in the site plan. The completed scheme will necessitate the closing of part of Lancaster Street and Ontario Street. The building is double glazed throughout, with a forced ventilation system.

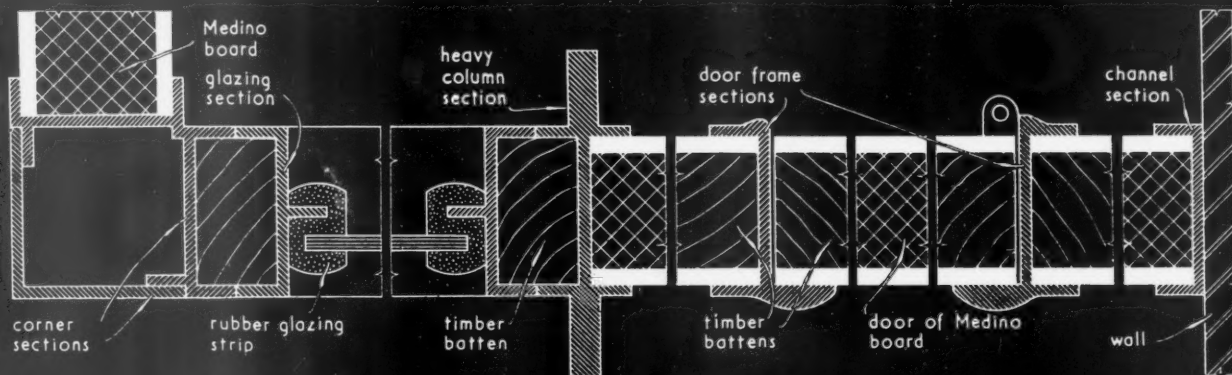


Entrance on the temporary south-east parade.

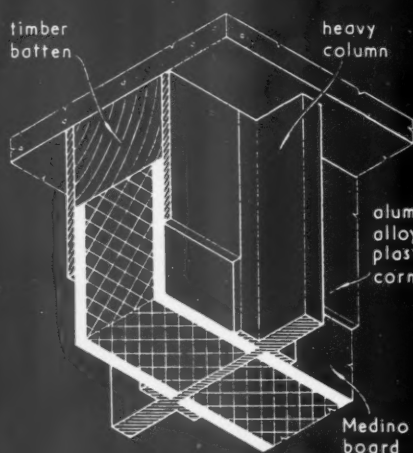
Model of the complete scheme from the east.



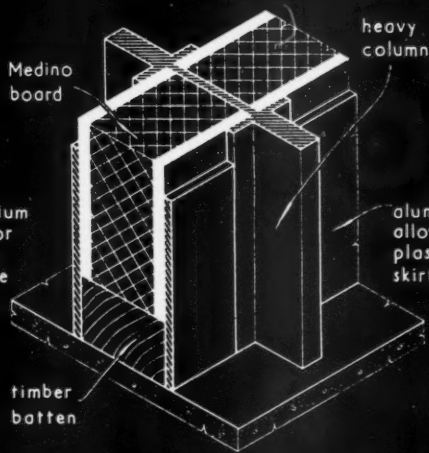
east.



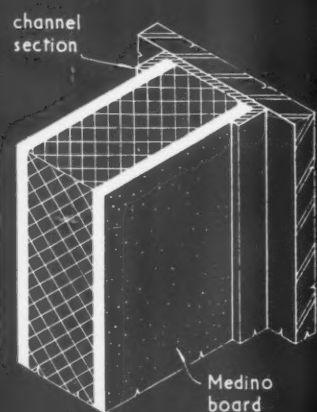
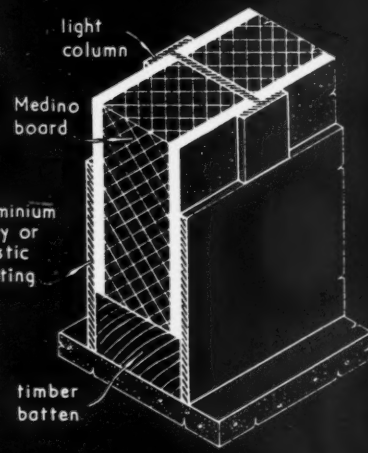
SECTION THRO' PARTITION SHOWING GLAZED PORTION.



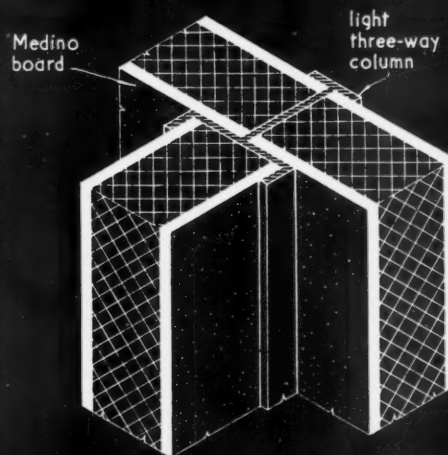
FIXING AT HEAD.



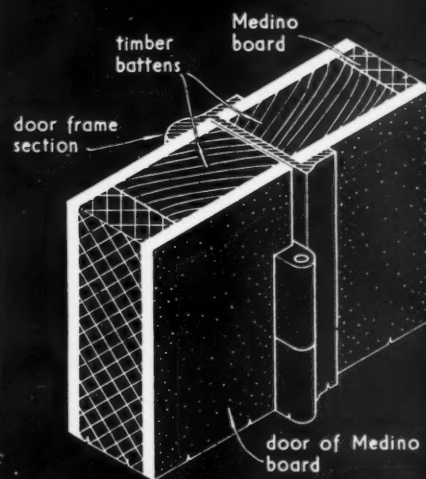
ALTERNATIVE FIXINGS AT FLOOR.



FIXING AT WALL.



THREE-WAY JUNCTION.



DOOR DETAIL.

14.L11 • MEDINO • BOARD PARTITIONS

This Sheet is the first of a series on Medino board and describes its application to the construction of partitions.

General

Medino board partitions are suitable for use in offices and hospitals, for lavatory cubicles, and in any situation where a light, strong partition with good sound and thermal insulating properties is required. The boards are supported in specially designed light alloy extrusions which make possible wide flexibility in design. Glazing of any part of the partition may be carried out by means of glazing sections fitted with one-piece rubber strips to hold the glass. Flush doors of the same material as the partitioning may be incorporated.

Material

Medino board consists of compressed cork granules between two hardboard-type sheets, which are resin-bonded to the cork.

Standard Sizes and Weight

The boards are 8 ft. by 4 ft. by $1\frac{3}{16}$ in. nominal thickness. Their weight is approximately 2 lb. 8 oz. per sq. ft.

Fixing

Medino partitioning is quickly and easily erected or dismantled. The drawings on the face of the Sheet show how the metal sections may be used to finish the partitioning at walls, floors and ceilings, and how doors and glazing may be included.

All edges of the boards are protected by the sections when the fixing of the partition is completed. The replacement of broken glass is a simple matter requiring no special implement. The boards may be cut, where necessary, with normal joinery tools.

Thermal Insulation

The thermal conductivity (k) of Medino board is 0.32 B.Th.U./sq. ft./hr./1° F./1 in. thickness.

Sound Insulation

The boards have a sound reduction factor of 26 decibels.

Finish

The factory-finish of the boards is a durable surface of Sar-Rez plastic with a satin finish available in a range of plain colours. The plastic, which is infra-red cured, is resistant to heat, grease, spirits, acids and alkalis.

Maintenance

The plastic surface can be kept clean by wiping with a damp cloth or, when really dirty, it may be washed with any detergent.

Further Information

The partitioning may be erected by the manufacturer's staff, or agents, in Great Britain and Ireland, or, in certain circumstances, may be supplied ready for fixing under the skilled supervision of the manufacturer.

Compiled from information supplied by :

Saro Laminated Wood Products, Ltd.

Address : Folly Works, Whippingham,
East Cowes, Isle of Wight.

Telephone : Cowes 704-8.

London Office : 45, Parliament Street, London, S.W.1.

Telephone : Trafalgar 6291.

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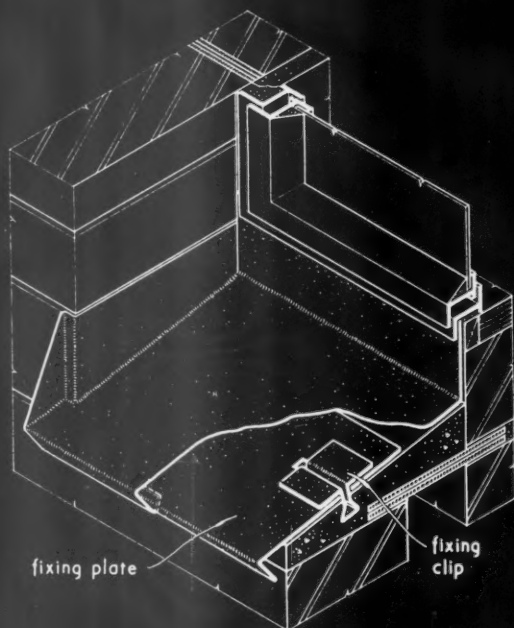
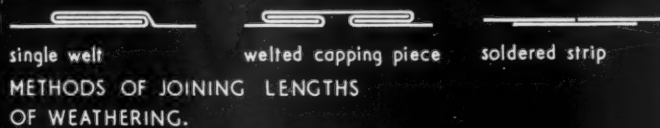
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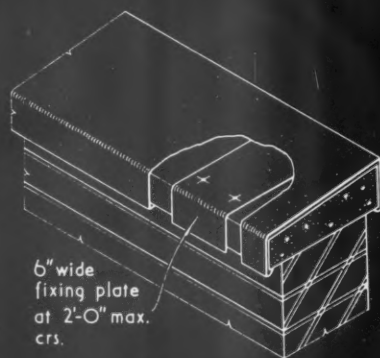
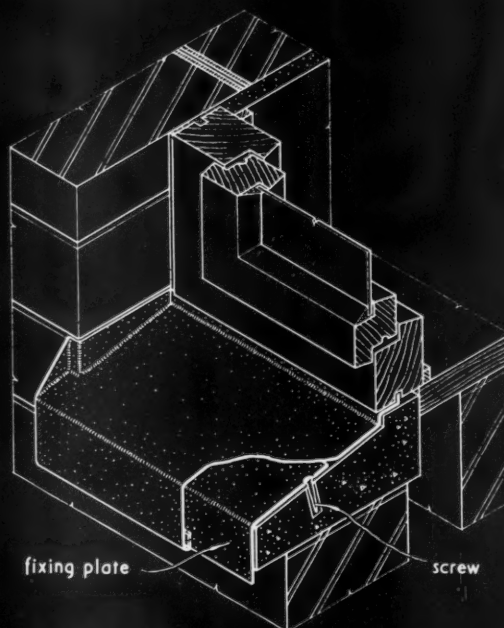
standard size of sheet: 8 ft. by 3 ft.

zinc gauge	nearest s.w.g.	thickness (in.)	weight (oz./sq.ft.)
12	23	0.025	14.98
14	21	0.031	18.58
16	19	0.041	24.57

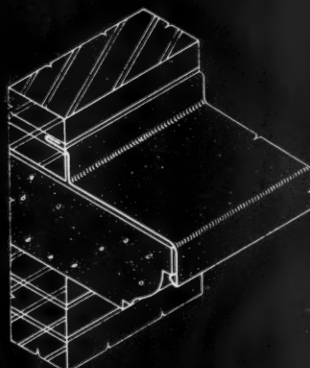
ZINC SHEETING: SIZES AND WEIGHTS.



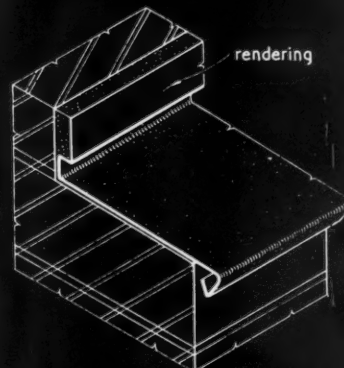
TYPICAL SILL DETAILS.



PARAPET COPING.



STRING COURSE.



OFFSET.

10.J4 ZINC WEATHERINGS

This Sheet describes the fixing of zinc weatherings to sills and other projections and to copings.

General

Exposed surfaces are liable to damage and require protection. Apart from waterproofing the surface, the weathering also serves to prevent the disfigurement of the building, in a smoky atmosphere, by discharging water clear of the wall face.

Zinc is a suitable material for weatherings as its cost is low, it is easy to work and it is completely non-staining. The life of the weathering will depend on the thickness of the material used: No. 14 gauge zinc (21 s.w.g.) in an unpainted state will last as long as the building itself in most cases. In highly corrosive atmospheres it is advisable to specify No. 16 gauge zinc (19 s.w.g.) while for temporary buildings No. 12 gauge zinc (23 s.w.g.) is adequate. A table of weights and thicknesses of these gauges is given on the face of the Sheet.

Design

The general design of the weathering is naturally governed by the shape of the projection to be covered and there are various methods of fixing. All weatherings, however, must be provided with an overhang of at least 1 in. from the edge of the projection and be finished with a suitable drip. Where the end of the sill or string course meets a vertical wall surface, the end of the weathering should be turned up to prevent water from being blown over the edge to stain the wall beneath. This is effected by forming soldered corner pieces as shown in the drawings.

Fixing

The method of fixing depends on the situation of the weathering and the treatment it is likely to receive. The details on the face of the Sheet are typical and may be varied according to conditions. An independent fixing plate of No. 12 gauge zinc or galvanized steel (secured at 2-ft. intervals by grouted clips or screws), into which the edges of the weathering are

engaged, forms the type of fixing to be most recommended and is shown in the sill details on the face. Where damage from ladders or similar rough usage is not anticipated, the fixing plate need not be continuous, provided that the weathering is secured at intervals of not more than 2 ft.; this method is illustrated in the parapet coping detail on the face of the Sheet. Where the wall is to be rendered, it is desirable to fix the weathering before the final rendering coat is applied; the top edge of the weathering can be turned out and the rendering brought down on to it, as shown in the offset detail.

Joints

The three methods of joining lengths of weathering are shown on the face of the Sheet. The welted methods allow for expansion but where concealed joints are required the soldered method may be used. The maximum length which should be used with soldered joints is 30 ft.; for longer lengths welted joints should be used, but, where these are undesirable, the ends may be simply lapped with the edges slightly feinted.

Further Information

The Zinc Development Association is available to answer questions and to advise on technical problems dealing with this subject generally. Publications are available on request.

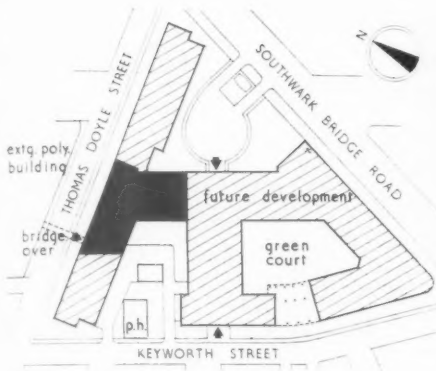
Compiled from information supplied by:

Zinc Development Association.

Address: Lincoln House, Turl Street, Oxford.
Telephone: Oxford 47988.

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Site plan

PLAN.—The layout of the extension is related to the function of the existing building, to which it is connected by a covered bridge across Thomas Doyle Street. The classrooms are planned on both sides of a central corridor. This allows the extensive service pipes to be concealed in false corridor ceilings. The lower ground floor houses students' lavatories, cloakrooms and changing rooms



The model from the south-west.

and the boiler house. The upper ground floor and first floor contain the bakery department, and the chemistry department is on the second, third and fourth floors.

CONSTRUCTION.—The building has a reinforced concrete frame with panel walls of 4½-in. brick outer skin, a 2-in. cavity and a 3-in. clinker block inner skin. The site was previously occupied by bombed buildings and had to be excavated and,



POLYTECHNIC EXTENSION

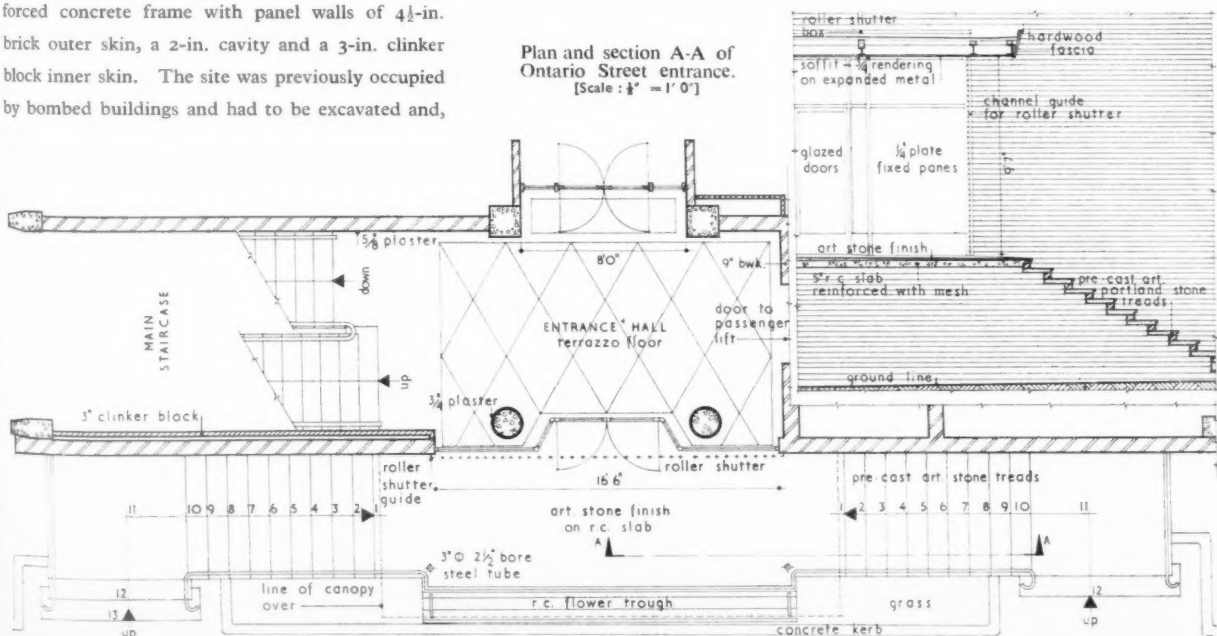
in SOUTHWARK, LONDON, S.E.1

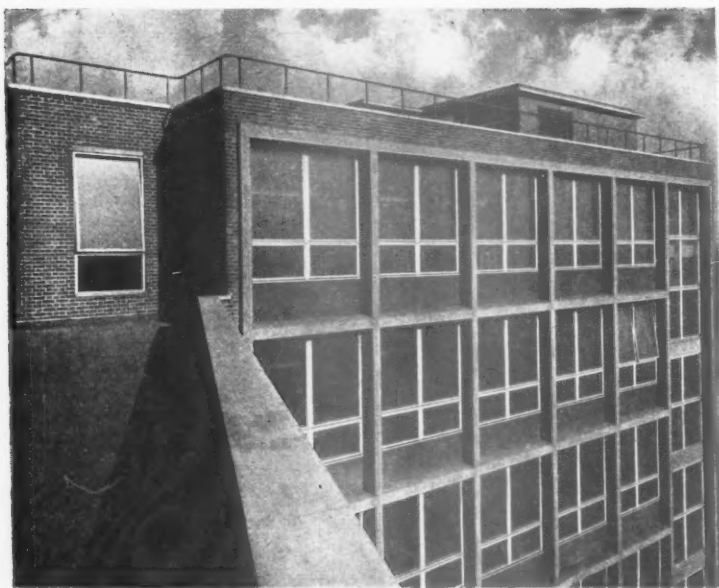
designed by NORMAN and DAWBARN

where there were very deep basements, filled with concrete. A layer of weak concrete was laid over the whole area, which was then tanked with asphalt. Columns are supported on RC bases and the lower ground floor slab is reinforced with wire mesh and supported on edge beams cast *in situ* on the tanking.

