THE ARCHITECTS'



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

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IEE

A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone thinbers (The glossary is published in two parts—A to Ie one week, Ig to Z the next.

In all cases where the town s not mentioned the word LONDON is implicit in the address.

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy. : W. Marlborough Whitehead	l, " Dyneley,"
	Castle Hill Avenue, Berkhampstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Langham 5721
ABT	Association of Building Technicians. 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 4, St. James' Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8
ADA APRR	Association for Planning and Regional Reconstruction. 34, Gordon	n

		Square, W.C.1.	Euston 2138-9
ArchSA	Architectural Students' Association	n. 34/36, Bedford Square, W.C.1.	
ARCUK	Architects' Registration Council.	68. Portland Place, W.1.	Langham 8738
AScW	Association of Scientific Workers.	15, Half Moon Street, Piccadilly, V	W.1.

		Grosvenor 4761
BAE	Board of Architectural Education. 66, Po	ortland Place, W.1. Langham 5721
BATC	Building Apprenticeship and Training Cou	ncil. Lambeth Bridge House, S.E.1.
		Reliance 7611 Ext 1706

	Kendice 7011, Ext. 1700
BC	Building Centre. 26, Store Street, Tottenham Court Road, W.C.1. Museum 5400
BCC	British Colour Council. 13, Portman Square, W.1. Welbeck 4185
BCCF	British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13. Perivale 6869
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham. Redditch 716
BDA	British Door Association. 10. The Boltons, S.W.10. Fremantle 8494
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2. Temple Bar 9434
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.
	Glasgow Central 2801

		Glasgow C	entral 2891
BIAE	British Institute of Adult Education.	29, Tavistock Square, W.C.1. E	Euston 5385
BID	Building Industries Distributors. 52,	High Holborn, W.C.1. Cha	ancery 7772
BINC	Building Industries National Council.	11, Weymouth Street, W.1. Lan	igham 2785
BOT	Board of Trade. Millbank, S.W.1.	Whi	itehall 5140
BRDB	British Rubber Development Board.	Market Buildings, Mark Lane, E.C.	2.3.
		Mansion	House 9383

BRS	Building Research Station. Bucknalls Lane, Watford.	Garston 2246
BSA	Building Societies Association, 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. 28, Victoria Street, S.W.I.	Abbey 3333
BTE	Building Trades Exhibition. 4, Vernon Place, W.C.1.	Holborn 8146/7
CABAS	City and Borough Architects Society. C/o Johnson Blackett,	F.R.I.B.A.,
	Civic Centre, Newport,	Mon. Newport 5491
CAS	County Architects' Society Clo F R Steele FRIRA	

-CA13	County Architects Society. C. o. i. it. Steele, I. it. i. b.A.,	
	County Hall, Chichester. C	hichester 3001
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Sloane 5255
CCP	Council for Codes of Practice. Lambeth Bridge House, S.E.1.	Reliance 7611
CDA	Copper Development Association. Kendals Hall, Radlett, Herts.	Radlett 5616
CIAM	Congrès Internationaux d'Architecture Moderne. Doldertal, 7, Zurich	, Switzerland.
COID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Abbey 7080
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.	Sloane 4280
CUC	Coal Utilization Council. 3. Upper Belgrave Street, S.W.1.	Sloane 9116

COC	Coal Chilzation Council. 5, Opper Beiglave Street, 5.W.1. Stoane 9110
CVE	Council for Visual Education. 13, Suffolk Street, Haymarket, S.W.1. Reading 72255
DGW	Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1.
	Reliance 7611
DIA	Design and Industries Association. 13, Suffolk Street, S.W.1. Whitehall 0540
DPT	Department of Overseas Trade. Horseguards Avenue, Whitehall, S.W.1.
	Trafalgar 8855

EJMA	English Joinery Manufacturers'	Association (Incorporated), Sackville	House,
-		40, Piccadilly, W.1.	Regent 4448
FPNS	English Place-Name Society. 7	Selwyn Gardens Cambridge	

FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdn	s., S.W.1.
	, ,	Sloane 2837
FASSC	Federation of Association of Specialists and Sub-Contractors	

		5, Arundel Street, Strand.	Temple Bar 6633
FBI	Federation of British Industries.	21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission. 25, Savil	e Row, W.1.	
FCMI	Federation of Coated Macadam I	Industries, 37, Chester Square, S.	W.1. Sloane 1002

FDMA	The Flush Door Manufacturers	Association Ltd. Trowell, Nottingham. Ilkeston 623
FLD	Friends of the Lake District.	Pennington House, nr. Ulverston, Lancs.
		Ulverston 201
FMR	Federation of Master Ruilders	26 Great Ormand Street Halborn W.C.1

LMB	rederation of Master Builders. 26, Great	at Ormond Street, Holborn,	W.C.1.
		, , , , , , , , , , , , , , , , , , , ,	Chancery 758
FPC	The Federation of Painting Contractors, S	St. Stephen's House, S.W.1.	
ERHR	Federation of Registered House Builders	87 New Cavendich Stree	t W 1

	•	Langhar	n 4041
FS (Eng.)	Faculty of Surveyors of England.	Buckingham Palace Gdns., S.W.1.	

			Sloane 283
GC	2	Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
GC	G	Georgian Group. 27, Grosvenor Place, S.W.1.	Sloane 2844
HC	2	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881
GC GC HC IA	AS	Incorporated Association of Architects and Surveyors.	75, Eaton Place, S.W.1.
			Sloane 5615
IC	A	Institute of Contemporary Arts 17-18 Dover Street Di	condilly W/ 1 Grosuppos 6186

Whitehall 4577

Abbey 3215

Temple Bar 7676

Institution of Civil Engineers. Great George Street, S.W.1.

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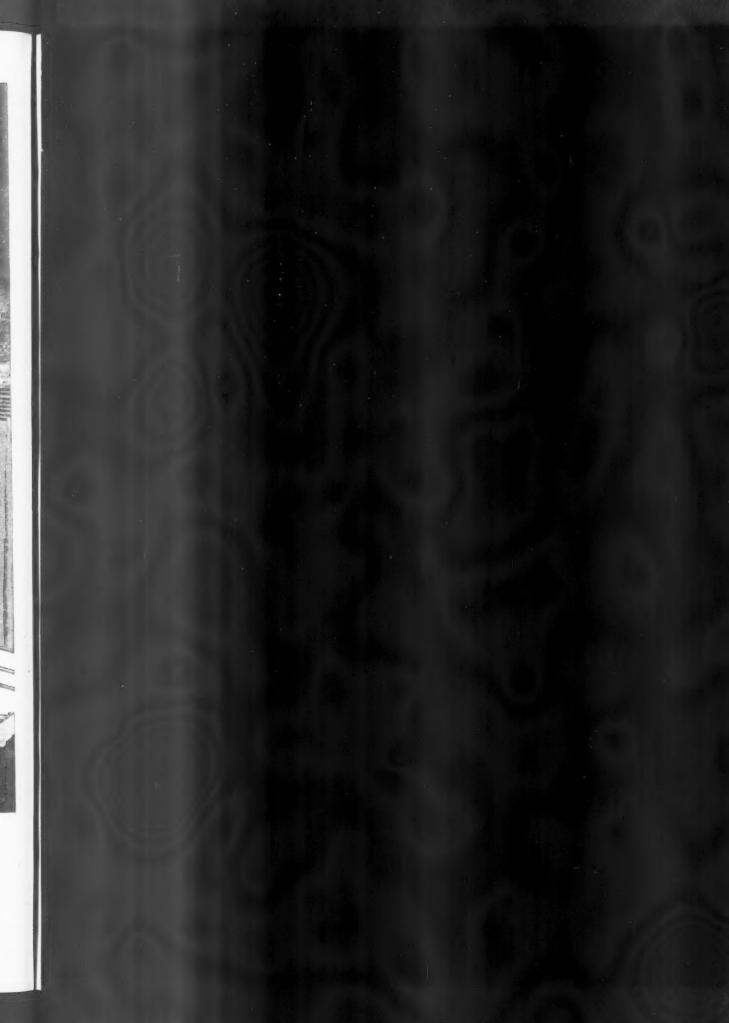
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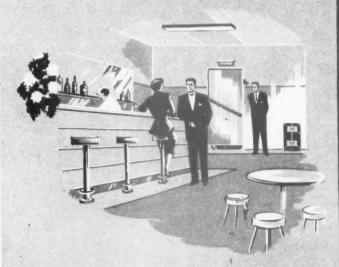
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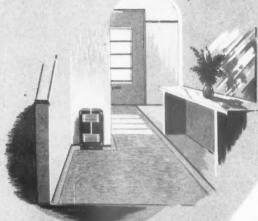
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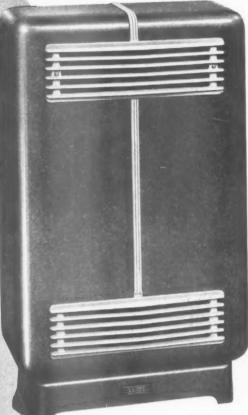
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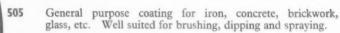


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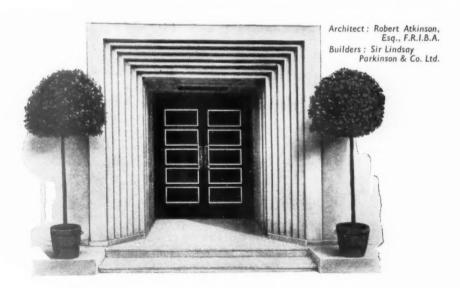
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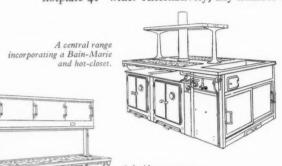
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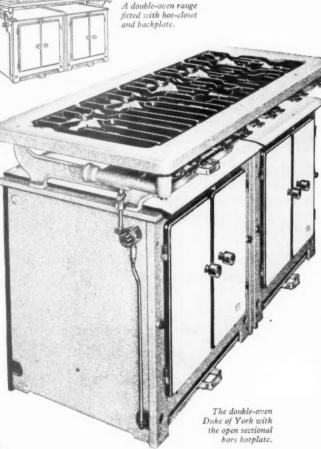
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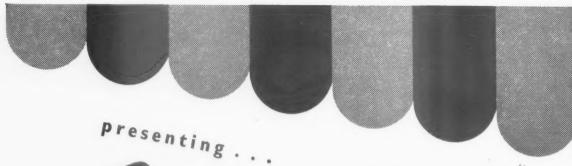
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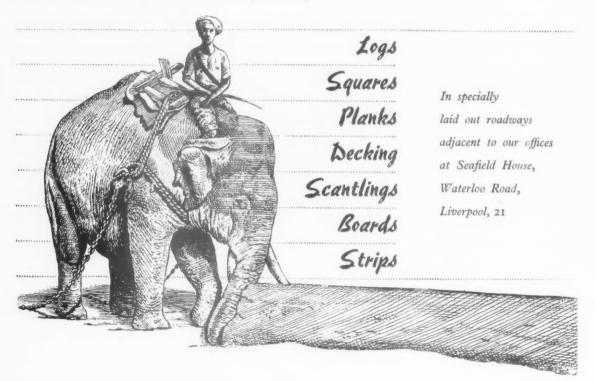
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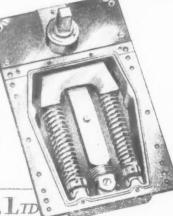
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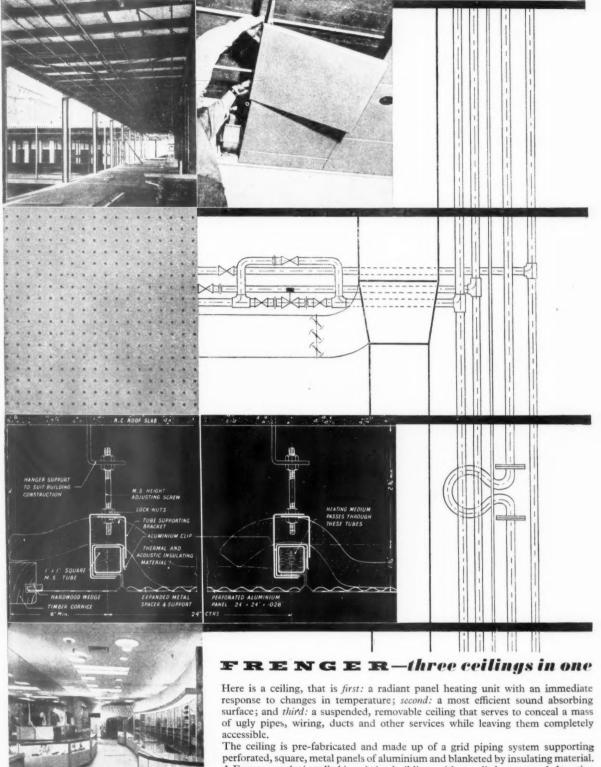
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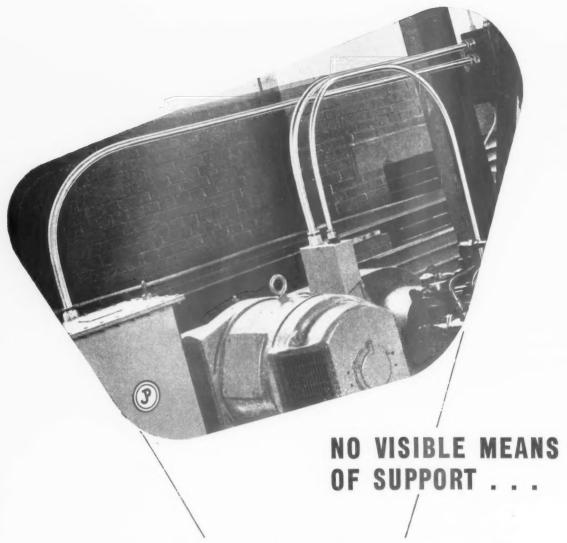
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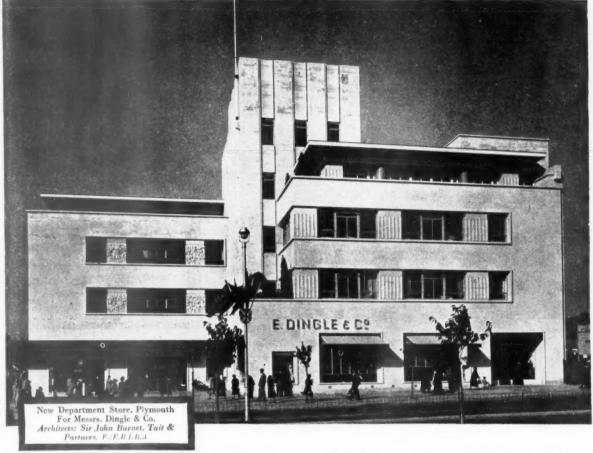
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727 646 Surface Insulated, Brown		91.8	86/-		
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731 646	99	99	Two-Gang, Brown	177 -	170/-
	91	99	" " White	207 -	188/-
SWITCHSOC	KET-OUTL	ETS A	ND PLUGS	Each	
2959 646	959 646 Surface Insulated, Brown		10 8	10/-	
	**	**	White	12 4	10/10
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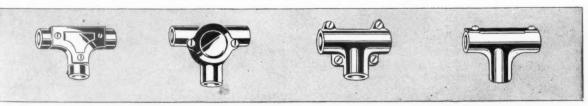
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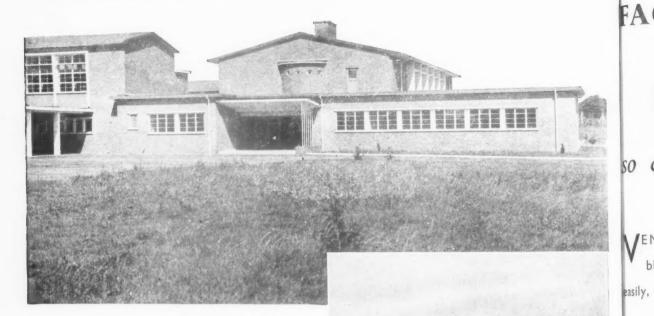
It may be a School, it may be a Factory—a Power Station or a Housing Estate, but more often than not the electrical specification will be—METALLIC.

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Building designed by: Standard Motor Company, Planning Dept.

Arens gear supplied by Mellows & Company, Limited, of Sheffield.

Photograph by courtesy of The Liminer & Trinidad Lake Asphalt Company, Limited.

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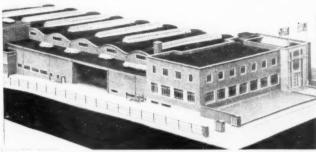
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B.A.,



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

Architects: Herbert A. Welch & Felix J. Lander, FF.R.I.B.A.
Arens gear supplied by the Crittall Manufacturing Company, Limited, of Braintree.



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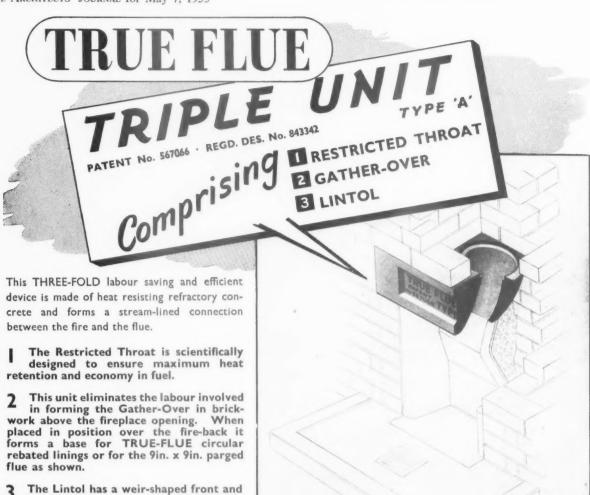
ARCHITECTS and PRINCIPALS are invited to write to us for a copy



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

Consulting Engineers: Sir Alexander Gibb & Partners.

