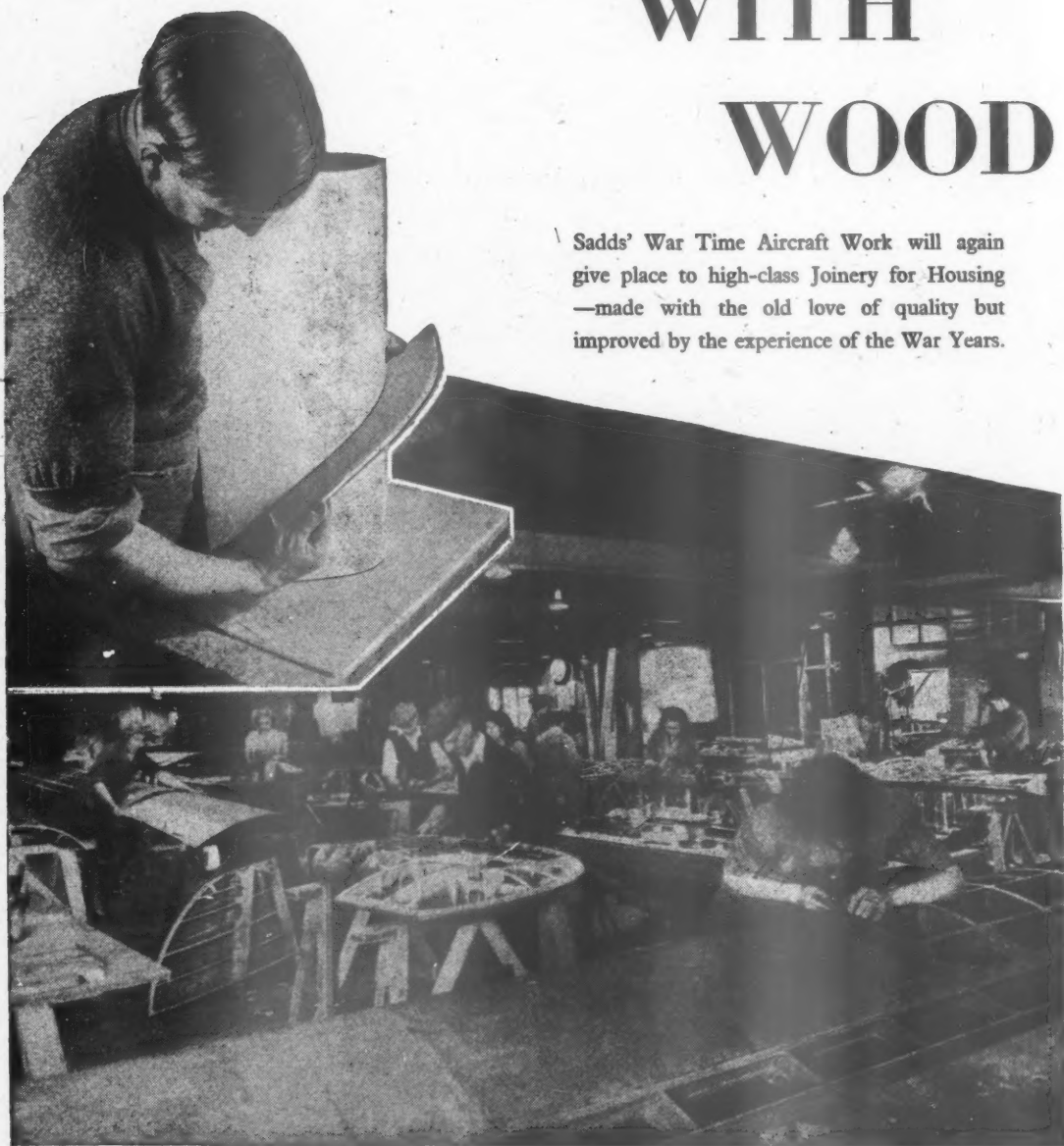


**T**he Seasons Good Wishes  
and may 1946 open the  
way to prosperity . . .

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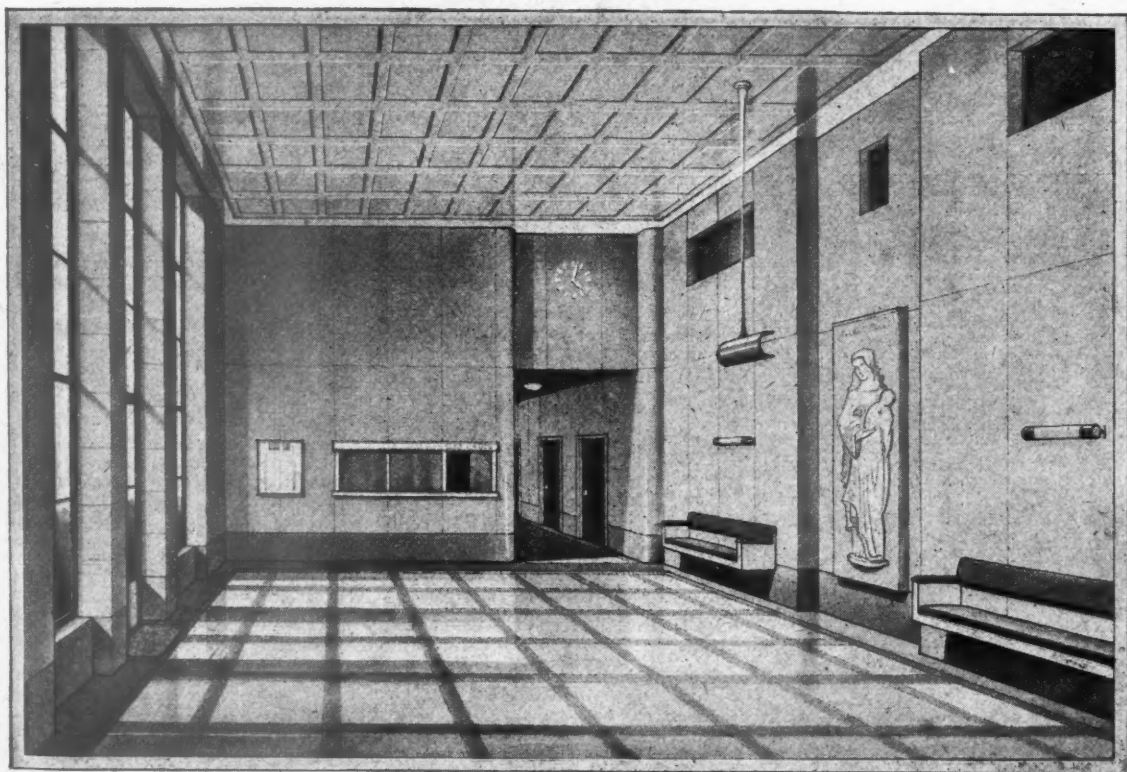
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W19

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Architects, Messrs. Stanley Hall & Easton and Robertson.

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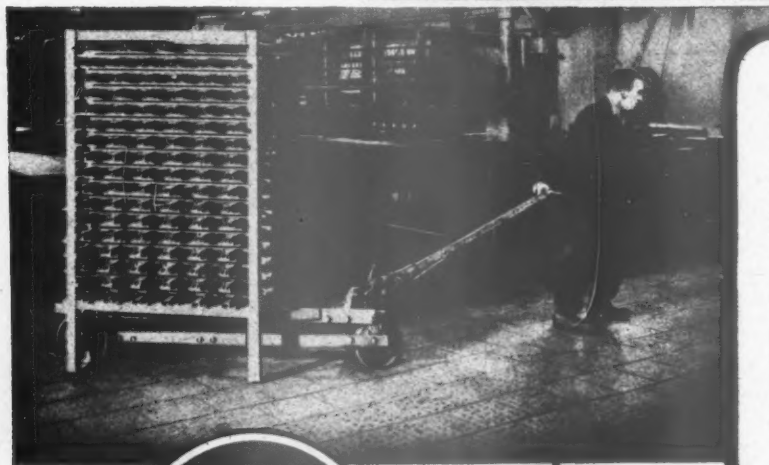
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*"Better with the Helical Anchor & Air Vent"*



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"Consol" Anchor Floor Plates provide the ideal flooring for the modern factory.

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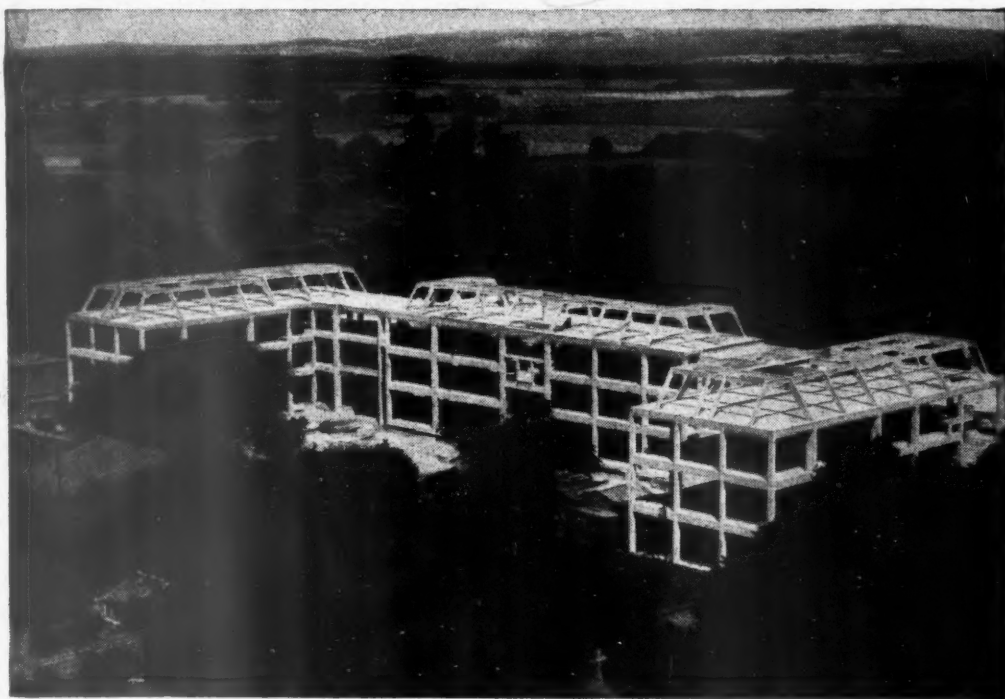
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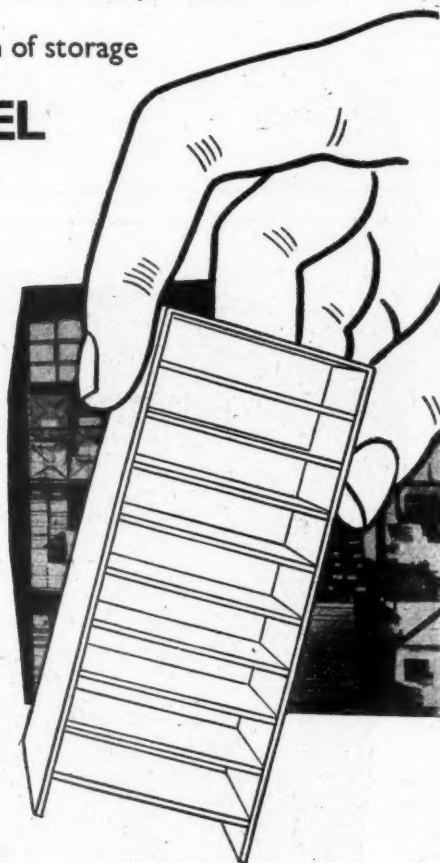
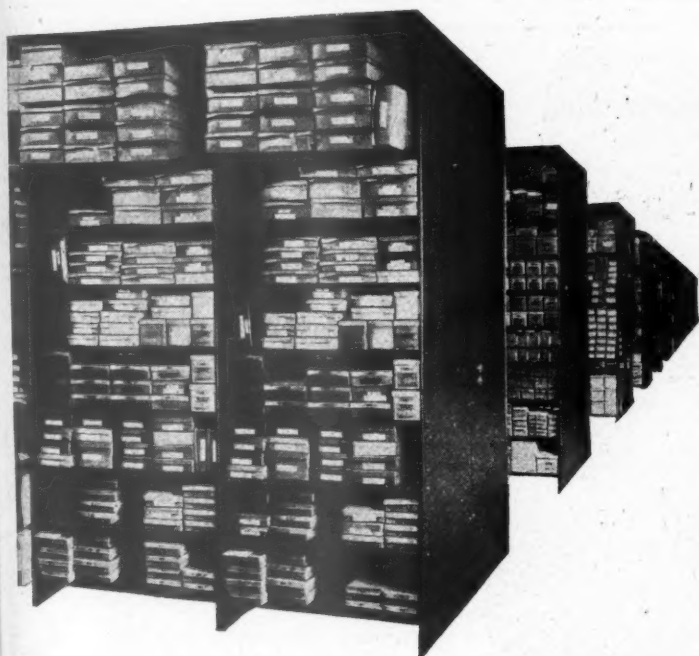
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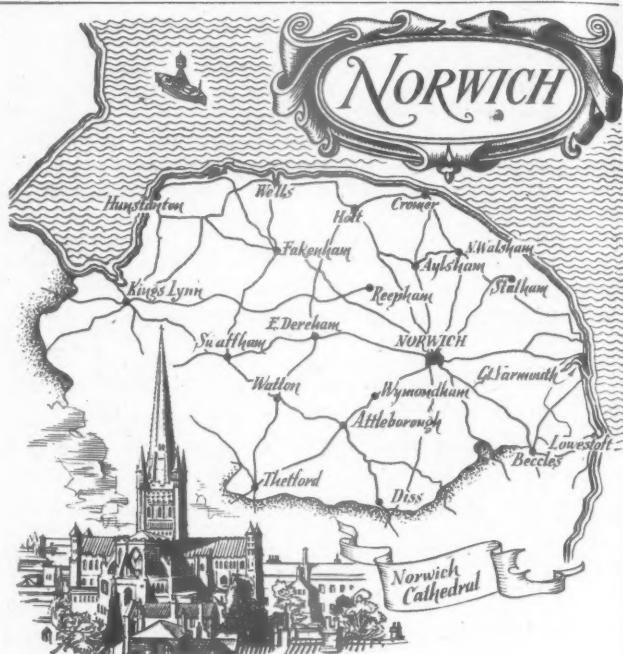


NORWICH, capital city of the rich agricultural county of Norfolk, abounds in antiquarian interest, the Norman cathedral and castle being but two of the many fine buildings linking the present with the historic past.