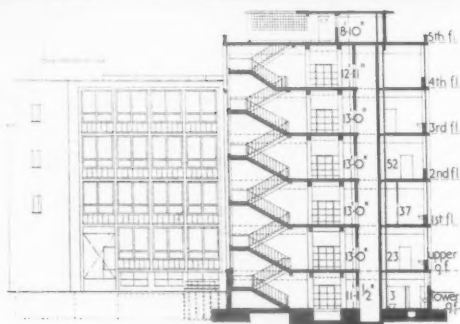
Above, the extension from the south-east. On the right is the facade facing Ontario Street, which will be closed when stage 2 of the scheme is built.

Plan and section A-A of Ontario Street entrance.
[Scale: 1/4" = 1' 0"]





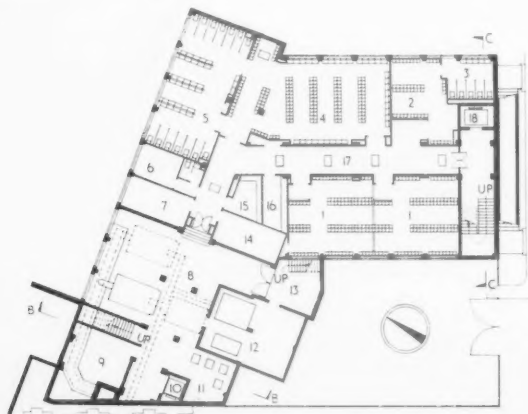
Above, view from the roof of the four-storey block showing the south-west facade of the six-storey block. All the windows are double-glazed casements.



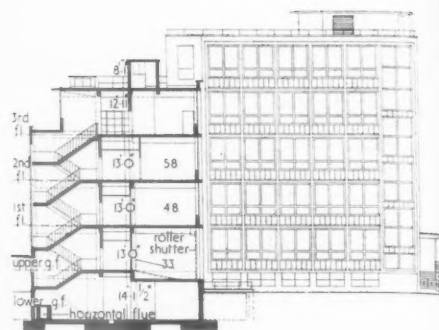
Section C-C

KEY

- | | | |
|----------------------------------|------------------------------|--|
| 1. Men Students' Changing Room | 20. Women Teaching Staff | 43. Research Bakery |
| 2. Women Students' Changing Room | 21. Men Teaching Staff | 44. Flour Testing Room |
| 3. Women Students' Lavatory | 22. Men Staff Coat Room | 45. Botany Laboratory |
| 4. Men Students' Coat Room | 23. Men Staff Lavatory | 46. Zoology Laboratory |
| 5. Men Students' Lavatories | 24. Bakery No. 1 | 47. Bridge to Existing Building |
| 6. Staff Rest Room | 25. Bakery No. 2 | 48. Bio-Chemistry Laboratory |
| 7. Workshop | 26. Bakery No. 3 | 49. Elementary Chemistry Laboratory |
| 8. Boiler Room | 27. Wash Up | 50. Paint Laboratory |
| 9. Fan Room | 28. Ready Use Food Store | 51. Balance Room |
| 10. Goods Lift | 29. Cake Decoration Room | 52. Rough Balance Room |
| 11. Boiler Feed Pump | 30. Food and Bulk Store | 53. General Purpose Technical Laboratory |
| 12. Fuel Store | 31. Cold Chamber | 54. Testing Room |
| 13. Area | 32. Prepared Scales | 55. Paint Mill |
| 14. Meter Room | 33. Loading Bay | 56. Varnish Room |
| 15. Utensil Store | 34. Lecture Room No. 1 | 57. Laboratory Assistant's Room and Spray Room |
| 16. Store | 35. Head of Department | 59. Men Students' Lavatory |
| 17. Corridor | 36. Senior Lecturer's Room | 60. Cleaners' Store |
| 18. Passenger Lift | 37. Women Staff Lavatory | |
| 19. Main Entrance | 38. Bakery No. 4 | |
| | 39. Food Analysis Laboratory | |
| | 40. Balance Room No. 1 | |
| | 41. Balance Room No. 2 | |
| | 42. Flour Store | |



Lower ground floor plan [Scale: $\frac{1}{4}'' = 1' 0''$]



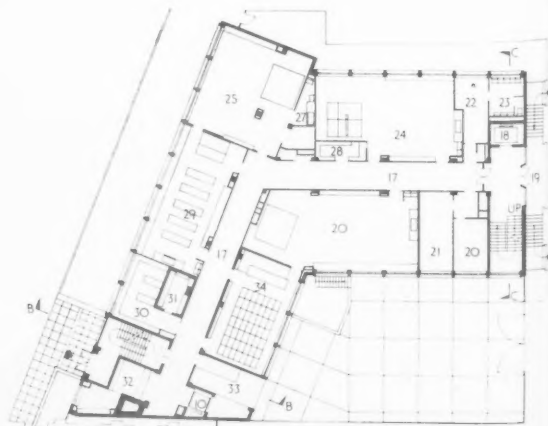
Section B-B



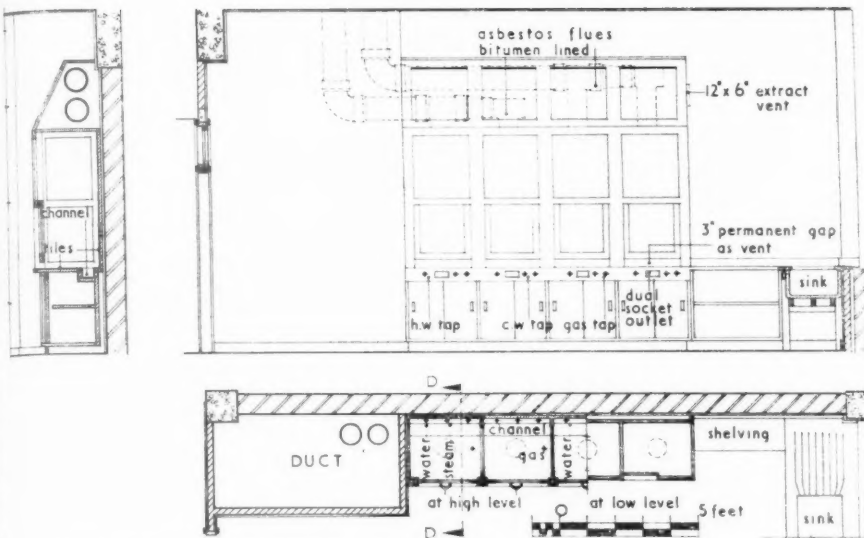
Second floor plan



First floor plan



Upper ground floor plan [N.B. Left hand Fig. 20 should read 26.]



Fume cupboards, plan, elevations and section D-D [Scale: 1" = 1' 0"]

Floors and roofs are of solid RC cast *in situ* with metal pan shuttering. The end walls which will be removed when future extensions are built are constructed of 9-in. brickwork.

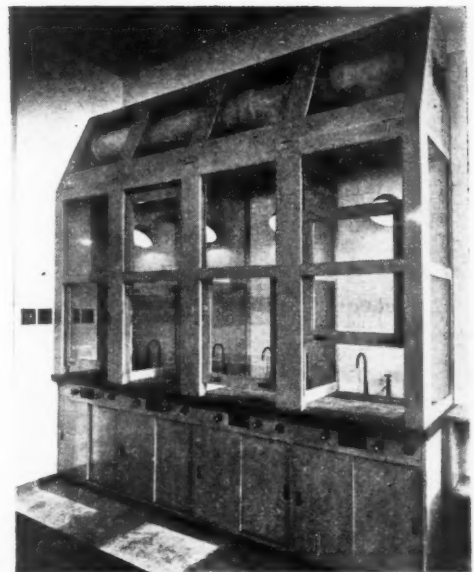
FINISHES.—The RC frame, where exposed, is rendered, trowel finished and sponged to expose the aggregate. The brick infilling panels are rendered and the aggregate exposed in the same way, but a blue-black matrix is added. Where walls are of fair-faced brickwork, these are salmon-brown Ibstocks. Internally, all walls are plastered and painted except for the boiler room, plenum chamber and workshop, which are fair-faced brickwork, and bakeries, which are lined with 6-in. sq. ivory coloured tiles. Floors are finished with compressed wood fibre and cement blocks in lecture rooms, laboratories and balance rooms; terrazzo in bakeries, cake decoration, flour testing, spray and varnish rooms and main staircases; granolithic in the workshop, plenum chamber and secondary stairs; composition tiles in corridors, staff rooms, and quarry tiles in lavatories and changing rooms. On the main facades the windows are double glazed in hardwood casements horizontally centre pivoted. On brick facades the windows are of special double glazing in metal frames.

SERVICES.—Heating and ventilation is by low temperature radiant heating ceiling coils cast into the bottom of structural slabs, and by a supply and extract plenum system. The forced ventilation system was used because of flour dust in bakeries and the necessity for keeping out polluted air. Sinks drain into settling pots from which water is automatically syphoned out into branch drains, which lead through floors and travel below ceilings to vertical ducts.

The general contractors were Humphreys, Ltd. For sub-contractors, see page 568.

POLYTECHNIC EXTENSION

in SOUTHWARK, LONDON, S.E.1
designed by NORMAN and DAWBARN



Right, fume cupboards in the paint laboratory on the second floor. Below, the bridge between the existing building and the new extension across Thomas Doyle Street.



HOUSES

in BEDWELL CRESCENT, STEVENAGE NEW TOWN, HERTS.

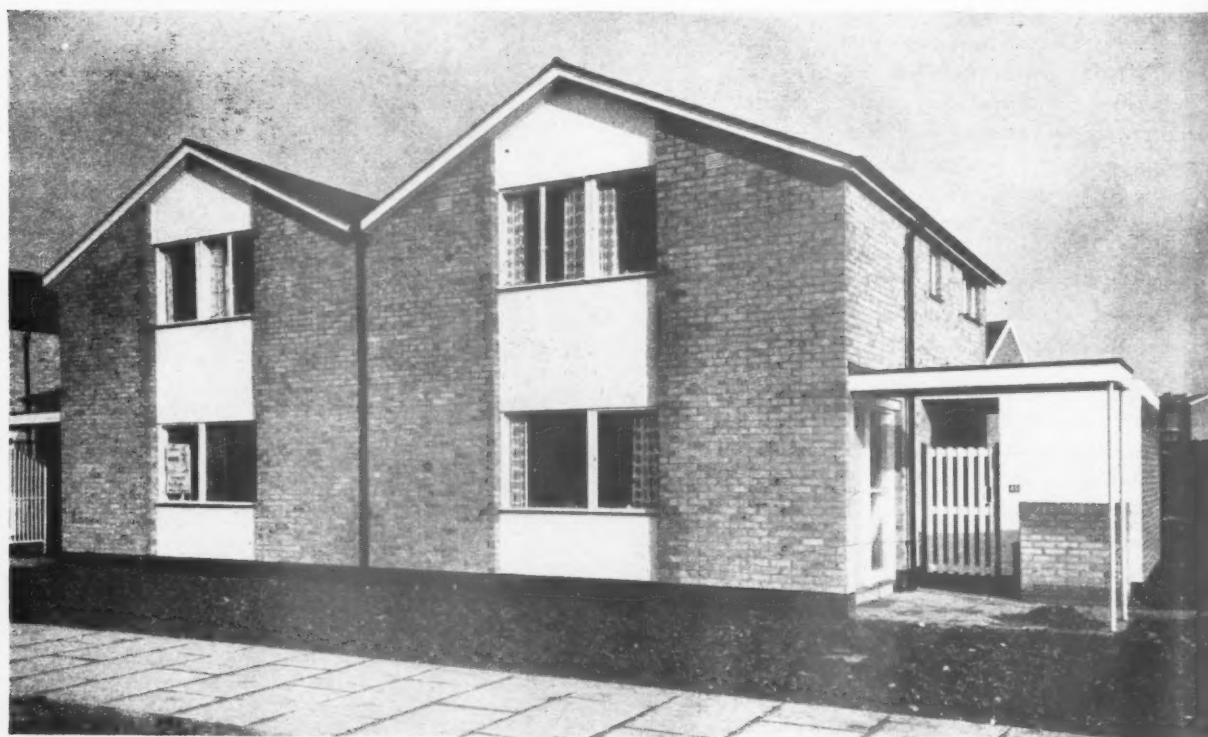
designed by CLIFFORD HOLLIDAY former Chief Architect, STEVENAGE DEVELOPMENT CORPORATION

Deputy Chief Architect LEONARD G. VINCENT

assistant architects O. CAREY, P. HALLIWELL and H. BLAKE

This group of twelve houses is on the western fringe of the Bedwell Neighbourhood in Stevenage. The houses face Bedwell Crescent, which has a gentle convex curve and is on an approximate north-south axis. Each pair of houses is linked by external stores and by canopies over front doors which form covered ways and make a unified group. For privacy a slatted screen is placed centrally under each covered way. In order to try to solve the problem of grouping semi-detached houses so that they are aesthetically pleasing, the architects have placed them so that the gable ends face the road.

One pair of houses from the south-west.



PLAN.—
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CONSTRUCTION
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Ground
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SERVICE
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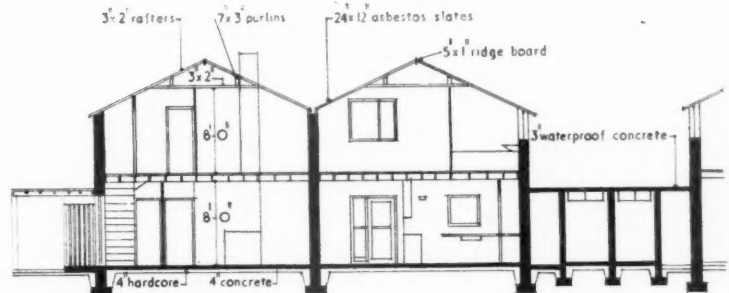
Site plan

PLAN.—All the houses have three bedrooms and, on the ground floor, a dining-kitchen divided into two by a hatch and cupboard unit reaching from floor to ceiling. A ground-floor w.c. is provided under the stairs.

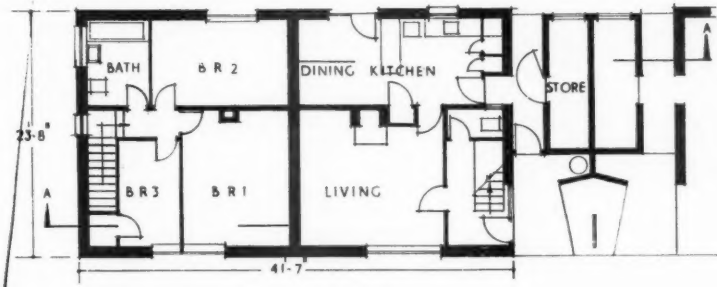
CONSTRUCTION.—External walls are of 11-in. cavity brickwork, with inner skins of cellular fletton bricks, except for a centre panel on the west facade of each house, which is constructed of rendered hollow clay blocks 6 in. thick. Roofs are of timber with a 25-deg. pitch. Ground floors and roofs to stores are of concrete and first floors are of timber joists and boarding.

FINISHES.—External facing bricks are London stocks except for the stores, where the brickwork is painted. Roofs are covered with concrete tiles. Ground floors are covered with PVC patent finish. Windows are metal on a 2-ft. module, except for certain 3-ft. sq. windows, which are centrally hung, horizontally.