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



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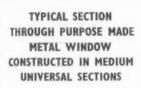
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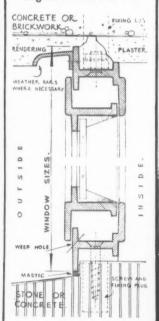
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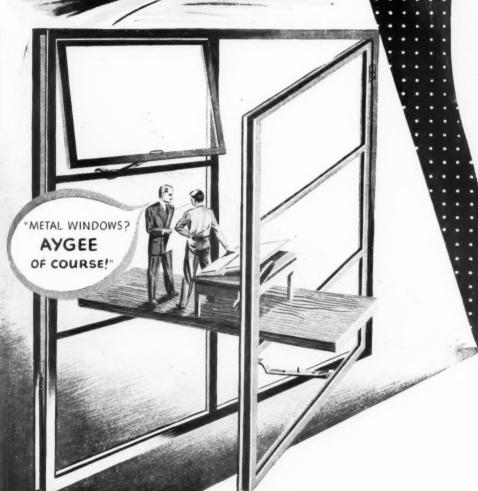
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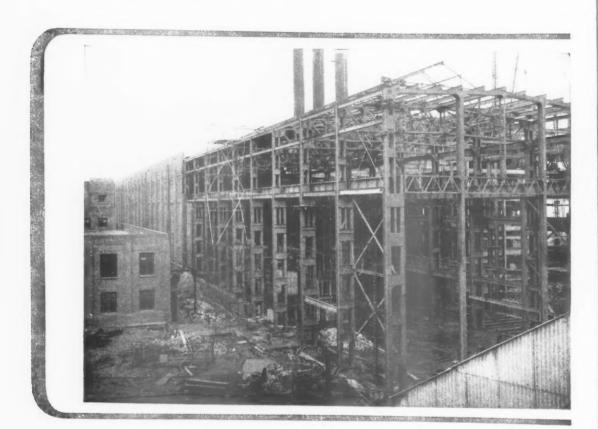
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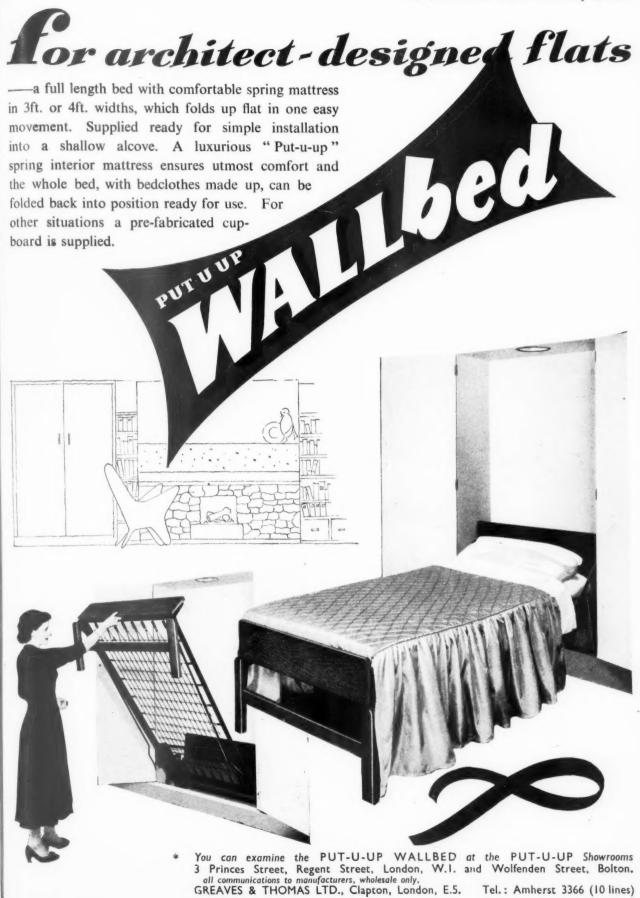
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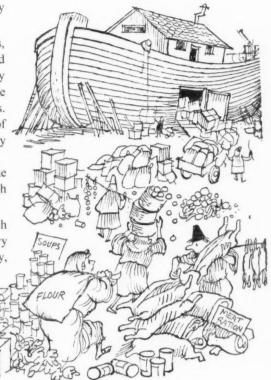
WHO WILL ENVY NOAH? He had to cater for an ark-full of hungry passengers.

Consider for one moment the tonnage of meat for the carnivores, and vegetables for the vegetarians. Noah would have appreciated the balanced range of equipment that the Falkirk Iron Company now provides. Falkirk's policy of designing each installation for the individual customer would have found especial favour in his eyes.

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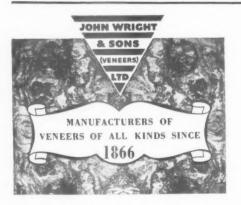
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BY ANTHONY GROSS

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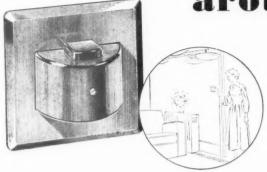
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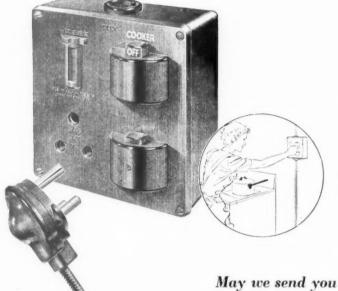


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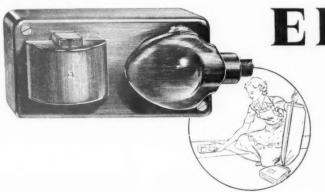
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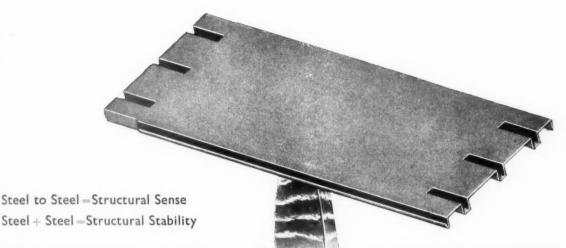
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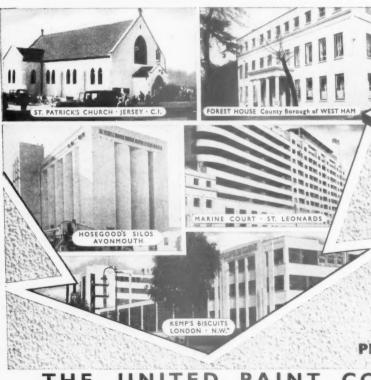
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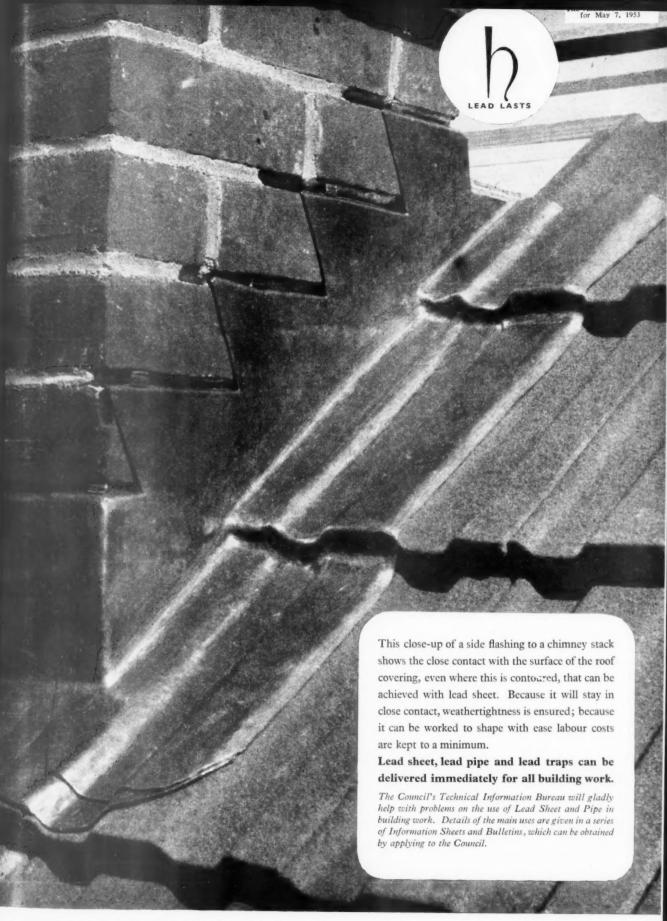
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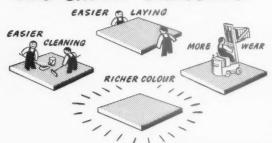
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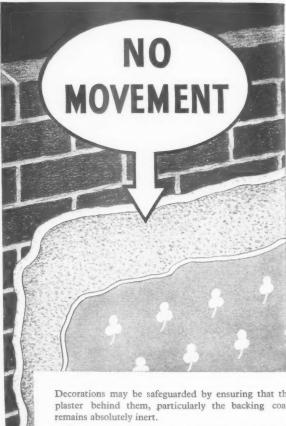
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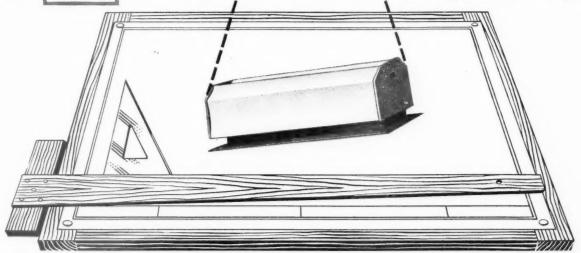


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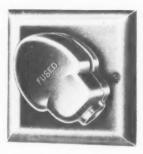
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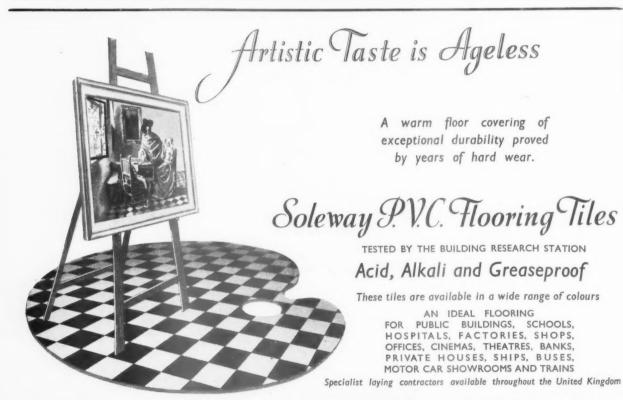
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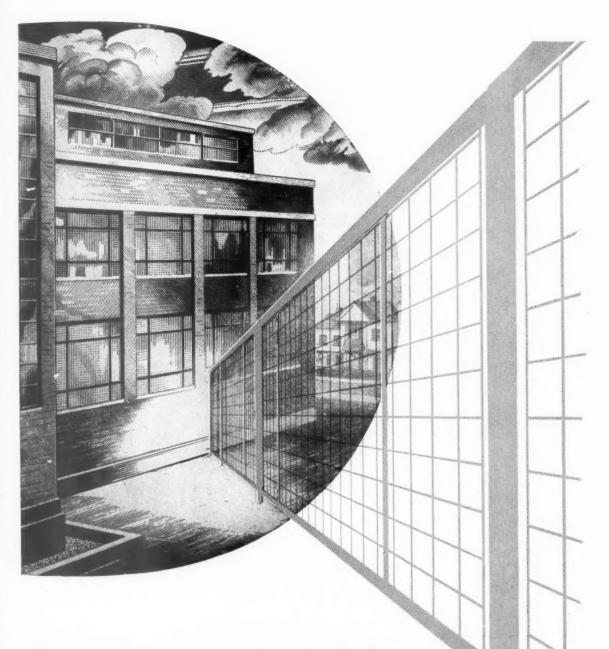
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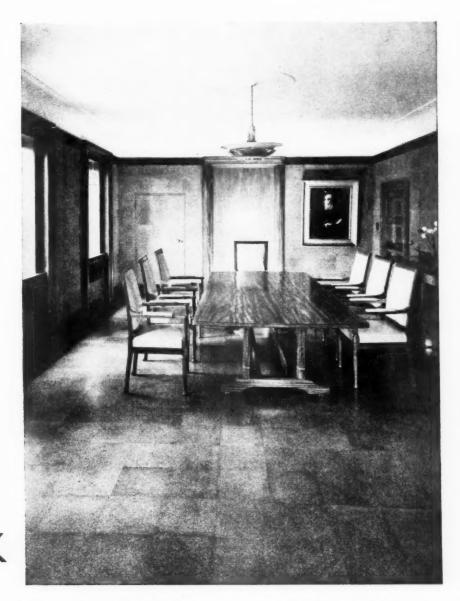


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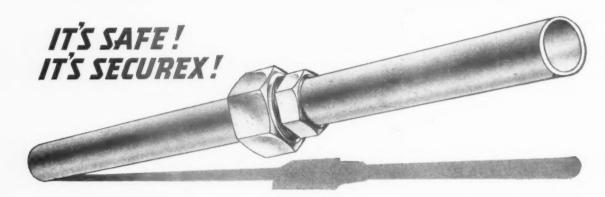
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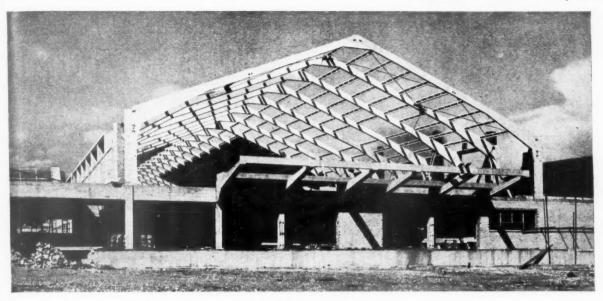
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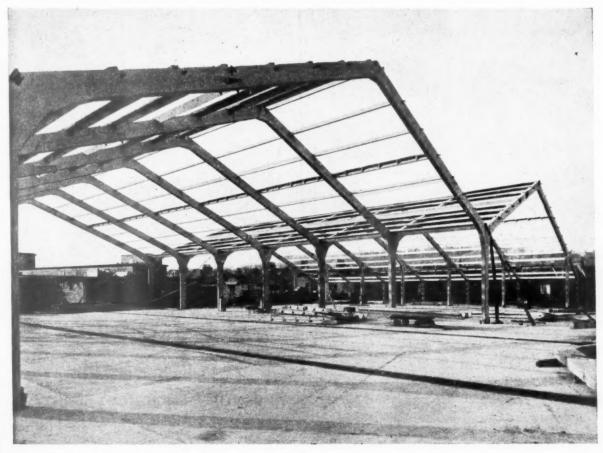
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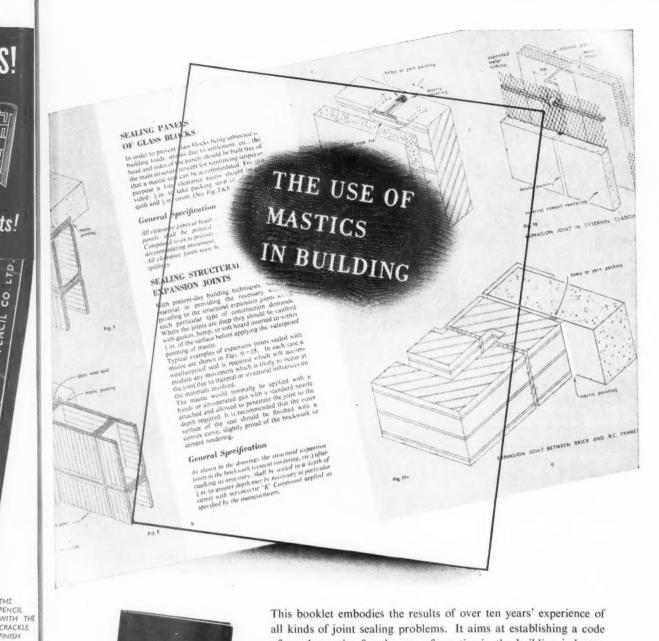


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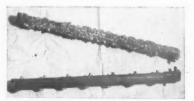
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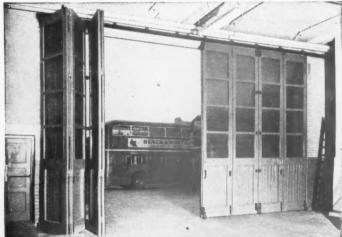
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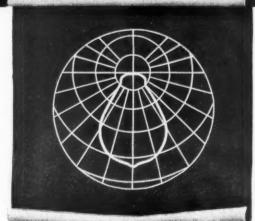
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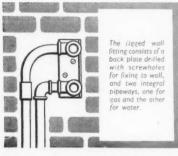
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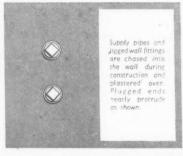
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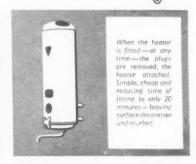
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No. 3036 May 7, 1953 VOL. 117

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COVENTRY REBUILDS

On a fine May morning, crowds gathered in Coventry's new central square to watch Lord Silkin open Broadgate House, the first unit of the great central reconstruction scheme (see last week's JOURNAL). It is certainly a most impressive and attractive design and Donald Gibson, the city architect, fully deserved the loud applause which greeted each reference to him in the speech-making which followed the opening ceremony.

This fine building (the fully-glazed restaurant "bridge" is singularly successful) will be fully illustrated, I'm told, in a subsequent issue, and the story of the rebuilding of Coventry will be the last in the JOURNAL'S series of

articles on blitzed cities, so there is no point in saying much here, except that the bucolic, Disney-ish, pink and gilt Lady Godiva and Peeping Tom mechanical figures, which caper when the clock strikes, serve only to remind ASTRAGAL how old, effete and unpopular is his sense of humour.

THE ROYAL ACADEMY

There are no surprises in the Architectural Room at the Royal Academy's summer show. Unless, of course, you are surprised to see that the City of London is ignoring the magnificent opportunity for intelligent re-planning around St. Paul's Cathedral. You may already have noticed that two newspapers have printed comments by outraged correspondents on the redevelopment scheme by Victor Heal and Smith, which is illustrated in water colours (see page 580). Osbert Lancaster writes in the Daily Express that the designer "might have got an honourable mention in a students' competition for a utility wash-house for senior civil servants." John Russell, writing with more restraint in the Sunday Times, "cannot feel that the Academy is fulfilling its duty when it displays, with implicit approval, the designs by which Cheapside is to be rendered hideous."

What, one may ask, is the Academy's duty? Mr. Russell makes it fairly clear that he thinks the Architectural Room should be different in character from the rest of the exhibition, simply because "a picture can be taken down at will, but buildings are less amenable." But if Mr. Russell believes, as he says, that "the point of the Academy lies in its incoherence, its enormous size, its insensibility to the passage of

time, and its loyalty to its favourite freaks," how can he expect anything other than this from one small branch of the exhibition? Surely the minds behind the freaks, the incoherence and the archaisms will always select an architectural hanging committee that reflects its own outlook. And while these committees are what they are, none of the people whose work we would like to see exhibited will bother to submit anything.

I'm sure that I'm building up an argument against someone or something. but who or what it may be is becoming less clear with each sentence. It certainly cannot be the dear old Academy. whose single-mindedness won my heart when it was a somewhat younger dodderer than it is now. And it can hardly be Mr. Russell, for, although he has seen only one black pot among any amount of kettles-if I may re-coin a phrase—he is so obviously trying to be on the side of the angels. That leaves me only with the reconstruction scheme itself. And about that I am suitably sad. But I do not agree with Mr. Russell that "the Academy-in so far as it is still, in many eyes, the guardian of public taste-would have done well to exclude" the Cheapside designs. It's a pleasant thought that the British public may leave the Academy deeply angered by these designs and dash off letters to MPs, newspapers, and the like. It's a pleasant thought . . .