This flourishing city and county also provide a wealth of early banking history. For generations the banking families of Gurney, Barclay, Birkbeck and Buxton were closely associated with the commercial and industrial development of Norwich and the surrounding districts; indeed, there is reason to believe that members of the Gurney family carried on banking transactions prior to 1650.

The firms bearing these time-honoured names were amalgamated with Barclay & Company, Limited, in 1896, when a Local Head Office was established in Norwich.

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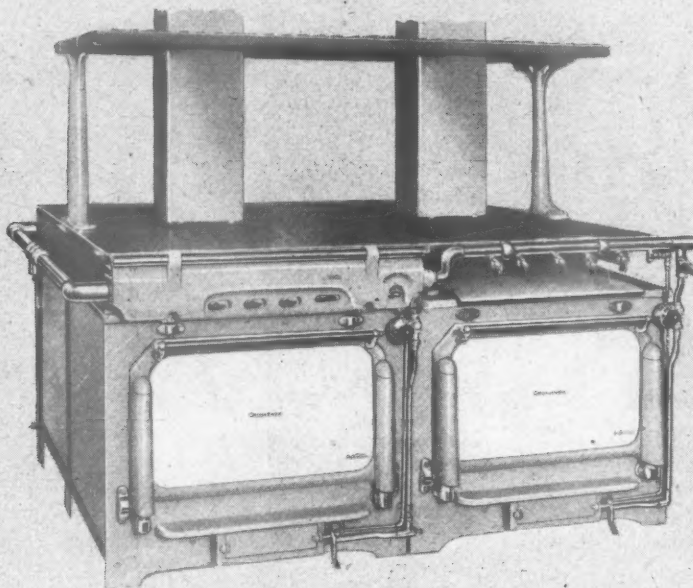
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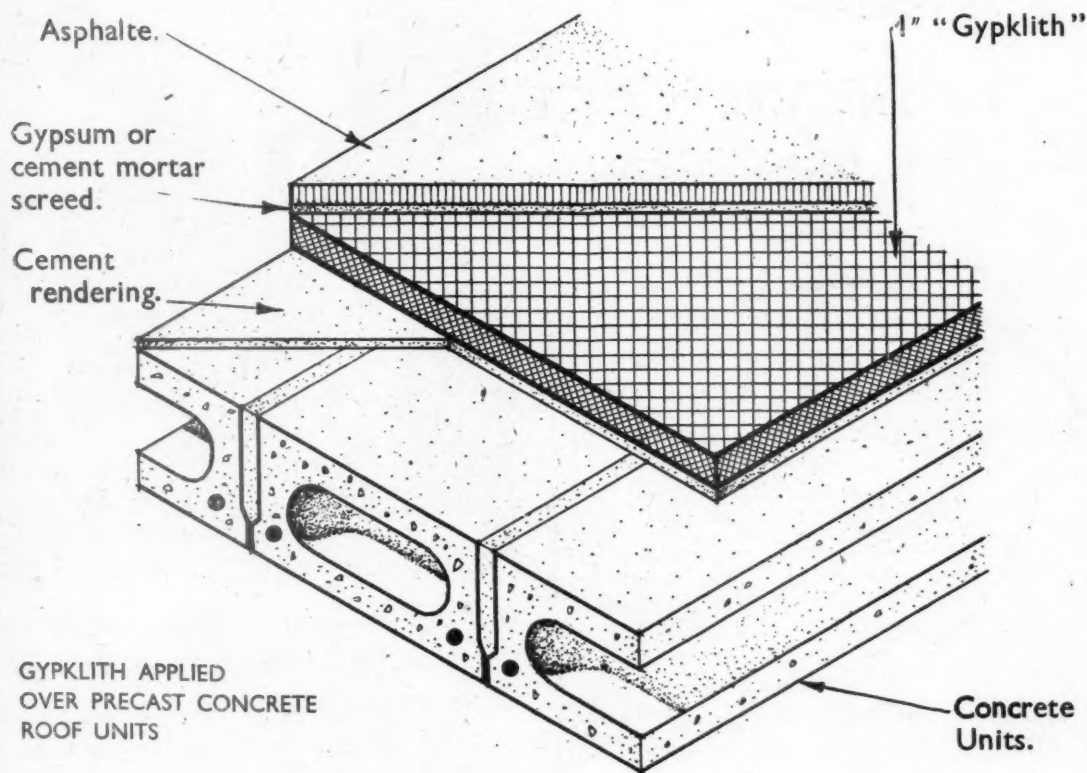






# ***"INSULATION may save more than half the fuel required to heat an uninsulated building"***

*Extract from "The Thermal Insulation of Buildings," Bulletin No. 12, issued by the Ministry of Fuel and Power.*



The provision of adequate thermal insulation is not a luxury in any building, however small, designed for human occupation. Nor is it a costly process, compared with the advantages it brings. In large buildings the cost of insulating is usually more than balanced by the saving in the initial outlay on heating plant. In small houses, the saving on fuel offsets the cost of insulation in a very few heating seasons. But the real point is that the saving of every possible ton of fuel is essential to the Nation's post-war economy, and GYPKLITH is available, with its low conductivity and high fire-resistance, to assist in this vital work.



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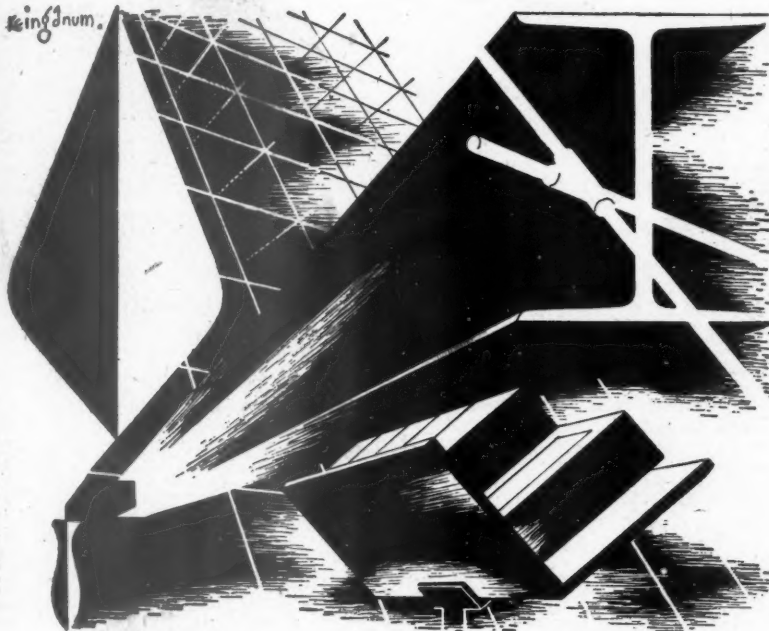


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M.61

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Reinforcement	5	1/2"	463
	1	1/2"	464
	1	1/2"	465
	5	1/2"	466
	1	1/2"	467
	178	3/4"	468
	6	3/4"	466
Walls	108	5/8"	469

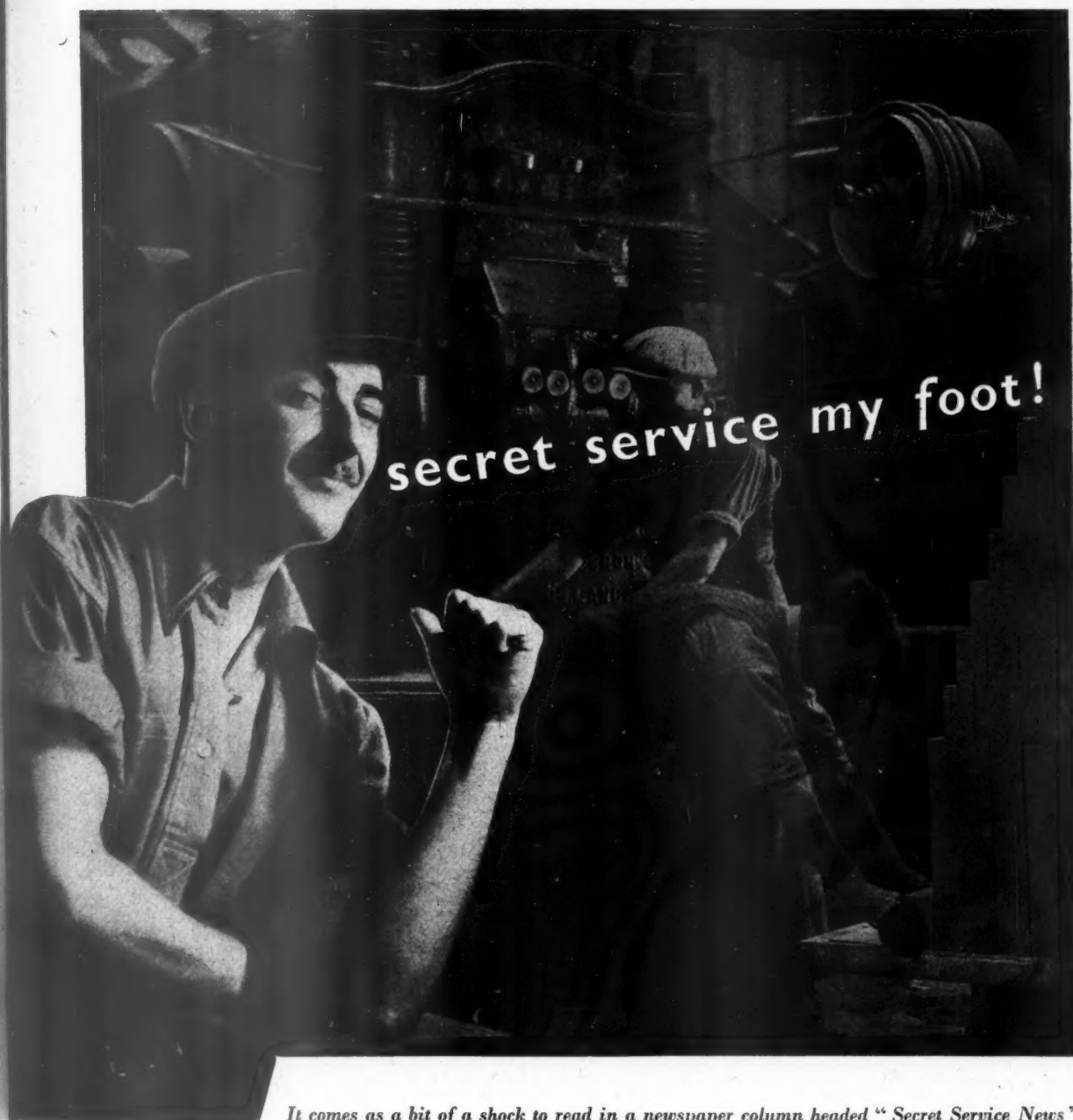
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*It comes as a bit of a shock to read in a newspaper column headed "Secret Service News" that one of our allies has developed a process for making bricks from clinker and cement and that this idea may assist our own reconstruction programmes. Sutcliffe Speakman make no secret of the fact that their Emperor Presses have been making similar bricks for a long time now. In fact, people who want to know more about making bricks from waste materials should put their secret service agents on our track.*

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SPEAKMAN**

**SUTCLIFFE SPEAKMAN & COMPANY LTD., LEIGH, LANCASHIRE**  
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*'Emperor' Presses are made in various sizes capable of producing from 1,200 to 2,400 bricks per hour and of exerting pressures of from 100 to 200 tons. They make excellent Sand Lime Bricks, Refractory Bricks and bricks from waste materials such as shale, clinker, ashes, etc.*

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**BELL again!**

SPECIALISED CONSTRUCTION are not content to have only one method of fixing to solve all lining problems. (Who would want a doctor with only one bottle of medicine?) We

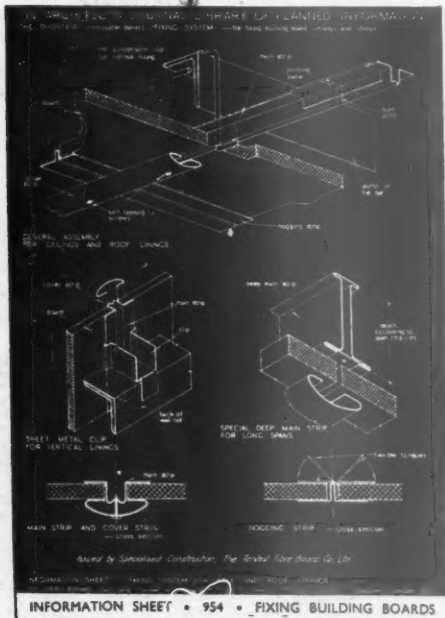
pioneered metal-to-metal fixing for building boards and we still lead in variety and technique.