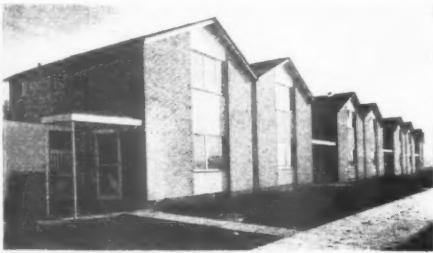
SERVICES.—Houses are heated by continuous-burning fires with back boilers for domestic hot water. These fires have two sets of louvres at the



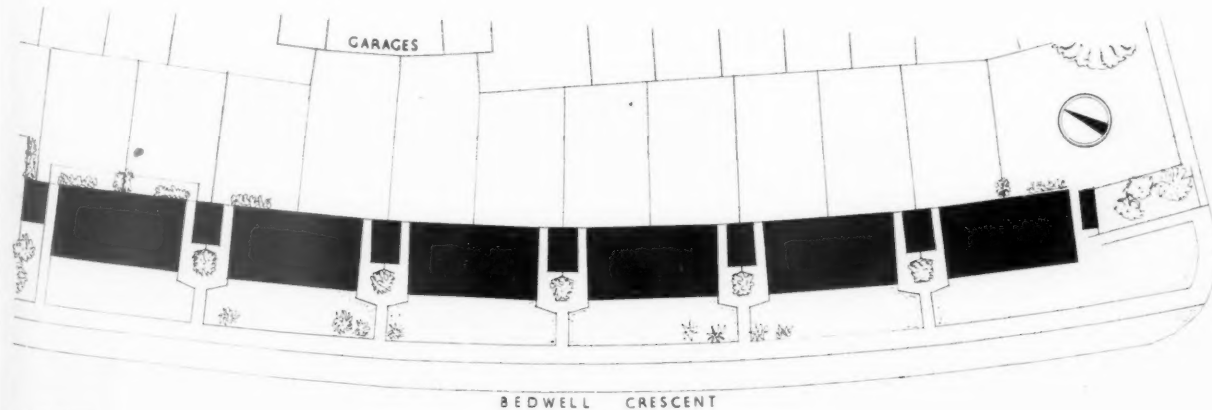
Section A-A



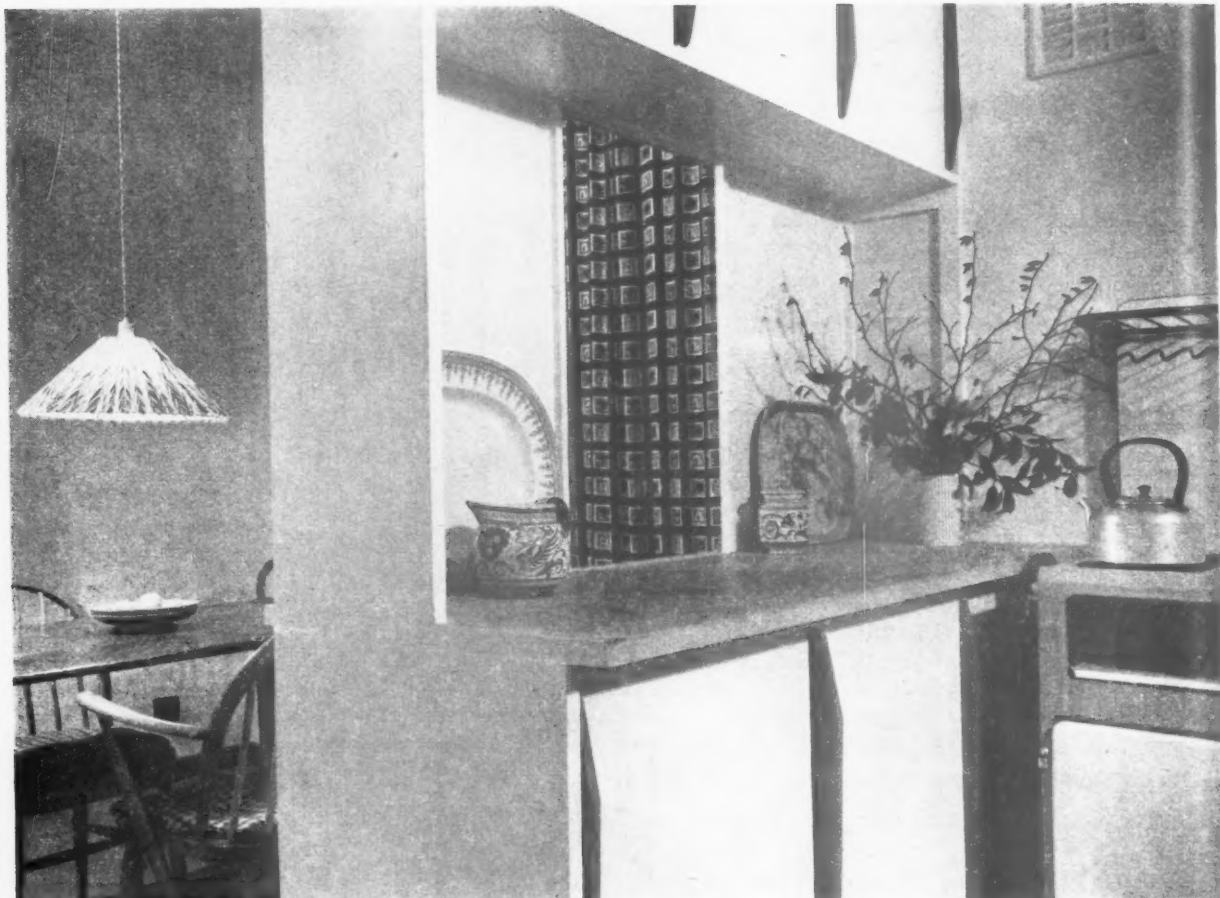
Ground and first floor plans [Scale: $\frac{1}{8}'' = 1' 0''$]



Above, part of the row of twelve houses, seen from the north-west. Above, right, a living room with hall and front door in the background.



Site plan



Above, the dining space (left) and the hatch and cupboard unit that divides it from the kitchen. Below, left and right, two further views of the living room.

back so that convected air can provide warmth to the dining kitchens.

These houses, which have an area of 970 sq. ft. each, cost £1,512. This includes £319 for external services, preliminary insurance and contingencies.

The general contractors were Carlton Contractors Ltd. For sub-contractors, see page 568.

HOUSES

in STEVENAGE NEW TOWN, HERTS.

designed by CLIFFORD HOLLIDAY



This
special

TECHNICAL SECTION

Dramatic proof of the effect that the "cold war" has on materials' prices came a few weeks ago, when, as a direct result of the easing of East-West tension, the prices of many materials dropped startlingly within a matter of a few days—the price of lead, for example, fell by £6 per ton.

What other effects does the "cold war" have on the building industry and, in particular, on the architectural profession? Firstly, it keeps building costs high at a time when they might otherwise be falling. (Something like 10 per cent. of the men employed in the industry are engaged on buildings for the defence programme and, while so much defence work is available to contractors, competition for civilian contracts is correspondingly weakened.)

Secondly, as a result, partly of high materials' prices and high building costs, and partly of uncertainty regarding the future, many individuals and firms, who might otherwise be engaging private architects for building projects, abandon, or postpone, the idea.

8 ESTIMATING materials' prices

This week's
special feature

Current prices for
measured work
will appear on May 21.

Prices of materials
and measured work
last appeared in
the JOURNAL on
Jan. 22 and Feb. 12,
1953, respectively.

Current rates of wages and market prices of materials prepared by Davis, Belfield and Everest, Chartered Quantity Surveyors. Rates for measured work will be published in the JOURNAL for May 21. The most recent of Professor Bowen's 6-monthly analyses of fluctuations in the prices of building materials appeared last week.

Rates of Wages last rose on February 2, 1953 and are now as follows:—

LONDON DISTRICT

<i>DISTRICT</i>	<i>Craftsmen</i>	<i>Labourers</i>
Within 12 miles radius	3s. 8d.	3s. 2½d
From 12-15 „ „	3s. 7½d.	3s. 2d.

LIVERPOOL and DISTRICT

.. ..	3s. 8d.	3s. 2½d.
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GRADE CLASSIFICATIONS A

	A	A ¹	A ²	A ³
Craftsmen	.. 3s. 6½d.	3s. 6d.	3s. 5½d.	3s. 5d.
Labourers	.. 3s. 1d.	3s. 0½d.	3s. 0d.	2s. 11½d.

Prices vary according to quality and the quantity ordered.

Those given below are average market prices and include delivery in the London area, except where otherwise stated, but do not include overhead charges and profit for the General Contractor.

CONCRETOR

Cements

Portland to B.S. 12, 6 tons and over	per ton	93/-
Rapid hardening to B.S. 12, 6 tons and over	"	101/-
Aquacrete water repellent, 6 tons and over	"	125/6
Aluminous to B.S. 915, 1 ton lots	"	280/-
Snowcrete, 1 ton lots	"	253/6

Above prices include for delivery to Charing Cross in non-returnable paper bags or cotton sacks.

Aggregate and Sands, etc. (Full Loads)

$\frac{1}{2}$ " (Down) Washed, crushed and graded shingle to B.S. 882, Table 2	per yard cube	18/3
$1\frac{1}{2}$ " Ditto	"	17/3
$\frac{3}{16}$ " Sharp washed sand to B.S. 882, Table 3	"	20/10
Brick hardcore	"	9/6

(For Sands for Bricklaying and Plastering, see respective trades)

Floor Blocks

Floor blocks, 12" x 12"	per 1,000	673/-	909/-	1,050/-
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Reinforcement

Home trade maximum basis price for mild steel rods to B.S. 785, $\frac{1}{2}$ " diameter and upwards, ex mills delivered to station or siding

Extras for:—

Under $\frac{1}{2}$ " to $\frac{7}{16}$ " diameter	£1 7 0
Ditto $\frac{7}{16}$ " and over $\frac{3}{4}$ " diameter	£1 14 6
$\frac{3}{4}$ " and over $1\frac{1}{8}$ " diameter	£2 2 0
$1\frac{1}{8}$ " and over $1\frac{1}{4}$ " diameter	£2 9 6
$1\frac{1}{4}$ " and over $1\frac{3}{8}$ " diameter	£2 17 0
$1\frac{3}{8}$ " and over $1\frac{1}{2}$ " diameter	£3 4 6
$1\frac{1}{2}$ " diameter	£3 12 0
Under $\frac{1}{4}$ " to $\frac{3}{16}$ " diameter	£5 2 0

Fabric Reinforcement

	16.35 lb.	9.32 lb.	4.71 lb.	1.83 lb.
Steel wire mesh fabric to B.S. 1221, Part A, per yd. super	7/9½	4/6	2 3/4	1/6½

BRICKLAYER

Common Bricks

Third stocks	per 1,000	121/10
Rough stocks	"	157/10
Mild stocks	"	202/4
Sand limes	"	110/6
Phorpres pressed Flettons	"	108/-

Facing Bricks

Hand-selected sand limes	per 1,000	145/9
Phorpres rustic Flettons	"	133/-
Stocks, first hard	"	249/4
Stocks, second hard	"	233/4
Southwater pressed sandfaced reds	"	282/-
Dorking pressed sandfaced multicoloured facings	"	236/6

Engineering Bricks

Lingfield engineering wirecuts. Grade 'B'	per 1,000	216/-
Southwater engineering No. 2 (second quality red pressed)	"	279/6
Blue pressed bricks to B.S. 1301	"	497/6

Glazed Bricks

White, Ivory or Brown, 9" x 2 $\frac{1}{4}$ " x 4 $\frac{1}{2}$ " delivered	Best quality.	
London stations,	£	s. d.
Headers	per 1,000	63 0 0
Stretchers	"	64 0 0
Seconds quality, above prices less 10%		

BRICKLAYER (continued)

Limes and Sands

†Lime, greystone, to B.S. 890	per ton	110/6
†Lime, chalk, ditto	"	110/6
*Lime, hydrated, ditto	"	123/-
Washed pit sand to B.S. 1200	per yard cube	20/10

* Including paper bags.
† Hire of jute sacks charged at 1/6 and credited at 1/6. If left, charged at 1/9.

Sundries

10 s.w. gauge galvanized butterfly type wall ties to B.S. 1243	per 1,000	106/-		
Wall ties, galvanized, 8" \times $\frac{1}{2}$ " \times $\frac{1}{2}$ ", to B.S. 1243	per cwt.	94/6		
Damp proof course slates :	Imported	Welsh		
Size 14" \times 9"	per 100	43/-	74/3	
" 14" \times 4 $\frac{1}{2}$ "	"	21/-	34/6	
Hessian base bitumen damp course to B.S. 743	per yard super	5/1		
	9" \times 3"	9" \times 6"	9" \times 9"	
Terra-cotta airbricks	each	1/3	2/6	6/-
Galvanized cast-iron airbricks	"	3/8	6/1	9/6
Galvanized cast-iron hit-and-miss ventilators	"	3/7	6/10	8/11
Wall reinforcement supplied in standard rolls containing 25 yards lineal				
‡ 2" wide black japanned	per roll	3/4		
‡ 2 $\frac{1}{2}$ " wide black japanned	"	4/2		
‡ Greater widths pro rata 2 $\frac{1}{2}$ " price, carriage paid on orders of £7.				
Discount for quantities.				

Partitions, etc.

	2"	2½"	3"	4"
Clinker concrete, solid to B.S. 492				
per yard super	3/2	3/9	4/4	5/6
Hollow clay to B.S. 1190 (keyed)	4/2	4/5	4/11	—
Moler (keyed)	13/-	13/9	14/6	17/6
Building blocks (keyed):—				
6 cavity		per yard super		6/5
Normal quality woodwool slabs	1"	1½"	2"	2½"
Minimum delivery, square yards,	500	400	325	275
per yd. super	5/-	6/6	8/-	9/2
				10/3

PAVIOR

2" coarse gravel for paths	per yard cube	21/3
$\frac{3}{4}$ " fine ditto	"	22/9
Clean granite chippings to B.S. 1201, Table 4 (in 5-ton loads)	per ton	44/9
Red quarry tiles 6" x 6" x $\frac{3}{4}$ ", to B.S. 1286	per yard super	13/3
Ditto 6" x 6" x $\frac{3}{4}$ ", to B.S. 1286	"	11/-
Buff quarry tiles, 6" x 6" x $\frac{3}{4}$ ", to B.S. 1286	"	16/6
Ditto 6" x 6" x $\frac{3}{4}$ ", to B.S. 1286	"	14/-
Hard red paving bricks, 2"	per 1,000	442/9
Ditto 1 $\frac{1}{2}$ "	"	417/9

DRAINLAYER

Clay Land Drain Pipes to B.S. 1196

Pipes in 12" lengths	per 1,000	195/-	255/6	529/-
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Salt Glazed Stoneware Pipes and Fittings

The following percentages to be added to the Standard List prices.

	Orders for 2 tons and over	Orders under 2 tons 100 pieces upwards	Orders under 2 tons less than 100 pieces
Seconds Quality	67 $\frac{1}{2}$ % less 15%	87 $\frac{1}{2}$ % less 15%	97 $\frac{1}{2}$ % less 15%
Best Quality	67 $\frac{1}{2}$ %	87 $\frac{1}{2}$ %	97 $\frac{1}{2}$ %
British Standard Quality	67 $\frac{1}{2}$ % + 10%	87 $\frac{1}{2}$ % + 10%	97 $\frac{1}{2}$ % + 10%
Tested Quality	67 $\frac{1}{2}$ % + 37 $\frac{1}{2}$ %	87 $\frac{1}{2}$ % + 37 $\frac{1}{2}$ %	97 $\frac{1}{2}$ % + 37 $\frac{1}{2}$ %
British Standard Tested	67 $\frac{1}{2}$ % + 47 $\frac{1}{2}$ %	87 $\frac{1}{2}$ % + 47 $\frac{1}{2}$ %	97 $\frac{1}{2}$ % + 47 $\frac{1}{2}$ %

Cast Iron Drain Pipes and Fittings

Socket and spigot pipes to B.S. 437:—

Weight per 9 ft.	Size	9 ft.	6 ft.	4 ft.	3 ft.	2 ft.
		each	each	each	each	each
1	1 4"	60/3	43/10	34/5	26/4	21/1
2	0 1 6"	89/6	69/-	54/4	43/4	32/6
3	3 21 9"	164/-	137/6	115/9	88/10	



There's nothing like **Lansdowne Emulsion Paint**

FOR SAVING TIME, MONEY AND LABOUR
Sealer, Undercoat & Top Coat all in one tin

Lansdowne Emulsion Paint dries in under three hours. Three coats can be applied in one day if necessary. Less paint is required because of its opacity and extra covering power. The paint can be used straight from the tin (as directed). It is as easy to apply as distemper, and can be sprayed on most effectively. It dries to form a tough, elastic film which resists scratches and does not pick up dirt. Lansdowne Emulsion Paint has been prepared in a complete range of colours (including the dark shades). Two finishes—eggshell and matt—make it suitable for general application.

Whether you've used Emulsion Paints before or not, we invite you to try Lansdowne Emulsion Paint on any clean surface you like—even pitch, creosote or new plaster. The excellent results will speak for themselves.

Hospital Ward



Ward repainted with minimum disturbance to hospital routine. Patients all back the day after—no paint odour, and a hygienic surface that can be scrubbed.

New Interior



New plaster painted as soon as dry. No danger of patches; moisture dries out through the paint film. 3-in. or 6-in. brushes can be used, with the minimum of brushing.

Kitchen



Less condensation on kitchen walls. Lansdowne Emulsion Paint resists oil and fat. Completely painted (two coats) in one morning. Food untainted by paint odour.

Cinema



'Mass attack' on interior after last house. Working through the night, all completed by midday. No smell, no "wet paint" signs. Programmes uninterrupted.

Dairy



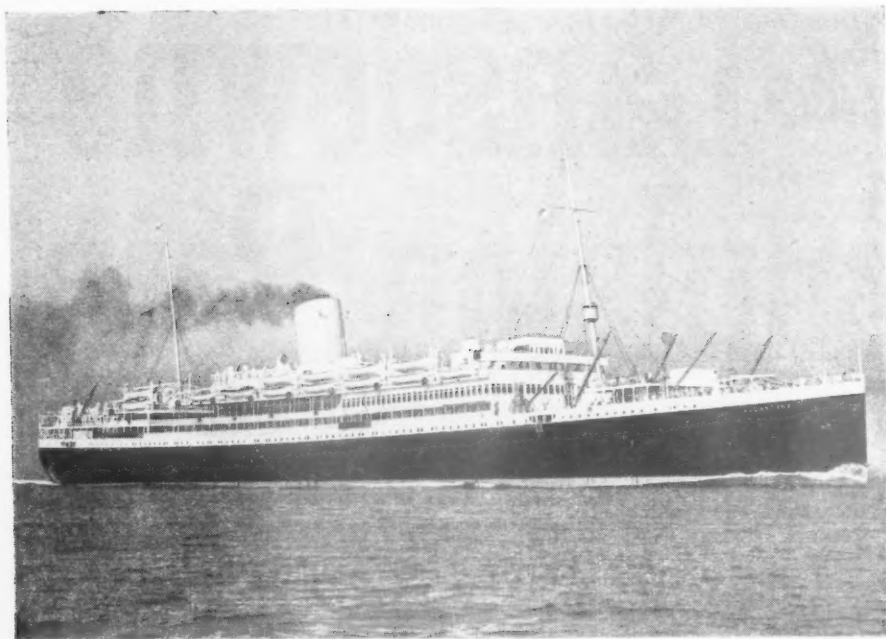
Hard power-washing doesn't affect Lansdowne Emulsion Paint. Tough surface stands up to rough treatment. Paint is its own sealer.