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Metropolitan Buildings." Thus ran the recommendation of the General Purposes Committee of the LCC—no doubt a small item in the Council agenda, but certainly an important one. Seldom do architects get praised with such lack of reserve. Yet how richly in Robert Matthew's case it is deserved, for the reasons which the Chairman of the General Purposes Committee so clearly stated in his report (see page 576).

Robert Matthew was appointed as Architect to the Council in 1946, at the early age of 39. Not only did he have to cope with problems arising from the war, but also with the changed requirements of post-war development. During his term of office the value of schemes under his direction rose from £600,000 per annum to over £3,000,000 per annum. Under his direction the County of London Development Plan was prepared, the physical aspects of the Education Act were implemented, and Lansbury and the Festival Hall built. He has, as the Chairman stated, filled the office of Architect to the Council with great dis-He has made us feel new tinction. pride, not only in London but in our own profession.

ASTRAGAL feels it is only fitting that the Council should have recorded its appreciation. But he also feels that it deserves praise for doing so. As long as the Council shows appreciation of its architects and their work, there is hope that London will retain what fading beauty it has—and even enhance it.

GROPIUS—SEPTUAGENARIAN

There must be a word of congratulation in this column to Walter Gropius. He will be seventy on May 18. It is exactly fifty years since he began to study architecture at Munich, forty-four years since he entered Behrens's office in Berlin, thirty-four years since he took over the directorship of the Bauhaus, and twenty years since he passed through London as a refugee—leaving his mark upon Chelsea and Impington.

All these dates are, to a greater or lesser degree, landmarks in the history of the Modern Movement. If Professor Gropius, of Harvard, has left a



ASTRAGAL, who comments on page 569 on this year's Royal Academy Summer Exhibition, where time always seems to be standing still, is pleased to record this example of intelligent development of a now familiar—but by no means cliché-ridden—theme. Arthur Bailey is the designer of this building—a Baptist church at Chatsworth.

rather smaller inheritance than he did at Weimar, that is only because there, as in Germany, the world was against him. Perhaps, in the long run, it is more exhausting—or at least more frustrating—to battle with senates than with dictators. At any rate it is Weimar and Dessau—rather than Harvard—that belong to history, and that Gropius, through all the vicissitudes of life, can remember with the greatest pride.

LOCAL AUTHORITIES, PLEASE COPY

The gentleman wondering where to put his brick, see below, is one of the illustrations to a remarkable town-planning report which has passed through ASTRAGAL'S hands recently. We all know only too well how the

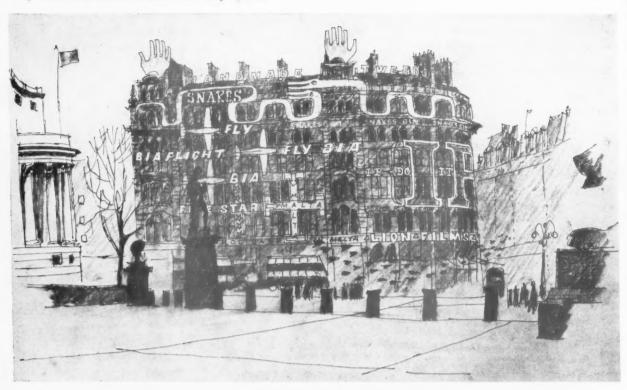
average publication of this kind is illustrated-plans, Isotypes, diagrams, Isotypes, photographs of models and more Isotypes-but the report on Saint Dizier, a metal working town in the Haute Marne of France, is conspicuously different. It has, to be sure, plans, diagrams and photographs, but the main "human interest" points are jabbed home in a series of brilliantly funny drawings by André François, of blessed and hysterical memory for his work in Punch and Lilliput-the character below, for instance, embodies that elusive abstraction, the "Age Pyramid."

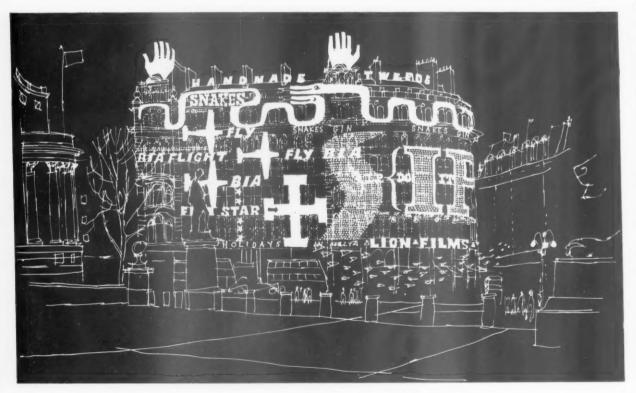
English planners and local authorities, please copy. ASTRAGAL can think, off-hand, of three or four comic draughtsmen (some of them have appeared on this page) who, by training or inclination, would be well equipped for the task of making planning effects abundantly clear to rate-payers without insulting their intelligence.





Illustrations by André François from a report on Saint Dizier. See comment entitled "Local Authorities, Please Copy."





Advertising and Architecture

Alexander Barrie, in his letter on page 575—in a reply to ASTRAGAL's review of his recent World's Press News article on outdoor advertising—asks: "Have architects and planners ever tried to show advertising tycoons how to be good?" Even while Mr. Barrie was asking the question, and providing the answer "No," Gordon Cullen—stirred by the

recent enquiry into advertising in Trafalgar Square—was preparing the above "How-to-do-it" sketches. They show how the advertisements on a dull-looking building could be "planned" so that they were inoffensive by day and gave a new personality to the building by night. To whoever it may concern—please copy.

QUIET PLEASE, GENIUS AT WORK

All inventors ought to be encouraged, if only for the sake of the one who hits on something really good. But the difficult people are the ones who have ideas which work, but which are not worth the effort—like the umbrella with a gutter round the rim and a downpipe taped to your trouser leg.



Somewhat less ridiculous is William Croxford's anti-flood house, seen above. It is floated on a pontoon and restrained by reinforced concrete piles.

The idea would work, of course; half the landing stages in the world are built that way. But if we are that much frightened of floods, why not put the house on its piles straight away and save the cost of the pontoon?

COMMONWEALTH MEMORIAL

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It is more than three years since the JOURNAL published illustrations of the proposed new high altar and baldachino for St. Paul's Cathedral, designed by Godfrey Allen (Surveyor to the Fabric) and S. E. Dykes Bower. ASTRAGAL was pleased to have more news of this proposal last week. It has been decided that the reconstruction should take the form of a memorial to the men and women of all creeds and races in the Empire and Commonwealth overseas who died in the two world wars, and a fund has been started. Contributions should be sent to the Empire War Memorial Fund, 5, Park Place, St. James's, S.W.1.

ASTRAGAL

POINTS FROM THIS ISSUE

Royal Academy Summer Exhibition pages 569 and 580 Exhibits and Stands at the BIF pages 577, 578 and 595

The Editors

PLAYERS' WORK-TIME

R EADERS have only a few more days in which to apply for membership of the RIBA Conference, which is to be held at Folkestone and Canterbury from June 10 to June 13. Applications must reach the secretary of the Institute, at 66, Portland Place, W.I, by May 16.

The JOURNAL urges its readers to help make this Conference

The Journal urges its readers to help make this Conference the success it deserves to be. This year's host—the South-Eastern Society of Architects—has responded well to the suggestion made on this page last July that it should "start a fresh series of conferences in the real meaning of the word." It may be remembered that, after the 1952 Conference in Edinburgh, we asked: "Does the reading of two papers, in two working days, each followed by about an hour's discussion, constitute a conference?" Had not the moment been reached, we asked, when the architectural profession could copy other professions—or even the American Institute of Architects—and have two or three papers (and subsequent discussion) on each of a variety of subjects? And we suggested that if the papers were published in advance, the conference discussion might be more scholarly.

As readers will have read elsewhere in the JOURNAL, five papers are to be circulated in advance this year. And for those who have been disappointed that the subject of the papers is "Schools," we must point out—in the words of the chairman of the conference committee—that "this subject, in effect, has acted as a pilot scheme for the investigation of problems which have been latent in the changing nature of practice."

It is to be hoped that the private architect will go and take part in what may be a refreshing and worthwhile airing of opinions and letting down of hair. (The latter can be done on June 12, when reporting will be banned at a discussion on papers entitled "How the Local Authority Works," by C. H. Aslin, "Collaboration between Official and Private Architects," by S. H. Loweth, and "The Private Architect's Problem," by F. R. S. Yorke.) We stress the need for the private architect to be present, not only because his contribution to the discussions will be valuable, but because he is usually outnumbered at the annual conference by public architects.

May we remind private architects in London, who, unlike their colleagues in public offices, are not able to fill in expense sheets, that this year's Conference is near enough to their homes for them to attend only the discussions on June 12—already mentioned—and those on the day before ("Research and Development: The Work of the MOE," by S. A. W.

Johnson-Marshall and "Recent School Buildings," by R. H.

Sheppard).

For those who have time, there is, of course, a good programme of social events. But these we have always taken for granted at the conferences, unlike the quality of the actual conferring. We wish the hosts and their guests success in the experiment, and remind readers, once again, that applications must be made very soon.

FOCUS ON

YOU

A purely factual survey of unemployment among architects, based on official figures, is concluded this week by Martyn Webb, the senior member of the research team assisting Professor Bowen, the Journal's Guest Editor. The title piece above is reproduced from a page chosen at random from the Architect's Register, and the names have no direct connection with the article.

MARTYN WEBB

Post-War Unemployment in the Architectural Profession

In the long run the demand for architects should control the supply, at least in theory. In the short run this, of course, does not apply, even theoretically. The newly qualified of 1953, for example, were encouraged to begin their studies by conditions of at least five years ago. A measure of the short term demand for "new" architects can be obtained from a consideration of the numbers of vacancies available. In the graph on this page we try to show, from official records, the numbers of job vacancies notified and outstanding in each month of the period 1949 to 1953. Of course,

not all employers trouble to tell the Ministry, but it can be assumed that the graph does at least show the trend, if not its magnitude.

This graph brings to light a startling situation of a falling demand from an extraordinarily high peak in February, 1951, when vacancies notified and outstanding exceeded 230, to the low figure of 42 in November, 1952. Since then the number of vacancies has increased: even so, the figures for February of this year were still well below the 1949-51 monthly average of 130.

Some idea of the supply can be obtained from the *total* numbers of available and unemployed and, although certain objections can be made to the inclusion of all the availables among the unemployed, it must not be forgotten that both types are likely to apply for posts, and that availables can be, and often are, unemployed.

If the totals are placed alongside vacancies as in the graph, the situation which has faced the profession over the past few months is disclosed. Briefly, it is that of a sharply falling demand for architects which, although it began in 1951, did not make itself felt through increased unemployment until the autumn of last year. For the past seven months the "supply" has consistently exceeded the "demand"—as measured and defined by the terms used here.

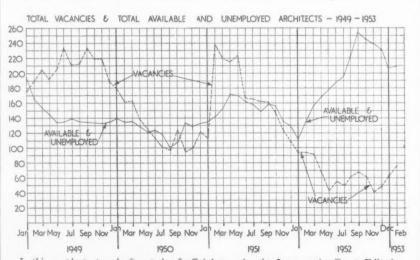
It is interesting to note that a minor

example of this phenomenon occurred in 1950 when vacancies were low. In this case, however, the fall in vacancies happened to coincide with one of the lowest totals of available architects recorded during the past few years; thus reducing the "supply."

While the trends of demand and supply are important, the ultimate conclusions about unemployment must be based on the magnitude of the movement. Our analysis is made difficult by the peculiarities of the profession and the professional status of its members. We must conclude this factual survey of unemployment by referring to some of the causes for possible inaccuracies in the data.

First, no firm or individual is forced by the Ministry to make use of its Thus, at any time official facilities. data are liable to under-estimate the numbers of either availables or unemployed or vacancies. Secondly, there is no clear definition of an unemployed architect, and even if there were one there is no means of discovering the numbers covered by such a definition. Judging by the present figures, many of the available architects are in reality unemployed, and some of the unemployed are seeking commissions as well as appointments. (Further, there are many to whom the words Ministry of Labour and "unemployed" are anathema-almost words.) rude Thirdly, notified vacancies are not always vacancies in fact; they may be cancelled before they are filled for

We could assume, therefore, that in this article we have underestimated the number of unemployed and overestimated the numbers of vacancies. However, the figures provided reveal a significant change in prospects over the past few months, as compared with previous years; and they indicate the importance of the role only recently assumed by the Ministry of Labour.



In this graph, prepared after study of official records, the JOURNAL'S Guest Editor's research team shows the number of job vacancies notified and outstanding in each month from 1949 to 1953, and the number of available and unemployed architects.

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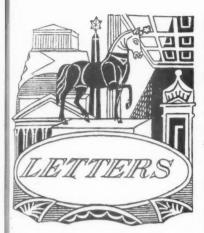
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Alexander Barrie, AR I.B.A.

George T. Mills, Chairman and Managing Director, Mills and Rocklevs Ltd. (Outdoor Advertising)

How to Avoid Being "Inadequate"

Sir.—Mr. Lubicz-Nycz's letter (April 2) might, I suppose, be considered presumptuous in its cynicism but I must agree with the writer's statements about the people who, though qualifying as architects, have a talent inadequate to their social and artistic responsibilities

responsibilities.

There should surely be a more highly selective process of acceptance for further school training after the third year. Under a proper administration the first three years in proper auministration the first three years of full-time architectural education provide a sound basis for further training in fields other than architecture: it is in this time that the student should learn the extent of his abilities.

It would appear that those who enjoy the first three years of their student life at a school which specializes in taking people to the Intermediate stage, and then proceed, preferably after a year's office experience, to more advanced study (perhaps in a different environment) have certain certain. ferent environment) have certain advan-lages over their "five-years-straight" fel-lows. I suggest that the wider application of such a system would greatly facilitate the intermediate process of selection that has been proposed.

MICHAEL LAIRD.

Edinburgh.

For Astragal: A Brickbat....

SIR.—If it touches realities the discussion of ideas in England is generally considered to be bad form. Cheers for ASTRAGAL, therefore, in daring to put Mumford's years of philosophizing in their place with about sixty words. But those are words of despondency, if not alarm, and need to be vigorously attacked.

Says ASTRAGAL: The individual is now trapped; there is no real escape; the condition of man is part and parcel of the age that has borne him; our comfort is that our

that has borne him; our comfort is that our

civilization will die of its own excesses. Oh, Death, where is thy sting-a-ling-a-ling? What sort of doom-talk is this? It is untrue because, while conditions make us, we can make new conditions that remake us—
if we will (and if we get a few more proteins). It implies that free-will—and therefore the ceaseless struggle for personal freedom—is a myth, and that, to quote the defeated Schopenhauer, "we can do as we will but we cannot will as we will." If ASTRAGAL really means what he says he must also believe that the future of architecture lies solely in the designing of international labour camps for UNO who.

And what use are prophets unless they tell us what we should do in order to be saved? As a matter of fact, Mumford does tell us. After writing a series of large and fascinating books he tells us simply that we ought to love one another. We have in fact, been teld that already and in theory. we ought to love one another. We have in fact, been told that already and in theory everyone would agree with the proposal. But how do we do it? We are now divided and ruled, every man for himself and the Banker takes the hindmost.

I humbly prophesy that before long, after the Second Great Slump which is on the way, thanks to the new Peace Offensive, things will begin to come right because then

way, thanks to the new Peace Offensive, things will begin to come right because then we may begin to see at long last that machines are very good things indeed. They are good because they can be put to work while we go dancing, fishing or maybe designing some decent buildings for a change—and for love.

FRIC DE MARE.

London.

....and Another

SIR.—In the JOURNAL for April 23, ASTRAGAL made some remarks about Art and Technics, a new collection of essays by Lewis Mumford. It is a matter of profound concern that one in so influential a position as ASTRAGAL should (a) utterly misunderstand Mumford's whole philosophy (for he never suggests that we smash our machines), and (b) write with such appalling indifference about the death of our civilization, when even he sees the when even he sees the civilization, symptoms.

"The burden of renewal lies upon us." It is we who must cry in active protest, for this indifference will spell our doom.

" STUDENT."

Open Planning

SIR,—May I say a few words about open planning, which ASTRAGAL discussed the other week?

Surely we all agree that one looks so very

Surely we all agree that one looks so very unbecoming on a staircase—and of course the direction of motion is only too often most embarrassing to the rest of the company especially if young ladies are present. Perhaps this is the reason why one can observe in every castle's keep staircases sunken into the thickness of the walls, and I do not know why this fine tradition cannot be kept

Talking about castles, I think that a moat and a drawbridge or, perhaps, a miniature barbican should be more earnestly studied (examples may be noted in any of the better class suburbs) as their suitable incorporation

class suburbs) as their suitable incorporation into domestic architecture would certainly relieve the occupants of unwanted visitors. The so-called "open plan," which throws open to everyone's view the dining room and kitchen, I call stupid anarchy, with the Master of the Household having to consume his medicing full view of the rest of the his meals in full view of the rest of the

I suppose next all the family will ask for equal shares. This will never do. And think of the cabbage water.

"HORNBLOWER."

Advertising and Architecture?

SIR,—ASTRAGAL made kindly mention of my recent World's Press News article on outdoor advertising in his column (April 9) and I have surprised the office cats (there are many) by purring loudly ever since.

But despite a very real veneration of

ASTRAGAL for his wit, knowledge and humanity, and a reluctance therefore to feel anything but delight that he mentioned the article at all. I feel I should say that one of his sentences disappointed me.

"If advertising is agreed to be a useful activity—and I really can't go into this now—then space must be found for it to operate." This remark by ASTRAGAL, while reasonable in so far as it goes, seems to imply a wrong attitude of mind. It is a talkertier so granding as to haul close to to urge the suppression of much outdoor advertising.

Most people will agree that advertising is not an accident—it is, after all, merely communication. While it may, at present, be a bad contributor to townscape, it has a job to do, and the suppression of it, as is now being considered for Trafalgar as is now being considered for Trafalgar Square and elsewhere, is not the answer. After all, you do not suppress a bad boy (in Trafalgar Square regions I suppose he would be a juvenile delinquent), instead you show him how to be good, and then you go further by encouraging him to express himself.

Of course, if the bad boy goes on being bad for long enough, it is true that you do finally suppress him by the melancholy expedient of locking him away. So the question really is: "Have architects and planners ever tried to show advertising tycoons how to be good?" I think the answer is "no." Most men of commerce still seem to be worried by functionalism and terrified of townscape. It is therefore not proper to use suppression methods at this stage. this stage.

The colour and nonsense of advertising has much which is worthwhile to offer the mild puritanism of modern architecture. Could we not therefore shower propaganda at its creators and look forward to the time when standards have so much improved that advertisers will be welcomed instead of tolerated or rejected? If propaganda pro-duces no results we might then be justified in reaching for our guns.