Finding new solutions to both new and old problems is our everyday job.

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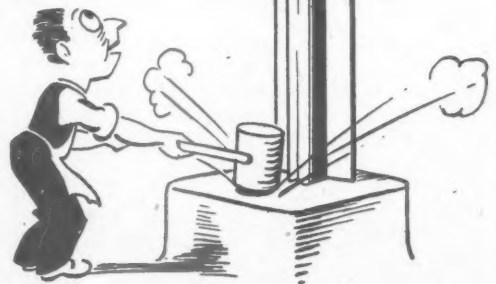


## DUOSTRIP fixing is the answer

(Patent applied for)

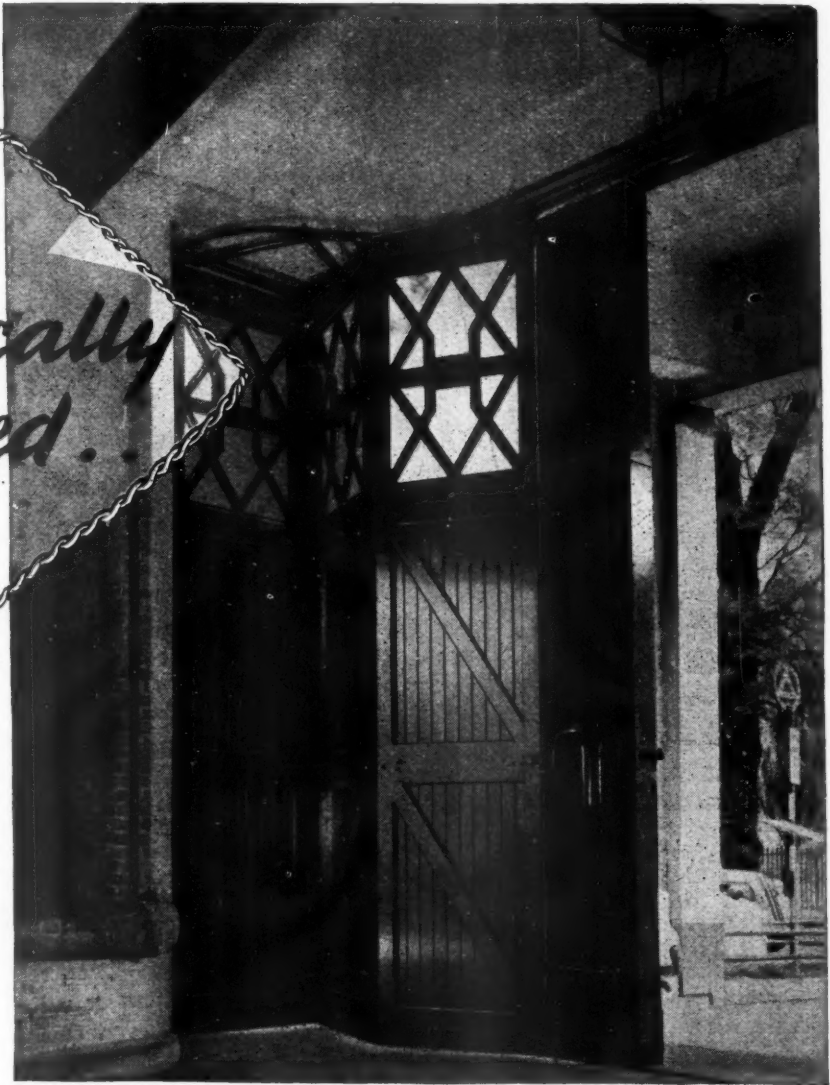
Bring us your fixing problems. We'll find the answers and, what's more, when we have found them, we'll come and apply them ourselves, taking full responsibility for the results. (As George says, "You can't ask much fairer than a doctor who takes his own medicine, can you?")

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Architects: Wallis Gilbert & Partners.

*Electrically  
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## Have you any storage or similar problems to solve

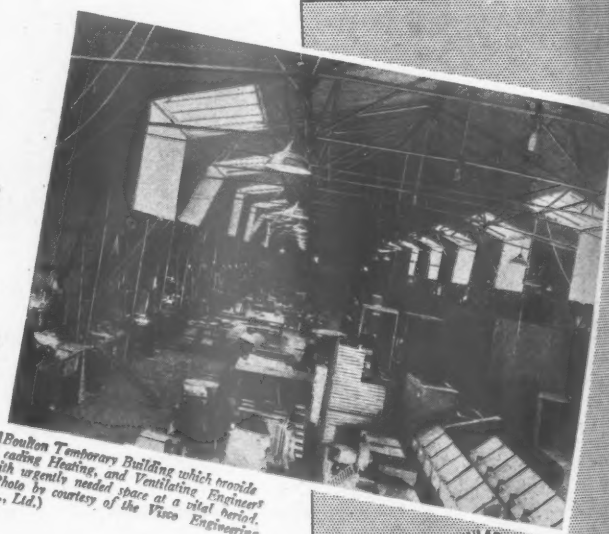
Lack of suitable accommodation presents great difficulties. In these days Building capacity is taxed to the utmost, and yet the cry for increased production gets more insistent. In most cases, a solution of the problem is a Boulton Temporary Building. For bulk storage, Machine Shops, Loading Bays and like purposes Boulton Temporary Buildings have proved a striking success, and, in a matter of days, provided the sorely needed room for expansion of output.

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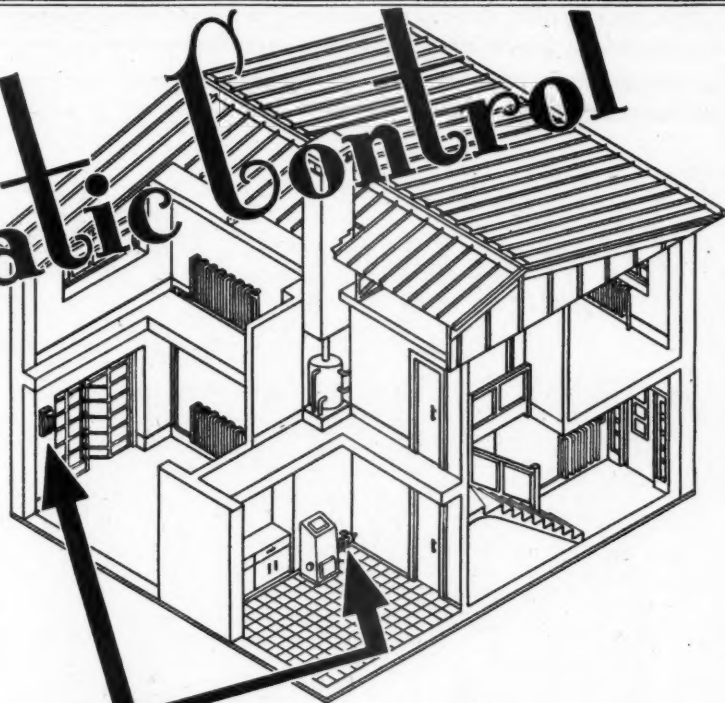
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Automatically controlled heating in this small house provides complete warmth and abundant hot water for no more fuel than is used on an ordinary open fire and independent boiler.

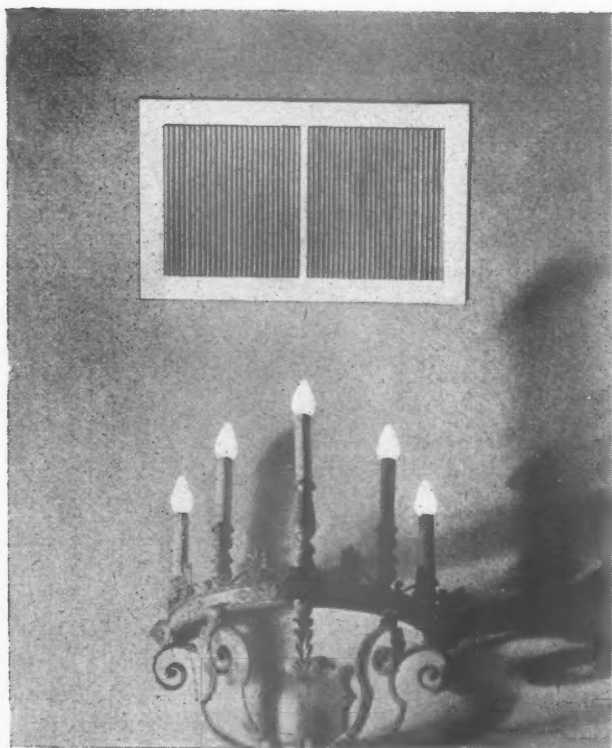
How is this possible? Most of the heat in the coal used on an ordinary open fire goes up the chimney and is lost, and the remainder barely warms one room. If most of the heat could be saved it would be sufficient to warm five rooms.

An automatically controlled boiler will extract most of the heat in the fuel, and this heat can easily be distributed to an indirect cylinder for hot water supply and to radiators for warming the whole of the house. Automatic controls will regulate the burning of the fuel and the supply of heat to the house so that only just that amount of fuel is burnt to meet the variable demand for heat, consequently a modern small house can be warmed throughout and have abundant hot water for an average consumption of less than 2 cwt. of anthracite per week. May we send you details of our ideas on this important subject?

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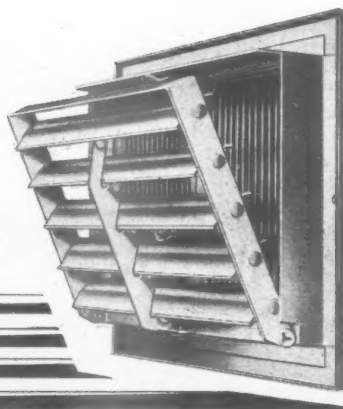
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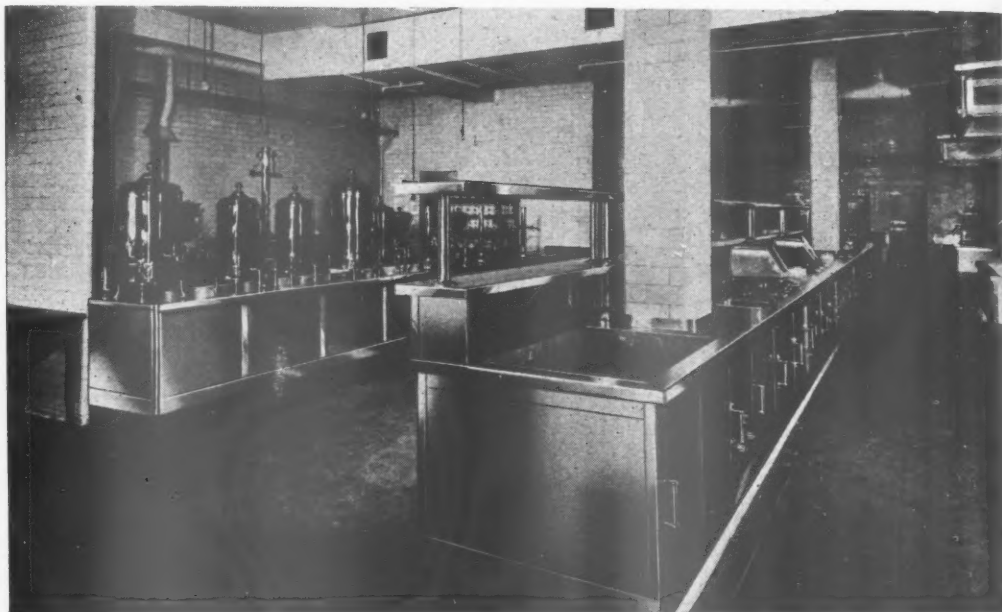
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BENHAM

COOKING  
APPARATUS

## Co-operating with Architects and Consulting Engineers



### *The PLANNING of LARGE KITCHENS*

THE publication yet again of a previously well-illustrated kitchen installation needs little apology since it recalls a successful co-operative effort, which bears on these notes. That kitchen planning is specialists' work—particularly complicated jobs like hospitals and hotels—is well known; here is an instance of a large conveniently planned kitchen scheme which was put into practical use by causing structural piers to pierce a principal stainless steel service fitting. Often, of course, in the early planning stages of a building amendments have to be made, perhaps because space allowed was inadequate or awkward; again, insufficient allowance is sometimes made for weight of equipment—particularly heavy ranges which may even have descending flues: there are indeed many essential details to settle in the earliest stages of planning.