WRITE OR PHONE FOR A SAMPLE TIN, SHADE CARD AND PRICES

HIGH GLOSS PAINTS • UNDERCOATINGS
 FINE ENAMELS • SYNTHETIC ENAMELS
 WASHABLE DISTEMPERS • WALL FINISHES
 ANTI-CORROSION PAINTS • VARNISHES
 IMPLEMENT PAINTS • TRACTOR PAINTS
 RED OXIDE PAINTS • BITUMINOUS PAINTS
 METALLIC PAINTS • ALUMINIUM PAINTS
 STOVING ENAMELS • PRIMING PAINTS
 INDUSTRIAL FINISHES

Lansdowne . . . a good name for service in paint

LANSDOWNE PAINTS, LANSDOWNE WORKS, BARNET, HERTS. (BARNET 3640 & 2418)



ALTRO
SAFETY TREADS

"ALTRO"

SAFETY TREADS ON PUBLIC TRANSPORT

*London and other City 'Buses, Railway
Rolling Stock, Air Lines and now Shipping*

"Altro" Safety Treads, long known for domestic and industrial use on wooden, steel and concrete stairs, have now proved themselves to stand up to the rigid requirements of all types of Public Transport—even on ships where they have to withstand continual exposure to the elements and salt water. These pictures show them in use on the s.s. "ALCANTARA" (Royal Mail Lines).

"Altro" Safety Treads are light but strong, long wearing and exceptionally non-slip due to the incorporation of jewel-hard "Altro" abrasive grain. They are non-porous, with no ridges or hollows to collect the dirt or to encourage vegetable growth.



Supplied in white, black and eight other colours to line in with all decorative schemes. They are easy to fit by sticking or screwing down. Write to me for our Bulletin No. 1 and samples.

Cecil Kahn



THE ADAMITE COMPANY LTD., MANFIELD HOUSE, STRAND, LONDON, W.C.2 TEL. Bar 6233 6

DRAINLAYER (continued)

Tonnage Allowances:—

Orders up to 2 tons nett.

	4"	6"	9"
*Bends (short radius) as Fig. No. 4 each	6/3	13/-	40/-
*Single junctions as Fig. No. 18 ..	11/-	22/6	69/-
*Intercepting traps as Fig. No. 33 ..	30/-	50/-	123/-
*Gullies ordinary trapped "P" ..	14/6		
*Extra for 4" vertical back inlet ..	4/3		
*Grease gully trap ..	121/-		

* These prices are subject to 12½% plusage.

Channels in Brown Glazed Ware.

Standard list + same discounts as "Best" quality salt-glazed Stone-ware pipes.

White Glazed Channels

Orders under £30, makers list value. Standard list + 10%.

Manhole covers and frames

	Size of load	Unit price
C.I. coated double triangular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade A ..	35 tons	175/5
C.I. coated circular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade B.	5 tons	93/5
	Size of load	Single seal Flat type Double seal Flat type
Coated manhole cover and frame to B.S. 497, Grade C, 24" × 18" each	1 ton	32/- 45/8
Galvanised ditto, 24" × 18" each	1 ton	57/6 80/9
Coated manhole cover and frame, to B.S. 497, Grade C, 24" × 24" each	1 ton	48/11 73/-
Galvanised ditto, 24" × 24" each	1 ton	89/2 126/6

MASON

Yorkstone

Building quality Robin Hood and Woodkirk Blue Stone.

Blocks scrapped, random sizes ..	per foot cube	11/4
Add for blocks to dimension sizes ..	"	1/4 (each dimension)
Templates with sawn beds, edges rough (up to 4 ft. super and not over 2' 6" long) ..	"	12/8
Templates with sawn beds, sawn one edge, ..	"	14/8
Price f.o.r. Yorkshire, railway rate to London Station per ton. (Minimum 4-ton loads) ..	"	57/2

Bath stone in random blocks

Monk's Park ..	per foot cube	6/8
St. Aldhelm Box Ground ..	"	7/8
Delivered on rail at South Lambeth station.		

Portland stone in random blocks, average 20 feet cube

Whitbed ..	per foot cube	7/5
Delivered on rail at Nine Elms Station.		

Artificial Stone to B.S. 1217

4½" × 4" Sill, sunk, weathered, throated and grooved ..	per foot run	3/-
9" × 3" Ditto ..	"	4/6
2" × 12" Coping, weathered and twice throated ..	"	4/-
3" × 12" Ditto ..	"	6/-
5" × 12" Saddleback coping, twice throated ..	"	9/-
6" × 12" Ditto ..	"	10/-

SLATER, TILER AND ROOFER

Slates

£ s. d.

16" × 10" Best Bangor Slates to B.S. 680 ..	per 1,000 actual	50 9 3
20" × 10" Ditto ..	"	74 18 9

SLATER, TILER AND ROOFER (continued)

Tiles

Hand-made sandfaced 10½" × 6½" red roofing tiles	per 1,000	318/3
Machine-made sandfaced best red tiles with continuous nibs, 10½" × 6½" ..	"	286/3
Berkshire hand-made red Pantiles, 14½" × 10" ..	"	920/-
Bridgwater hand made red sandfaced pantiles, in 6 ton loads ..	"	813/-
Bridgwater hand made red sandfaced Double Roman tiles, in 6 ton loads ..	"	1091/6
Concrete plain tiles, 10½" × 6½" ..	"	159/-
Ditto interlocking tiles, 15" × 9" ..	"	490/-
Ditto Double Roman Tiles ..	"	800/-

Asbestos-cement

*6" corrugated sheets, grey .. per yard super 5/10

*Prices are for minimum two-ton loads, and are subject to 2½% discount.

Felt

Reinforced roofing felt to B.S. 747 ..	per yard sup.	1/8
Roofing felt (1-ply bitumen) to B.S. 747, Part I ..	"	1/6½
Bituminous hair felt to B.S. 747, Part II ..	"	2/9

CARPENTER AND JOINER

Wall boards

½" Imported Fibre board ..	5,000 to 15,000 sq. ft.	
(per 100 sq. ft.) ..		45/-
⅝" Imported Hardboard (per 100 sq. ft.) ..		47/6
⅝" Imported Hardboard (per 100 sq. ft.) ..		67/6
⅝" Semi compressed asbestos cement flat building sheets, grey ..	per yard super	2/8
* ¼" Ditto ..	"	3/7

*Prices are for orders of 2 tons and over. Subject to 5% trade discount.

Sundries

" Sisalkraft" standard grade ..	per yard sup.	-/11
" Sisalkraft" subsoil grade ..	"	-/6½
" Sisalation" single sided ..	"	1/11
" Sisalation" double sided ..	"	2/11
* Fibre glass Bitumen-bonded ..	"	1/11½

* Price is for orders value £5 and over.

Timber

Softwood for Carpentry (average price) ..	per std.	£95
Softwood for Joinery (ditto) ..	"	£105
Tongued and Grooved Softwood Flooring (ditto) ..	"	£105
*First Quality European Oak ..	per ft. cube	25/- to 40/-
*Teak ..	"	40/- to 80/-

* Prices vary considerably depending on specification.

Standard Panelled and Glazed Wood Doors to B.S. 459, Pt. I

Type 4	size 2' 6" × 6' 6" × 1½"	each	34/3
Type 2 × G	size 2' 6" × 6' 6" × 2"	"	41/6
Type 4 × G	size 2' 6" × 6' 6" × 2"	"	47/6

In lots of from 1 to 11 inclusive.

Wood Windows

N 26 V	size 1' 5¼" × 2' 6¼"	each	23/2
2 26 V	size 4' 0¼" × 2' 6¼"	"	46/4
N 40 V	size 1' 5¼" × 4' 0¼"	"	26/4
3 40 V	size 5' 11¼" × 4' 0¼"	"	81/11
4 40 V	size 7' 10¼" × 4' 0¼"	"	103/-

In lots of from 1 to 20 inclusive

Kitchen Units

No. 1	size 3' 6" × 2' 8" × 1' 7"	each	178/-
No. 2	size 3' 6" × 2' 8" × 1' 7"	"	123/5
No. 4	size 2' 8" × 1' 9" × 1' 7"	"	109/2
No. 5	size 3' 10" × 1' 9" × 1' 7"	"	94/10
No. 7	size 6' 6" × 1' 9" × 1' 7"	"	142/10

Prices include for tops and plinths.

In lots of from 1 to 15 inclusive.

Coats off to Lloyd Insulation



Architects: Harry W. Weedon, F.R.I.B.A. & Partners, Birmingham 15.

The Triumph motorcycle factory at Coventry was built in 1942 to replace, in the shortest possible time, an existing factory which was destroyed by enemy action. Lining material and new boilers were unobtainable at the time and after the war the factory grew too large for its heating plant. In addition to the boiler house at full capacity, sixteen coke stoves, about a dozen two-kilowatt fires were needed—and even then people had to wear overcoats on occasions to keep warm.

Heat was being poured into the place and it poured out again—through the 100,000 square feet of single-skin corrugated asbestos roof. Then it was decided to line the whole roof with $\frac{1}{2}$ in. Lloyd Insulation Board, fixed by the Lloyd Talon System. The job was finished in eight weeks—four weeks under schedule. Triumph have thrown out the sixteen stoves, all the heaters, no-one needs an overcoat, everyone is comfortably warm. The same boiler plant which could not previously cope with the main shops now heats them easily. But that is not all—it now heats 31,000 square feet of offices, laboratories, stores and assembly bays as well, which, need we add, also have Lloyd Insulated roofs.

When it's a matter of keeping warm and saving fuel — have a word with

BOWATERS BUILDING BOARDS LIMITED

BOWATER HOUSE, STRATTON ST., LONDON, W.1. Tel: GROsvenor 4161



STEEL AND IRONWORKER

Basis price for rolled steel joist sections, £ s. d.
in 10 ft. to 50 ft. lengths ... ex mills per ton 29 10 6

Extra for sizes :—					
9" x 7"	...	...	...	...	5 0
3½" x 3½", 5" x 4½", 6" x 4½", 10" x 8", 12"	...	...	...	...	10 0
18" x 7", 18" x 8", 20" x 6½", 20" x 7½"	...	...	...	...	15 0
10" x 4½", 12" x 5"	...	...	...	...	1 0 0
4" x 2½", 5" x 3", 22" x 7", 4½" x 4½"	...	...	...	...	1 5 0
3" x 3", 4" x 3", 5" x 2½"	...	...	...	...	1 10 0
4" x 4", 6" x 3"	...	...	...	...	2 0 0
4½" x 1½", 24" x 7½"	...	...	...	...	3 0 0
4" x 1½"	...	...	...	...	3 10 0
3" x 1½"	...	...	...	...	29 9 6
Basis price for angles ... ex mills per ton	...	...	...	...	29 9 6
" " " tees	...	...	...	...	31 9 6
" " " solid steel columns	...	...	...	...

All delivered Station or Siding.

PLASTERER

Plaster and Cement

	1-ton loads	6-ton loads
Thistle (browning) to B.S.1191, Class B per ton	149/9	126/3
Gypstone to B.S.1191, Class B	101/-	
Paristone (haired) to B.S.1191, Class B	103/6	ex Works,
Ditto (unhaired)	101/-	Kent.
Sirapite (coarse) to B.S.1191, Class C	146/3	12/9
Ditto (fine) to B.S.1191, Class C	154/3	130/9
Keene's Pink to B.S.1191, Class D	195/3	
Keene's White to B.S.1191, Class D	200/9	
Cullamix (Tyrolean Finish), 1-ton lots and upwards	per ton from 180/9	to 214/3

Sundries

Sharp washed sand to B.S.1198	...	...	per yard cube	20/10
Cow Hair	...	...	per cwt	97/6
Expanded metal lathing, 9" 0" x 2' 0" x 3/8"	...	...	per yd. sup.	2/6½
mesh x 24 gauge	25 to 149	150-299	300-599	Over 600
yards	2/9	2/5	2/4	2/3
¾" Plasterboard (base board)	per yard super	2/9		
¾" Insulating wallboard,	per yard super	3/7	3/5	3/3
Galvanized lath nails 14 G	...	...	per cwt.	114/5
Hessian Scrim cloth in 100-yard rolls,	3½" wide	...	per roll	7/9

Wall Tiles

The following prices are subject to 17½ per cent. addition :—	
Standard quality white glazed 6" x 6" x 3/8"	per yard super 18/6
Cream glazed 6" x 6" x 3/8"	" 20/6
Eggshell or glossy glazed 6" x 6" x 3/8"	" 26/3

PLUMBER

Lead and Copper

3½ lb. and upwards milled sheet lead in quantities of 5 cwt. to under 1 ton in sheets to B.S.1178	per cwt.	125/6
Hot rolled copper sheeting in 1-ton lots (4' x 2' sheets), to B.S.899	23 wire gauge, per ton	360 15 0
Ditto	24 wire gauge, "	364 5 0
Zinc sheeting in 1-ton lots	14 gauge	107 10 0

Cast Iron Goods

Percentage Adjustment on List No. 3200 A.B. 1/5/52.

Rainwater Goods (painted or unpainted)	Plus 7½%
Soil goods (coated or uncoated)	Plus 7½%

Mild Steel Rainwater Goods

	Standard List
Gutters (under 100 lengths)	Less 22½%
Pipes and Fittings (" ")	Less 22½%

Asbestos-Cement Rainwater Goods

The following prices are subject to 12½% trade discount.
Orders over £30 are subject to 17½% trade discount.

Rainwater Pipes.

	2"	2½"	3"	4"	6"
2' 0" lengths	3/2	3/7	4/3	5/10	12/- each
3' 0" "	4/3	4/10	5/8	7/11	16/2 "
4' 0" "	5/5	5/11	6/10	9/7	19/11 "
6' 0" "	6/3	7/1	8/5	11/8	24/- "
8' 0" "	8/4	9/5	11/3	15/7	32/- "
10' 0" "	10/6	11/10	14/-	19/4	40/- "

PLUMBER (continued)

Gutters.

Short lengths of gutter up to 2' 0" charged as 1 yard; from 2' 0" to 4' 0" as 1½ yards, and over 4' 0" as 2 yards.
Half round gutters 3" 4" 4½" 5" 6" 8"
per yard run 2/3 2/8 2/9 3/3 4/7 5/8

INTERNAL PLUMBER

Lead pipe (basis, weights) in coils 5 cwt. to under 1 ton, up to 4" bore to B.S.602	...	per cwt.	126/9
Light lead pipe ditto	...	per cwt.	128/3
Drawn lead traps with brass screw eye, to B.S.504	1" 6 lb. 1½" 6 lb. 1½" 6 lb. 2" 7 lb.		
S. trap 1½" seal	each 5/9	6/4	7/7 12/10
P. trap 1½" seal	" 4/6	4/11	6/2 10/3
Extra for 3" deep seal "S" trap	" 1/3	1/3	1/5 1/10
Extra for 3" deep seal "P" trap	" -7	-7	1/- 1/-

Screwed and Socketed Steel Tubes and Fittings for Gas, Water and Steam, etc.

Fittings and tubes ordered in long random lengths are subject to the following trade discounts :—

Tubes :	¾" to 4"	Fittings :	
Class B	184%	Lightweight	plus 3½%
" C	61%	Heavyweight	plus 11%
Galvanized Class B	plus 1%	Galvanized :	
" C	plus 17½%	Lightweight	plus 15½%
Galvanized malleable fittings		Heavyweight	plus 23½%
Less 46½% plus 35%			
Copper tubing to B.S. 659 and 1386.	Basic price per lb.		2/7½

GLAZIER

Sheet Glass, cut to size (ordinary glazing quality), to B.S.952, Section A	
18 oz.	per foot super -5½
24 oz.	" -7½
32 oz.	" 1/-

Polished Plate Glass, ordinary substance, approximately ¼", to B.S.952, Section A.

In plates not exceeding :	Glazing quality	Selected glazing	Silvering quality
2 ft. super	per foot super 3/7	4/3	5/1
5 ft. super	" 4/5	5/2	6/2
*45 ft. super	" 5/1	5/9	6/11
*100 ft. super	" 5/6	6/9	8/10

* Extra sizes, i.e., plates exceeding 100 ft. super or 160 in. wide, or 96 in. long, at higher prices.

¾" figured rolled and cathedral, to B.S.952, Section B—standard patterns, white	per foot super	-9
¾" or 1" rolled plate, patterns, white	"	-11
¾" or 1" rough cast, patterns, white	"	-11
¾" Georgian wired cast, patterns, white, Section D	"	1/1½
¾" Georgian wired polished plate, Section D	"	4/10
¾" wired cast	"	1/1

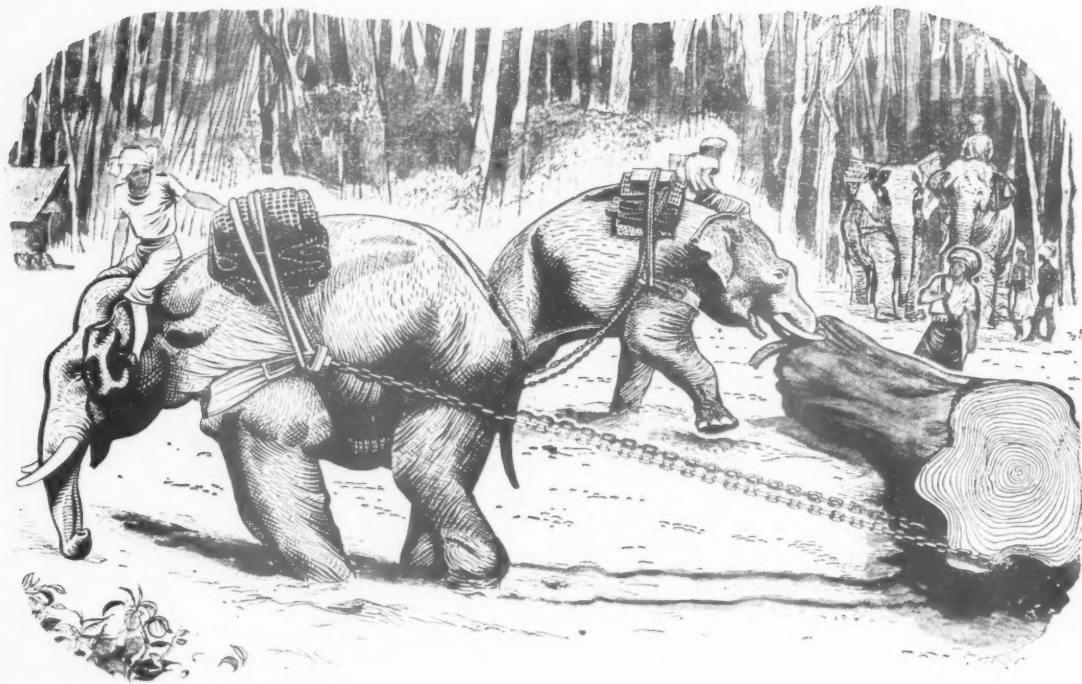
Attention is drawn to reductions in certain glass prices offered by manufacturers for acceptance of specified minimum quantities of one size and substance delivered to one address at one time.