ALEXANDER BARRIE.

[See frontispiece, page 572-ED.]

SIR,-I was a little shocked to see the relationship between outdoor advertising and architecture described (ASTRAGAL'S column: April 9) as "an affaire which has been mov-April 9) as "an attaire which has been moving slowly for years and shows no sign of increasing in warmth." So far as my firm is concerned, our partnership with architects has been going on so long that it could fairly be described, not as an "affaire" but as a very happy marriage! Our first chief consultant, 25 years ago, was Sir Reginald Blomfield. More recently, Rolf Hellberg designed what has become Sir Reginald Blomfield. More recently, Rolf Hellberg designed what has become our standard poster panel, and we now employ a consultant architect on all design and planning matters. The offspring of this liaison has been prolific, vigorous and, I like to think, grows steadily in comeliness.

We appreciate, too, the friendly advice and constructive criticism of some planning officers. There is still, however, in many otherwise enlightened quarters a blind prejudice against all forms of outdoor advertising and a complete lack of appreciation of its economic necessity. This is one of the chief obstacles to further progress. of the chief obstacles to further progress.

GEORGE T. MILLS.



ROYAL ACADEMY Summer Exhibition

The 184th Royal Academy Summer Exhibition opened on May 2. There are 88 exhibits in the Architectural Room (for reproductions see pages 580-582). The hanging committee for this room was Sir Giles Gilbert Scott and Louis de Soissons. Apart from the work of associates and academicians, the selection was made from 169 submissions of which 27 were accepted and 51 turned down, the remaining exhibits being chosen from 91 items classed as doubtful.

Shortly before the exhibition opened Louis de Soissons was elected an academician and Basil Spence an associate. This brings the architect members in each category to five. The exhibition is open on weekdays, 9.30 a.m. to 7 p.m.; Sundays 2 p.m. to 6 p.m. The exhibition closes on August 16.

EXHIBITION

"Royal Occasions"

An exhibition entitled "Royal Occasions," organized by the Tea Bureau, will be opened at the Tea Centre, 22, Regent Street, on May 12. The aim of the exhibition, which has been organized with the help of Barbara Jones, is to show how great royal occasions of rejoicing or sorrow such as Coronations, christenings, weddings, jubilees and funerals have been a stimulus to popular art.

The exhibition will include pottery and porcelain souvenirs, popular prints and drawings, newspaper and magazine records and souvenirs such as pin-cushions and tea caddies.

There will also be panoramas of Coronations, full size models of royal wedding cakes, examples of patriotic sculpture in sugar and bread and a model showing the decoration of royal trains. The exhibition will be open from 10.30 a.m. to 6.30 p.m.; Saturdays until 1 p.m. It closes on June 13.

LONDON

Good Progress on Old Street Housing Site

Going up rapidly on Finsbury Borough Council's Old Street housing site are London's tallest flats—three 12-storey starshaped blocks, designed by Joseph Emberton. Each block will contain 60 flats—on each floor, two flats in each of the two longer wings (with balcony access) and one flat in the shorter wing (with access direct

from the staircase landing). In the central well are two lifts and two staircases. Each flat has a private balcony reached from the

living room.

Construction is very straightforward: pile foundations, R.C. frame, with in situ confoundations. construction is very straightforward; pile foundations, R.C. frame, with in situ concrete floors; cladding of cavity walls, with an outer skin of 4½-in. brickwork and an inner skin of hollow breeze blocks (also used for the partitions); window frames and in-

ternal door frames are of steel.

A central heating system is to be installed, with one boiler house, in the basement of

one of the blocks, serving all 180 flats.

Vertical materials' handling is entirely by means of platform hoists; no cranes have been used. Reinforcement for the concrete

been used. Reinforcement for the concrete work is preformed on the site.

Work on the site, excluding piling, commenced on April 7 last year, the contract being for two years. But work is now 4 or 5 months ahead of schedule and it is anticipated that all 3 blocks will be completed by the and of the transfer that by the end of this year. Mr. Emberton told a representative of the JOURNAL that this rapid progress was due to the fact that since the men repeated the same job on each floor they became very quick at it. For example, at first it had taken them 5 weeks per floor, now they had got it down to 10 days.

now they had got it down to 10 days. "The only way to build economically (said Mr. Emberton) is to mass produce, that is, to repeat the same thing a large number of times—which is so easy with high buildings. Each floor of 5 flats is reproduced in every particular 36 times. The plumbing details to bath and w.c. are each reproduced 144 times and 36 times respectively."

(See illustration on page 580.)

COMPETITION

Dwellings in Dover

The Dover Corporation invites architects resident in the United Kingdom to submit designs in competition for dwelling accommodation on a site in Marine Parade, Dover. The site has an area of 6.5 acres, excluding portions of surrounding streets. There will be six prizes: 1,000 guineas, 500 guineas, 250 g guineas, 250 guineas, 150 guineas, 75 guineas and 50 guineas.

The assessor will be Arthur W. Kenyon,

C.B.E., F.R.I.B.A., DIS.T.P., M.T.P.I.

The closing date for the submission of designs is September 10, and the last day for questions is June 15.

Competition conditions and a plan of the

competition conditions and a plan of the site may be obtained from James A. Johnson, Town Clerk, New Bridge House, Dover, on payment of a deposit of two guineas, which will be returned on receipt of a bona fide design, or on the return of the competition documents at least four weeks before the last day for the submission of design.

RICS

Quantity Surveyors Debate Competitive Tendering

"If competitive tendering had been strictly applied since the war many of our new and interesting building methods would never

have been developed."

This was one of the main arguments put forward by the supporters of the motion "That this meeting considers that competitive tendering is not conducive to economical building," debated last week at a meeting of the junior organization of the RICS London.

The motion was proposed by J. Nisbet, who outlined most of the familiar arguments against competitive tendering. He

gave examples of how the competitive system was undermined by price rings and quoted the case reported last week in the national Press. He pointed out the differ-ence between "economical" building and cheap " building. Economical building, he said, did not mean a fair price for a particular job, for that particular way of doing the job might not necessarily be the most economical way.

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Mr. Nisbet's main criticism of competitive tendering was that it kept the designer and the constructor apart and that it tended to perpetuate old and uneconomical forms of

building.

J. Green, who opposed the motion, asked whether it was necessary for the contractor to come in at the beginning, as the opponents of competitive tendering claimed. "I suggest," he said, "that if your architect needs the contractor's help in design perhaps you have the wrong architect. If he needs specialist help he should go to consultants, even if this means adjusting his fee accord-Advice on comparative costs can be given by the quantity surveyor if he is brought in early enough."

Mr. Green suggested that architects and quantity surveyors should get to know more about specialist work. Consultants should design it, quantities should be drawn up and it should go out to tender. (He mentioned special classes being organized for quantity surveyors so that they might learn about drawing up quantities for specialist work. If competitive tendering had ceased to be truly competitive in many respects, this did not mean that truly competitive tendering was not conducive to economical building.

This line of thought was followed up by Mr. Green's seconder, D. Cohen, who pointed out that the main faults with the present system of competitive tendering had been outlined in the Simon Report. are not faults inherent in the system (he said), they are faults of the way it is being used, or rather, abused." Most of these used, or rather, abused." Most of these faults could be remedied, as they were, in fact, remedied in America; they were mostly the responsibility of the building owner.

In the general discussion on the motion,

In the general discussion on the mouon, David Medd, an MOE architect, said that we must look towards other industries and learn from them. Building was becoming more and more complicated and the architect could not possibly be expected to understand all the specialist jobs involved in modern building.

We needed to collaborate, said Mr. Medd, with progressive firms of manufacturers rather than with consultants, for consultants preferred to draw up designs that all firms could produce, thereby perpetuating out-of-date methods. To find a new form of condate methods. tract to meet the new situation in the build-

tract to meet the new situation in the bull-ing industry was a creative job for the quantity surveyors.

Most of the quantity surveyors present, as the voting at the end of the meeting showed, were in favour of competitive tendering and highly suspicious of all the alternatives that have yet been put forward.

Appreciation of Robert Matthew

At a recent meeting of the LCC General Purposes Committee, Victor Mishcon, the chairman, moved a resolution of apprecia-tion of the services of Robert H. Matthew as architect to the Council and superintendas architect to the Council and superintending architect of metropolitan building. He said of Mr. Matthew (who left the LCC last week to become principal of the School of Architecture, Edinburgh College of Art):
"Mr. Matthew is held in the highest regard in his profession; he has filled the office of architect to the Council with great distinctions when he has the last the same and the same architecture.

distinction. Apart from the better-known aspects of his work the architect is

BUILDINGS IN THE NEWS

The four buildings illustrated on this page are chosen from the many new structures exhibited in the prefabricated buildings section at the BIF, Earl's Court. An article on the buildings will be published in the JOURNAL for May 21.

Right, a two-storey three-bedroom house of 950 sq. ft., designed by S. K. Biggs and D. J. Middlebrook and manufactured by H. Newsum, Sons & Co. Ltd. on the same principle as the Riley-Newsum single-storey house described in the JOURNAL for October 2, 1952.





Left, a two-bedroom house, designed by J. A. Findlay of K.D. Homes (London), Ltd. The house on view is 776 sq. ft. in area and costs £1,265 f.o.b. The 4-ft. wide insulated panels are faced externally with steel on a timber or steel frame.

Right, a two-bedroom prefabricated Canadian cedarwood house of 650 sq. ft. manufactured by Neata Products (Cheltenham), Ltd. (consulting architects, L. W. Barnard and Partners). Various designs can be built from the standard range of units.





Left, the three-bedroom "Precut" house, designed by Frederick Cubitt and manufactured by R. Nerdrum, Ltd. The construction is of 2½-in. solid wood, with no framing, and the floor area is 920 sq. ft. This demonstration house is at Chelsea Square, S.W.3; the ex nibit at the BIF shows the system of construction.

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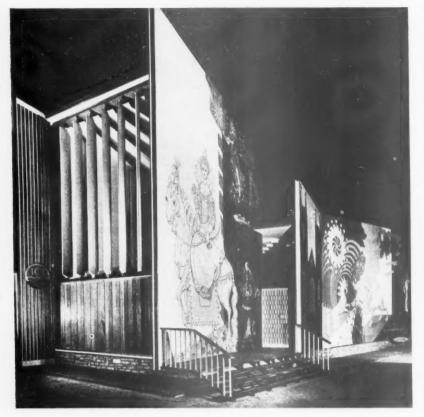
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SOME OF THE EXHIBITION STANDS AT THE



Left, the Imperial Chemical Industries
Ltd. stand, at Olympia, designed by Basil
Spence, primarily as a meeting place for
buyers. The murals, by Laurence Scarfe,
represent "Elizabeth I" and "This
Coronation Year." Materials used include
goncales alves wood for the steps, riven slate
slabs for the floor, and Birkbeck stone for
the rubble wall. Below, the entrance to the
Exhibitors' Club at Olympia, designed by

H. Bryant of the MOW.

BIF.



Below, two of the stands in the prefabricated buildings section at the BIF, Earl's Court. Left, the stand for C.D. Productions, Ltd., designed by Francis Pym and Philip Dowson. This stand exhibits the Punt System of stressed-skin plywood wall and roof panels, based on a 40-in. module, designed by Ove Arup and Partners. Right, the Arcon stand designed by Rodney Thomas and Associates. This stand exhibits photographs and models of various "Arcon" prefabricated structures; see also feature on

pages 593 and 594. On the opposite page, three stands at Olympia. Top, the offices and terrace of the Shell Petroleum Ltd. stand; centre, the Johnson, Matthey & Co. Ltd. stand. (Both were designed by Ronald Dickens and Richard B. Hornby.) Bottom, the stand of National Titanium Pigments Ltd., designed by J. S. Foxell of Sir William Crawford and Partners, Ltd. The glazed showcase contains articles treated with the company's products.





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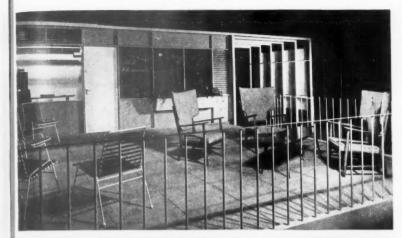
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responsible for a great deal of unspectacular work which nevertheless is of the utmost importance to the safety and well-being of the public. We think it fitting to pay tribute here to the administrative ability and human qualities which he has applied with great success to the direction of a large and complex department. His unfailing patience and kindness have endeared him to members, to his department, and to his fellow officers throughout the service. We regret the loss of his services to the Council, and we are sure that the Council will wish him well in his future career."

ASTRAGAL comments on page 569.

AA

New President Appointed

Sir Hugh Casson has been appointed president of the Architectural Association for the 107th session, commencing June 1, 1953.

STEVENAGE

Chairman of Development Corporation Resigns

Sir Thomas Bennett is to resign from his position as chairman of the Stevenage New Town Development Corporation. The Minister of Housing and Local Government proposes to appoint Sir Roydon Nash, hitherto vice-chairman of the Bracknell Development Corporation, in his place. Sir Thomas Bennett will continue with his work as chairman of the Crawley Development Corporation.

COVENTRY

New Shops and Offices

The work on Broadgate House, the new block of shops and offices at Coventry, commented on by ASTRAGAL on page 569, was very largely undertaken by Frank Moate, of the city architect's department—not by R. Ash, as stated in last week's JOURNAL (page 548), where the scheme was illustrated.

DIART

Library Group Meeting devoted partly to the identification of unknown drawings in the possession of the Library. At the RIBA, 66, Portland Place, W.1. 6 p.m.

MAY 1

The Christian Theme in Contemporary Arts. Exhibition at Park Lane House, 45, Park Lane, W.1. (Sponsor: International Faculty of Arts.) 10 a.m. to 10 p.m. Sundays 2 p.m. to 10 p.m. (closed June 1, 2 and 3).

MAY 12-JUNE 18

and 3).

Colonial Baroque in Mexico. R. C.
Taylor. At the Courtauld Institute of Art,
20, Portman Square, W.1. (Tickets must be
obtained in advance from the Registrar.)
5.30 p.m.

May 12

Lighting in Australia and Europe. D. C. B. Maclurcan. At the IES, 32, Victoria Street, S.W.I. After Annual General Meeting.

The Structural Aspect of Power Station Design in South Africa. G. M. Frost. At the ISE, 11, Upper Belgrave Street, S.W.1. 6 p.m. May 14

Contemporary Furnishings. Travelling exhibition. At Ebbutt's Ltd., 53-59, High Street, Croydon. (Sponsor: COID.) Weekdays, 9 a.m. to 5.30 p.m.; Wednesdays, until 1 p.m.

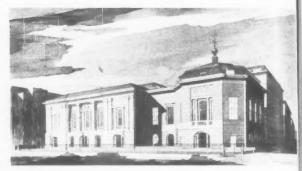
UNTIL MAY 16

A SELECTION FROM THE ARCHITECTURAL ROOM, ROYAL ACADEMY SUMM





Top, flats and commercial development in Old Street, for Finsbury Borough Council, designed by Joseph Emberton. Drawn by Lawrence Wright. Above, Sailors Home and Ensign Club, Dock Street, E.I, designed by Brian O'Rorke. Drawn by E. J. Thring. Right: top, Trinity House, Tower Hill, designed by A. E. Richardson. Drawn by E. A. S. Houfe. Right: centre, flats in Abercorn Place, St. Marylebone, Clifford Culpin and Partner. Drawn by Lawrence Wright. Right: bottom, Watling House, Cannon Street, E.C.4, designed by Howard Robertson. Drawn by Frank A. Weemys. Below, St. Paul's precinct, redevelopment unit No. 1, Cheapside, designed by Victor Heal and Smith. Drawn by Cyril A. Farey.











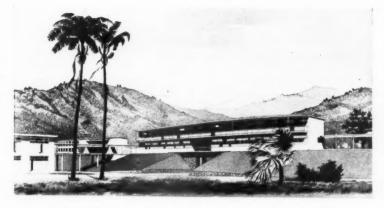
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Right, technolo Sheffield Melvin,

> Below, Lisburn S. W Drawn

EMY SUMMER EXHIBITION

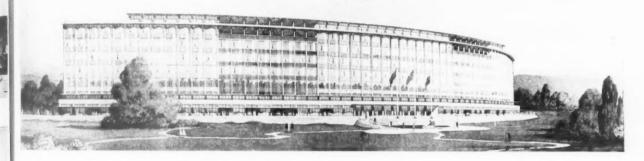
Right, the teaching hospital of the West Indies: view from central garden, looking north. Designed by Graham Dawbarn (Norman and Dawbarn). Drawn by Gordon Cullen.



Right, a model of the colleges of technology and commerce for Sheffield, designed by Gollins, Melvin, Ward and Partners.



Below, Brookhill Chest Hospital, Lisburn, N. Ireland, designed by S. W. Milburn and Partners. Drawn by Cyril Farey and Adam.



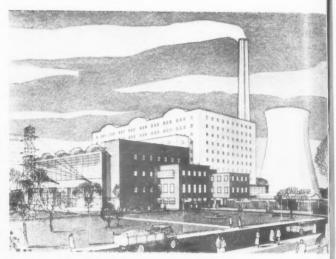
Below, proposed department of engineering, Queen Mary College, University of London, designed by Wornum and Playne. Drawn by Frank Hoar. Right, Quentin School and County Complement, designed by Edward D. Mills for the LCC. Drawn by Lawrence Wright.

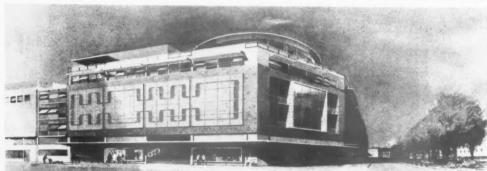




ROYAL ACADEMY (continued)

Right, the Ferrybridge "B" generating station designed by L. K. Watson and H. J. Coates. Drawn by W. R. Haden.





Left, a proposal for a shop at Hemel Hempstead, designed, by Louis de Soissons. Drawn by G. C. Budgener.

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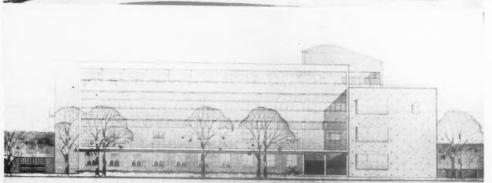
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Left, printing works at Langston Road, Debden, designed by Howard Robertson. Drawn by T. J. Rendle.



Left, the Weir Wood
Water Board treatment
works at Forest Row,
Sussex, designed by
John A. Strubbe. Drawn
by Lawrence Wright.

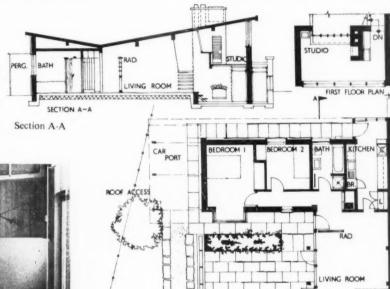


Left, Bournemouth Telephone Exchange, designed by Christopher J. Woodbridge, of the MOW. Drawn by E.J. Thring. HOUSE IN CHADWICK LANE, HEYWOOD, LANCS.