Where a job is sufficiently large or complex to require the services of a consulting engineer, he will require to know steam consumption and details anent electricity and gas (solid or liquid fuels as the case may be) to suit a particular type of installation before he can decide upon boiler plant capacity, etc. The specialist who carries out the work from his continual experience is surely best able to supply that information. Often, although a firm is not necessarily awarded the contract, nevertheless this is part of the service which is given; to those consultants who have first-class kitchen experience this note naturally does not apply. On the choice of fuels this Company has no axe to grind, and suggestions are made in the light of experience and specialised knowledge of requirements in conjunction with questions of economics.

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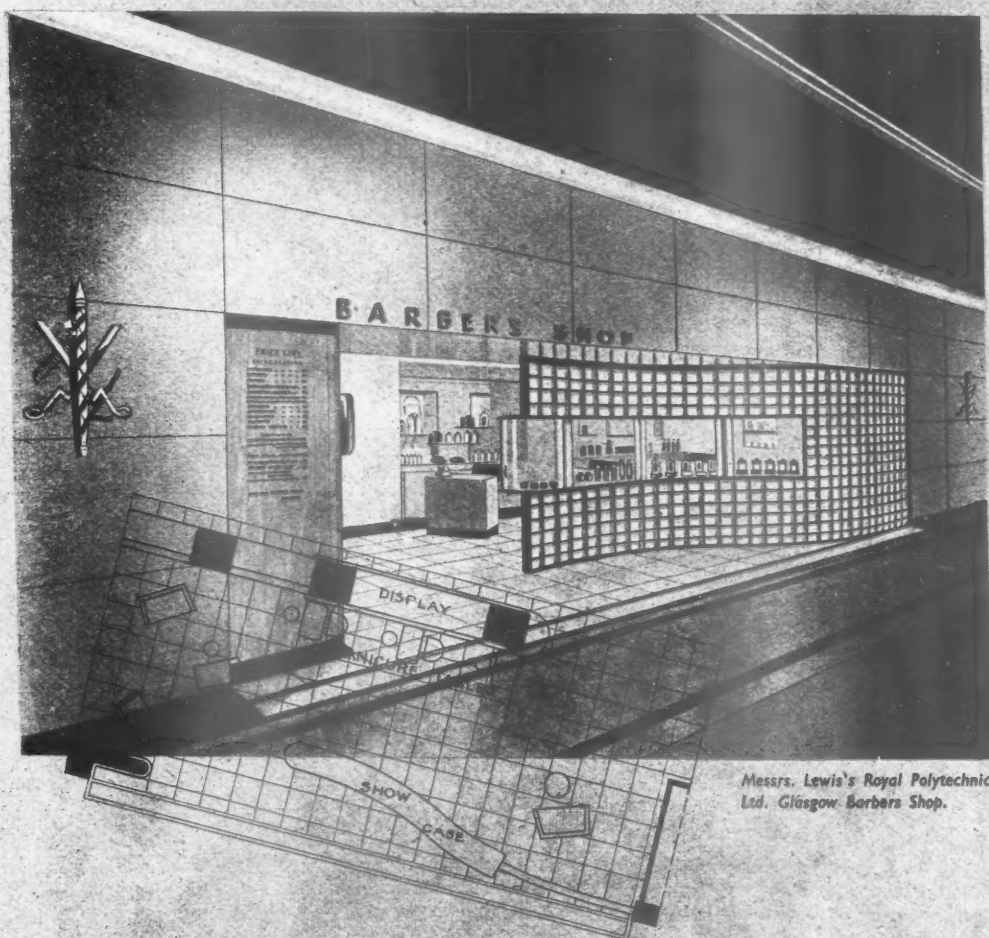
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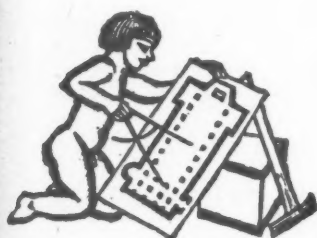


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In common with every other periodical this JOURNAL is rationed to a small part of its pre-war needs of paper. Thus a balance has to be struck between circulation and number of pages. We regret that unless a reader is a subscriber we cannot guarantee that he will get a copy of the JOURNAL. Newsagents now cannot supply the JOURNAL except to a "firm order."



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# NEWS

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## DIARY FOR DECEMBER JANUARY AND FEBRUARY

Titles of exhibitions, lectures and papers are printed in italics. In the case of papers and lectures the authors' names come first. Sponsors are represented by their initials as given in the glossary of abbreviations on the front cover.

**BIRMINGHAM.** *Permanent House Plans.* Exhibition at the Art Gallery, New Street. The plans were selected in a National Competition organised by The House Building Industries Standing Committee. DEC. 20-22

**GLASGOW.** *Other People's Jobs.* Exhibition at the Scottish Building Centre, 425, Sauchiehall Street, Glasgow, C.2. Designed to emphasise the importance of coal in industry, transport and home, and to remind the public of the need for the efficient and careful use of every type of fuel; the exhibition includes a number of up-to-date domestic appliances, including open coal fires, solid fuel cookers and stoves, as well as some of the latest designs of gas and electric cookers and other domestic appliances. (Sponsor, Ministry of Fuel and Power.) DEC. 20-29

**LEICESTER.** *Country Life and Country Needs.* Exhibition at the Museum and Art Gallery. (Sponsor, BIAE.) DEC. 20-30

**LIVERPOOL.** *Architectural Students Association Annual Conference.* To be opened by the Lord Mayor of Liverpool, Alderman Luke Hogan, at the Students Union. DEC. 20-21

**LANELLY.** *NALGO Exhibition* at the Public Library. (Sponsor, BIAE.) DEC. 20-25

**LONDON.** *Winter Exhibition of Water Colour Drawings and Paintings.* By Henry S. Merritt and Laurence Clarke. At the Batsford Gallery, 15, North Audley Street, W.1. (Sponsor, B. T. Batsford, Limited.) 10 a.m. to 4 p.m. Saturdays 10 a.m. to 12 noon. DEC. 20-22

*Exhibition of Hampstead Artists, Past and Present.* At Studio House, Haverstock Hill, N.W.3. Works are being lent by Messrs. Colnaghi, Agnews, Lefevre, Frost and Reed, as well as private collectors and public galleries. Many of the pictures in the historical section have never before been exhibited. (Sponsor, Hampstead Artists' Council.) DEC. 20 onwards

**F. Eccles.** *The Creation of a New Town.* At the Livingstone Hall, Broadway, Westminster, S.W.1. (Sponsor, TPI.) 6 p.m. DEC. 20

**H. Andrew** of the Building Research Station. *Plastering.* ASB Lecture at The RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 5.45 p.m. JAN. 2

**Richard H. Sheppard, J. H. Newsom,** Hertfordshire County Education Officer and others. *Talk on Schools* and showing of

the film *Children's Charter.* At the AA, 34-36, Bedford Square, W.C.1. (Sponsor, AA.) 6 p.m. JAN. 8

**S. C. Mount.** *A Factory in a Railway Tunnel.* At the Institution of Heating and Ventilating Engineers, 72-74, Victoria Street, S.W.1. (Sponsor, IHVE.) JAN. 9

**W. R. Watson.** *The Control of Electrical Installation Work.* At the Institution of Electrical Engineers, Savoy Place, Victoria Embankment, W.C.2. (Sponsor, IEE.) 5 p.m. JAN. 10

*Country Road Lighting.* Discussion opened by C. R. Bicknell at the Institution of Electrical Engineers, Savoy Place, Victoria Embankment, W.C.2. (Sponsor, IEE.) 5 p.m. JAN. 14

**A. Ramsay Moon.** *Shop and Site Welding.* At the Institution of Civil Engineers, Great George Street, S.W.1. (Sponsor, ICE.) 5.30 p.m. JAN. 15

*The Family and Its Needs.* Conference of the Town and Country Planning Association in conjunction with the British Social Hygiene Council. At BMA House, Tavistock Square, W.C.1. Speakers include F. J. Osborn, Miss E. E. Halton, Professor F. A. E. Crew and Sir Montague Barlow. JAN. 24-25

*National Federation of Building Trades Employers' Dinner.* At The Dorchester Hotel. Guest of honour, Mr. Aneurin Bevan, Minister of Health. JAN. 30

**Kenneth Holmes,** Principal of the Leicester College of Arts and Crafts. *The Place of the Art School in the Life of the Community.* At the Royal Society of Arts, John Adam Street, W.C.2. (Sponsor, RSA.) 1.45 p.m. JAN. 30

**H. M. Llewellyn,** of the Building Research Station. *Painting Plastered Surfaces.* ASB Lecture at the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 5.45 p.m. FEB. 6

**Professor G. I. Finch,** Scientific Adviser to the Ministry of Home Security. *The Need for Scientific Research into the Prevention and Extinction of Fires.* At the Royal Society of Arts, John Adam Street, W.C.2. (Sponsor, RSA.) 1.45 p.m. FEB. 13

**Max Lock.** *Surveys and Their Practical Application to Planning.* At the Livingstone Hall, Broadway, Westminster, S.W.1. (Sponsor, TPI.) 6 p.m. FEB. 21

**J. F. Bickerton** and **Petros Protapapadakis.** *Layout of Passenger Stations.* At the Institution of Civil Engineers, Great George Street, S.W.1. (Sponsor, ICE.) 5.30 p.m. FEB. 26

*Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis. The JOURNAL's starring system is designed to give this emphasis, but without prejudice to the unstarred items which are often no less important.*

★ means spare a second for this, it will probably be worth it.

★★ means important news, for reasons which may or may not be obvious.

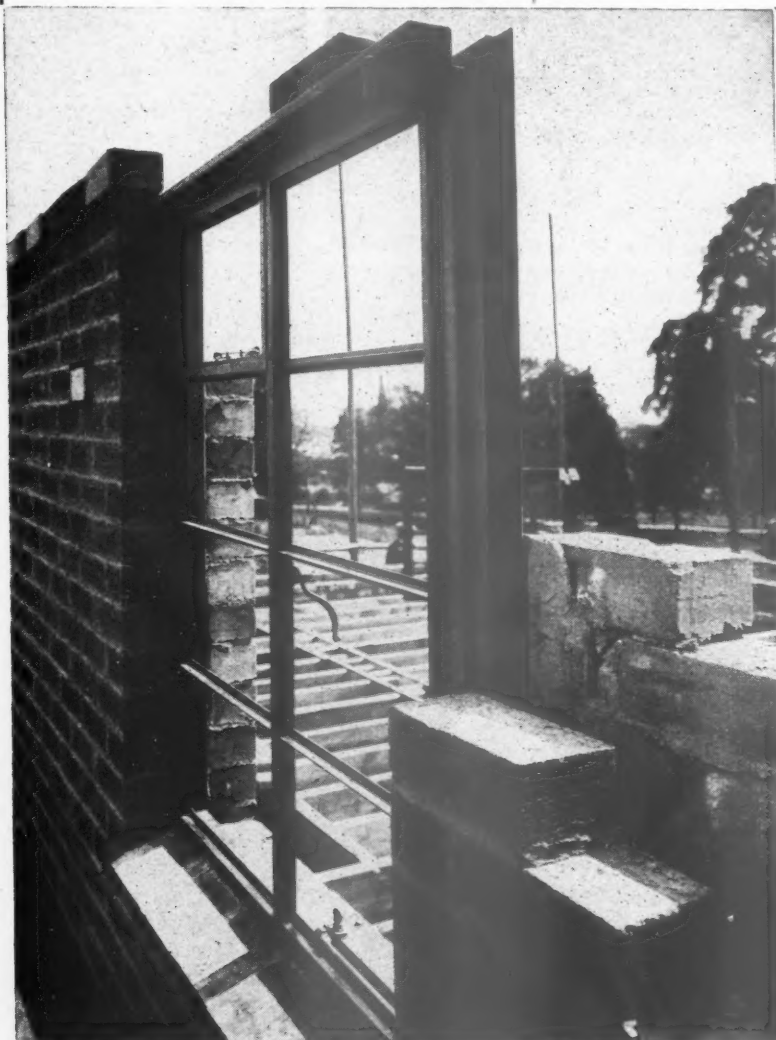
Any feature marked with more than two stars is very big building news indeed.