PAINTER

White ceiling distemper	per cwt.	29/-
Washable distemper	per cwt. from	112/-
Primer, general purpose	per gallon	33/6
Ready mixed white lead paint	"	60/-
Flat oil paint	"	41/-
Emulsion paint	"	44/-
Hard gloss paint :		
Undercoat	"	42/-
Finishing	"	46/-
White Portland cement paint	per cwt.	71/-

P. W. Davis

F.R.I.C.S., F.I.Arb.



Gold, diamonds and TEAK

Nature usually sees to it that man's struggles to wrest her rarest treasures are in proportion to the qualities of the treasure. The search for yellow specks in the soil goes on in the most uncomfortable places because there is no substitute for gold. The mighty efforts of man and beast to extract rare Teak trees from remote Asiatic forests continues for no less reason and to more purpose. Discerning and practical men the world over know that there's nothing like Teak for woodwork that must resist attack from water, wind, chemicals, insects and high temperature, for centuries if necessary.

Of course, it's dearer than most timbers; but it is good value. Morris can tell you all about Burma and Siam Teak and supply most building trade specifications from stock.

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*Other hardwood specialities stocked
by Morris include Mahogany, Iroko
and Wainscot Oak.*

RAVENSDALE WHARF, STAMFORD HILL, LONDON, N.16.

Tel: Stamford Hill 6611 (6 lines)

THE ADVANTAGES OF PRESSED STEEL RADIATORS

As a result of a recent price reduction, pressed steel radiators are now cheaper than cast iron radiators. According to a manufacturer interviewed recently by a representative of the JOURNAL, if their use in this country were more widespread and if manufacturers were granted a steel allocation large enough to cope with increased orders, it would be possible for the price to be reduced to roughly 20 per cent. below that of cast iron, for the factory where most British-made pressed steel radiators are made has ample capacity. At this factory the radiators are made, mainly by semi-skilled labour, on a highly mechanized system developed by the Aga Company of Stockholm.

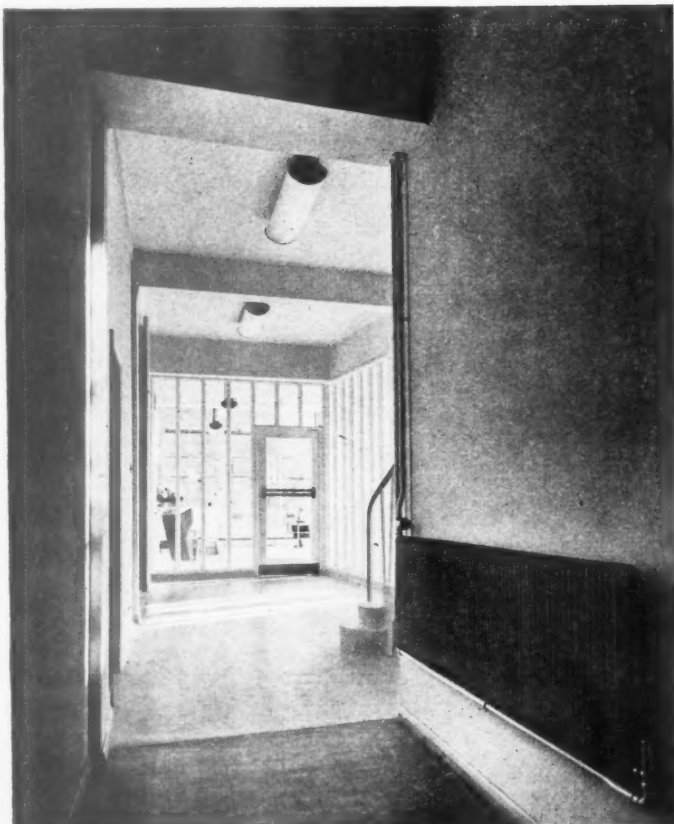
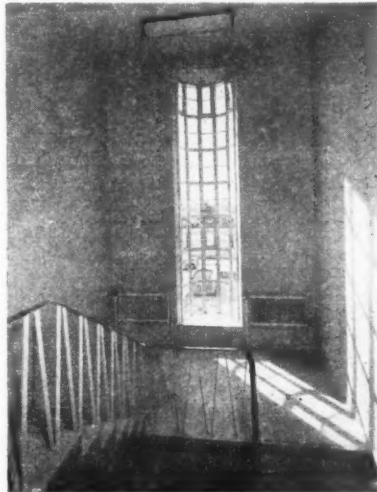
The JOURNAL'S representative was told that in Sweden, and in several other countries on the Continent, pressed steel radiators are rapidly winning the market from cast iron. This should not be surprising as they have three distinct and important advantages: firstly, they are lighter than cast iron, which saves transport and installation costs; secondly, they are not brittle and, therefore, are less liable to damage; thirdly, and important from the national point of view, for the same heat output they require far less metal.

The life of a steel radiator is equivalent to that of cast iron, when fitted to central heating circuits or domestic installations with indirect cylinders for the hot water supply. The practice of fitting radiators on to the same circuit as the domestic hot water supply is never good, as it brings air into the circuit and leads to the furring

of the radiators, the pipes and the boiler. Sample sections taken from pressed steel radiators installed over 20 years ago show that no deterioration had taken place.

The illustrations show pressed steel radiators* installed in the recently completed offices for Johnson & Johnson Ltd. on the Slough Trading Estate (for photo of exterior see JOURNAL for February 12, p. 213). Architects: J. C. Richardson and W. David Hartley; consulting engineers, G. H. Buckle & Partners; heating engineers, Z. D. Berry & Sons Ltd.

* Manufactured by Steel Radiators Ltd.



QUESTIONS & ANSWERS

This feature answers any question connected with building confidentially and free of charge. Questions to the Technical Editor, The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1.

3068 JAMB DETAILS

Q Enclosed is a sketch of my proposed jamb details: type "a," 11 ft. long, is cast in situ; type "b," 5 ft. long, pre-cast, if possible. My reinforcing is only nominal and placed on the centre line of the jamb to give at least 1-in. cover to it.

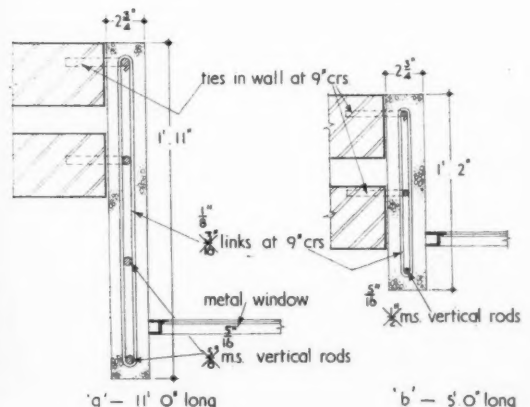
I should like to know if this is the best design or whether small rods, say $\frac{1}{8}$ in. diameter, placed nearer the edges and without links, would be more sensible.

The jambs will be made in concrete, with a stone aggregate finish, cast in situ. The windows are steel. The precast type could be cast in two lengths if you advise this.

A There is a fashion at the moment for precast concrete jambs to window openings, but they have a number of disadvantages. To start with, it is almost impossible with a long thin unit, such as this, to obtain a tight joint with the walls. You very rightly show some ties which, presumably, are left projecting from the jamb units but, during the erection of the walls, the jambs must be raised and strutted in position, and they will "wave" in the wind until the walls are built up. A mortar joint at the junction with the wall is almost certain to break during erection. The only reason for using reinforcement is to enable the long units to be handled, and the use of a central rod has the advantage that it has more concrete cover and is, therefore, less likely to produce rust stains on the outside of the unit. This would be a question for the manufacturers of the unit.

You certainly do not need $\frac{1}{8}$ -in. or $\frac{3}{16}$ -in. rods; $\frac{1}{4}$ -in. rods, with $\frac{1}{2}$ -in. links, would be quite big enough. This, however, would also be a question for the manufacturers of the units.

Your difficulties would be magnified by making the units in two lengths.



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**DOORS • COUNTERS
AND TABLE TOPS
CUBICLE UNITS
REFRIGERATORS**

*Metal
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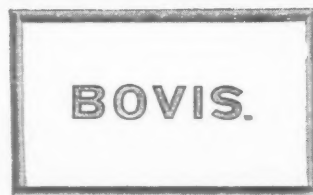
What is
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about this
building?



Architects: Lewis and Hickey, F.R.A.R.I.B.A.

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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.

14.59 materials: concrete

QUALITY IN CONCRETE

Quality Concrete. (The Concrete Association of India, dated 1951, received in Great Britain, Feb., 1953. Price, Rs.7.)

This book is a good study of its subject. There is more on manufacture and testing of cement than most architects would need, but some of the information on aggregates and the chapters on proportioning and field control of concrete are very useful and contain, among other information, an unusually good description of plant for carrying and placing concrete. A useful book. 200 pp., well illustrated.

15.109 applied finishes and treatments

PAINTING

The Painting of Old Buildings. 1. *Exterior Works.* J. G. E. Holloway. (Building Digest. March, 1953.)

Six-page general article on exterior painting. Sound information from good practical viewpoint but without any new ideas. Illustrated, but with general views which do not help the article.

16.97 materials: miscellaneous

REPAIRS AND MAINTENANCE

Questions and Answers. BRS Digest No. 51. (HMSO. Feb., 1953. 3d.)

This Digest departs from recent practice, which has been to write a note summarizing up-to-date information on single subjects. It consists of a selection of answers to some recent enquiries received by BRS. It covers cleaning and minor repair of buildings, failures of roof tiles and mortar jointing, failure of a lime plaster ceiling and a question on sound-proofing an existing party wall.

16.98 materials: miscellaneous

SANDSTONE IN SCOTLAND

Survey of Building in Sandstone in Scotland. National Building Studies Special Report No. 20. (HMSO. 1953. 1s. 6d.)

A variety of conditions, including better transport, has resulted in a serious reduction of stone building in Scotland. This survey examines the reasons for this and then, in great detail, analyses the present situation.

The survey shows that a house with stone external walling costs from £300 to £750 more than one with rendered brickwork, according to the type of stonework and whether the house is in north or south Scotland. A careful investigation showed that

this difference in cost might be reduced to £155 to £300, if the sandstone industry could be re-organized. The savings would be due mainly to standardization of stonework and improved mechanization at the quarries but, since the estimated savings could only be achieved if production could be concentrated, it would mean reducing the number of quarries from the present eight down to three. The outlook for sandstone building and for the craft of masonry in Scotland looks grim.

17.91 construction: general

STABILIZED EARTH ROADS

Soil-Cement Roads. K. E. Clare and J. S. Tanner. (Reprint of paper at Public Works and Municipal Services Congress. 1952.)

Short and simple paper by two officers of Roads Research Laboratory. The information might well be used by architects who wish to economise on roadwork; for example, on housing estates, or on access roads to schools, etc.

18.123 construction: theory

DESIGN LOADS

Live Loads on Floors in Buildings. National Bureau of Standard Building. Report No. 133. (Office of Scientific Publications. Washington D.C. 1952. 20 cents.)

Information on live loads experienced in American buildings. 27 pp.

This report contains 24 tables which record live loads as measured during a survey of buildings performing their normal functions. Residential occupancy normally covered by 30 or 40 lb./sq. ft. proved to have a maximum furniture load of 7.3 lb./sq. ft. rising to 10.6 in a room used as a library. Business occupancy covered by 50 to 80 lb./sq. ft. had a very wide range. In several buildings the employees were included and generally 70-80 per cent. of the floor space was loaded to only 16 lb./sq. ft., but about 0.5 per cent. of the space was loaded to more than 80 lb./sq. ft.

The problem of deciding on a definite loading is certainly very difficult, especially where flexibility is required, and the report admits that as yet sufficient detail is not available to recommend reductions of existing code values. Various reduction formulae are suggested, generally more favourable than in our own codes.

23.172 heating and ventilation

OIL FIRING

Oil Burning Equipment. BS 799:1953. (British Standards Institution. 10s.)

Revision of 1938 BS now extended to include semi-automatic as well as fully-automatic equipment. Applies to equipment for boilers, heaters, furnaces, ovens and other similar plant, but not to marine or mobile installations. Much of interest, primarily to heating engineers, but part, such as storage tank requirements, of special interest to architects.

23.173 heating and ventilation

WARM AIR FLOOR HEATING

Can "Ductubing" be an Acquisition to the Heating Engineer? (Journal of IHVE. Feb., 1953. pp. 373-375.)

A combination of floor heating with warm air.

New methods of house heating are sufficiently rare to call for comment. This system, which is reported to have been used

in Sweden, has recently been used in a house at Reading. It is essentially a combination of floor heating with warm air. A furnace provides heated air which is passed through ducts in the concrete floor slab and thence through controllable outlets into the house. The ducts in the slab are 3-in. diameter at 12-in. centres. They are formed by the use of "Ductubes" which are used in pre-stressed concrete work. Rubber tubes are inflated, the concrete poured round them, and they are deflated and withdrawn when the concrete has set.

ENQUIRY FORM

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

Please ask manufacturers to send further particulars to:—

NAME

PROFESSION or TRADE

ADDRESS

AJ 30.4.53

INFORMATION CENTRE INDEX FOR 1952

An alphabetical index covering Information Centre items and special articles published in the Technical Section during the twelve months ended December 31, 1952, is being prepared. Readers who wish to have a copy—it is free of charge—should complete the form below and post it to the Technical Editor, THE ARCHITECTS' JOURNAL, not later than May 15, 1953.

Please send me the Information Centre Index for 1952:

Name

(Block letters)

Address

(Block letters)

A.J.30.4.53

Buildings Illustrated

House at 28, Ellerdale Road, Hampstead, London, N.W.3. (Pages 550-551.) Architect: A. V. Pilley, F.R.I.B.A., M.S.I.A. General contractor: Collins & Prior Ltd.; Sub-contractors: Bricks, Dunbrik Ltd.; artificial stone, Stuart's Granolithic Co. Ltd.; tiles, Leeds Fireclay Co. Ltd.; roofing felt, Durable Asphalt Co. Ltd.; partitions, Broad & Co. Ltd.; woodblock flooring, Campbell Marson & Co. Ltd.; Accotile flooring, Armstrong Cork Co. Ltd.; waterproofing materials, Kerner-Greenwood & Co. Ltd.; gas boilers, Ideal Boilers & Radiators Ltd.; electric wiring and bells, George Buckingham; electric light fixtures, Troughton & Young Ltd.; Merchant Adventurers of London Ltd.; Klint paper shades; ventilation, Colt Ventilation Ltd.; plumbing, W. H. Winwood & Co.; sanitary fittings, Alfred Goslett & Co. Ltd.; door furniture, Lacroin Products Ltd.; casements, hardwood (Keruing), Messrs. C. Jay Cole & F. A. Cole; window furniture, J. D. Beardmore & Co. Ltd.; plaster, General Plasterers Ltd.; external decorative plaster, Callow & Kerpich; metalwork, C. Hall (Metalworks) Ltd.; stair treads, joinery, Messrs. C. Jay Cole & F. A. Cole; stone paving, Noelite Ltd.; tiling, Modern Tile & Floor Co. Ltd.; textiles, David Whitehead Ltd., Afia Ltd.; wallpapers, Arthur Sanderson & Sons Ltd.; furniture, Heal & Son Ltd.; shrubs and trees, J. Beattie; clocks, Smiths Ltd.

Borough Polytechnic, Ontario Street, London, S.E.1. (Pages 554-557.) Architects and Consulting Engineers: Norman & Dawbarn. Assistants-in-charge: John Moreton, A.R.I.B.A., and Peter Clarke, A.R.I.B.A. Consulting Structural Engineers: Travers Morgan & Partners. Quantity Surveyors: William C. Inman & Partners. 16-in. scale model made by McCutcheon Studio. General Contractors: Humphreys Ltd. Sub-contractors: Heating, ventilation and hot

and cold water, steam and gas services, Young, Austen & Young Ltd.; electric installation, Rashleigh Phipps & Co. Ltd.; staircase balustrades and fencing, Universal Metal Furring & Lathing Co. Ltd.; lifts installation, Shorts (Lifts) Ltd.; passenger lift car, Frederick Sage & Co. Ltd.; concrete hardeners, Prodorite Ltd.; steel furniture lockers, Rubery Owen & Co. Ltd.; aluminium cladding to bridge, Frederick Braby & Co. Ltd.; built-up roofing, Neuchatel Asphalt Co. Ltd.; metal windows and main entrance doors, Williams & Williams Ltd.; bridge construction, The Aston Construction Co. Ltd.; sanitary fittings, Associated Clay Industries Ltd.; tiling, A. Bleakley & Co.; door furniture, Lockerbie & Wilkinson (Birmingham) Ltd.; lavatory partitions, Venesta Ltd.; bakery and laboratory fitted furniture, George M. Hammer & Co. Ltd.; glazing, James Clark & Eaton Ltd.; cold water storage tank, Braithwaite & Co. (Structural) Ltd.; roller shutters, Fireproof Shutter & Door Co.; Urastone flues, Cellactite & British Uralite Ltd.; dry fire hydrant riser, Automatic Sprinkler Co. Ltd.; Carda windows, Holcon Ltd.; cold room plant, Light-foot Refrigeration Co. Ltd.; facing bricks, W. L. Jackson & Co. Ltd.; terrazzo floor and granolithic floor, Marriott & Price Ltd.; Semastic floor tiles, Horseley Smith & Co. (Hayes) Ltd.; Accotile flooring, Neuchatel Asphalt Co. Ltd.; Granwood tiles, The Granwood Flooring Co. Ltd.; paint, W. & J. Leigh & Co. Ltd.; paint, Sherwood Paints Ltd.; steelwork to entrance canopy, Daco Structures Ltd.; decoration, Decorative Specialists Ltd.; plasterwork, Greenslade Bros.; reinforcing steel, The Rom River Co. Ltd.; plumbing, Arthur Scull & Co. Ltd.; aggregate and sand, Horace A. Cunis Ltd.