The house illustrated on page was designed the owner-occupier, Harry S. Barnes, for his own use, and he and his staff carried out much of the building work during their spare time. The owner lived in a caravan on the site while the house was being built. The photograph on the right, from the north-west, shows the window to the upstairs studio on the extreme right.

Below, the living room, showing the low level part of the living room and cantilevered steps to the studio. Bottom, a view looking southwards across the terrace towards the large french windows to the living room. The only fireplace in the house is in the low level area known as the "snug," which has a door direct into the heating chamber. The remain-









Ground and first floor plans [Scale: 1 0]

CHADWICK

der of the house is heated by coils laid in the concrete floor, and there is a radiator in the main living space, surmounted by shelves to carry indoor plants. Ash from the open fireplace falls into a tray which is accessible from the boiler house. In the upper floor studio there is a tall filing cabinet built into the chimney breast. The contractors were Elihu Harrison & Sons. Sub-contractors, page 598. The cost was £2,547, including drains, excluding land.

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584] The Architects' Journal for May 7, 1953

FLATS

in RECTORY LANE, WALLINGTON, SURREY designed by PITE, SON and FAIRWEATHER quantity surveyor, D. R. NOLANS and CO.

Marlesford Court, Wallington, contains sixteen flats in one 3-storey block and two 2-storey blocks in the grounds of an existing Victorian house, which is itself being converted into five flats. The clients—the Borough of Beddington and Wallington—required 2-bedroom flats in all cases, suitable for four people each in the 3-storey block and three people each in the 2-storey blocks, which were intended for elderly people. Individual gardens, sheds and common drying areas, as well as lock-up garages, were also required.

View from the south-west across Rectory Lane.



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Lane.



WORKING DETAIL

ACCESS BALCONY: FLATS AT WALLINGTON

Pite. Son and Fairweather, architects

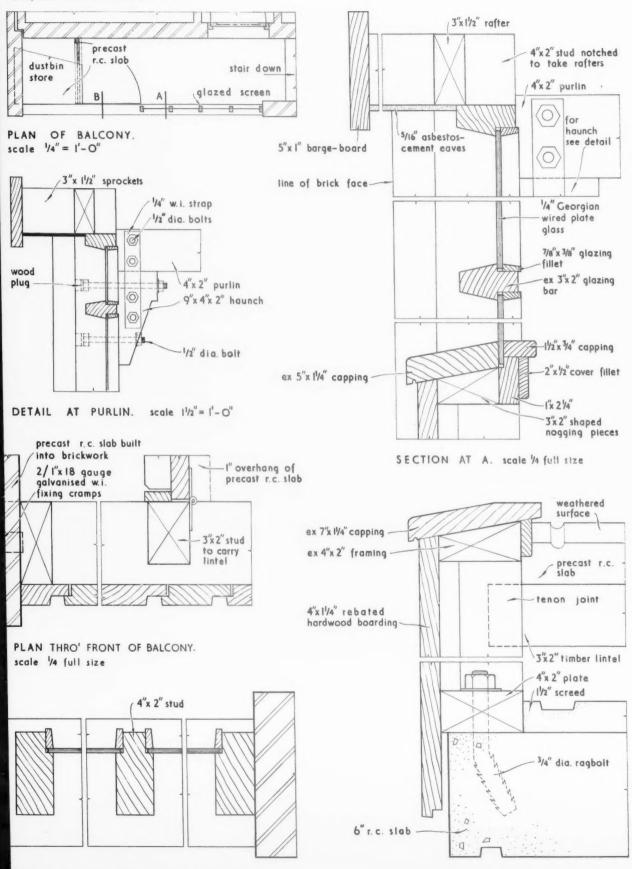


The balcony wall of hardwood boarding conceals a small store for the dustbin and the glazed screen is of Georgian wired glass

WORKING DETAIL

ACCESS BALCONY: FLATS AT WALLINGTON

Pite, Son and Fairweather, architects



PLAN OF GLAZED SCREEN. scale 1/4 full size

SECTION AT B. scale 1/4 full size

5

WORKING DETAIL

WALL AND BALCONIES: FLATS IN LONDON, S.W. 1

Powell and Moya, architects

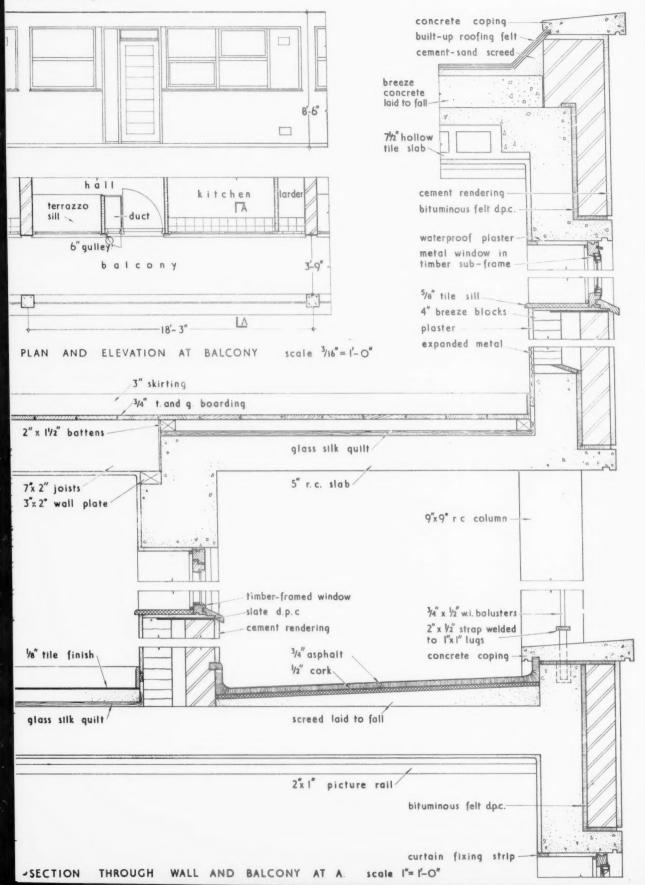


Reinforced concrete slabs, connected by columns, form the top and bottom of the balconies, the latter being a continuation of the floor which divides the upper flats from the lower

WORKING DETAIL

WALL AND BALCONIES: FLATS IN LONDON, S.W. 1

Powell and Moya, architects





SIT dete ord also area blo exi gar hel sou SITE.—The position of the old house largely determined the siting of the new buildings. In order to obtain a good aspect and orientation and also to conceal the private gardens, sheds and drying areas from the road, the architects set the 3-storey block forward, parallel to the road. The two smaller blocks are at the south end of the site, adjacent to existing 2-storey houses in Rectory Lane. They are set back and staggered so that glimpses of the gardens can be had and the scale of these blocks helps the transition from the existing houses to the south and the 3-storey block. There is a sharp fall between the road and the 3-storey block.



Above, the east facade of the 3-storey flats. Above, right, garden layout looking south from the old house.



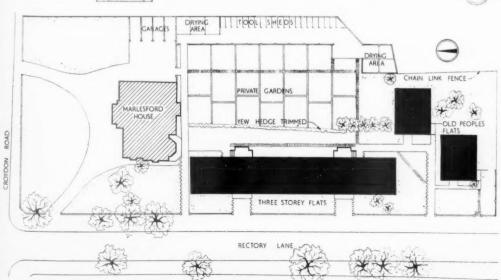
FLATS

in WALLINGTON, SURREY

designed by PITE, SON and FAIR WEATHER



Ground and typical upper floor plans [Scale: $z_4'' = 1'0''$]



Site plan



Above, main entrance on the west elevation of the 3-storey block.

PLAN.-In the large block there is staircase access to each group of six flats. In each flat the living room and the kitchen is near the entrance; bedrooms and bathroom are grouped around a lobby at the end of the hall. Double glazed doors between the living room and the entrance hall provide light and help to avoid the effect of a corridor. Balconies are provided to upper floor living rooms. Airing balconies open off upper floor kitchens. Obscured glazed screens conceal the washing. Open slats in the lower part of the balconies and a gap at the top of the glass provide circulation of air. Refuse areas are placed at the rear of the block. In the 2-storey blocks there are separate entrances to upper and lower flats, but the internal arrangement is very similar to that in the 3-storey flats.

CONSTRUCTION.—The external and party walls are of II-in. cavity brickwork. Spine walls and cross walls are 9-in. thick and partitions are of clinker blocks. Floors are of precast concrete. Staircases and balconies are of *in situ* concrete. Roofs are of timber trussed rafters at 30 deg. pitch.

FINISHES.—Dark multi-buff Ibstock facing bricks, with flush pointing, are used throughout. Window frames are of wood, painted white, and eaves and balcony soffits are duck-egg green. Walls of the recessed entrances and balconies in the 2-storey

Cross

house

block

wired

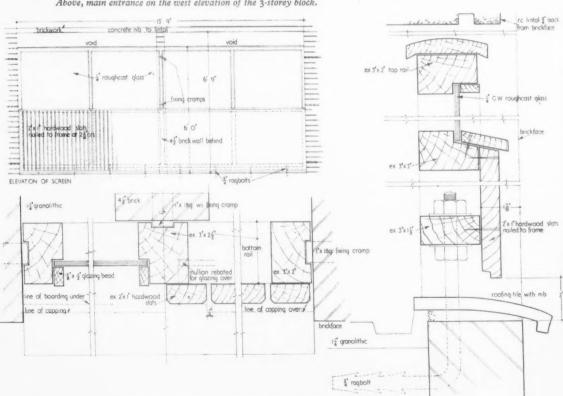
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External elevation, plans at upper and lower levels and section through balcony screen [Scales: \{ and 3 = 1 0 \}]

6"x1" ridge --cement fillet 6x1" barge board 4°x 1½" rafters 3 100 gallon cw. storage VERCE DETAIL 4 x 15 joists of 18 crs 3°x 14° wall plate a ochestos soffit partiles over party wall 2nd floor asbestos-felt insulation 6" insitu concrete floo second floor ceiling rough-cast doo glass hardwood battens nailed 2 4x3°rs L's as lintel AIRING BALCON PARTY WALL 13 x 3 splayed cornice overhead door closer fairfaced brickwork 13 x 3 concave rail fuel hoppe grano skirting MAIN ENTRANCE 6 hardcare REFUSE [Scale : 1 " = 1' 0"] Cross section through entrance and staircase, three storey block

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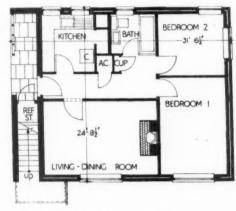
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The work was carried out as a single contract, begun in mid-October, 1951, and completed on time at the end of August, 1952. The contract price, including external works, sheds, etc., was £26,717. The price per ft. cub. was 3s. 41d. for the 3-storey flats and 3s. 8d. for the 2-storey flats.

The general contractors were Walker (Tooting), Ltd. For sub-contractors see page 598.

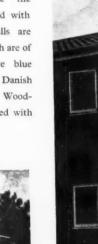


Ground floor plan of two-storey block [Scale: $\frac{1}{10}$ " = 1'0"]

FLATS

in WALLINGTON, SURREY designed by PITE, SON and FAIR WEATHER

wired, rough-cast, glazed screens. Stove enamelled shields over main entrances incorporate the Borough Coat of Arms. Roofs are covered with concrete interlocking tiles. Internally, walls are plastered and distempered, except halls, which are of fair-faced brickwork. Living rooms have blue ceilings, light grey walls and a panel of Danish wallpaper under the recessed window sill. Woodwork is painted white and floors are covered with composition tiles.



Below left, south facade of one of the two-storey blocks. Below, looking south at the two blocks of old people's flats. See Working

Detail between pages 584 and 585.





houses are painted terra-cotta or dark blue-grey; those in the recessed airing balconies in the 3-storey block are painted dark green behind the Georgian 588] The Architects' Journal for May 7, 1955

HOUSE

in FITZROY PARK, HIGHGATE, LONDON N.6

designed by C. G. STILLMAN

assistant architects PAMELA STILLMAN and JOHN STILLMAN



The south-west window of the living room.

The planning of this house in Highgate was controlled by three major conditions: the quadrant shape of the small site on a sharp bend of the road, the steep fall of ground on the south side and the existence of a very large chestnut tree just outside the south boundary of the site. The orientation of the house had to be chosen to give the maximum distance from the overhang of the tree to the house and necessitated stepping down the contours.

View of the entrance front from the west.



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Right, the paved terrace and french windows leading to the dining space, seen from the east. Below, right, a general view from the southeast. Bottom, right, stairs from the front entrance, looking towards the dining

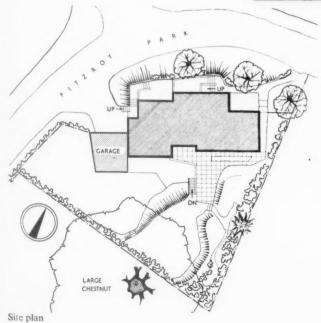
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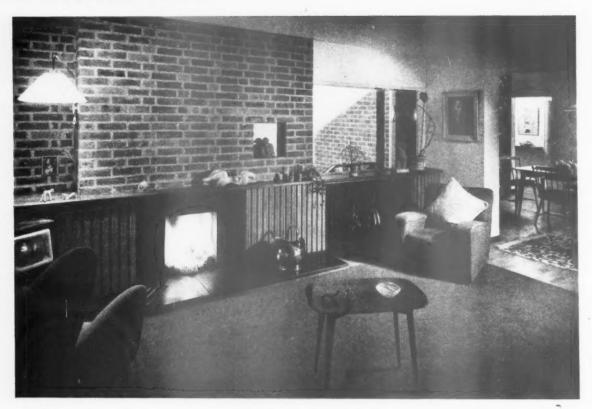
PLAN.—The ground floor includes complete living accommodation for three to four persons, with the sleeping quarters and bathroom grouped separately for quiet and privacy. The fall in the site allows for a drawing office for the client, who is also the architect, and a room which can be used as a third bedroom, under the living accommodation, and also a double garage level with the road and accessible by steps formed in the bank. There is a service entrance to the kitchen approached by a path from the road at its highest level. The dining space has direct access to the garden and a paved terrace.







CONSTRUCTION and FINISHES.—External walls are of 11-in. load-bearing cavity brickwork, internal walls are of 4½-in. brick. The roof is covered with slates on battens and felt. Floors are of *in situ* concrete and precast concrete beams and hollow tile construction. Internally walls are plastered and finished with emulsion paint, with



HOUSE

in FITZROY PARK, LONDON, N.6. designed by C. G. STILLMAN

Above, the living room, showing the window which overlooks the staircase and lobby. Right, dining area and hatch to the kitchen.



Ground floor plan [Scale: 44" = 1'0"]



Lower ground floor plan



areas of fair faced stock brick in the living area and entrance lobby. Floor: light oak wood blocks, except kitchen, bathroom, etc.— plast'c tiles.

SERVICES.—The boiler situated in the basement supplies domestic hot water and central heating to certain parts of the house. There are open fires in the living room and the work room under.

The general contractors were Prestige & Co., Ltd. For sub-contractors, see page 598.

TECHNICAL SECTION

Last week, David Eccles, the Minister of Works, and Ernest Marples, Parliamentary Secretary to MOHLG, inspected eight houses at Basingstoke built as part of a joint MOHLG/MOW experiment designed to reduce the amount of softwood used in housing. A wide variety of alternatives have been used in the experiment, from hardwood to prestressed "planks" of hollow clay blocks, but in each case but one the result has been to raise the cost—the first floor by between £21 and £42, and the roof by between £17 and £39. (Full details are contained in the report, *Houses that Save Softwood* [HMSO, 1s. 6d.].)

Softwood is by no means as scarce today as it was when this valuable experiment was initiated, although severe shortages may occur again, and few local authorities are at present likely, therefore, to spend the extra money on houses. But, now that the two ministries have, in effect, sanctioned extra expenditure in order to save softwood, there can no longer be any excuse for those local authorities who, presumably on grounds of economy, have hitherto used timber floors to separate flats to continue this practice.

Recent experiments reported in the Swiss journal *Acustica* (Vol. 2, No. 6) show that joist floors (whether timber or open-web) cannot provide adequate sound insulation, even when pugged and covered with a glass-wool blanket, and should never, therefore, be used between flats.

This week's special feature

17 CONSTRUCTION: GENERAL modern housing

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

Ronald W. Wates, extracts from whose recent paper to the RICS are published below, favours the use of calculated load-bearing brickwork for 4- or 5-storey flats. For taller buildings, he believes that a reinforced concrete framed structure, with non-structural walls, gives the speediest and cheapest job. That it is speedy is certainly borne out by the rate at which three 12-storey blocks of flats are being erected at Old Street, Finsbury (see news item on p. 576 and photo on p. 580).

I think it is true to say that there have been no revolutionary changes in traditional construction during recent years, although there have been changes in detail, such as the use of solid ground floors, cavity party walls, single-lap interlocking concrete tiles, and single-stack plumbing.

Lack of timber has forced a more scientific approach to its use, and we are probably getting sounder timber construction (particularly for our roofs) than we did in the old days when it

was cheap and could be used liberally. It is fairly common practice now to construct roofs with light timber trusses spanning the whole depth of the house; thus removing the need for internal structural walls. Apart from cost saving, this method, by permitting the construction of internal walls after the roof is on, enables more work to be carried on under cover than was previously the case.

Whilst speaking of saving timber I

must not fail to mention the invaluable

contribution of metal timber connectors. In designing a truss with the least amount of timber it is often found that a section of timber which is adequately strong for its particular purpose as a member is not large enough to make a secure joint—there is just not enough material to take the bearing stresses of bolts or nails. Timber connectors, used in conjunction with bolts, spread these stresses very effectively and make a simple and perfect joint without requiring additional timber.

NON-TRADITIONAL HOUSE CONSTRUCTION

Non-traditional methods of house construction have become an increasing influence in post-war housing. Of the houses built by local authorities since the war, approximately 20 per cent. have been non-traditional. Only a comparative handful, however, of the enormous number of alternative constructions evolved in the immediate post-war period have proved themselves really worth while. These halfdozen different systems have accounted for over half the total of non-traditional houses. With certain compara-tively minor exceptions, the new methods have been mainly concerned with the building of walls, and fall into the following four broad divisions:-

i. Concrete post and panel.ii. Structural pre-cast concrete panels.

iii. No fines solid *in situ* concrete, iv. *In situ* concrete cavity walls. (The last two depend largely on special

shuttering systems.)