★★★

*Sir Charles Reilly: the NARROW LITTLE STREETS running up from the sea front at Brighton should be preserved as characteristic of the town.*

Sir Charles Reilly was speaking at the formation of the Regency Society for the preservation of Brighton and Hove. The society intends to make efforts to stem any indiscriminate destruction of Regency buildings, and to educate public opinion and inspire it with a desire to preserve and value an architectural heritage. Flight Lieutenant Teeling, M.P., for Brighton, who presided, said that if for the next 20 or 30 years they can save their towns from being destroyed they will retain something which all the world will come to see. We must not become museum pieces. We know these towns must be developed, but we must not destroy what cannot be put up again. Rather harness the past to the future. The Duke of Wellington, a member of the council of the Georgian Group, suggested the possibility of knocking together three or four houses to make flats, with a lift for each of the buildings. Mr. D. L. Murray said it is now realised that the Regency period has so far only one rival in our history—Elizabethan. It is proposed, he announced, to organise a Regency Week to include an exhibition of Regency furniture and art, a pageant and a fancy dress ball in period dress. Numerous offers of membership have been received by the society, including those from Lord and Lady Methuen, Lady Leconfield, Lady Cunard, Lady Gage, Lady Granet, and Sir Osbert Sitwell.

## REBUILDING BRITAIN



### HOPE'S "CAVITY" SUB-FRAMES

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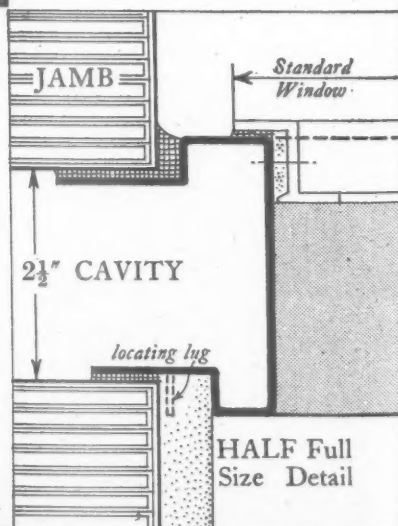
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## HOPE'S "Cavity" SUB-FRAMES

THEY WILL BE RUSTPROOFED



# From AN ARCHITECT'S Commonplace Book

**PERIOD SETTING FOR *LE FIVE O'CLOCK*.** [From *Swann's Way*, by Marcel Proust.] Twice only had he gone inside to take part in the ceremony—of such vital importance in her life—of “afternoon tea.” The loneliness and emptiness of those short streets (consisting, almost entirely, of low-roofed houses, self-contained but not detached, their monotony interrupted here and there by the dark intrusion of some sinister little shop, at once an historical document and a sordid survival from the days when the district was still one of ill repute), the snow which had lain on the garden-beds or clung to the branches of the trees, the careless disarray of the season, the assertion, in this man-made city, of a state of nature, had all combined to add an element of mystery to the warmth, the flowers, the luxury which he had found inside. Passing by (on his left-hand side, and on what, although raised some way above the street, was the ground floor of the house) Odette's bedroom, which looked out to the back over another little street running parallel with her own, he had climbed a staircase that went straight up between dark painted walls, from which hung oriental draperies, strings of Turkish beads, and a huge Japanese lantern, suspended by a silken cord from the ceiling (which last, however, so that her visitors should not have to complain of the want of any of the latest comforts of Western civilisation, was lighted by a gas-jet inside) to the two drawing-rooms, large and small. These were entered through a narrow lobby, the wall of which, chequered with the lozenges of a wooden trellis such as you see on garden walls, only gilded, was lined from end to end by a long rectangular box in which bloomed, as though in a hothouse, a row of large chrysanthemums, at that time still uncommon, though by no means so large as the mammoth blossoms which horticulturists have since succeeded in making grow . . . Odette had received him in a tea-gown of pink silk, which left her neck and arms bare. She had made him sit down beside her in one of the many mysterious little retreats which had been contrived in the various recesses of the room, sheltered by enormous palm-trees growing out of pots of Chinese porcelain, or by screens upon which were fastened photographs and fans and bows of ribbon. She had said at once, “You're not comfortable there; wait a minute, I'll arrange things for you,” and with a titter of laughter, the complacency of which implied that some little invention of her own was being brought into play, she had installed behind his head and beneath his feet great cushions of Japanese silk, which she pummelled and buffeted as though determined to lavish on him all her riches, and regardless of their value.

**Brigadier A. H. Killick, C.B.E., D.S.O., M.C., M.A., THE SECRETARY OF THE CHARTERED SURVEYORS' INSTITUTION**, who was recalled to the Army at the outbreak of war, has been released from the Service and has resumed his duties as Secretary at the headquarters of the Institution.

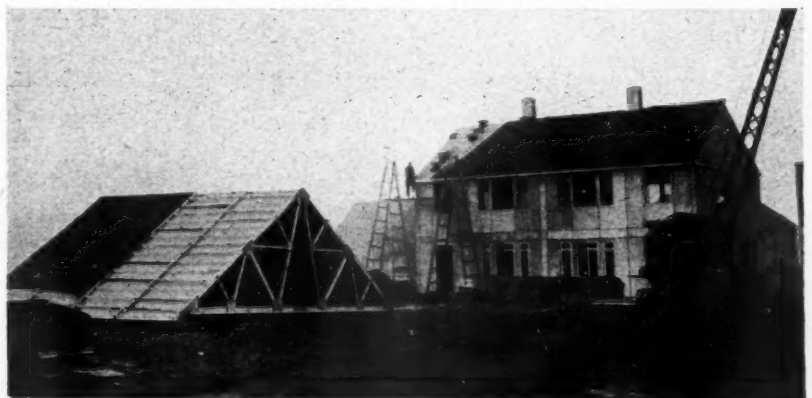
On his recall in 1939 Brigadier (then Lt.-Col.) Killick was appointed head of the General Staff branch at the War Office, charged with the preparation and organization of units destined for service with Field Marshal Wavell in the Middle East. In 1941 he was entrusted by the Army Council with the formation of the newly constituted Army Council Secretariat, whose work he guided and directed as Joint Secretary (Military) until his retirement from the Army in September, 1945. Brigadier Killick's services received recognition by His Majesty the King in 1944, when he was created a Commander of the Order of the British Empire.

**Mr. E. B. Gillett: Vigilantistic interference with private liberties, while causing ANXIETY, BITTERNESS AND FEAR among many people, contributes almost nothing to the solution of the housing problem.**

In his inaugural address to the Chartered Surveyors' Institution, the President, Mr. E. B. Gillett, said: Fox-hunting was once

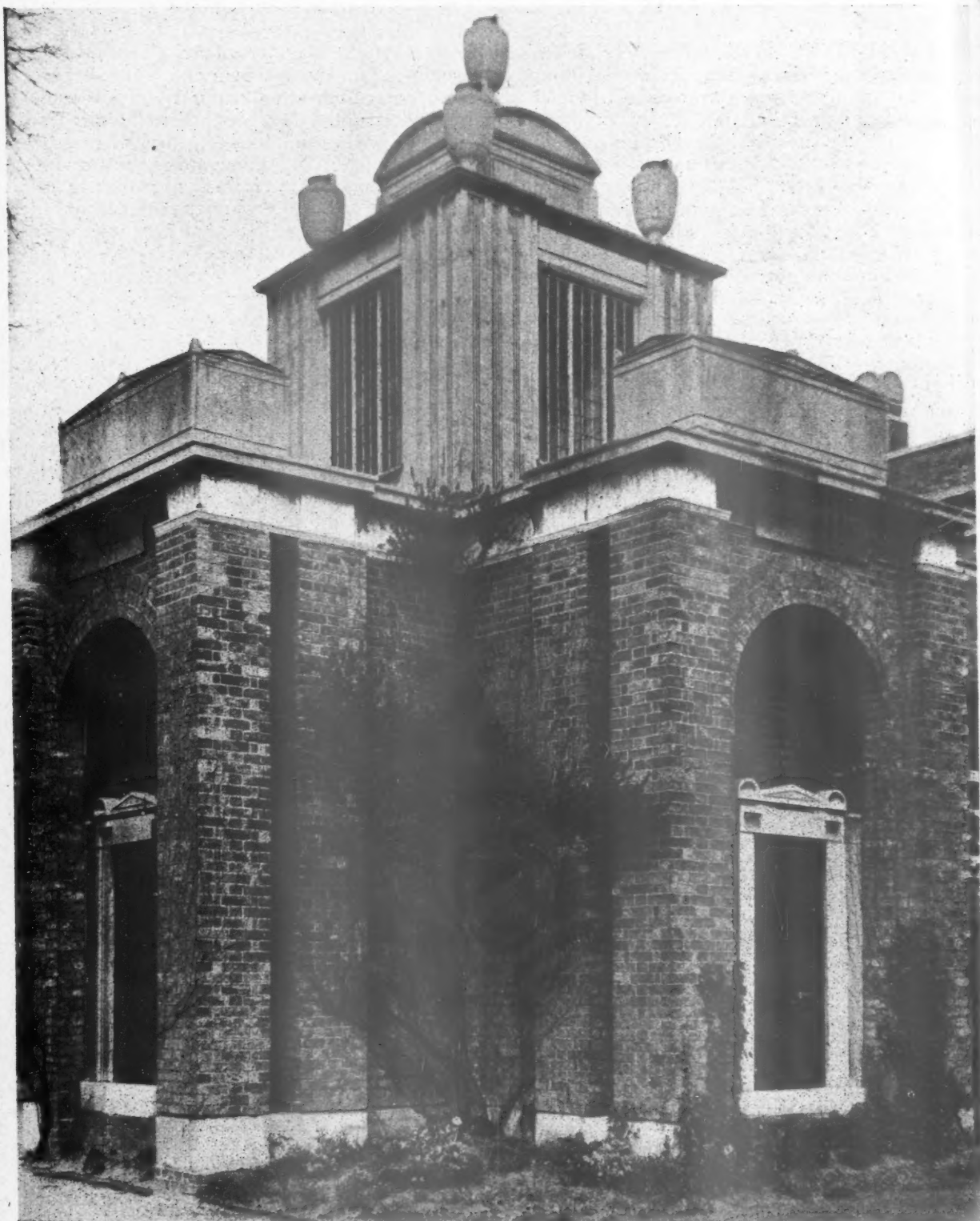
characterised by Oscar Wilde as the pursuit of the inedible by the ineffable. If Wilde were still alive he might have said of requisitioning, as practised in these days of peace, that it was the pursuit of the uninhabited by the uninhabited. Let me say that neither I nor anyone who is a good citizen would deny for one moment the propriety, or the need, for seeing that empty houses are occupied. I have no sympathy with any person, possessing the right of occupation, who keeps a house unlivid in by himself or others. That, I may say, applies to public authorities as well as to private persons. With vigilantism I have no sympathy. And here, as a matter of history, let me remind you that the original vigilantes were ranchers and punchers of the Western cattle towns, self-appointed policemen who with rope and six-gun dis-

pensed rough justice of a kind often more rough than just. Their methods were doubtless justified in primitive communities, but, however good the motives of their latter-day descendants, their ways are still uncivilized and all too reminiscent of old times on the Mexican border. We have seen these methods permeating the counsels of some authorities whose actions, as it seems to me, come too near to dictating when, how, and whether or not we may live in our own homes. Whether these methods in fact are actuated by proper considerations, or are a symptom of the beginning of mob law, I am not as sure as I should like to be. And the tragedy of it is that all this bustling interference with private liberties, while causing anxiety, contributes almost nothing to the solution of the housing problem.



Experience gained while making parts of Mulberry Harbour is being applied to the building of houses at Croydon. A house is seen nearly completed and an assembled roof ready for another house.