Houses in Bedwell Crescent, Bedwell Neighbourhood, Stevenage New Town, Herts, for the Stevenage Development Corporation. (Pages 558-560.) Former Chief Architect: Clifford Holliday, M.Arch.,

F.R.I.B.A., M.T.P.I.; Deputy Chief Architect: Leonard G. Vincent, A.R.I.B.A., A.M.T.P.I., D.I.P.T.P.; Assistant Architects: O. Carey, A.R.I.B.A. (Group Leader), P. Halliwell, A.R.I.B.A., H. Blake, A.R.I.B.A. Clerk of Works: H. G. Byatt; General contractors: Carlton Contractors Ltd.; sub-contractors: facing bricks, Eastwoods Sales Ltd.; roof tiling, D. & A. McKnight Ltd.; special roofings, D. Anderson & Son Ltd.; glazing, E. A. Heatherington Ltd.; patent flooring, V.G. (London) Ltd.; metal door frames, Henry Hope & Sons Ltd.; metal window frames, The Crittall Manufacturing Co. Ltd.; fireplaces and boilers, Bratt Colbran Ltd.; electric wiring, Stevenage Electrical Engineering Co. Ltd.; plumbing, J. H. Shouksmith & Sons Ltd.; sanitary fittings, Samuel Gratix Ltd.; external doors, Rippers, Ltd.; internal doors, staircases, Austins of East Ham; door furniture, H. & C. Davis & Co. Ltd.; kitchen cabinets, John Sadd & Sons Ltd.; plaster, Johnson Davies Ltd.

Correction

The general contractors for the prefabricated timber school at Harold Hill, Romford, Essex, published on April 9, page 457 were Dowsett Engineering Co. Ltd. Thermo Insulated Units Ltd. were responsible only for the supply of prefabricated components.

Announcements

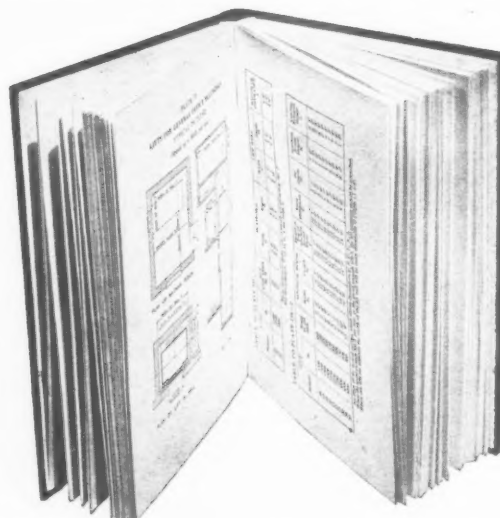
The RIBA examination in professional practice and practical experience was held in London and Edinburgh recently. Of the 224 candidates examined, 189 passed and 35 were relegated.

Will readers requiring information from advertisers per the Enquiry Service please make sure that the issues to which they refer do actually contain the advertisement mentioned.

MARRYAT-SCOTT LIFTS

'Lifts' A collation of British Legislation and official recommendations on Lift Design with notes on Lift Planning. This valuable reference is profusely illustrated with plans and photographs.

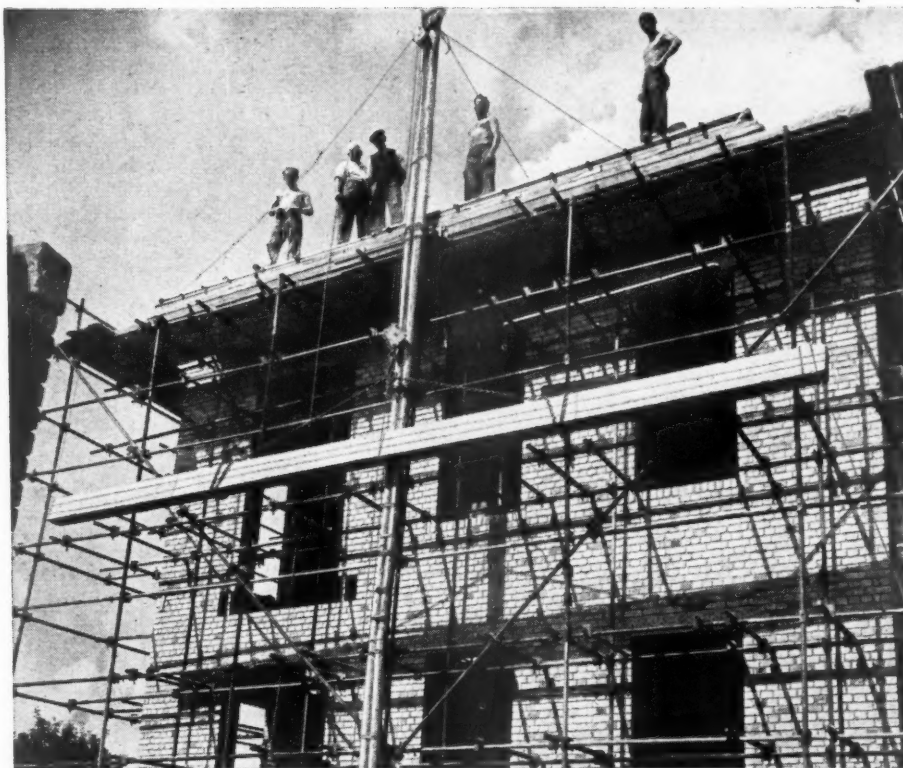
Available free on request to practising Architects from :—



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Wellington Works, Hounslow, Middlesex Telephone: Hounslow 6284 Telegrams: Marryat, London
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BRISTOL, 117/123 Redcliffe St. • BELFAST, 6/7 Queen St. • DUBLIN, 38, Dawson St. • GLASGOW, Moncur St.



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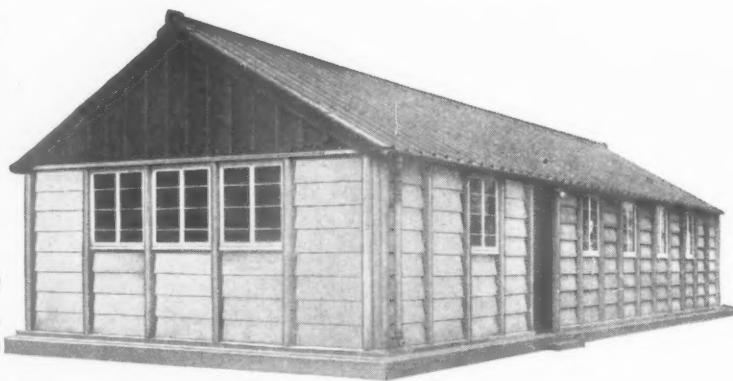
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Leicester 56682.

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The Atlas Stone Co. Ltd.,
Artillery House, Artillery Row, London, S.W.1.
Abbey 3081.

2AS/12

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LIST PRICE
£2.5.6
(per compartment)
(£9.2.0
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4 tier compartment
size approx. 16" high
12" wide 12" deep.

Also

Two-tier Lockers

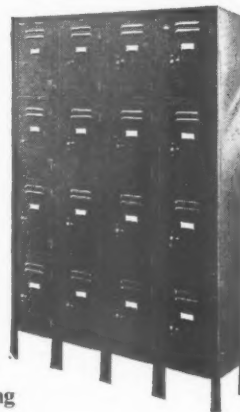
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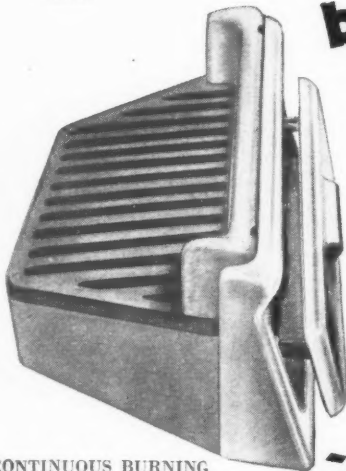
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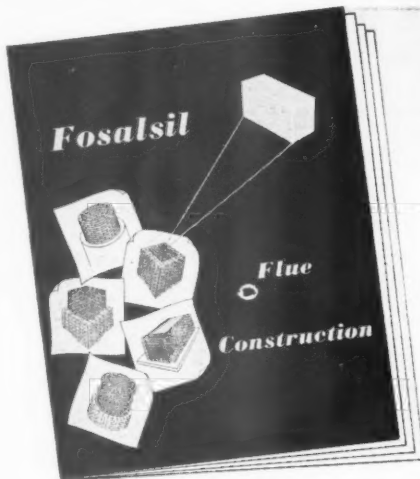
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THIS IS Le Corbusier's most important post-war book. It contains his succinct answers to many provocative questions put to him about contemporary planning problems and constitutes a reasoned discourse on town planning principles past and present and an affirmation of the world-famous architect's belief that, properly applied, this young science could transform the whole environment of mankind. The illustrations, many of full-page size, are by the author himself.

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The Home of Man: Written in collaboration with François de Pierrefeu. Translated by Clive Entwistle and Gordon Holt.

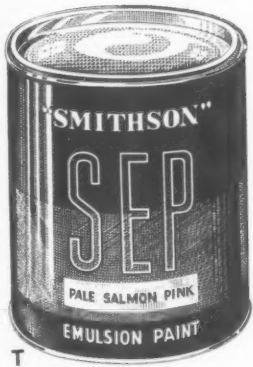
THE SECOND of Le Corbusier's post-war books to be published by the Architectural Press. François de Pierrefeu has for many years worked closely with Le Corbusier, participating in the researches of those French architects and scientists who have studied planning matters with him since the war. M. de Pierrefeu writes the introductory text, outlining the principles of planning the towns and homes of the new world to enable ordinary people to benefit fully from the rapid progress of applied science. Le Corbusier himself contributes the book's principal contents: his own inimitable drawings, accompanied by his personal commentary, which admirably illustrate and illuminate the theme. Bound in full cloth boards. Size 8 ins. by 5 $\frac{1}{2}$ ins. 156 pages, containing a large number of drawings by Le Corbusier. 10s. 6d. net. Postage 4d.

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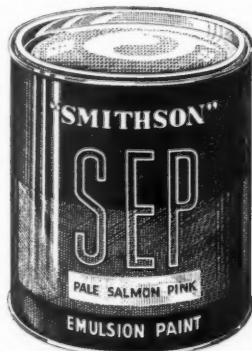
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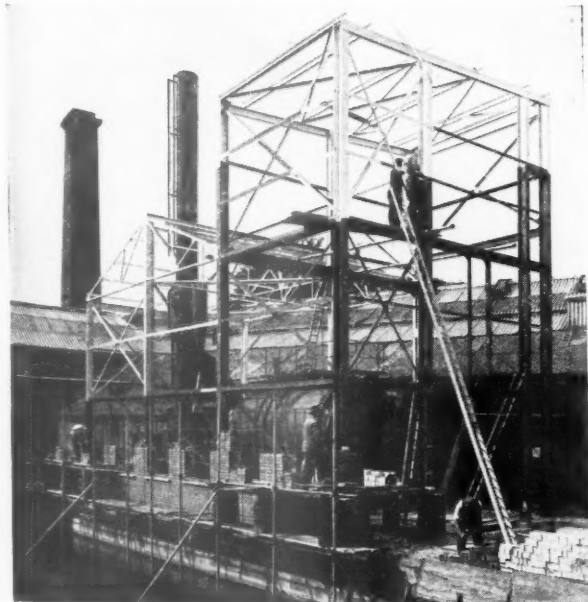
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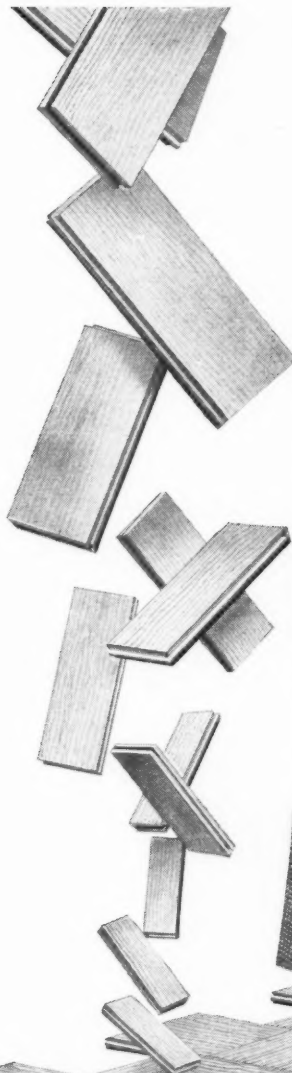


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CLASSIFIED ADVERTISEMENTS

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

BOROUGH OF EALING require TOWN PLANNING ASSISTANT, A.P.T., VI, £700-£765, including London weighting, N.J.C. service conditions. Superannuation. Candidates must have wide practical experience, knowledge of Town and Country Planning Act, 1947, and its regulations, and possess a recognised planning qualification. No housing accommodation. Canvassing disqualifies. Form of application, obtainable from Borough Surveyor, Town Hall, Ealing, W.5, should be returned to E. J. Cope-Brown, Town Clerk, Town Hall, Ealing, W.5, by 11th May, 1953. 8617

CANNOCK RURAL DISTRICT COUNCIL APPOINTMENT OF QUANTITY SURVEYING ASSISTANT (GRADE A.P.T., VI-VII) (£670-£785).

Applications are invited for the above appointment on the permanent staff of the Engineer and Surveyor of the Cannock Rural District Council.

Applicants for the post should be fully capable of taking off and preparing Bills of Quantities for housing schemes, measuring builders' works, and checking and agreeing interim and final accounts, and should preferably have passed the Final Examination of the R.I.C.S. (Quantities Sub-Division).

The appointment will be subject to one month's notice on either side, to the provisions of National Joint Council Conditions of Service, and the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

A travelling allowance in accordance with the National Joint Council Scale for casual users will be paid to the successful applicant for the post, who will be required to provide a car or motorcycle.

Applications, giving full particulars of age, qualifications, experience, etc., together with copies of two recent testimonials, should reach the undersigned not later than Monday, 4th May, 1953.

JOHN P. ROBERTS,

Clerk of the Council.

Council Offices, Penkridge, Stafford.

15th April, 1953. 8610

METROPOLITAN BOROUGH OF CAMBERWELL DEPARTMENT OF DIRECTOR OF HOUSING AND BOROUGH ARCHITECT.

(a) SENIOR ASSISTANT ARCHITECT. National Scales, Grade A.P.T., VIII (£790-£865, inclusive of £30 London weighting). Qualification: A.R.I.B.A.

(b) ASSISTANT ARCHITECTS, Grades A.P.T., VI (£700-£765 inclusive), or A.P.T., V/VI (£625-£765 inclusive), according to experience. Qualification: A.R.I.B.A.

(c) JUNIOR ARCHITECT. Grades A.P.T., III/IV (£555-£630 inclusive). Qualification: R.I.B.A. (Intermediate Examination or its equivalent, with a minimum of one year in an architectural office).

No housing provided. Local Superannuation Act. Application form from Town Clerk, Town Hall, Camberwell, S.E.5. Closing date: Wednesday, 13th May, 1953. 8626

CITY AND COUNTY OF THE CITY OF EXETER. Applications are invited for the appointment of SENIOR ASSISTANT ARCHITECTS on the permanent staff of the City Architect's Department. Salary: A.P.T., Grades V/VI (i.e., £595-£735 per annum).

Candidates should be Associate Members of the Royal Institute of British Architects, and should have had considerable experience in Local Authority housing and/or education work.

The appointments will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937. The successful applicants will be required to pass a medical examination.

Canvassing will disqualify, and candidates must disclose whether, to their knowledge, they are related to any member of the Council or to the holder of any senior office under the Council.

Applications, stating age, qualifications, previous and present appointments and salaries, full details of experience, and the earliest possible date when available, together with copies of recent testimonials, should be sent to H. B. Rowe, F.R.I.B.A., A.M.I.Struct.E., City Architect, Municipal Offices, Exeter, not later than the 11th May, 1953.

C. J. NEWMAN,

Town Clerk.

Exeter, April, 1953. 8651

COUNTY BOROUGH OF NEWPORT, MON.

Applications are invited at once for the permanent appointment of an ASSISTANT ARCHITECT, at a salary within the Grades V/VI/VII (£595-£785), according to experience and qualifications. Further information and conditions of appointment obtainable from Johnson Blackett, F.R.I.B.A., Borough Architect, Civic Centre, Newport, Mon., to whom applications should be addressed. 8662

CITY OF COVENTRY require ASSISTANT ARCHITECT, A.P.T., VIII (£760-£835). Application forms and particulars from City Architect and Planning Officer, Bull Yard, Coventry, to be returned by 18th May, 1953. 8663

HARLOW DEVELOPMENT CORPORATION. Applications are invited for the following positions:—

ASSISTANT ARCHITECTS (TWO). One post, salary £725×£25 to £825 per annum. One post, salary £625×£25 to £725 per annum. Candidates should be A.R.I.B.A. or equivalent.

JUNIOR ASSISTANT ARCHITECTS (FOUR). Three posts, salary £525×£25 to £625 per annum. One post, £475×£25 to £525 per annum. Candidates should have passed the Intermediate Examination of the R.I.B.A. or its equivalent and be working on to the Final Examination.

Applicants should be experienced in the preparation of working drawings and details for either factory buildings or house building works, including flats and Municipal buildings. Superannuation, Housing.

Detailed applications to the General Manager, Terlinges, Gilston, Harlow, Essex, by 14th May, 1953, in envelope endorsed with position for which candidate is applying. 8661

WESTERN AUSTRALIA. STATE PUBLIC SERVICE.

QUANTITY SURVEYORS (PERMANENT). Salary range: £1,055-£1,980 Australian currency (gross) per annum on present basic wage. Commencing salary in accordance with qualifications and experience.

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Accommodation: Will be arranged for single men, and rental house, which can be purchased if desired, provided for married men.

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Conditions of Service: Initial appointment will be to the permanent staff, subject to confirmation after 6 months' satisfactory service. Superannuation benefits, long service leave (three months after each seven years' service), and other conditions applying to permanent officers under the Public Service Act.

Applications, stating age, qualifications, experience, and marital status, should be addressed by 30th May, 1953, to:

THE SECRETARY,

Public Service Commissioner's Office,

60, Barrack Street, Perth, Western Australia. 8660

FIFE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ONE ASSISTANT ARCHITECT. Salary scale: £600, rising to £705 per annum.

(b) ONE ASSISTANT QUANTITY SURVEYOR. Salary scale: £600, rising to £740 per annum.

(c) ONE ASSISTANT QUANTITY SURVEYOR. Salary scale: £530, rising to £650 per annum.

(d) ONE JUNIOR QUANTITY SURVEYOR. Salary scale: £435, rising to £535 per annum.

(e) ONE SURVEYOR'S CLERK. Salary scale: £405, rising to £485 per annum.