It is disappointing that in none of the successful non-traditional houses has there been any noticeable development of alternative methods of constructing the internal parts of a house. Had timber been more abundant it would have been possible to develop a number of methods of dry wall construction for partitions. However, the fundamental virtues of non-traditional construction remain. These are the reduction of site labour-particularly skilled labourby mechanical means and otherwise. and the avoidance of building materials in short supply—in other words, more houses from the same resources, and, of course, much more quickly

In this vital function, non-traditional methods have proved, and are proving, invaluable. This is particularly true in districts (and there are many of them) where building labour is scarce and bricks practically non-existent. Were it not for the non-traditional systems and, just as important, the organizations behind them, such districts would have found it an impossible task to provide more than a small fraction of

their post-war houses.

FLATS

There is no doubt in my mind that for four-storey buildings and possibly even five-, calculated load-bearing brickwork, with or without concrete

spine beams and central columns, is the quickest and cheapest job. For five storeys and upwards, although load-bearing brickwork is straightforward and has much to commend it as a method where bricklayers and bricks are abundant, my experience has shown that a reinforced concrete framed structure with non-structural walls is by far the speediest and cheapest job.

With this, as indeed with the construction of any large building, I attach the greatest possible importance to the collaboration, from the very inception, of the architect, engineer and contractor. Where speed and economy are of prime importance it is absolutely essential that the plan, construction and the contractors' methods are mutually suited. From the builder's point of view the important points are simplicity of shape, standardization of span and size of member, and the maximum repetition of the same block.

The erection speed of several recent reinforced concrete frame buildings in London has been aided by the practice of pre-casting the exposed lower portions of beams, thereby much simplifying the shuttering, and I would like to include this in my ideal constructional method. An important advantage of the framed building is the facility of being able to build the walls in the comparative shelter of floors and roof.

At least four of the non-traditional house-building systems have now been successfully employed for flats. Indeed there seems to be no theoretical reason why any of the proven methods should not be used in multi-storey buildings, and much interesting work is going on in this field.

PLANT

Before the war, only on a very few housing contracts would one see any lifting device apart from hoists, and then it would usually be on town jobs that one might occasionally find a Scotch derrick, or immediately before the war, a Monotower type of crane.

Since the war, on many contracts, including housing contracts, mobile cranes of a 2-5 ton variety have been employed. My firm adapts crawler excavators for use in the construction of non-traditional houses—having previously recognized that, since building is in the main the science of lifting, we might just as well lift large units as small ones.

In multi-storey work, we have made successful use of the Scotch derrick type of crane on several post-war housing contracts, and we were very glad to purchase, when permitted, the French type of Monotower crane, which in our opinion shows a great advance upon anything seen before. We have now been using them for some time with great success. These

cranes eliminate a great deal of the hard work which normally went into the construction of the multi-storey building. For instance, on a contract at Clapham, the concreting of floors, and walls of 7-in. thickness, is carried out at a labour cost of 9s. per yd. cube, a figure approximately half that of the barrow-and-hoist method on a similar building. These cranes have also enabled us on this contract to use large shutters, about 12 ft. by 8 ft., i.e., floor to ceiling, and the walls have been poured in lifts of 8 ft., with a very great saving in labour, reduction of construction joints, and, of course, considerable speeding up of the work. In addition, we have been able to make the maximum use of bulk cement facilities and use a mobile weighing plant for the aggregates. We are on the threshold of fresh dis-

coveries in the use of these cranes, and the ease with which prefabricated components, which may be difficult to handle by other means, can be lifted and installed offers interesting possibilities. It is urgent, though, to explore the relationship between the proper use of such a machine and the design and construction of the building. Among other types of equipment which have seen considerable development since the war are the light

which have seen considerable development since the war are the light mobile hoists, power-driven barrows and small dumpers. Many of these are labour saving and economic. The aim all the time is to increase the horse-power on the job, and in this connection there is an increasing use of site-generated electricity for supplying power to skilsaws, vibrators and drills. Then, there is the bolt gun, which

fires a bolt through steel and into concrete. This tool has proved to be a remarkable development. On one contract, for example, in the fixing of steel windows to concrete surrounds, we have something like 35,000 bolts to fix. By using the bolt gun this task is speeded up enormously and the saving

of labour is considerable.

The post-war years have seen the rapid development of prefabricated scaffolds eliminating many connections and considerably reducing the labour involved. From a contractor's point of view, this is an important development because previously the losses of expensive connectors and fittings were enormous. As to mechanical trench digging, we ourselves have not met an efficient mechanical digger small enough for house foundations. On larger contracts we successfully use the familiar types of excavators, but conditions have to be really suitable. must mention also the development of the use of short auger piles on clay sites for domestic housing. This seems to me to represent the best and cheapest way of providing deep foundations to houses where these are necessary.



Architects: Howard V. Lobb & Partners, FF.R.I.B.A.

Hackney Secondary School, Paragon Road, Hackney

This is a good example of the modern trend in the design of educational buildings which is making our new schools among the finest in the world. The picture shows from left to right, Gymnasium Block, Practical Rooms, 3-storey Classroom Block, West Staircase, Main Entrance, Dining Hall and Terrace.

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"ARCON" STRUCTURES AT HOME AND ABROAD

The Arcon Group of companies put " on show " to the Press recently several additions to their range of prefabricated structures, including a general-purpose roof, a sawtooth roof, a three-pin frame and roof, and a form of "curtain walling." Models and photographs of these and other "Arcon" structures can now be seen at the BIF, Earls Court. Last year, the Arcon Group exported structures covering about 11,000,000 sq. ft. to more than 50 countries. They now hope to start supplying the home market too. On the right are four examples of the use of "Arcon" tropical roofing; from top to bottom, the interior of a church at Jamaica; houses for Asian workers, Dar-es-Salaam, Tanganyika; a five-span storage building, Kenya; a house at St. Antoine, Mauritius. Below, is an "Arcon" storage building under construction in Western Australia.











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.

9.34 design: general MODULAR CO-ORDINATION

Cheaper Building: The Contribution of Modular Co-ordination. M. Hartland Thomas. (Journal of RSA. Jan. 9, 1953.)

Also widely reported in other journals. A remarkably clear analysis of the part which modular co-ordination has played and could play in the building industry. The history of modular design in this country is well described by reference to various well-known examples. An interesting discussion followed and there was considerable support for the lecturer's proposal for the setting up of a private modular society. [Now, of course, in existence—ED.]

15.110 materials: applied finishes, treatments PAINTS

Emulsion Paints. BRS Digest No. 50. (HMSO. Jan., 1953. 3d.)

The very rapidly increasing popularity of emulsion paints makes this general note on their types and characteristics most timely.

The chief advantages of emulsion paints are: easy working, absence of smell, rapid drying, and some tolerance of damp surfaces. The disadvantages are: less protective value, insufficient evidence of long-term durability and effects of rusting steel and swelling of wood. The Digest describes the various classes of emulsion paint and tabulates them, with useful guidance on their various properties. What it unfortunately cannot do is to say under which type the multitude of proprietary brands come; if the paint salesman knows and will say, then one can to some extent apply the facts in the Digest; otherwise, one is still in the dark.

18.124 construction: theory WELDED DESIGN

The Use of Welding in Steel Building Structures. British Constructional Steelwork Association. Publication No. 6. (BCSA. 1952.)

This 6th publication of the BCSA deals primarily with shop-welded members for use in "simple" structures. 35 pp. 5 tables and 30 figs.

This publication covers the design of a welded plate girder, a crane girder and built-up stanchions. There are chapters on fillet and butt welds and their use in typical structural details, the practicability of welding and drawing office procedure. The booklet refers to mild steel (BS 15), high-tensile steel (BS 968), electrodes (BS 639), and design and fabrication are covered by BS 449 and BS 1856.

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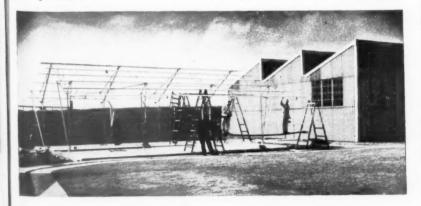
NEW "ARCON" STRUCTURES (continued)

In the photo at the bottom of the page can be seen the 3-pin "Arcon" frame under construction. On the right of the photo is the "Arcon" sawtooth building. 3-pin frame was designed for locations where wind-loading requirements are light -in particular for school buildings in Ceylon. It consists mainly of welded tubular The supports are at 12-ft. centres; the span is 21 ft., although with side extensions this is extended to 42 ft. The frames are erected in two halves and are "hinged up" into position; if aluminium cladding is used, it can be fixed to the frames while they are lying at ground level and raised with them. The sawtooth building has a span of 50 ft. and a normal length of 50 ft. It can be extended at the back or on either side. There are two heights-14 ft. 6 in. and 20 ft. 6 in. The roof trusses are of tubular steel, supported on R.S.J's. The centre photo shows the interior of the sawtooth building. The top photo shows the "Arcon" panel construction house, designed originally for housing in Australia. Planned on a 3-ft. 4-in. grid, the panels are lined externally with vertical weatherboarding. The roof goes on at an early stage so that work can continue irrespective of weather conditions. Cost erected is approximately £1,800. A similar system of panel construction is being used for dormitory buildings for Kuwait. Other new "Arcon" structures include general purpose and industrial trusses, of 20-ft. and 50-ft. span respectively. These are similar to the well-known "Arcon" tropical roof (see photos on page 593), except that the space between roof and ceiling is not ventilated. The trusses are of tubular steel, supported on R.S.J's; wind

bracing consists of ½-in. steel rods placed diagonally and tightened on the site; any type of walling may be used. "Arcon" curtain walling consists of storey-height panels of aluminium sheeting, joined together and to the internal lining of hardboard by 2-piece aluminium extrusions designed so that no holes need be drilled in the sheeting. Cost per square, approximately £23, erected. A list of the companies in the Arcon Group appears on page 598. The consulting architects to the Group are A. M. Gear and Rodney Thomas.







Emphasis is laid on the use of a minimum amount of weld metal and a minimum number of component parts; failure to observe these rules may lead to a more costly structure, despite a saving in weight. In the design of the welded plate girder a number of solutions are given to show the weights of steel and weld used in different designs.

18.25 construction: theory PRESTRESSED CONCRETE

Prestressed Concrete. Billig. (Macmillan & Co. Ltd. 1952. 36s.)

Comprehensive textbook on prestressed concrete, 470 pp. 92 figs.

Dr. Billig's book falls into 3 sections. The first section is a general survey of the subject dealing with materials, production, processes and plant, types of structures and descriptions of a few typical examples. This is, perhaps, the most comprehensive coverage to date.

The second section deals with design and has three interesting chapters on elasticity, continuity and ultimate strength. The author has used his own notation of over 100 symbols, which is a disadvantage to the reader who has mastered the notation of any previous work.

The third section is devoted to 15 examples which are worked out in some detail. They include a shell roof, a radio tower, a road bridge and a 1,000,000-gallon water tank. A draft code of practice for prestressed concrete is given in an appendix. At the end of each chapter a list of references is given for the reader who wishes to go further with any particular problem.

25.93 water supply and sanitation BY-LAWS

New Building By-laws. (The Plumber & Journal of Heating. Jan., 1953.)

Long editorial raising very strong objections to the way drainage is dealt with in the new Model By-laws.

Objection is taken to the principle of "acceptance on performance," on the grounds that this will make the by-laws more difficult to use, and will accentuate differences between districts since it leaves local officials to interpret the rather vague requirements. This view is backed up by some substantial arguments. The editorial goes on to raise objections to a number of more detailed matters.

26.104 services and equipment: miscellaneous FIRE EXTINGUISHERS

Portable Fire Extinguishers of the Foam Type (Gas Pressure). BS 740: Part 2: 1952. (British Standards Institution. 6s.)

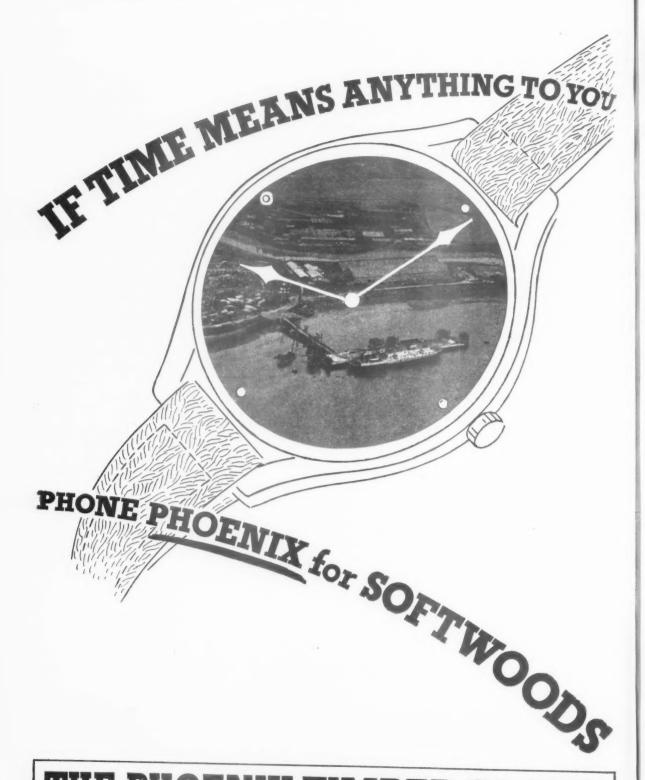
We now have five BS to cover portable fire extinguishers of varying types. This seems to be four too many. One compact document should be both cheaper and more useful.

26.105 services and equipment: miscellaneous TELEPHONES

Telephones and Telegraphs Public Services, BS C of P 327.101(1952). (British Standards Institution. 7s. 6d.)

Materials, appliances, systems and design, circuits, structural requirements, etc., all for Post Office services only. For private telephone and telegraph systems see BS C of P 327.102.

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THE INDUSTRY

Brian Grant and Editors No. 23 and 24 report on the 1953 BIF. See also photos on pages 577-579 and feature on pages 593 and 594.) A further report—on the prefabricated buildings' section-will appear in the JOURNAL for May 21.

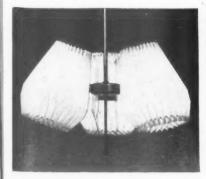
THE BIF

From various questions which have been asked it appears that there must have been asked it appears that there must have been rumours that the BIF was to be discontinued after this year. This has been categorically denied in Parliament and the Fair is to go on, presumably for ever. The rumours may have been due to a few discontinuated or bibliogeness and the property of the property rumours may have been due to a few dis-gruntled exhibitors asking whether the Fair hadn't served its purpose, and there is certainly a tendency for many firms to prefer the specialized shows rather than the portmanteau jumble that almost any large-scale fair becomes after a few years. For many firms, however, the BIF is essential, and it is quite right that it should continue.

One other piece of good news is that the catering arrangements are to be im-proved by seven railway dining cars in an adjoining siding. Anyone who has queued for forty minutes or more (and the queue starts any time after midday) will be grateful that there is to be some extra accommodation even though it will be possible to seat only another 150 or so at a time.

SANITARY FITTINGS (CASTLE BROMWICH)

Shires & Co. (London) Ltd. (Greenbottom Works, Guiseley, Yorks.) are showing their "Lynx" series of w.c. suites, which are now produced in white, amber and a number of other shades, in addition to the original glossy black, and the range has now here catalogy trially a suited to the shades. been extended to include wash basins which are produced in colours to match the w.c's. There is also a newly designed flat-top pedestal basin with combined central discharge fittings.



A simple 3-light pendant, designed by J. M. Barnicot for Falk, Stadelmann & Co., Ltd., using three reverse pleated shades made in a special material which is stronger and more easily cleaned than pleated paper. Finishes are satin brass metalwork and offwhite shades, or satin silver with peach shades. Diameter, approx. 20 in.

Peglers Ltd. (Prestex House, Marshalsea Road, London, S.E.1) have several new items, including some improved radiator valves in forged brass with chromiumplated finish, and a new "Prestex" swivel nozzle sink unit, intended for direct fixing to mains supply. The hot water and cold water is kept separate until the point of discharge by a patented outlet of normal circular section, but with a central longitudinal diaphragm which divides the tube

into two semicircles.

Morrison Ingram & Co. Ltd. (Hygeia Works, Cornbrook, Manchester, 16) are works, Cornbrook, Manchester, 16) are showing a range of sanitary fittings, including a lavatory basin fitted with four feet and arranged for mounting on the rim of a bath at the tap end. The idea is not new, but the details are well worked out and the plumbing kept to a minimum with a change-over valve so that one pair of taps will feed either basin or bath.

COOKING AND HEATING
On the stand of Radiation Ltd. (Stratford Place, London, W.1) there are some revised designs, the "Yorkvale No. 1" solid-fuel cooker now being produced in a single-oven model at the low price of £33 17s. 6d., as against £42 2s. for the two-oven type. New models include the "Nuray" open-fire stove, which provides convected as well as radiant heat. Supplied with or without a stove, which provides convected as well as radiant heat. Supplied with or without a boiler, it is produced in both free-standing and inset models and is suitable for heating rooms up to 2.500 cu. ft. (1,000 cu. ft. less when a boiler is fitted). The "Chevin" convector fire has been re-designed and there is also a new "Eagle" low-cost (£2) open fire not intended for over-night burning; this is simply designed and has a large spinwheel for accurate air control.

ELECTRICAL EQUIPMENT

Falk Stadelmann & Co. (91. Farringdon Road, London, E.C.1) are showing their new range of moderately priced contemporary lighting fittings, most of which have been designed by J. M. Barnicot, M.S.I.A., as well as two additions to their range of switches, the "Nearflush" and the "Real-flush"

The first is a shallow surface type which projects only $\frac{7}{8}$ in. from the wall face and needs no fixing block. The "Realflush" has a grid fixing method of mounting and has a grid fixing method of mounting and only two screws show on the front of the plate. The mounting grid rests on the wall surface over the sunk box and fixing slots allow for any adjustments made necessary by inaccurately placed boxes.

Clang Ltd. (Crown Yard, Cricklewood, London, N.W.2) are showing a small dimensional transfer which which should be reached for balls.

mer switch which should be useful for halls, hospitals or nurseries, or in rooms where people are watching television. It is not the ordinary type of resistance dimmer with which the light is controlled by converting part of the current into heat, but an adjust-able choke which controls the amount of current used.

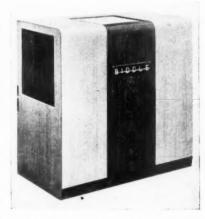
Clocks and bells of all kinds are being shown by Gent & Co. Ltd. (Faraday Works, Leicester), who also have a new type of staff locator using only three coloured lights, but capable of transmitting up to 63 different code signals. This firm also makes many different types of visual indicator for use in waiting rooms and in industry generally.

ROOM AIR CONDITIONERS

On show both at Earls Court and Castle Bromwich is the "Aarcon" room air con-ditioner and de-humidifier. This is the first ditioner and de-humiditier. This is the first sealed-unit room air conditioner to be made in Great Britain. Of similar design to units manufactured in the USA, it is, however, entirely British designed, and the group of companies sponsoring it are also all British. There is a great demand for this type of equipment in the warmer countries of the



The "Aarcon" room air conditioner and de-humidifier; the first all British model with a sealed compressor unit.