## *Soane's Masterpiece to be Restored*

The mausoleum of the Dulwich Art Gallery. The Gallery, which was destroyed by a flying bomb in 1944, is to be restored. In an article in this issue Mr. John Summerson, Curator of the Soane Museum, describes this "extraordinary building—one of those rare buildings where sheer originality

of mind pervades everything." As he says, Soane's buildings have been destroyed wholesale—by fire, by blitz, and by architect. "We cannot afford to lose any more, and the decision to rebuild Dulwich will be endorsed by anyone who has the slightest respect for architecture as a fine art."



★  
**Building work in London will stop only on CHRISTMAS DAY AND BOXING DAY.**

This is the effect of a resolution of the London Regional Joint Committee, representing both operatives and employers. The resolution is as follows:—

The London Regional Joint Committee record that in accordance with the London Working Rule Agreement for Building Trade Operatives, jobs in the London District will be closed for the Christmas holiday on Tuesday and Wednesday, December 25 and 26, which are the only days of holiday defined in the Rule. It is emphasised that shops and jobs should be open on Saturday, December 22, and Monday, December 24.

★

**Mr. C. G. Stillman, County Architect of West Sussex, has just taken up his appointment as COUNTY ARCHITECT OF MIDDLESEX.**

As County Architect of West Sussex, Mr. Stillman became famous for his pioneer work in flexible schools [see ARCHITECTS' JOURNAL, November 26, 1942 and June 7, 1945.] His first experiment was at Sidlesham in 1936, where he erected some classrooms of light-steel unit construction. These classrooms, the first of their kind to be built in this country, aroused considerable interest in educational circles. They also marked the beginning of his investigations into flexibility of design and construction, a flexibility now worked out so thoroughly as to enable every future school to keep pace with the most drastic changes in educational needs. Many of his schools and other important buildings in West Sussex have been illustrated in the ARCHITECTS' JOURNAL. At Chichester, he designed and carried out the County Hall, St. Richards Hospital and the Courthouse, and at Worthing, the Police Station and Courthouse and the Art School. His schools are at Bognor, Selsey, Shoreham-by-Sea, Littlehampton, and in other parts of the county.



Mr. C. G. Stillman, the new County Architect of Middlesex. See News Item on this page.

## PREFABRICATION II: A POLICY

IN the early stages of a movement the fundamental often gets overlaid with the superficial. The basic facts are not well grasped. It was so with the steam engine, which was at first designed like a post chaise because that was the only form of carriage men knew. The motor car followed the same trend. Modern conceptions of architecture were applied, at first, superficially, on the old framework.

Prefabrication is no exception. We hardly yet know how to use it. Laboriously we imitate the old brick house in form and content. Our prefabricated efforts are mere copyism, their explosive potential still unrevealed.

Nevertheless, the basic factors stand out clearly. In their enthusiasm for the new-fangled toy, men are trying to prefabricate the complete house when previously they were content with bricks. Government policy, reflecting the general tendency, is sharply defined on this issue. On the one hand we have the programme of completely prefabricated houses, permanent or temporary, and on the other the programme of building by purely traditional means.

The Government takes no official cognisance of the yawning gap in between. But, then, the Government still appears to regard prefabrication as a makeshift (Mr. Bevan's speeches notwithstanding), a substitute, a poor relation, to be sent packing when more ample times return. Prefabrication and tradition are maintained artificially in watertight compartments.

On this point we are at issue. We stand for the inbetweens. The definition in our leading article of last week implies that prefabrication, far from being a substitute or a stopgap, is an integral part of building. We fail to see the sharp dividing line the Government and the Building Industry at large appears to accept.

The solution is simple. The production of prefabricated parts for stock should be encouraged and the building industry should absorb as many such products as it can.

The Government's method of developing fully prefabricated types of houses of specialized, even patented, design, each worked out in the fullest detail, is based upon two things: (a) the existence of a large protected market capable of absorbing uncritically an enormous number of houses of like type and size and (b) a preference for the big industrial organisation which alone can undertake work of this magnitude. We see the iron and steel and the aircraft industries trying to carve out a market for themselves in houses with total disregard to the traditional building industry. We see two rival groups set up, prefabrication being at odds with tradition, mutually incompatible rivals. The one or the other ultimately must fall.

The Government, by its lack of any coherent policy on standardization, has not encouraged the middle way. We now plead for correlation of dimensional standards, so that parts

produced for stock may be made interchangeable. There is only one way to correlate standards; the Americans have adopted it in A.625, the fixing of a universal module of co-ordination.

In the rebuilding of Europe such a correlation will be imperative. We expect it will be based on the dimensional system 10 cm. : 1 metre. Why not take the bull by the horns and get this modular system adopted internationally? We can no longer stand as a country in isolation. The future will see a growing trade in prefabricated building products between country and country and it is paramount that we do not allow an obsolete variance of dimensional scales to obstruct this commerce.

Whether or not we achieve international agreement, co-ordination is nationally vital. We cannot fabricate for stock until we have laid down our bases of correlation and, until then, prefabricators are being forced into the position of having to design a complete house if they are to sell their product. What a waste of endeavour this represents.

Standardization is the key to prefabrication and co-ordination is the key to standardisation. Starting now, we could, in two years, build up a repertoire of prefabricated standard products for stock that would enable the whole trade to engage in prefabricated building, each man to his own design, that would enable the small man to participate freely, and that would not result in the fatal cleavage in the trade to which we are heading.



*The Architects' Journal*

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#### USA HOUSE MARKET STUDY

A small pamphlet of American origin has just come into my hands. It is called *The Forum Study of the House Market*. It is the tabulated

(and illustrated) result of a piece of American market research conducted on behalf of the *Architectural Forum* of New York into the prospects for the house building industry now the war is over—very American, in that it frequently goes to a great deal of trouble (and a certain amount of pretension) to prove a most obvious fact, such, for example, as the conclusion that people in the higher income groups are more likely to pay cash outright for their house than those in the lower income groups. But it draws certain interesting conclusions that may have the same validity over here.

Among them is the list of the preferences shown for particular special features. The point that attracted the greatest total of direct references was the need for a good heating system. That would probably be true over here, although we still are inclined to tell ourselves that only Americans are passionately fond of a well-warmed house. The next highest item on the list was a demand for modern, well-equipped kitchens. That, I am sure,

holds good here, too. Bathrooms came fourth and cupboard space fifth.

Oddly enough 13 per cent. wanted basements, as opposed to 11 per cent. who mentioned porches and 9 per cent. who mentioned some form of air conditioning. The two items last on the list were good lighting systems and good floors (both 6 per cent.).

In the section devoted to design, the Cape Cod style headed the list of preferences, which, *mutatis mutandis*, would probably also apply here. Modern and "Modified Modern" (a phrase that fills one with foreboding) came right at the bottom of the list in this Forum Study. And yet according to an editorial in *Pencil Points* for September, surveys undertaken by various magazines serving the lay reader, to find out what people in general want in their postwar homes, "indicate a distinct and strong trend away from traditional types of design and toward what has come rather vaguely to be called 'modern'."

What is one to believe, then, except that surveys of this kind are unreliable? No doubt such surveys made in this country would show the same discrepancies, depending on the system used and the kind of questions asked.

#### AN OUTLINE RE-DRAWN

That pampered individual, the General Reader, will soon have to clear his wife's sewing things off the bottom shelf of the book-case, if the spate of books on architecture, written specially for his benefit, continues. The latest of them is an *Outline of English Architecture* by A. H. Gardner. A.R.I.B.A.—a twelve-and-sixpence worth from Batsford's.

Mr. Gardner has performed his task conscientiously. But it would be hard to disguise the fact that it is a task—an unenviable task—to tell the story of English architecture, with a preliminary glance at Greece and Rome, in the space of 112 pages. Mr. Gardner has not always succeeded in disguising it. One fancies that one can detect that with some parts of the subject, which had to be included for

the sake of completeness, he was just a little bored. (And who can blame him?)

All the same, this book has positive merits. The chief of them is that it does not stop at 1714 or at 1800 or even at 1850, for Mr. Gardner realizes that history, unlike the atom, is indivisible. (It is a pity, though, that he calls it "modernist" architecture, even if "modern" is ambiguous and "Modern" seems to beg the question.)

Mr. Gardner has tried to be fair all round. He does not make many statements which will strike many people as positively shocking. But my pencil did register an exclamation in the margin when I read that "like all ancient buildings, our churches have gained immeasurably by the toning down of any original garishness of

colour, and even in some cases by the loss of a superfluity of fittings."

One question raised by a reading of this book is this: How far should critical estimates of individual buildings be admitted into a book of this sort, where there is no room to substantiate them? Mr. Gardner seems hardly aware of the difficulty implied. Thus he writes: "If St. Mary Woolnoth is not particularly attractive, St. George's, Bloomsbury, is a well-balanced design and Christ Church, Spitalfields, of outstanding vigour." Of course the *cognoscenti* will know more or less what he means, whether they agree or not. But what will the General Reader make of it?

However, the General Reader has really been pretty well served, and should be both pleased and edified by the book as a whole.

ASTRAGAL



## LETTERS

Eric Caney, A.R.I.B.A.

Percy Thomas, P.R.I.B.A.  
President, Architects Benevolent Society

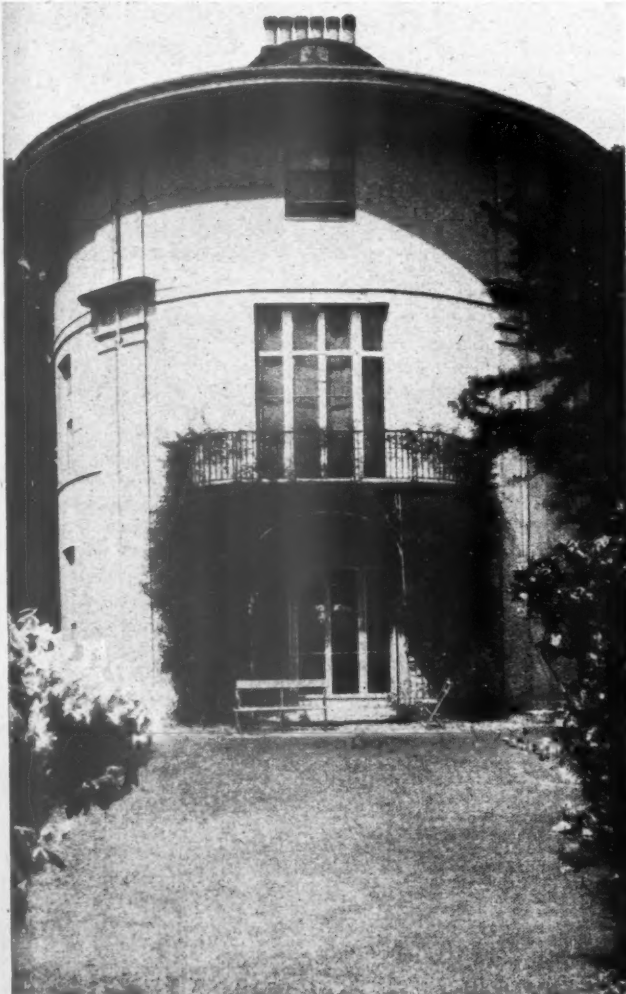
### Don't Fence Me In

SIR.—It was disturbing to note at the ABT Housing Conference that it was tacitly and almost universally assumed that the part which architects and other specialists are to play in the forthcoming building programme, will be performed from within the walls of Local Authorities and Ministries.

Many architects have just spent several years inside those walls, in what has been to them a very devitalising atmosphere, and have only recently emerged into their own particular brand of fresh air. There seems now to be a possibility that in order to be able to take some part in work of reconstruction at all, they may be forced back into the institutions which they have just left with such a sigh of relief. Must this inevitably be so?

Frederick Gibberd stood alone at the conference in pointing out that the architect, amongst other things, is also an artist, and as such must be allowed congenial conditions, in which to produce results. The question arises, whether, even with all the changes that are taking place during these present weeks, and with the best will in the world, such conditions can be produced inside the walls of the above-mentioned organisation, for it is not so much perhaps working FOR an Authority, as working IN an Authority (with all life's petty detail settled in triplicate in advance) that so devitalises the designer.