Candidates for appointment (a) should be Qualified Architects, holding A.R.I.B.A. and Registered Architects. Previous local authority experience an advantage. Applicants for appointment (b) should have reached the stage of having sat the Final Examination, and applicants for (c) and (d) should have passed the Intermediate Examination of the Royal Institution of Chartered Surveyors, and all should have practical experience in the preparation of estimates and schedules of quantities, measuring up, and the adjustment of final accounts for all trades in connection with Schools and Housing (traditional and non-traditional). Applicants for appointment (e) should have experience in costing, preferably in a building contractor's office, and a sound knowledge of claims under the Variation in Price (Labour and Materials) Clause.

Successful applicants under 45 years of age will be considered for admission to the Council's Superannuation Scheme, subject to a satisfactory medical examination. Consideration may be given to meeting housing requirements.

Applications, stating age, experience, qualifications, etc., with copies of recent testimonials, to be lodged with the undersigned within ten days of the appearance of this advertisement.

MATTHEW POLLOCK,

County Clerk.

County Buildings, Cupar, Fife.

21st April, 1953. 8669

COUNTY COUNCIL OF INVERNESS.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT in the County Architect's Department. Salary: A.P.T. V. (£600-£650), with placing according to experience.

Candidates should be Associates of the Royal Institute of British Architects, and have had experience in the preparation of sketch plans and working drawings for housing, schools, and other local authority projects.

The appointment will be subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937, and the successful candidate will be required to pass a medical examination.

Applications, stating age, qualifications, experience and present position, accompanied by copies of not more than three recent testimonials, should be submitted to the undersigned within ten days of publication of this advertisement.

R. WALLACE,

County Clerk.

County Buildings, Inverness. 8659

LONDON COUNTY COUNCIL. QUALIFYING EXAMINATION FOR THE OFFICE OF DISTRICT SURVEYOR.

An examination for certificates of proficiency to perform the duties of District Surveyor will be conducted in London in the week commencing 19th October, 1953. The minimum age limit for candidates is 25.

Possession of this certificate is necessary for appointment to vacant positions District Surveyor (salary scales: £1,150 to £2,100 a year), or as Assistant District Surveyor (salary scale: £1,002 to £1,143 a year).

Subsequent examinations will be held annually.

Apply to The Architect to the Council (AR/ED/EBS), County Hall, Westminster Bridge, S.E.1, for application forms and further particulars. (429) 8658

BOROUGH OF DARTFORD. TEMPORARY JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Temporary Junior Architectural Assistant in the Borough Surveyor's Department. Salary to be in accordance with the National Joint Councils Scheme of Conditions of Service, Grade A.P.T. II. Applications, stating age, qualifications and experience of present and previous appointments, with copies of three recent testimonials, must be received by me not later than the 15th May, 1953.

THOMAS ARMSTRONG,

Town Clerk.

Council Offices, Dartford, Kent. 8652

COUNTY BOROUGH OF WALLASEY. PRINCIPAL ASSISTANT.

Applications, on forms obtainable from the Borough Architect, Town Hall, Wallasey, are invited by 15th May, 1953, for the above post in the Borough Architect's Department. Salary: Grade A.P.T., VIII (£760-£835). Housing accommodation not available.

A. G. HARRISON,

Town Clerk.

NATIONAL COAL BOARD—SOUTH-WESTERN DIVISION.

Applications are invited for the post of ARCHITECTURAL ASSISTANT, Grade I, in the Divisional Architect's Branch of the National Coal Board, South-Western Division, Cardiff.

The salary will be at the rate of £525×£25-£650, male, and £420×£20-£520, female. The post will be a temporary appointment in the first instance, for a minimum period of 12 months.

Applicants should have passed the Intermediate Examination of the Royal Institute of British Architects and have had at least 3 years' subsequent experience, and be able to prepare sketch plans, working drawings and details.

Applications, in writing, stating age, education, qualifications and details, present appointment and salary, and giving the names of two professional referees, should be submitted within 14 days of the date of publication of this advertisement to the Divisional Establishment Officer, National Coal Board, South-Western Division, Cambrian Buildings, Mount Stuart Square, Cardiff. 8683

ANGLESEY COUNTY COUNCIL. APPOINTMENT OF TECHNICAL ASSISTANT (ACCOUNTS).

Applications invited for the above post, Grade A.P.T., II-III (£495-£570), starting point according to qualifications. Applicants should have had general office experience and also of settling builders' accounts, site measurements, and agreeing prices.

The post is superannuable, and candidates will be required to undergo a medical examination.

Lodging allowance will be granted in suitable cases.

Applications, giving names and addresses of two referees, to be forwarded to the Clerk of the County Council, Shire Hall, Llangefni, by 11th May, 1953. 8674

CIVIL SERVICE COMMISSION. DUBLIN—POSITIONS VACANT.

ASSISTANT ARCHITECTS (ESTABLISHED) (FOUR) in the Office of Public Works. Salary scales (approximate): Man, £227-£293; woman, £250-£302 (higher initial salary in certain circumstances). Maximum age limit, 40 years, with extensions in certain cases. Further particulars obtainable from the Secretary, Civil Service Commission, 45, Upper O'Connell Street, Dublin.

Latest time for accepting completed application forms: 5 p.m., 22nd May, 1953. 8675

BIRMINGHAM REGIONAL HOSPITAL BOARD.

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

(1) **ASSISTANT ARCHITECT.**
Salary scale: £600×£225 (7)×£30 (3) to £865, according to age and experience. Applicants must be Registered Architects, having passed the requisite examinations. Experience of hospital planning and construction an advantage; sound knowledge of architectural details essential.

(2) **ARCHITECTURAL ASSISTANT.**
Salary scale: £440×£225 (1)×£20 (8) to £625, according to age and experience (maximum point of entry £525 p.a.). Candidates will give technical assistance to professional officers; Intermediate Examination R.I.B.A. or equivalent essential.

(3) **DRAUGHTSMAN.**
Salary scale: £360 (at age 21 and over)×£20 (4)×£25 (1)×£20 (4) to £545. Applicants must have had suitable training, including three years' technical experience in architectural or engineering drawing. Duties will include drawing work on instructions of architectural and engineering staff.

Candidates for (1) and (2) should have flair for contemporary design, including new methods of construction and interior decoration. Appointments superannuable. Write, naming three referees, to Secretary, 10, Augustus Road, Birmingham, 15, by 8th May, 1953. 8673

DERBYSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) **ASSISTANT ARCHITECT, A.P.T., Grade VI** (£670 to £735 per annum), in the General Section of the Department dealing with Police Houses, Fire Stations, Ambulance Stations, etc.

(b) **ASSISTANT ARCHITECT, A.P.T., Grade II** (£495 to £540 per annum), in the Section dealing with the maintenance, extension, and improvement of School Buildings.

Applications, to reach this office not later than 16th May, on forms to be obtained from F. Hamer Crossley, County Architect, St. Mary's Gate, Derby. 8671

BOROUGH OF WEMBLEY.

VACANCY FOR TECHNICAL ASSISTANT—BUILDING MAINTENANCE DIVISION.
A.P.T., GRADE V, £595 TO £645, PLUS LONDON "WEIGHTING" ALLOWANCE.

Applicants should be Associates of the R.I.C.S. or hold an equivalent qualification, possess a sound knowledge of building construction, and have had experience in maintenance work, including preparation of specifications, checking of accounts and supervision of works.

Applications, appropriately endorsed, must reach the Borough Engineer and Surveyor, Town Hall, Wembley, by 16th May, 1953. Names and addresses of three referees must be given, and any relationship to any member or senior officer of the Council disclosed. Canvassing disqualifies. The Council will be unable to provide the successful applicant with housing accommodation. 8688

STAFFORDSHIRE COUNTY COUNCIL.

COUNTY PLANNING AND DEVELOPMENT DEPARTMENT.

Applications are invited for the appointment of a full-time Temporary ASSISTANT, on A.P.T., Grade I-IV (£465-£600 p.a.), at the Headquarters Office of the above department at Stafford. The salary paid will depend on the qualifications and experience of the person appointed.

The person appointed will be engaged in preparing plans and documents required for the Survey of Rights of Way under the National Parks and Access to the Countryside Act, 1949. Applicants must be competent draughtsmen and able to deal with correspondence arising out of the Survey. A knowledge of Local Government organisation would be an advantage.

Canvassing, directly or indirectly, will be deemed a disqualification, and relationship to any member or senior officer of the County Council must be disclosed.

Applicants should give details of age, education, qualifications, present and previous appointments and experience, and should give the names of two persons to whom reference could be made. Applications should be sent to D. W. Riley, County Planning and Development Officer, 41, Eastgate Street, Stafford, not later than 12th May, 1953.

T. H. EVANS,

Clerk of the County Council. 8672

LONDON COUNTY COUNCIL.

ARCHITECTS' DEPARTMENT.

Applications are invited for TWO LECTURERS and Schools Divisions, (a) Grade II (£837 10s.—£1,002) (b) Grade III (up to £837 10s.). Application forms and particulars from Architect AR/KE/H & S/2, County Hall, S.E.1. Closing date 15th May. (399). 8645

THE UNIVERSITY OF MANCHESTER.

Applications are invited for TWO LECTURERS in TOWN AND COUNTRY PLANNING and a LECTURESHIP IN ARCHITECTURE. Applicants must have had appropriate practical experience. Salary on a scale of £500-£1,100 per annum, with membership of R.S.T.U., and children's allowance scheme. Initial salary according to qualifications and experience. Applications should be sent not later than 23rd May, 1953, to the Registrar, The University, Manchester, 13, from whom further particulars and forms of application may be obtained. 8680

URBAN DISTRICT COUNCIL OF CORBY.

APPOINTMENT OF JUNIOR ASSISTANT QUANTITY SURVEYOR.

Applications are invited from persons 22 years of age or over, and who have completed their National Service, for the appointment of Junior Assistant Quantity Surveyor. The post offers scope and facilities for the successful candidate to qualify as a Chartered Surveyor. Previous suitable experience associated with works of building erection is essential.

The salary offered is in accordance with Miscellaneous Division III (£375-£440 per annum) of the National Scale of Salaries, and housing accommodation will be made available to the successful candidate, if married.

The provisions of the Local Government Superannuation Act, 1937, will apply. Application forms, to be obtained from the undersigned, should be completed and submitted not later than noon on Tuesday, 12th May, 1953.

G. B. BLACKALL,

Clerk of the Council. 8670

Council Offices, Corby, Northants.

WARWICKSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the post of ASSISTANT ARCHITECT, A.P.T., VI, salary £670, rising, subject to satisfactory service, by two annual increments of £20 and one of £25 to £735 per annum. Applicants should be Associate Members of the Royal Institute of British Architects.

The post is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful Candidate will be required to pass a medical examination.

Application forms can be obtained from G. R. Barnsley, A.R.I.B.A., County Architect, Shire Hall, Warwick. 8695

L. EDGAR STEPHENS,

Clerk of the Council. 8695

Shire Hall, Warwick.

BRITISH ELECTRICITY AUTHORITY.

EAST MIDLANDS DIVISION.

Applications are invited for the following positions within the Division:—

CIVIL ENGINEERING DRAUGHTSMEN.
Construction Department, North Wilford. (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 offices and administrative buildings.

The salary will be in accordance with Grade V (£567-£671 per annum) or Grade VI (£433-£567 per annum) of Schedule D of the National Joint Board Agreement.

DRAUGHTSMAN. Transmission Department Divisional Headquarters, Nottingham. (Vacancy No. 42/53.)

Candidates should preferably have had experience in one or more of the following:—Design and construction of High Voltage Sub-stations or overhead Transmission Lines and underground cable systems. Civil Engineering, Electrical Engineering, including lay-outs and diagrams for H.V. Transformers and Switchgear.

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

(Closing date for this appointment will be the 14th May, 1953.)

ENGINEERING DRAUGHTSMEN (MECHANICAL). Construction Department, North Wilford. (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:—

(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.

(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 V (£567-£671 per annum) and Grade VI (£433-£567 per annum) of Schedule D, according to experience.

Closing date for this appointment will be the 14th May, 1953.

The above appointments 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 by the dates stated. Please quote Vacancy Number.

L. F. JEFFREY,

Divisional Controller. 8699

STUDIO ASSISTANT in School of Interior Design required, with some experience in architectural drawing. Typing an advantage. Salary between £300 and £400 p.a. Further details and application form from the Registrar, Royal College of Art, Exhibition Road, S.W.7 to whom applications should be returned by 11th May, 1953

COUNTY OF LEICESTER.

SENIOR ASSISTANT ARCHITECT, A.P.T., Grade VII/VIII. Salary: £710-£835. Must be Registered Architect, capable of carrying through large projects from inception to completion. N.J.C. Service Conditions. Medical examination necessary. Post pensionable. Consideration given to Registered Disabled Persons. Apply by 23rd May on forms obtainable from County Architect, 123, London Road, Leicester. 8694

COUNCIL OF THE COUNTY OF ABERDEEN.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the Department of the County Architect:—

TWO ASSISTANT ARCHITECTS, on salary scale A.P.T. VI (£675 to £740).

ONE ASSISTANT ARCHITECT, on salary scale A.P.T. IV Va (£550 to £690).

ONE ASSISTANT QUANTITY SURVEYOR, on salary scale A.P.T. VI (£675 to £740).

Candidates for the architectural appointments must be Registered Architects, preferably holding the qualification A.R.I.B.A., and should have experience in Local Authority educational work.

Candidates for the quantity surveying appointment should be professional members of the R.I.C.S. (Quantities Division).

The appointments are subject to the Local Government Superannuation (Scotland) Act, 1937, and the successful candidates will require to pass a medical examination.

Conditions of appointment and forms of application are obtainable from the undersigned, and should be returned not later than 21st May, 1953.

Canvassing of members of the Council, directly or indirectly, in connection with these appointments shall disqualify the candidate.

CHAS. HORAL,

County Clerk. 8692

County Buildings, 22, Union Terrace, Aberdeen.

23rd April, 1953.

CROWN AGENTS FOR THE COLONIES.

SENIOR ARCHITECT required by The Housing Trust, Federation of Malaya, for three years in the first instance. Salary: £2,100 to £2,800 a year inclusive, according to qualifications and experience. Gratuity at rate of £280 a year. Home superannuation rights may be preserved. Free passages, Liberal leave. Applicants must be A.R.I.B.A. and experienced in estate development, housing work, writing of specifications, preparation of working drawings and supervision of construction. Apply in writing to the Crown Agents, 4, Millbank, London, S.W.1, stating age, name in block letters, full qualifications and experience, and quoting M2B/29943/A.G. 8691

PETERLEE DEVELOPMENT CORPORATION.

CHIEF ARCHITECT'S DEPARTMENT.

Applications are invited for the following temporary appointments:—

(a) **JUNIOR QUANTITY SURVEYOR.** Salary: £585-£685.

(b) **JUNIOR QUANTITY SURVEYOR.** Salary: £510-£585.

(c) **JUNIOR ARCHITECTURAL ASSISTANT.** Salary: £435-£510.

Applicants for post (a) should be capable of abstracting, billing and measuring on site, and generally be up to the standard of the Intermediate Examination of the Royal Institute of Chartered Surveyors.

Applicants for post (b) should be capable of abstracting and billing, and generally be up to the standard of the First Examination of the Royal Institution of Chartered Surveyors.

Applicants for post (c) should be generally up to the standard of the Intermediate Examination of the Royal Institute of British Architects.

All appointments are superannuable and subject to the passing of a medical examination. They are governed by the Corporation's Staff Rules and Conditions of Service, and terminable by one month's notice in writing on either side. Housing accommodation may be made available where necessary.

Applications, giving particulars of age, experience, etc., together with the names of two referees, should be addressed to the undersigned not later than Friday, 15th May, 1953.

A. V. WILLIAMS,

General Manager. 8690

Shotton Hall, Castle Eden, Co. Durham.

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 18-59 inclusive unless he or she is, or the employment is excepted from the provisions of the Notification of Vacancies Order, 1952.

THE ADVERTISER, Box 3367, thanks the many applicants who wrote to him, and has to say that the appointment has now been made. 8685

ARCHITECTURAL ASSISTANT required for busy country practice, up to Inter. R.I.B.A. standard, with experience in preparing working drawings, details and specifications. Write stating age, training, experience, and salary required, to Edwin H. Earp & Badger, L.A.R.I.B.A., Scholars Lane, Stratford-on-Avon. 8609

QUALIFIED or experienced Assistant required in Architects' Department of multiple Company in the Midlands, conversant with design, alterations and maintenance of retail shop premises, working drawings, specifications and surveys. Salary according to ability. Five-day week and pension scheme in operation. Applicants are requested to furnish details of training, age, experience to Box 8604.

REQUIRED at Company's Head Office, Guildford, Architectural Assistant, A.R.I.B.A.; varied work, mainly factory. Five-day week. Salary by arrangement. Box 8605

WANTED IMMEDIATELY: Architectural Draughtsman (National Service completed). Able to prepare eighth scale Working Drawings from Sketches. Measure up and Plot Down. Good salary to suitable applicant. Apply W. E. Norman Webster & Son, F.I.R.I.B.A., 1a & 2a, Station Street, Spalding, Lincs. 8607

ARCHITECTURAL ASSISTANT required for quantity surveying and other drawing office work in connection with a large industrial development programme being carried out in the North-East Coast area. Nominal hours 38 per week, payment for overtime and superannuation scheme in operation. Apply, stating age, experience, wage required, and when at liberty, to: Chief Technical Engineer, Central Engineering Department, Dorman Long & Co., Ltd., G.P.O. Box 11, Royal Exchange, Middlesbrough, Yorks. 8621

ARCHITECTURAL ASSISTANT (SENIOR) required immediately in Birmingham office. Must be experienced in Traditional and Contemporary work. Apply, stating date when free, and enclosing testimonials, to Box 8630.

ARCHITECTURAL ASSISTANT (age 23-27), at least three years' drawing office experience, preferably in connection with industrial and commercial buildings, required by City firm of Building Surveyors. Salary: £400-£600. Apply Box 8632.

EXPERIENCED ARCHITECTURAL ASSISTANT required in the Architects' Department at Head office of large London Building Society, for work on the Society's office premises in London and the provinces. After a probationary period, the appointment will be permanent and pensionable. Apply in writing, stating age, experience, salary required, and when available, to Box 8633.

ARCHITECTURAL ASSISTANT required immediately for South Coast Brewery. Must be good draughtsman and have sound knowledge of building construction and specification writing. Salary £400-£600 p.a. according to age and experience. Apply Box 8636.