The "Biddle 100" room size de-humidifier and air cooler, with a capacity equivalent to I ton of ice per hour.

sterling area, and this development will, therefore, save many dollars.

The model "A," already in production, produces ½ ton of ice per hour; it can cater for a room approximately 18 ft. by 15 ft. by 12 ft. high, using ½ unit of electricity per hour. It will extract air from the room, at the same time drawing in fresh air, which is cleaned, cooled and dried before being passed into the room.

passed into the room.

The dimensions of the machine are: 25½ in. wide; 13½ in. high; depth 25¼ in., of which 11½in. project into the room; the remainder must, of course, project into the open air. A prototype has been tried out in the Bahamas and has been in almost continuous use for nearly 6 months, without a breakdown. Already past the drawing board stage is a heater unit which can be used in conjunction with the machine. This will make it of more interest to architects in this country. The price of the complete machine is £89 (about the same as the best American s £89 (about the same as the best American models, although there is often tariff duty on these); the heater unit will be priced at about £21. This means that complete equipment for winter and summer use for a five-room house would cost £500—about the same as a central heating installation (in a same as a central heating installation (in a new house), although it provides cleaning and cooling as well as heating.

The apparatus is being manufactured by the Longford Engineering Co. (Aarcon, 35/39, Maddox Street, London, W.1.)

F. H. Biddle Ltd. are also exhibiting a range of air-conditioning equipment (Castle

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ite model has a Reversible Side Lever, an important economy feature which obviates duplicate stocks.



now quite concealed. The entire cistern can be kept spotlessly clean with a wipe from a damp cloth.

Architects, the trade and the public alike have acclaimed the SHIRES "LYNX" with its comprehensive guarantee, and it is specified by leading Authorities. It is fitted with a powerful flush syphon conforming to B.S.S. 1125 and Water Works

IN PRODUCING the "LYNX" Cistern to the design of a leading

Industrial Designer, SHIRES jumped well ahead. Old ideas went by the

board. The "LYNX" was not only abreast of modern ideas but was—and is—well ahead. The old fixing brackets have gone, and fixing is

Specifications. The "LYNX" is made in High and Low Level Models, 2, 2½, and 3 gallon capacities.

PATD. AND REGD.

SHIRES are the largest Manufacturers of Moulded Cisterns in the country, also makers of W.C. Seats and Flush Pipes. Full details from SHIRES, Division F. The 'Lynx' is Patented, Registered and fully Guaranteed

SHIRES & CO. (LONDON) LTD. Greenbottom Works, Guiseley, Yorkshire.

SHIRES & CO. (LONDON) LTD

Bromwich), including a room size dehumidifier and air cooler, a de-humidifier with a sealed unit compressor, for use in library stack rooms and other places where very dry conditions must be maintained, and a remotely-controlled room air cooler, designed for connection to a central refrigerator plant, for use in exceptionally hot countries. The firm also manufactures a room-size air conditioner which can dehumidify and heat or cool, but does not have a sealed-unit compressor (the main advantages of the sealed-unit are compactness and absence of maintenance). (F. H. Biddle Ltd.. 52. Clerkenwell Close, London, E.C.1.)

PITCH FIBRE DRAIN PIPES

Pitch fibre drain pipes, of which we have already heard a good deal, are at last being manufactured in this country and are to be seen at Castle Bromwich. They are much lighter than stoneware, cost about the same, but are much cheaper to lay—firstly, because they are non-brittle and do not need to be laid on a concrete bed; secondly, because they have tapered ends and are joined with a simple sleeve unit—no jointing compound or grout being required.

These pipes are also very useful for underfloor ducting, and the firm that makes them also manufactures plastic junction boxes and trays. For this purpose, the pipes have the advantages over metal pipes that no electrolytic action can take place. Available dimensions at present are internal diameters from 2 in. to 6 in.; length, 5 ft. 6 in. (Key Engineering Co. Ltd., 4. Queen Victoria

Street, London, E.C.4.)

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New to one member of the team and perhaps to some readers are "Rawlnuts"—a device for fixing to hollow blocks, "Holoplast," glass, glazed tiles; in fact, anywhere where an ordinary "Rawlplug" cannot be used or where access for fixing a nut to the

end of a bolt cannot be obtained.

The "Rawlnut" (on show at Castle Bromwich) consists of a rubber sleeve containing at one end a tapped metal nut bonded in the rubber. This is pushed through a hole



in the object to which a fixing must be made; when a bolt is screwed into it the rubber is compressed to form a washer, as can be seen in the illustration below, providing a secure and anti-vibration fixing.

The Rawlplug Co. Ltd. (Cromwell Road, London, S.W.7) are also showing their Durium tipped drills which can be used for drilling holes in bricks, hollow tiles, glazed tiles, cement and most types of natural stone; with care they can be used even for drilling holes in concrete. The use of these drills, available in cutting diameters from $\frac{4}{5}$ in. to $\frac{1}{5}$ in., can greatly simplify fixings to all the materials listed above.

Every exhibition contains at least one simple little gadget which makes one think "why did nobody think of this before?" At the BIF (Castle Bromwich) is a 3s. 6d. lock for wooden casement windows. It is in the form of a special peg for the casement stay with a detachable pin which is locked into position with a special key (1s.). The window can be locked, open or closed and, besides being a useful anti-burglar device,

the "Kestrel" window lock does away with the need for bars at the windows of upper floor rooms in which children are left alone. (Kestrel Engineering Co. Ltd., Scrubbs Lane, London, N.W.10.)

NEW PLANT

The Builders' Plant section at Castle Bromwich is not very extensive but one firm (C. H. Johnson [Machinery] Ltd., Adswood Road, Stockport) has on show several new items. The first is a 1-yd. diesel dumper designed, as they say, "to bridge the gap between the large 3-4 yd. dumpers and the small 7-10 cu. ft. ones." The dumper has a struck capacity of 17.5 cu. ft. and, as a result of a low skip height giving vision equal to that in a motor car (see photo below), it can be licensed for road travel. The dumper has a centre-pivoted steering



axle which maintains it on an even keel when driven over uneven ground and the vertical tip of the skip ensures the clean discharge of sticky materials.

A new version of Johnson's immersion-type

A new version of Johnson's immersion-type vibrator has a frequency of 10,000 v.p.m.; the 9½-in. "needle" is detachable and additional 12-ft. lengths of flexible shaft can be added up to a total of three. The vibrator is available either with a 4-h.p. petrol engine or a 3-h.p. electric motor.

or a 3-h.p. electric motor.

Another new Johnson exhibit is their tamping and screed board vibrating unit. This is mounted on the side of the board instead of on top and has an out-of-balance rotor; the vibration is said to assist the board to travel. With a frequency of 4,000 r.p.m. and a 1-3 h.p. engine, the vibrator can cope, under normal conditions, with slabs up to 20 ft. wide.

OTHER NEWS FROM THE INDUSTRY: FIXING TILES

Richards Tiles have evolved a new type of mastic cement for the fixing of ceramic wall tiles. It is known as "Richafix," and it is claimed that it should show economies in fixing cost and at the same time produce a more satisfactory job. One of the chief advantages is that it can be used for fixing direct to many different types of wall base, asbestos, fibre board, masonry, steel, plaster or wood; the only essentials being that the wall should be dry, flat and free from springiness. A further point is that crazing of the tiles is virtually eliminated, for there is no "pinch" effect from the contraction of the cement mix. Tests have been carried out with tiles specially produced with a low resistance to crazing; they were quite sound three years after fixing with "Richafix," yet badly crazed only three months after fixing with the usual cement-sand mix.

cement-sand mix.

The mastic is applied to the wall and spread with a trowel notched on one side and one end, producing a series of shallow ribs in the mastic. The mastic is left for a while to become tacky, and the tiles are then pressed into position and grouted in the usual way. A point to watch is that the mastic contains an inflammable solvent so that operatives using it in bathrooms or kitchens should remember to turn off gas refrigerators or multi-point water heaters. (Richards Tiles Ltd., Tunstall, Stoke on

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Announcements

Donald Wagg, A.R.I.B.A., is now working in association with Henry Whittaker. The firm is to be known as Whittaker & Wagg, Castle House, 635, Fort Street, Victoria, B.C., Canada.

A. J. Stevens has removed his office to 17, Onslow Street, Guildford, Surrey, where he will be pleased to receive trade catalogues, etc.

C. P. Tanner, A.R.I.B.A., and L. R. Coates. A.R.I.B.A., chartered architects, of Granger House, Blackett Street, Newcastle 1, have taken into partnership H. R. Gibbs, L.R.I.B.A. The practice will be continued under the present name and at the same address.

F. W. B. Yorke and H. M. Barker, chartered architects, have dissolved their partnership. Mr. Yorke will take into partnership D. R. Harper, A.R.I.B.A., and R. H. Harvey, A.R.I.B.A., and continue in practice at 191, Corporation Street, Birmingham 4, and at Central Chambers, Stratford-upon-Avon. The style of the firm is Francis W. B. Yorke, Harper and Harvey. H. M. Barker will continue in practice at 74, Ryland Road, Edgbaston, Birmingham 15.

D. C. Denton-Smith & Partners, chartered architects/surveyors, of 40, Regent Street, Cambridge, have opened a branch office at 5, Lynn Road, Ely (Tel. Ely 2072.) Resident partner, Norman Russell, A.R.I.B.A.

Farmer & Dark, F./F.R.I.B.A., chartered architects, have moved to Romney House, Marsham Street, S.W.1. (Tel. Abbey 6311-5.) Stewart & Garrett, A./A.R.I.B.A., have moved to 17, Conduit Street, W.1 (Tel. Mayfair 6846), where they will be pleased to receive trade catalogues.

R. K. Brett, A.R.I.B.A., has moved to 9, West Borough, Wimborne (Tel.: Wimborne 167). Grimwade and Ainsley, quantity surveyors, have moved to 5, Victoria Street, S.W.1 (Tel.: Abbey 5016-7).

Arnold P. Holdsworth, F.R.I.C.S., of 73. Bone Road, Sheffield, 10, has taken Rodney Holdsworth, A.R.I.C.S., William Macfarlane, A.R.I.C.S., and Robert Cousens, A.R.I.C.S., into partnership. The style of the firm is Holdsworth, Son & Partners.

The partnership of Arcon, chartered architects, has been dissolved. The late partners will practice separately at the following addresses:—Rodney Thomas, at 5, Seymour Walk, S.W.10; A. M. Gear, at 81, Piccadilly, W.1; both will continue to act as consultants to the Arcon Group.

Beardshaw & Heumann, architects and design consultants, have removed their offices to 36, Seymour Street, Marble Arch, W.1 (Tel.: Ambassador 9685).

Rowe Bros. & Co. Ltd., builders merchants, have opened showrooms at 257-8. Broad Street, Birmingham.

Barnes, Challen & Cross, architects and engineers, have removed to permanent premises at 96, Gloucester Place, W.1 (Tel.: Welbeck 4851).

British Insulated Callender's Cables Ltd. (BICC) have acquired the cable and wire business of Phillips Electrical Works Ltd., Canada, and will, through a new Canadian company which they are forming with the name of Phillips Electrical Company (1953) Ltd., carry on this business at the Brockville (Ontario) and Montreal factories. Sales will continue to be made through the Automatic Electric (Canada) Ltd., Toronto, for the time being.

Ernö Goldfinger, L.R.I.B.A., 69-70, Piccadilly, W.1, has had his telephone number changed to HYDe Park 5210/5657.

Buildings Illustrated

Bungalow and Studio, 44. Chadwick Lane, Heywood, Lancs. (Page 583.) Architect: Harry S. Barnes, A.R.I.B.A. Sub-contractors. excavation, concrete, stonework, Elihu Harrison & Sons; bricks supplied by Accrington Brick Co. Ltd., and Rochdale Brick Co. Ltd.; stone, A. Taylor (suppliers), Elihu Harrison & Sons, masons; structural steel, Joseph Webb & Sons Ltd.; special roofings, cavity decking supplied by Turners Asbestos Cement Co. Ltd.; roofing felt and dampcourses, Permanite Ltd.; glass, plumbing and central heating, Henry Tattersall Ltd.; stairtreads and patent flooring, Berom Flooring Co.; waterproofing materials, Permanite Ltd.; "Robin Hood" boiler fixed by Henry Tattersall Ltd.; electric wiring, Fred Smith; electric light fixtures supplied by Troughton & Young Ltd.; sanitary fittings, Ideal Standard (Suppliers) Ltd.; door and window furniture, Batesons Ltd.; casements, joinery, H. Pickup and Henry Shaw; "Sunway" blinds, Venetian Vogue Ltd.; plaster, Bernard Dobson & Fred Hilton: metalwork, Dex Welding Works; tiling, C. Jones & Son; textiles, David Whitehead & Sons Ltd.; wallpapers. John Line & Sons Ltd.; furniture, Donnelly's Ltd.; clocks, Smiths; painting and decorating, Frank Howarth.

"Marlesford Court" Flats in Rectory Lanc. Wallington, Surrey, for the Borough of Beddington and Wallington. (Pages 584-587.) Architect: Pite, Son & Fairweather. Quantity surveyors: D. R. Nolans & Co. General Contractor: Walker (Tooting) Ltd. Clerk of works: G. L. Read. General foreman: J. Tapner. Sub-contractors: asphalt, Holborn Asphalte Ltd.; bricks ("Ibstock"), Hall & Co. Ltd.; tiles, Marley Tile Co. Ltd.; glass, Aygee Ltd.; precast concrete flooring, Wadcrete Ltd.; waterproofing materials, R. I. W. Protective Products Ltd.; grates, Bratt Colbran Ltd.; electric wiring, Bootle Bros. Ltd.;

electric light fixtures, Merchant Adventurers of London Ltd.; water heaters, Aidas Ltd.; plumbing, Mumford, Bailey & Preston Ltd.; sanitary fittings, Ashley Brandon Ltd.; door and window furniture, G. & S. Allgood; plaster, T. F. Rooney & Son Ltd.; metalwork, Clark, Hunt & Co. Ltd.; joinery, Charles Plowman; tiling, Lewis & Co. (Baiham) Ltd.; wallpapers, Primavera Ltd.; enamel shields, Pearce Signs Ltd.

Pearce Signs Ltd.

Private house at 4, Fitzroy Park, Highgate, London, N.6. (Pages 588-590.) Architect; C. G. Stillman, F.R.I.B.A. Assistant Architects: Pamela Stillman and John Stillman. A./A.R.I.B.A. General contractors: Prestige & Co. Ltd. Sub-contractors: reinforced concrete ("Tilecast" flooring), W. S. Try Ltd.; slates, bricks (Sussex stocks), Roberts, Adlard & Co. Ltd.; glass, Aygee Ltd.; wood-block flooring, Horsley Smith & Co. (Hayes) Ltd.; patent flooring ("Accotile"), Armstrong Cork Ltd., and Horsley Smith & Co. (Hayes) Ltd.; central heating, boilers, T. S. Knight & Sons Ltd.; electric wiring, Electrical Installations Ltd.; electric wiring, F. & Leastman Ltd.; wallpapers, John Line & Sons Ltd.; shrubs and trees, J. Burley & Sons.

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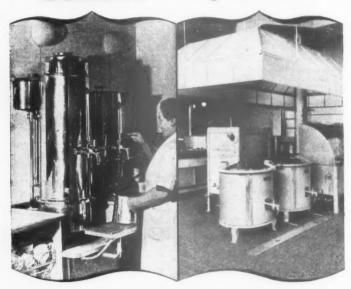
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Arcon Structures (Pages 593 and 594). The companies in the Arcon Group are: Imperial Chemical Industries Ltd. (non-ferfous metal, paint and plastics); Stewarts and Lloyds Ltd. (tubular steelwork); Taylor Woodrow Ltd. (marketing research, distribution and supervision of erection); United Steel Companies Ltd. (structural steelwork and stainless steel alloys); Williams & Williams Ltd. (metal windows, doors and patent glazing); Austins of East Ham (timber for floors, cladding and doors).

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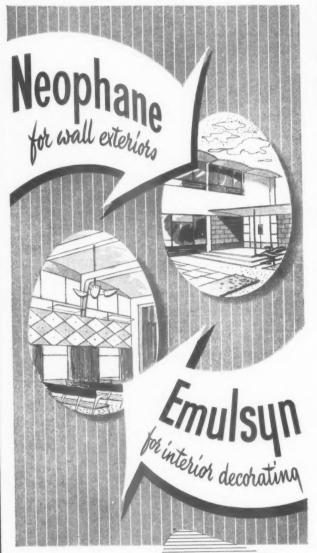
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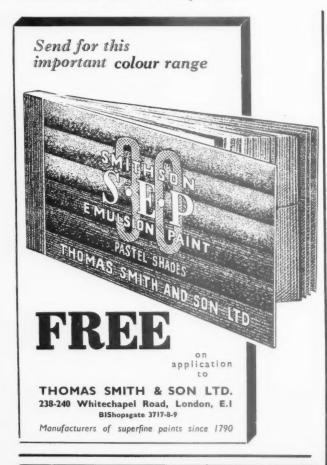
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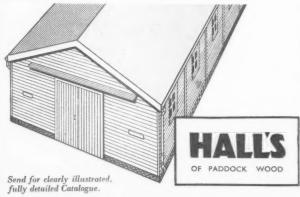
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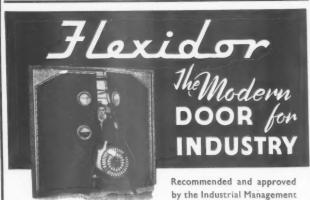


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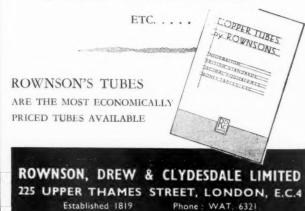
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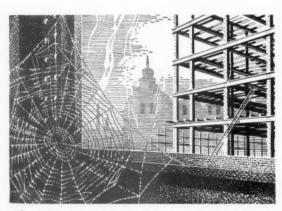


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J. W. PORTER,

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Further particulars should be obtained from the Manager, Employment Exchange, 39/41, St. Pancras, Chichester, quoting Order No. 419, to whom detailed applications must be submitted not later than Wednesday, 20th May, 1953.

T. C. HAYWARD,

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County Hall, Chichester.

County Hall, Chichester. 21st April, 1953.