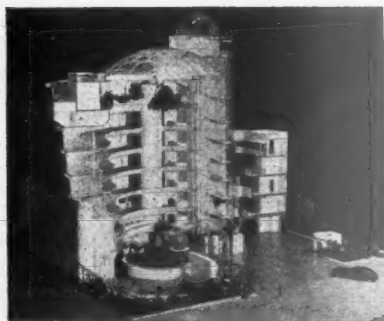
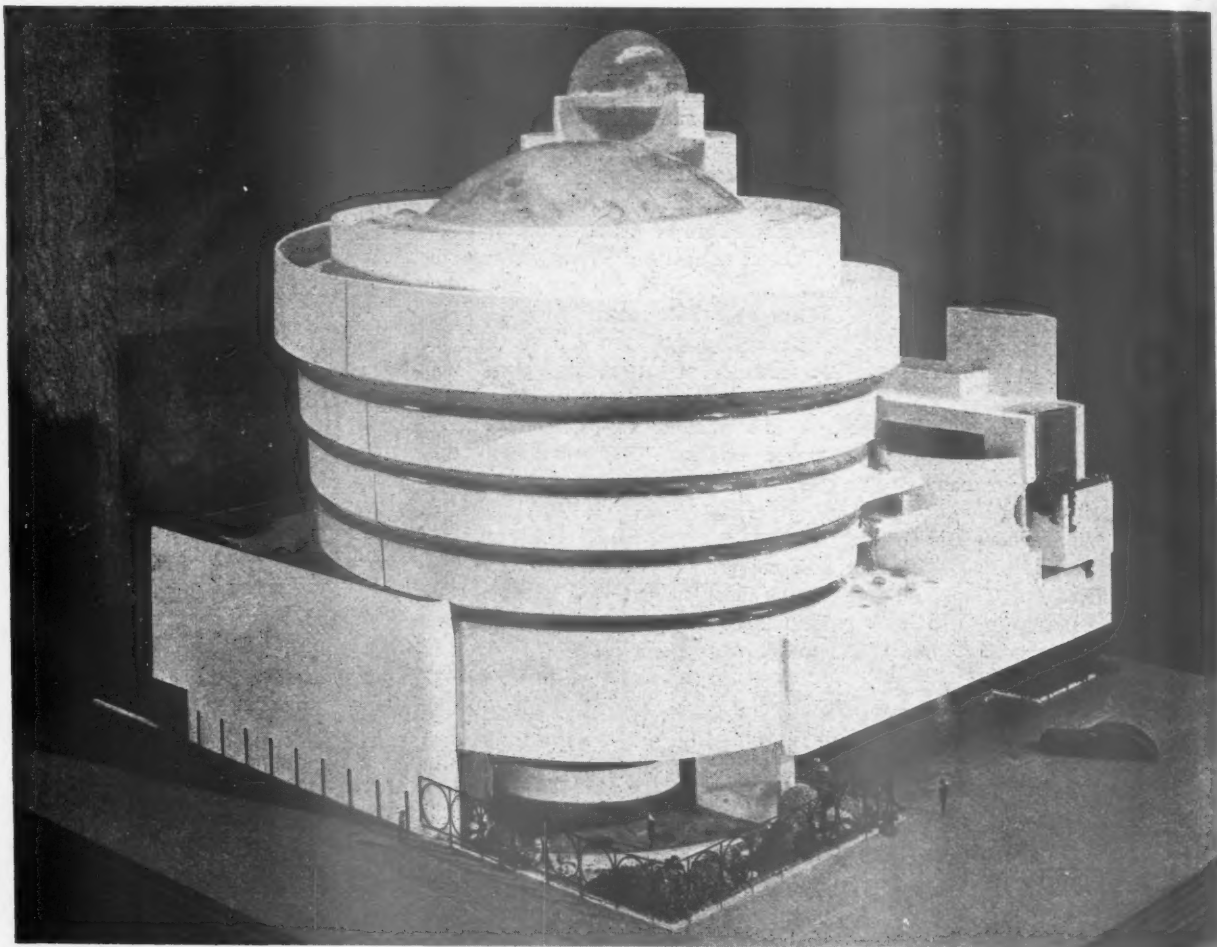
There appears at the moment to be a tendency for the formation of group practices of architects, engineers, and other allied designers up and down the country: Groups formed on the one hand due to the overriding necessity for teamwork to cope adequately with the growing complexity and inter-relation of their spheres of action; and on the other hand on the basis of mutual



Regency Villa at  
Havering - after  
Bower, Essex, ca.  
1810. From  
Outline of Eng-  
lish Architecture  
by A. H. Gardner.  
See Astragal's com-  
ments this week.



# FRANK LLOYD WRIGHT'S LATEST JOB



General and sectional views of a model of the gallery to house the famous Guggenheim collection of non-objective art on New York's Fifth Avenue. The building consists of a long, wide spiral ramp, round a central well, widening as it rises some seven storeys. A small fast ramp in a tower, which also contains lifts, on one side of the grand ramp, provides quick vertical circulation. The centre well is covered with a huge shallow glass dome. The entire building is a completely floor heated, air conditioned vault, so that all glass coverings can be eliminated from the paintings. The main structure is monolithic of pre-stressed reinforced concrete, both interior and exterior being faced with polished marble aggregate. Pictures will not be hung but will rest on a base which is part of the wall. Pyrex glass tubing is extensively used to light and seal the interiors. The building will include a cinema below ground, a laboratory for experiments in animation, studios, a conservatory, and an observatory, a cafe, a banquet hall and boardroom, and an inner gallery.

respect on questions of work, outlook, and personality. Such an atmosphere is stimulating: it is personal. The Unit is far more flexible than many larger organisations, and at the same time of very suitable dimensions to cope with specific items in the programme of reconstruction in full co-operation with the Local and Regional Authorities. Such formations are surely as Democratic as anyone could desire. They are certainly as enthusiastically behind the new Government's efforts as anyone else; in fact they have something in common with it. They have never had a run for their money.

Mr. Bevan has drive, personality, a fortunate turn for practical experiments, and undoubtedly intends to use all his resources to the full. May a plea be made that such

teams, and in fact all those "without the walls" be not forgotten; for the fear remains, despite much encouragement in recent days, that at lower levels than the Ministerial one, full advantage may still not be taken of all possibilities.

London

ERIC CANEY

## ABS Christmas Appeal

SIR.—This year we are able to celebrate Christmas with thanksgiving for the end of fighting, and with a prospect of peace and progress. But the work of the Architects' Benevolent Society for the alleviation of

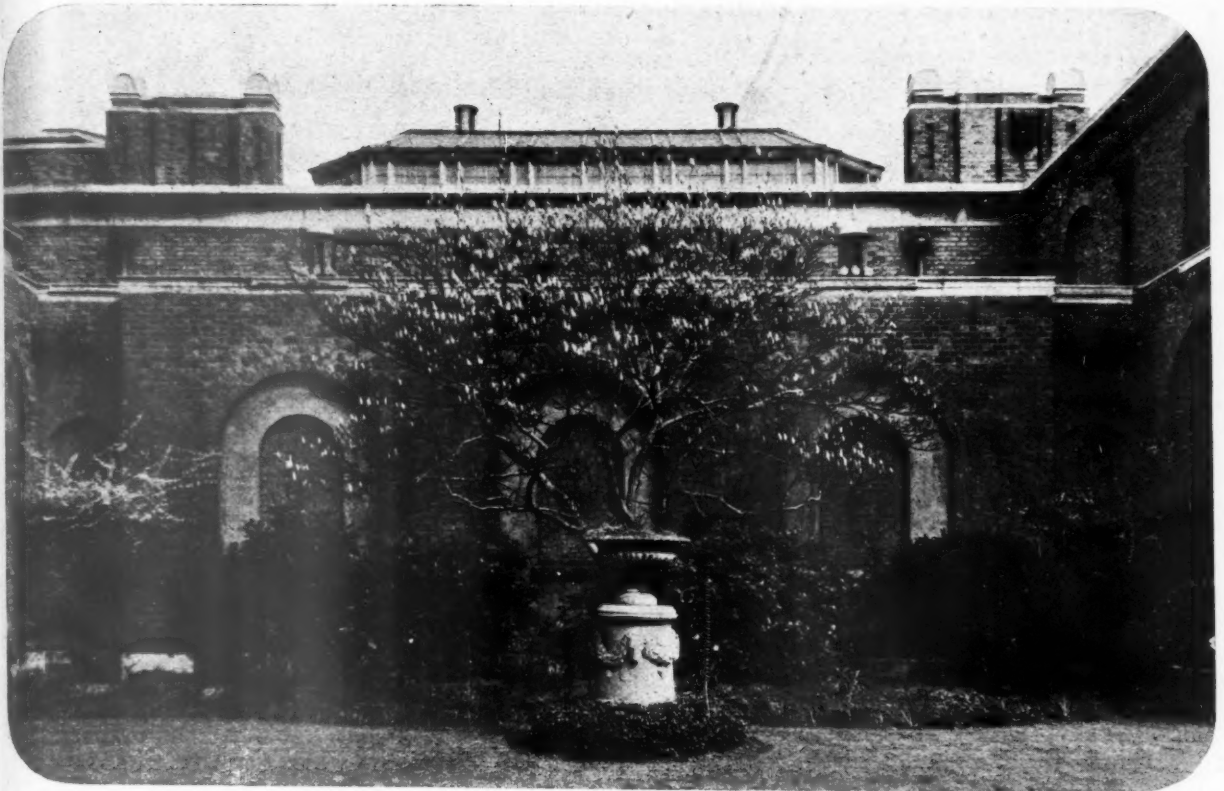
hardship and distress among the aged, the sick and orphans is still needed and increasingly urgent.

Shortage of funds now often prevents us from giving to distressing cases help that will really be adequate. Once again, therefore, I appeal to every member of the Architectural profession, especially to the 13,000 who do not yet subscribe, to send a special Christmas gift towards our work. Most can afford at least half-a-crown—the cost of one packet of cigarettes. Will you please send what you can spare, and give us the means to help others in desperate need.

PERCY THOMAS,  
President,

London Architects' Benevolent Society.



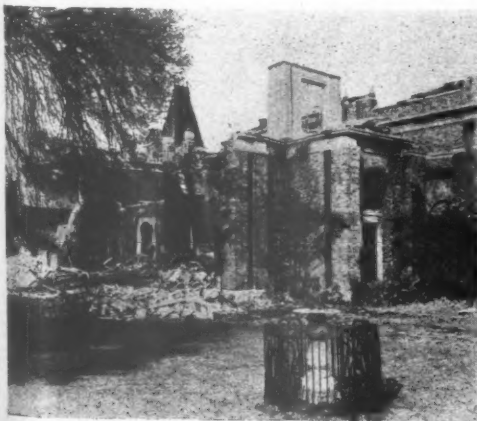


*Above, the wall of the one-storey office block on the left of the mausoleum projection before destruction. Below left, the building after destruction by a flying bomb in 1944.*

# DULWICH

## ART GALLERY

A N O B I T U A R Y  
BY JOHN SUMMERSON



The Dulwich Art Gallery was built in 1811 by Sir John Soane and blown to pieces in 1944 by a flying-bomb. The Governors of Dulwich College have made known their intention of rebuilding and, in spite of hideous damage, this is quite practicable. That the Gallery is worth rebuilding, no architect who remembers it will question for a moment.