ARCHITECTURAL ASSISTANT required immediately for general practice. Salary £400-£600 per annum, according to experience. Apply H. N. Jepson & Partners, Midland Bank Chambers, Nuneaton. 8635

RICHARD COSTAIN, LTD., require the services of an **ARCHITECT** for service with an Associated Company in Lagos, Nigeria, British West Africa. A young man between 25-30 years of age with two to three years' experience with either a local authority or a practising architect would be suitable. Contracts of 18 months' duration, followed by 3 months' leave in the U.K. Every opportunity of renewal and steady progression. Apply in writing, giving full details of age, education and experience, to Personnel Director, Richard Costain, Ltd., Dolphin Square, London, S.W.1. 8676

ARCHITECT'S ASSISTANT required for Norfolk office. Intermediate standard, able to drive car. Details, including salary required, to Box 8679.

A MAJOR Oil Company, undergoing rapid expansion, requires **ARCHITECTURAL ASSISTANT**, of Intermediate standard, for its London Head Office. Applicants must be capable of carrying out work on the design and re-modelling of Service Stations, Social club. Generous sickness benefits. Pension and Life Assurance. Luncheon voucher scheme. Write, giving full details, stating age, experience, and salary required, quoting reference A.A.793, to Box 8678.

ARCHITECTURAL ASSISTANT, R.I.B.A. inter. standard required for busy Birmingham Office with varied practice. Answer stating age, experience and salary required to Box 8664.

JUNIOR ARCHITECTURAL ASSISTANTS required with previous office experience. Must be first class draughtsmen. Particulars to Louis de Soissons, A.R.A., and Partners, 3, Park Square Mews, N.W.1. 8667

ARCHITECTURAL ASSISTANTS — Final standard, good draughtsmen and with general office experience, required by Architect in Barnet, Hertfordshire office. Five day week, salary according to ability. Apply Box 8656.

ARCHITECTURAL DRAUGHTSMAN wanted Maidenhead; permanent position; good salary and prospects. Full particulars training, experience, age, salary, to Box 8668.

ARCHITECTURAL ASSISTANT (Intermediate) required in private practice Central London. Interesting and varied work. Salary by arrangement. Write Box 8657.

REQUIRED by Architects' Department of Mac Fisheries Limited, an assistant between inter and final standard, must have office experience. Salary between £500-£600. Apply in first instance in writing to Ocean House, 10/12, Little Trinity Lane, London, E.C.4. 8654

ARCHITECTURAL DRAUGHTSMAN required in Architects' department of large North Lincolnshire Iron & Steel Works for varied and interesting work in connection with works development programme. Applicants should be aged 22-30 years, be capable of preparing working drawings with a minimum of supervision and have a good knowledge of modern construction and building services. Reply giving details of age, experience and salary required. Box 8646.

MESSRS. EASTON & ROBERTSON, 53, Bedford Square, London, W.C.1, have vacancies in their office for several Assistants with previous experience. Apply in first instance by letter with brief particulars. 8648

TWO ASSISTANTS required to work on interesting overseas projects. One for London and one in Birmingham office. Interest in interior decoration and colour desirable in one post. Salaries by arrangement, according to experience. Box 8647.

CO-OPERATIVE WHOLESALE SOCIETY, LTD., ARCHITECTS' DEPARTMENT, LONDON.

ASSISTANT ARCHITECTS required, of Intermediate R.I.B.A. standard, capable of preparing sketches, working drawings and details under supervision of Senior Architects.

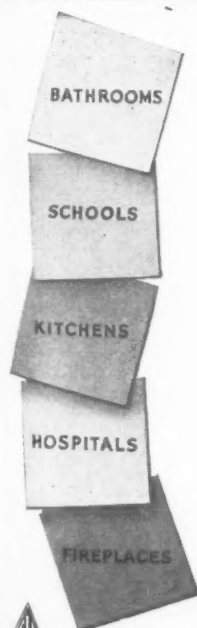
The appointment is permanent and offers prospects of up-grading.

Successful candidates will be required to undergo medical examination for compulsory superannuation scheme.

Applications, stating age, experience, qualifications and salary required, to W. J. Reed, F.R.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 99, Leman Street, London, E.1. 8684

ARCHITECTURAL ASSISTANT, preferably with experience of contemporary detailing, especially of interior fittings and shop fitting, required immediately by Patrick Gwynne; to work at The Homewood, Esher. Ring Esher 3310. 8685

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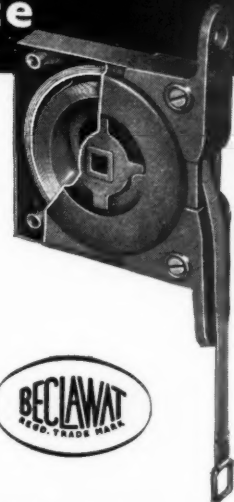
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ASSISTANT required; about 30 years of age; experienced; preferably qualified; car driver; mainly industrial and commercial work. Replies to W. L. Jones, L.R.I.B.A., 21, High Street, Great Missenden, Bucks. Tel.: Great Missenden 306. 8704

ARCHITECTURAL ASSISTANT required in General Practice, West Surrey. Applicant must be experienced in preparation of drawings and specification. Write stating age, training, experience and salary required, Box 8701.

ARCHITECTURAL ASSISTANT required capable of carrying out schemes from sketch plan stage; salary in accordance with qualifications and experience. Apply in writing to R.J. Beswick & Son, Architects, 10, Victoria Road, Swindon. 8700

ARCHITECTURAL ASSISTANTS required; fully qualified or nearly so; good salary offered to suitable applicants; R.I.A.S. Pension Scheme in operation; Central Scotland. Full details to Box 8699.

SENIOR ASSISTANT ARCHITECT required in Sheffield Office engaged on varied contemporary work. Applicant must be capable of handling large contracts and have had at least 5 years' office experience after qualifying. Good salary offered. Apply stating age, particulars of training and experience. 8698

TIMBER DEVELOPMENT ASSOCIATION LTD. DESIGN AND CONSTRUCTION DEPARTMENT ARCHITECTURAL ASSISTANT.

APPLICATIONS are invited for the appointment of an Architectural Assistant at a salary of £500 per annum. Preference will be given to candidates who have passed the final examination of the Royal Institute of British Architects and who have completed a diploma course in architecture.

The successful candidate will be engaged primarily upon constructional problems relating to timber design. A sound knowledge of the theory of structures and structural design procedure would be an advantage.

Applications stating qualifications, experience and age, giving the names of three referees to be received by the Secretary of the Timber Development Association Ltd., 21, College Hill, London, E.C.4, not later than 14th May, 1953. 8696

ARCHITECTURAL ASSISTANT required. Salary according to age and experience. Apply to Westmore & Sanders, 121, Cheapside, E.C.2. Phone: MONarch 3337/8/9. 8697

Architectural Appointments Wanted

SENIOR ASSISTANT (36); 18 years' varied experience in Factories, Housing, and Conversion and Adaptation of existing Properties, etc. Management of staff and contracts. Seeks position London Area. Sal. £850. Box 688.

D.P. ARCH. requires position as Architectural Assistant, London Area. Car driver. 16, Woodfield Road, W.5. 692

A.R.I.B.A., 35, single, seeks position leading to partnership. Some capital available. Box 8650.

Other Appointments Vacant

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

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

SUPPLIERS OF ROOF LINING MATERIALS (E.15) require occasional assistance taking off quantities and estimating. Apply Box 8620.

DRAFTSMAN required, Intermediate Standard, for small private practice, largely industrial/commercial work. £8-£10 per week depending on experience. Box 8653.

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SECRETARY/SHORTHAND TYPIST required five mornings or afternoons, Chancery Lane office. Bookkeeping required. Please submit details of experience and salary required. Box 8688.

SECRETARY required by Architect in private practice in London, W.C.1. Hours 9 to 5, no Saturdays. Please write, giving details of experience and salary required, to Box 8677.

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WIDELY experienced A.R.I.B.A. would like to hear from busy Architects requiring help with schemes, working drawings, etc. Box 8687.

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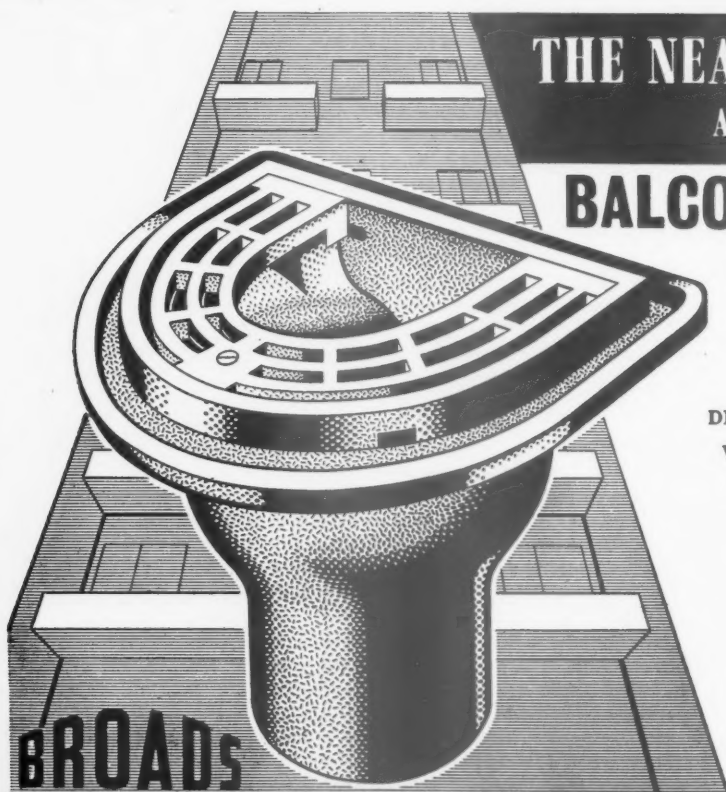
Alphabetical Index to Advertisers

	PAGE
Adamite Co., Ltd., The	xlvi
Adshedd Ratcliffe & Co., Ltd.	xx
Allday, P. G., & Co., Ltd.	lv
Architectural Press Ltd., The	lviii
Armstrong Cork Co., Ltd.	lv
Atlas Stone Co.	xxi
Banister Walton & Co., Ltd.	lv
Batley, Ernest, Ltd.	lviii
Bawn, W. B., & Co., Ltd.	lviii
Beckett, Laycock & Watkinson, Ltd.	lviii
Berry, Z. D., & Sons, Ltd.	lviii
Bigwood Bros. (Birmingham), Ltd.	lviii
Bigwood, Joseph, & Son, Ltd.	lviii
Blackburn, Thos., & Sons, Ltd.	lviii
Boulton & Paul, Ltd.	lviii
Bovia, Ltd.	lviii
Howaters Building Boards, Ltd.	lviii
B.P. Fuel Oil	lviii
Bratt Colbran, Ltd.	lviii
Briggs, Wm., & Sons, Ltd.	lviii
British Industries Fair	lviii
British Plaster Board, Ltd., The	lviii
Br t sh Pl mber, Ltd.	lviii
Broad & Co., Ltd.	lviii
Brooks Air & Heat Systems, Ltd.	lviii
Burn Bros. (London), Ltd.	lviii
B.P. Fuel Oil	lviii
Cafferata & Co., Ltd.	lviii
Cape Asbestos Co., Ltd.	lviii
Cargo Fleet Iron Co., Ltd.	lviii
Celotex, Ltd.	lviii
Cement Marketing Co., Ltd., The	lviii
Clark, James, & Eaton, Ltd.	lviii
Clarke Eiland Engineering Co., Ltd.	lviii
Concrete, Ltd.	lviii
Constructors' Group	lviii
Courtney, Pope, Ltd.	lviii
Coverite (Asphaltes), Ltd.	lviii
Crane, Ltd.	lviii
Crogon & Co., Ltd.	lviii
Devon Paints, Ltd.	lviii
Docker Brothers	lviii
Dunlop Spec a' Products, Ltd.	lviii
Econa Modern Products, Ltd.	lviii
Ellis School of Architecture, The	lviii
Evode, Ltd.	lviii
Expanded Metal Co., Ltd., The	lviii
Excel Asphalte Co., Ltd.	lviii

	PAGE
Farmiloe, T. & W., Ltd.	lviii
Finch, B., & Co., Ltd.	lviii
Finlock Gutters, Ltd.	lviii
Furse, W. J., & Co., Ltd.	lviii
Gas Council, The	lviii
Gent & Co., Ltd.	lviii
Gimson & Co. (Leicester), Ltd.	lviii
Greenwood's & Airvac Ventilating Co., Ltd.	lviii
Gyproc Products, Ltd.	lviii
Hall, John, & Sons (Bristol & London), Ltd.	lviii
Hall, Robt. H., & Co. (Kent), Ltd.	lviii
Hammer, Geo. M., & Co., Ltd.	lviii
Hammond & Champness, Ltd.	lviii
Harvey, G. A., & Co. (London), Ltd.	lviii
Henderson, P. C., Ltd.	lviii
Hill, E. Aldam, & Co., Ltd.	lviii
Hollway, W. F., & Brother, Ltd.	lviii
Hope, Henry, & Sons, Ltd.	lviii
Industrial Engineering, Ltd.	lviii
International Correspondence Schools	lviii
International Paints, Ltd.	lviii
Jeffrey Tiles, Ltd.	lviii
Johnston Bros. (Contractors), Ltd.	lviii
Kenyon, Wm., & Sons, Ltd.	lviii
Kwikform, Ltd.	lviii
Lansdowne Varnish & Enamel Co., Ltd.	lviii
Lead Industries Development Council	lviii
Leaderflush, Ltd.	lviii
Leatherfor, Ltd.	lviii
Lightfoot Refrigeration Co., Ltd.	lviii
Loft Ladders, Ltd.	lviii
London Brick Co., Ltd.	lviii
Lovell & Hanson, Ltd.	lviii
McKechnie Brothers, Ltd.	lviii
McCarthy, M., & Sons, Ltd.	lviii
Magnet Timber, Ltd.	lviii
Mallinson, Wm., & Sons, Ltd.	lviii
Marley Tile Co., Ltd., The	lviii
Marryat & Scott, Ltd.	lviii
Meta Mica, Ltd.	lviii
Midland Woodworking Co., Ltd.	lviii
Mills Scaffold Co., Ltd.	lviii
Moler Products, Ltd.	lviii
Morris, M. A., Ltd.	lviii
Moulded Components (Jablo), Ltd.	lviii

	PAGE
Mumford Bailey & Preston, Ltd.	lviii
National Federation of Clay Industries	lviii
Neuchatel Asphalte Co., Ltd., The	lviii
Ozolid Co., Ltd.	lviii
Paragon Glazing Co., Ltd.	lviii
Peglers, Ltd.	lviii
Pennycook Patent Glazing & Eng. Co., Ltd.	lviii
Permanite, Ltd.	lviii
Pickering's, Ltd.	lviii
Poles, Ltd.	lviii
Porn & Dunwoody (Lifts), Ltd.	lviii
Prodorite, Ltd.	lviii
Radiation Group Sales, Ltd.	lviii
Rawlings Brothers, Ltd.	lviii
Remploy, Ltd.	lviii
Richardson & Starling, Ltd.	lviii
Riley Stoker Co., Ltd.	lviii
Rownsdon, Drew & Clydesdale, Ltd.	lviii
Salter, T. E., Ltd.	lviii
Saro Laminated Products, Ltd.	lviii
Sealcrete Products, Ltd.	lviii
Semtex, Ltd.	lviii
Sign Service	lviii
Smith & Pearson, Ltd.	lviii
Smith, Thomas, & Son, Ltd.	lviii
Smith's Fireproof Floors, Ltd.	lviii
Sommerfeld's, Ltd.	lviii
Standard Patent Glazing Co., Ltd., The	lviii
Steel Radiators, Ltd.	lviii
Stelcon (Industrial Floors), Ltd.	lviii
Storry, Smithson & Co., Ltd.	lviii
Sugg, Wm., & Co., Ltd.	lviii
Sundaala Board Co., Ltd.	lviii
Tarmac, Ltd.	lviii
Terradura Flooring Co., Ltd.	lviii
Thornton, A. G., Ltd.	lviii
Tretol, Ltd.	lviii
Turner's Asbestos Cement Co., Ltd.	lviii
Walls, Ltd.	lviii
Ward, Thos. W., Ltd.	lviii
Warerite, Ltd.	lviii
Wheatly & Co., Ltd.	lviii
Williams, John, & Sons (Cardiff), Ltd.	lviii
Williams & Watson, Ltd.	lviii
Zinc Development Association	lviii

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Education, Legal Notices, Miscellaneous Property, Land and Sales, lxi, lxii, lxiii, lxiv, lxv.



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PAGE
lxx
vi
lxi
xxiv
xxii
xxix
lxx
xxvi
xi
ii
cxxxii
xxix
xviii
xxxi
lv
xlii
lxx
xviii
lix
xxiv
lxx
lvi
xxii
xxii
xxii
lvi
lvi
xix
xli
xlii
xxx

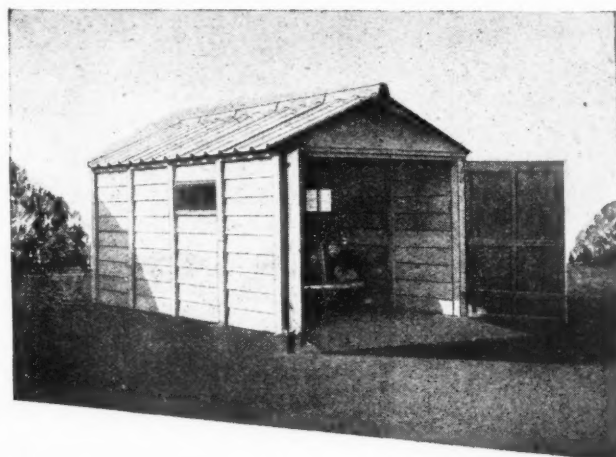


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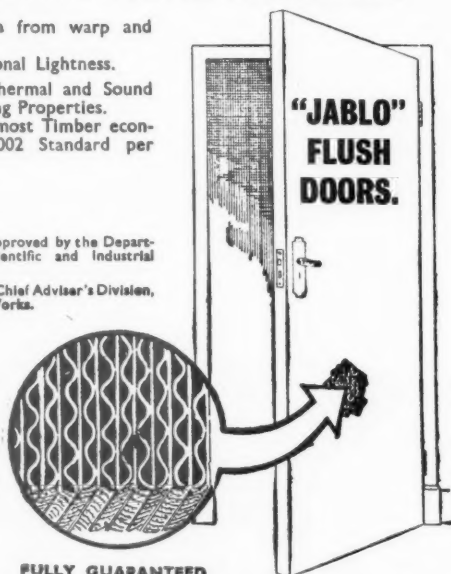
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