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supervision and have a good shared struction.
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COUNTY BOROUGH OF WEST HAM.
APPOINTMENT OF CHIEF ASSISTANT
APPOINTMENT OF CHIEF ASSISTANT
ARCHITECT.
Applications are invited for above. Salary, 1895 by 240 by 250 to Cl.025 (Plus L.A.).
Applicants must be Chartered Architects, with sound knowledge of Contract Management, and capable of supervising busy drawing office. Experience in Municipal housing work and in design and erection of schools essential. Knowledge of special problems arising in reconstruction of war damaged areas an advantage.
Application forms from Borough Architect and Planning Officer, Thomas E. North, O.B.E., F.R.I.B.A.. Dist. T.P.. 70. West Ham Lane, Stratford. E.15, returnable by 26th May, 1953.

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BRITISH ELECTRICITY AUTHORITY.

EAST MIDLANDS DIVISION.

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

CIVIL ENGINEERING DRAUGHTSMAN Construction Department, North Wilford (Vacancy No. 22,753.)

Candidates should have experience in design and detail of re-inforced concrete structures, pile 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-£56) per annum) of Schedule D of the National Joint Board Agreement.

DRAUGHTSMAN, Transmission Department, Divisional Headquarters, Nottingham. (Vacang No. 42/55.)

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 layouts 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 (£432-£57) grannum), according to qualifications and experience. Closing date for this appointment will be the 14th May, 1953.

ENGINEERING DRAUGHTSMAN (ME CHANICAL), 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, Nottingham. Candidates should have experience in one or more of the following:—

(i) Design and layout of Power Station equipment, including Turbo-Alternators, Boiler Plant Condensing Plant and feed heating systems.

(ii) Conveyor plant, coal handling systems, and material handling of station auxiliarie equipment in the Material handling of station auxiliarie equipment in the material handling of station auxiliarie equipment in the material handling of station auxiliaries.

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 equip-

ment. Salary and nt. alary and conditions of service will be in ordance with the National Joint Board Agree tt. Grade V (£567-£671 per annum) and Grade (£433-£567 per annum) of Schedule D, accord-

VI (2433-2567 per annum) of Schedule D. accoming 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 Schame.

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. Jefffrey.

Divisional Controllet.

Divisional Controller. 8749

CITY OF CARLISLE.

APPOINTMENT OF PRINCIPAL QUANTITY
SURVEYOR.

Applications invited from Chartered Surveyor
for above post. Salary: A.P.T. Grade VII
(2710×225-£785). Housing accommodation avail-

able.
Forms of application from the City Engineer.
18, Fisher Street, to whom applications are returnable by 16th May.
H. D. A. ROBERTSON.
Town Clerk

Town Clerk's Office, 15, Fisher Street, Carlisle.

Town Clerk's Omes, Carlisle.

BOROUGH OF DAGENHAM.
ARCHITECTURAL ASSISTANT.
Applications are invited for the above-mentioned post. Salary: Grade VI, £670 to £735 per annum. plus London weighting (£30 at age 26 and over). Applicants must be Registered Architects and hold A.R.I.B.A. or similar qualification. Form of application, together with further details of the post, from the Borough Engineer and Surveyor. Closing date: 20th May, 1953. Housing accommodation may be made available.

KEITH LAUDER.
Town Clerk.
774

OXFORDSHIRE COUNTY COUNCIL.

OXFORDSHIRE COUNTY COUNCIL.
ASSISTANT QUANTITY SURVEYOR. Salary:
A.P. and T., Grade V (£595-£645).
ASSISTANT QUANTITY SURVEYOR. Salary:
A.P. and T., Grade IV (£55-£600).
Applications are invited for the above posts in the County Architect's Department. Applicants should have experience in the preparation of Bills of Quantities, Valuations and Final Accounts, and preference will be given to Members of the Royal Institute of Chartered Surveyors (Quantities Division). The appointments are subject to the provisions of the Local Government Superanustion Applications, stating age, experience, qualifications and the names of two referees, are to be sent to the County Architect, Park End Street Offices Oxford, not later than the 18th May, 1953.

GERALD GALE BURKITT.
County Hall, Oxford.

County Hall, Oxford.

LEEDS REGIONAL HOSPITAL BOARD invites applications for the appointment of a ERGIONAL ARCHITECT, at a salary of £1.500, rising by annual increments of £75 to £1.875. Applicants, who must be Registered Architects and Associate Members of the Royal Institute of British Architects, will be required to advise the Board on all architectural matters relating to be be such other professional, administrative and executive duties as the Board may assign. Experience of the design and construction of bospitals in the region, in addition to carrying out such other professional, administrative and executive duties as the Board may assign. Experience of the design and construction of bospital buildings should be stated.

The appointment will be subject to superannuation and be terminable by three months' notice on either side. The successful applicant, if not already in the Health Service, will be required to pass a medical examination. Applications, stating age, qualifications and previous appointments, together with the names of three referees, to be forwarded to the Secretary to the Board. Park Parade, Harrogate, by not later than Tuesday, 19th May, 1953.

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ARCHITECTURAL ASSISTANT required in the Engineer and Surveyor's Department, Grade A.P.T., V. (salary: \$625 \times 15 \times 250 - \$675 \times 150 \times 250 - \$675 \times 150 \times 250 - \$675 \times 150 \times 250 \times 150 \times 150

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

CITY OF DURHAM.

ERECTION OF 54 FLATS-SUNDERLAND ROAD ESTATE (SCHEME 2).

The Council invites tenders for the erection of 54 three storey flats in three blocks on the Sunderland Road Estate, Durham.

Bills of Quantities and Forms of Tender may be obtained from J. W. Green, Esq., F.R.I.B.A., City Engineer & Architect, Town Hall, Durham, on payment of a deposit of £2 2s. 0d. which will be refunded on receipt of a bona-fide tender not afterwards withdrawn and the return of all documents.

Plans, specification and Conditions of Contract

may be examined at the office of the City Engineer during normal office hours.

Tenders enclosed in plain sealed envelopes bearing the words "Flats—Sunderland Road Estate," but not bearing any name or mark indicating the sender must be delivered at my office on or before Friday, the 12th June, 1953. The Council's standing orders provide that no tenders will be received except those sent in complying with the above directions.

The Council does not bind itself to accept the lowest or any tender.

D. B. MARTIN-JONES, Town Clerk.

32, Claypath, Durham.

HUYTON-WITH-ROBY URBAN DISTRICT COUNCIL.

ST. JOHNS ROAD (EAST) HOUSING ESTATE.
Firms erecting their own prototype traditional houses are invited to tender for the erection of approximately 250 houses on a site where roads and sewers are almost completed.

In the first instance, firms are asked to submit details of house types to the Chief Architectural Assistant, Council Offices, Huyton, by first post on Friday, the 23nd May, 1953.

Further details may be obtained on application to the Chief Architectural Assistant.

H. E. H. LAWTON,

Clerk to the Council.

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

BOROUGH OF DOVER.

ARCHITECTURAL COMPETITION.

The Dover Corporation invites Architects resident in the United Kingdom to submit designs in competition for dwelling accommodation on a site in Marine Parade, Dover. The site has an area of 6.5 acres, excluding portions of surrounding streets.

The Assessor for the Competition is Mr. Arthur W. Kenyon, C.B.E., F.R.I.B.A., Dis.T.P., M.T.P.I., and the following premiums are offered:—

(1) 1,000 guineas; (2) 500 guineas; (3) 250 guineas; (4) 150 guineas; (5) 75 guineas; (6) 50 guineas.

The closing date for the submission of designs is the 10th September. 1953, and the last day for questions is the 15th June, 1953.

Competition Conditions and plan of the site may be obtained from the undersigned, on payment of a deposit of two guineas, which will be returned on receipt of a bona fide design, or on

the return of the Competition documents at least four weeks before the last day for the submission of designs.

JAMES A. JOHNSON.
Town Clerk New Bridge House, Dover.

Architectural Appointments Vacant

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

tines or under, 7s. 6d.; each additional line, 2s. The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-69 inclusive unless he or she is, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

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, staking age, experience, wage required, and when at liberty, to: Chief Technical Engineer, Central Engineering Department, Dorman Long & Co., Ltd., G.P.O. Hox 11, Royal Exchange, Middlesbrough Yorks.

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ARCHITECT'S DEPARTMENT, LONDON.
ASISTANT ARCHITECT'S 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.I.

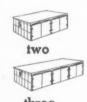
ARCHITECTURAL DRAUGHTSMAN wanted salary and prospects. Full particulars training, experience, age, salary, to Box 8586.

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 8546.

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A RCHITECTURAL ASSISTANT required by well-known firm of Chartered Surveyors in London area. Experience in design and specifications, etc., essential. Details of experience and salary required to Box 8731.

JUNIOR ASSISTANT (able to type) required for small practice, W.C.1 area. Apply, stating age and salary required, Box 8732.

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A RCHITECTURAL ASSISTANT required in Architects' Department of a City Firm of Architects and Surveyors. Capable of preparing working drawings and taking charge of jobs through all stages. Good opening for the right man. Write, stating age, experience, and salary required, to Box 8713.

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

RCHITECTURAL ASSISTANT required in West End office. Junior or Intermediate, h detailing experience. Box 8717.

with detailing experience. Box 8717.

SENIOR ARCHITECTURAL ASSISTANT required immediately in Consulting Engineers site office near Warrington, Lancs., conversant with design and alterations to industrial premises. Reply, with full particulars, to Box 8714.

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EXPERIENCED ARCHITECTURAL ASSISTANT required, Birmingham office; competent in design and construction, particularly schools. Give particulars of training, experience, and salary required. Box 8740.

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JUNIOR ARCHITECTURAL ASSISTANT required for busy office in Hampshire, Reply stating age, experience and salary required to Box 8753.

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R.I.B.A. (46), wide range of experience, seeks position with view to Partnership Southern England preferred. Capital available

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Other Appointments Vacant 4 lines or under. 7s. 6d.; each additional line, &

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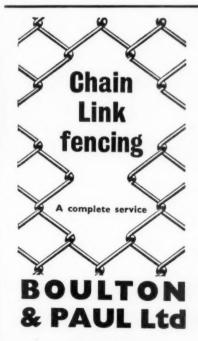
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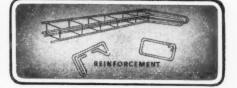
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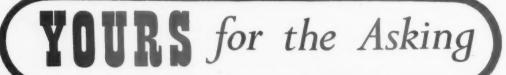
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Alphabetical Index to Advertisers

	PAGE		PAGE		DAGE	
Aidas Electric, Ltd	xiii	General Electric Co., Ltd.	xlviii	Phoenix Timber Co., Ltd	PAGE Exviii	
Alred Gui ds	lxxxiii	Greaves & Thomas, Ltd	ixxx	Plywood & Timber Products Agencies,	1.24 7.44	
Allied Ironfounders, Ltd	xxxiii	Gyproc Products, Ltd		Ltd	A.	
Architectural Press Ltd., Thelxxviii,		Gypsum Mines, Ltd., The	xlvi	Prodorite, Ltd.		
Arens Controls, Ltd.	xxvii	Hall, Robt. H., & Co. (Kent), Ltd	lxxvi	Radiation Group Sales, Ltd	1 11	
Armstrong Cork Co., Ltd	liii lxii	Harper, John, & Co., Ltd	iv	Raylor Bros., Ltd	lxxii	
Associated Fire Alarms, Ltd	xxxviii	Hills, F., & Son, Ltd.	xlii	Rentokil, Ltd. Richardson & Starling, Ltd.	xxvi	
Associated Lead Manufacturers, Ltd	xlv	Holland & Hannen & Cubitts, Ltd	lxv	Rownson, Drew & Clydesdale, Ltd	lxxxii	
Aygee, Ltd.	xxix	Hollway, W. F., & Brother, Ltd.	13.1	Ruberoid Co., Ltd., The	XXXXIX	
Batley, Ernest, Ltd.	lxxxi	Holophane, Ltd.	lxi	Rubery Owen & Co., Ltd	lix	
Bayliss, Jones & Bayliss, Ltd	li	Hope, Henry, & Sons. Ltd	lxiv	Secomastic, Ltd.	lvii	
Birmingham & Blackburn Construction		Hornflowa, Ltd.	1	Sharp Bros. & Knight, Ltd.	IXXXV	
Co., Ltd	lxxvi	Horseley Bridge & Thomas Piggott, Ltd.	XXX	Shire & Co. (London), Ltd	lxix	
Booth, John. & Sons (Bolton), Ltd	lii	Imperial Chemical Industries, Ltd xx		Simplex Electric Co., Ltd	x	
Boulton & Paul, Ltd	lxxxiii	Indestructible Paint Co., Ltd	xxxii	Sissons, W. & G., Ltd	xxxviii	
Brandts, Wm. (Wallply), Ltd	lxxvii	Ingersoll Locks	lxxxv	Smith, Saml., & Sons, Ltd.	ixxviii	
Briggs, Wm., & Sons, Ltd	lxxv	Jenolite, Ltd.	lviii xviii	Smith, Thomas, & Son, Ltd	lxxvi	
British Electricity Authority British Insulated Callender's Cables,	IXXV	Johnson & Phillips, Ltd. Kenyon, Wm., & Sons, Ltd.	xxxvi	Sommerfeld's, Ltd.	lxxxiii vii	
Ltd	xli	King, George W., Ltd.	lx	Southern's, Ltd. Spelthorne Metals, Ltd.	1xxix	
British Mouldex Rubber Co., Ltd., The	lxxix	Kwikform, Ltd.	1.00	Spirax-Sarco, Ltd.	lxxi	
Broad & Co., Ltd.	lxxi i	Laing, John, & Son, Ltd.	lxxxvi	Standard & Pochin Bros., Ltd., The	lxxviii	
Cape Asbestos Co., Ltd.		Lamont, James H., & Co., Ltd	liv	Stott, James, & Co. (Engrs.), Ltd	lxx	
Carter & Co., Ltd.		Lead Industries Development Council	xliii	Sundeala Board Co., Ltd		
Cement Marketing Co., Ltd., The		Leatherflor, Ltd		Taylor, R., & Co. (Ironfounders), Ltd	lxxli	
Cole, E. K., Ltd	xliv	Lignacite (N.E.), Ltd.	łx	Thermacoust, Ltd	lxxix	
Colt Ventilation, Ltd.	xlvii	Limmer & Trinidad Lake Asphalte Co.,		Thompson, John (Beacon Windows), Ltd.	XX	
Colt, W. H. (London), Ltd	xix	Ltd.	lviii	Thorn, J., & Sons, Ltd	lxxviii	
Concrete, Ltd.	lxvi	Lindsay's Paddington Ironworks (1948).	Investil.	Thorp, John B	lxxxiii	
Crabtree, J. A., & Co., Ltd.	lxxxiii xxiii	Ltd. Lockhart Equipment, Ltd.	lxxxii lxvii	Tretol, Ltd.	lxxvii	
Crane, Ltd.	XXIII	Loft Ladders, Ltd.	IXVII	True-Flue, Ltd	xxviii	
Crittall Manufacturing Co., Ltd	XXXV	London Brick Co., Ltd.		Tucker, Duncan (Tottenham), Ltd	Ixxiv	
Denny Mott & Dickson, Ltd.	xiv	Main, R. & A., Ltd	ix	Tucker, J. H., & Co., Ltd.	lvi	
Doulton & Co., Ltd.	xliv	Mallinson, Wm., & Sons, Ltd	lxxi	Turner, Charles, & Son, Ltd	lxxiii -	
Dryad Metal Works, Ltd	lxxxiii	Marley Tile Co., Ltd., The		Turner's Asbestos Cement Co., Ltd	xii	
Dunlop Rubber Co., Ltd	-	Mavitta Drafting Machines, Ltd	lxxviii	United Paint Co., Ltd., The	xi	
Eagan, R. E., Ltd	lv	Meta Mica, Ltd.	XXXVI	Val de Travers Asphalte Paving Co., Ltd.,		
Edison Swan Electric Co., Ltd., The	xxxvii	Metallic Seamless Tube Co., Ltd., The	XXV	The	111	
Ellis School of Architecture, The	lxxxiii	Mills Scaffold Co., Ltd	ii	Venus Pencil Co., Ltd., The	lvi	
Ellison, George, Ltd	lxxxiii	M.K. Electric, Ltd	xxiv	Vulcan Products, Ltd	xxi viii	
Esavian, Ltd.	lxix	Negus, W. & M., Ltd.	xlviii	Walpamur Co., Ltd., The	lxxix	
Evode, Ltd Ezee Kitchen Equipment, Ltd	lxxxi	New Day Electrical Accessories, Ltd	lxxxii	Whittle, R. W., Ltd	liv	
"Fibonite"	lxxvii	Newall's Insulation Co., Ltd.	xl'x	Woolliscroft, George, & Son, Ltd	xlvl	
Findlay, Alex, & Co., Ltd.	xl	Newman, Wm., & Sons, Ltd.	XVI	Wright, John (Veneers), Ltd.	XXXXIV	
Frengers Ceilings, Ltd	xvii	North British Chemica Co., Ltd.	lxxiv	Zinc Development Association	lxxv	
Furse, W. J., & Co., Ltd	lxxxi.i	Northern Aluminium Co., Ltd	xi	Zine Alloy Rust Proofing Co., Ltd	lxxxiv	
For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc.,						

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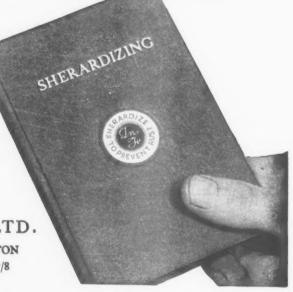
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PAGE

lxxii
lxxvi
lxxxii
lxxxii
lxxxii
lxxxii
lxxxii
lxxxii
lxxxii
lxxxvii
lxxxii
lxxxxii
lxxxii
lxxxii
lxxxii
lxxxxii
lxxxxii
lxxxxii
lxxxxii
lxxxii
lxxxxii
lxxxx





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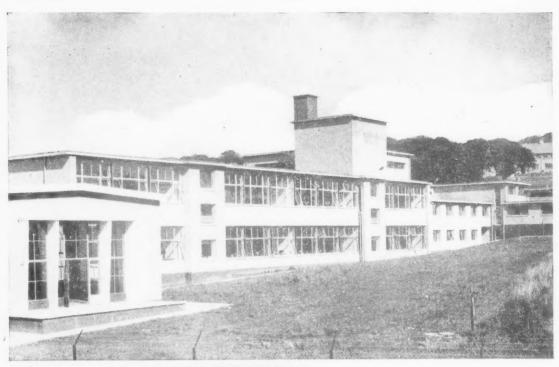
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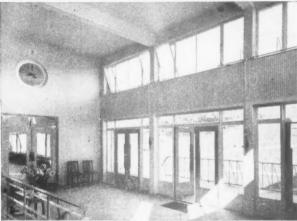
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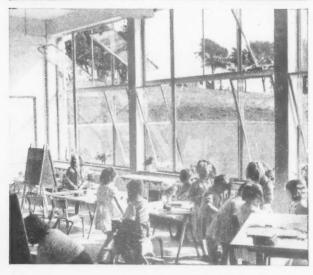
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