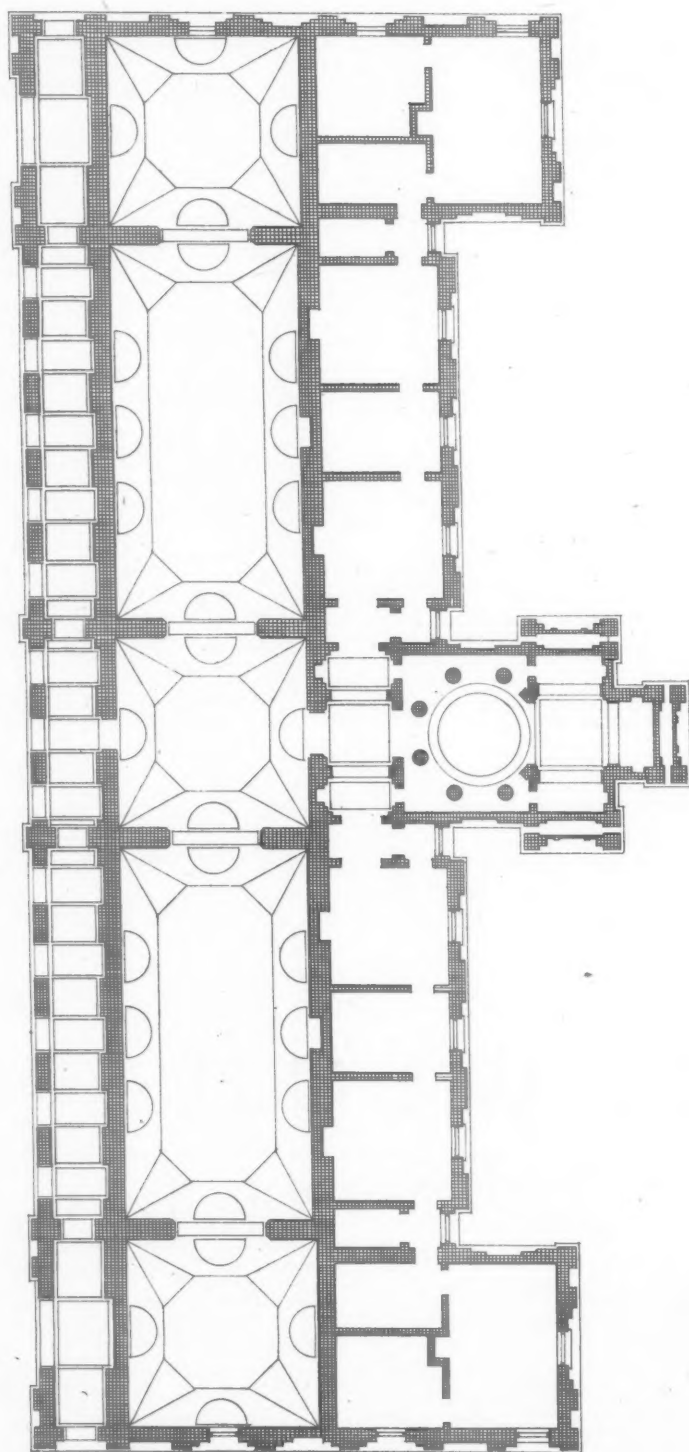
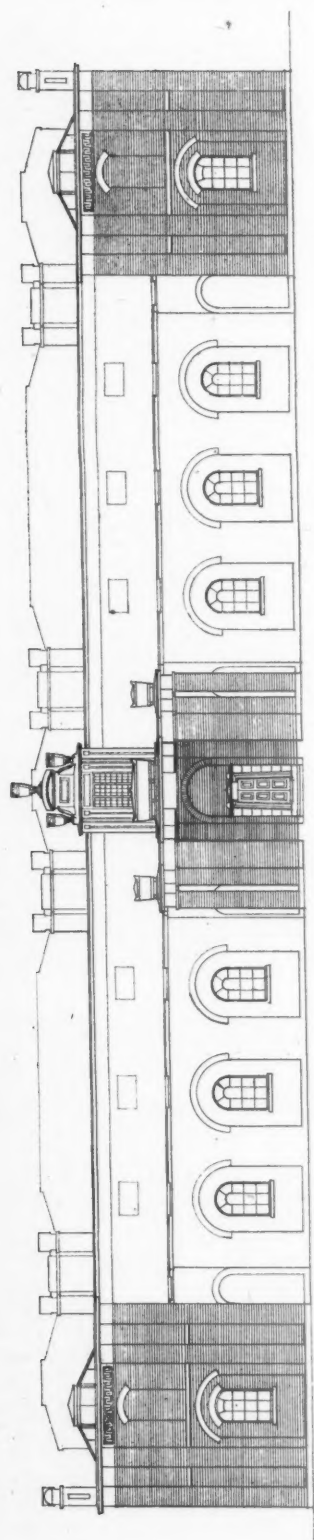
Soane was 58 when he made the

design, so it belongs to a time when that strange creation, the Soane Manner, was already well developed. Exactly what the Soane Manner is I do not think one can explain in so many words. Grooved masonry, "umbrella" domes and an excess of "knobs" in the form of urns, acroteria and other baubles are some of the symptoms. But they are not the thing itself. The

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[Scale:  $\frac{1}{4}$ " 1' 0"]

Drawn by Alison Shephard

ELEVATION AND PLAN OF THE ORIGINAL BUILDING

# THE DULWICH ART GALLERY

success of a Soane design does not hang on its mannerisms. The success of Dulwich—perhaps the finest of the few surviving Soane buildings—certainly did not. Look at the plan. The main component is the gallery suite consisting of three square and two oblong rooms. Then, at right angles to this, are two wings, each containing two storeys. The founder's mausoleum projects in the centre of the gallery suite; and on either side of it, between the mausoleum and the wings, are inset two low single-storey blocks, designed for offices. At the back is a loggia (removed for extension to the gallery some years ago). Now observe one point—apparently insignificant—about this plan on the mausoleum front. Although the mausoleum and the two end wings nearly correspond with the three square galleries behind them,

they do not do so *exactly*. In fact, the coincidence of the lines on the plan is deliberately avoided by the introduction of four small lobbies. The outer walls of these lobbies, providing four entrances to the building, are slightly recessed from the main wall-face, so that the low one-storey blocks are given *quasi-independence*.

This quasi-independence (forgive the ugliness of the phrase) is a trick. Quite obviously, the lobbies could have been placed in such a way that the partition lines of the galleries ran straight through from back to front of the building. The trick is a concession to the designer's artistic purpose; and it provides a clue which we can pick up elsewhere in the design. The quasi-detachment of one unit from another is a device of Soane's to produce a feeling of tautness—"of tension"—in the design. The

instance I have quoted is the only one which sensibly affects the gallery plan. But in the mausoleum it is most noticeable. The double piers of each "transept" are quasi-detached from the central square. The portals stand quasi-detached in the arches. On the horizontal plane, the frieze is recessed so that the cornice is quasi-detached from the piers which support it. And the whole mausoleum is quasi-detached from the building to which it belongs. All these instances together tend to give the design that nervousness which is pure Soane. He seems to have wanted to get rid of anything that gave a feeling of inertia—to drain dead-weight out of his architecture and leave only an essence. Quasi-detachment was one device. The *groove* was another, very closely related to it, since grooves have the effect of seeming to separate two masonry surfaces. Look at the sarcophagi standing over the arches of the mausoleum. A very thin groove runs round the top and base of each, so that the idea of inertia in the block of stone is killed; instead of mere weight there is tension. (This use of grooves has a very curious characteristic. It is the exact reverse of a volume of empty space, tightly bound with cords; it has somewhat the effect of a conjuring trick.) In the piers of the lantern, grooves appear again; their employment here is not quite so subtle, but they do "stretch" the masonry in an odd way so that it hangs rather than sits over the sub-structure.

Now, as to the interior. From the centre gallery a narrow round-headed arch leads to the mausoleum. But not directly. First there is a little cross-vaulted lobby. This opens into a circular vestibule with a sunk floor and a saucer dome, supported on a peristyle of Greek Doric columns. Then comes one of the most surprising things in the design. The peristyle and its dome are abruptly sliced off and a thin arched opening admits us to the mausoleum proper. This unorthodox junction is most dexterously managed, though apart from its cleverness it has no intrinsic merit. It is a device resting for its justification on the highly dramatic effect produced by the sudden transition from the dim circular vestibule to the square mausoleum, brilliantly lit from the lantern above. The effect of this, as one entered the vestibule was most strange and effective, though it is not until one studies the design in detail that

Below, the front elevation of the right hand wing before bombing.

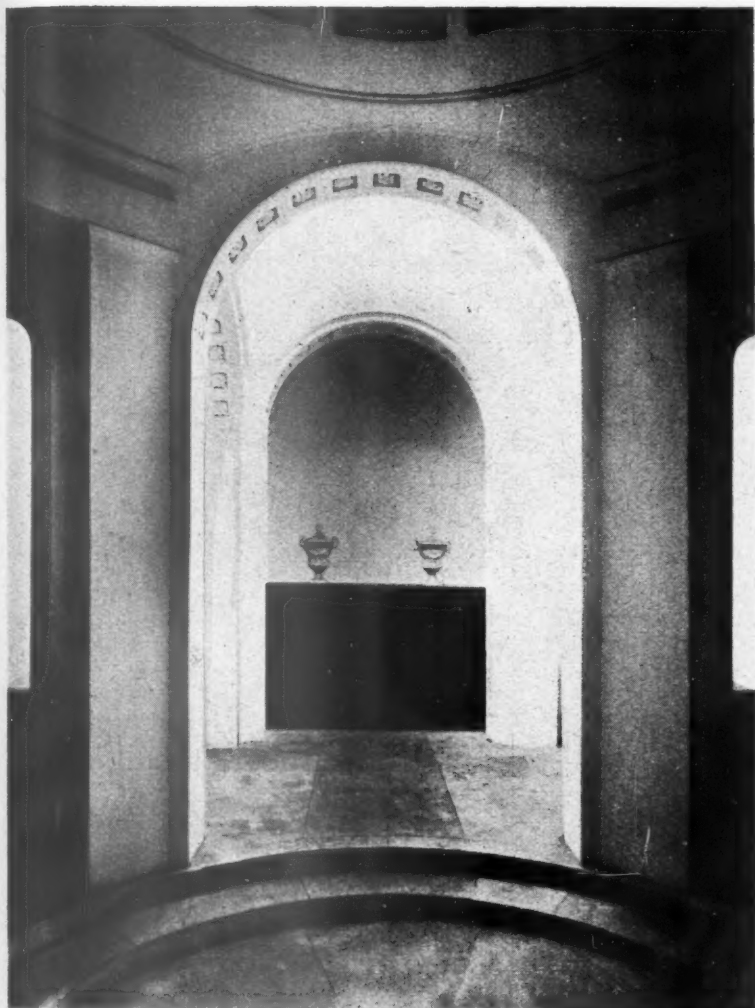






THE DULWICH ART GALLERY





On facing page, side view of the exterior of the central mausoleum projection before bombing. Below, two views of the mausoleum exterior after the flying bomb fell. Above, the interior of the mausoleum projection. Above right, the interior of one of the galleries.—(Note: All the photographs are by the National Buildings Record.)



Soane's quite incredible ingenuity becomes apparent. The whole thing is more nearly Byzantine than Greek or Roman. With a peculiar light from the yellow glass in the lantern flooding into the mausoleum and reflected into the vestibule, the scene was as provocative and ethereal as some of the early stanzas of *Christabel* or one of Fuseli's transcendental canvases.

The mausoleum itself has four thin arches with shallow "transepts" to receive the sarcophagi. A thin arch with a wall-surface recessed behind it and apparently quite independent of it was a device Soane greatly favoured: it is yet another gesture of "quasi-detachment"—the apparent independence of the wall giving the wiry arrises of the arch precise and intense value.

Altogether, the Dulwich Gallery was an extraordinary building—one of those rare buildings where sheer originality of mind pervades everything. Soane had, perhaps, the widest knowledge of architecture of any man of his time, but in his later buildings you look in vain for "precedents" and "deviations." This formal, courtly professor, this builder's son who had made good, who conformed so correctly in the social scene, had the imagination of a Coleridge or a Blake. He may well be the most original figure in the whole of English architecture—and he had no parallel on the continent. His buildings have been destroyed wholesale—by fire, by blitz, and by architect. We cannot afford to lose any more and the decision to rebuild Dulwich will be endorsed by anyone who has the slightest respect for architecture as a fine art.

AN OBITUARY BY JOHN SUMMERSON



*Above, the shop window where the shop itself forms a background to the window display. The vertical steel rods act as a protection to the goods in the window and also lead the customer round to the counter. Below, the trademark which forms the basis of the whole re-design scheme.*

# SWEET SHOP

## IN NEW YORK CITY



DESIGNED BY CHARLES C. S. DEAN

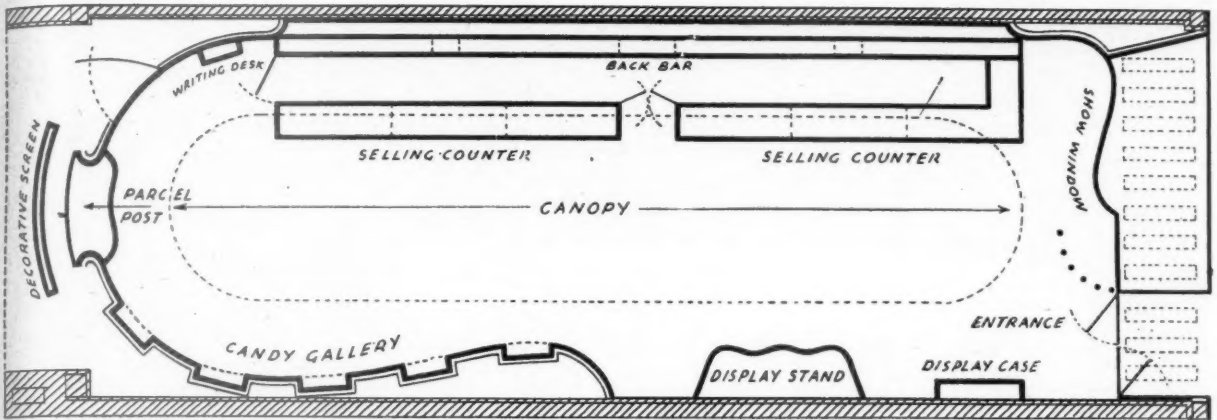
The Loft Candy Corporation, which owns a chain of 175 shops in the USA, has taken an initial step in a big redesign programme of its shops and products in opening its model store at 11, East 42nd Street, illustrated here.

The industrial designer, Charles Dean, has been commissioned to carry out the design programme. Its main interest lies in the use of

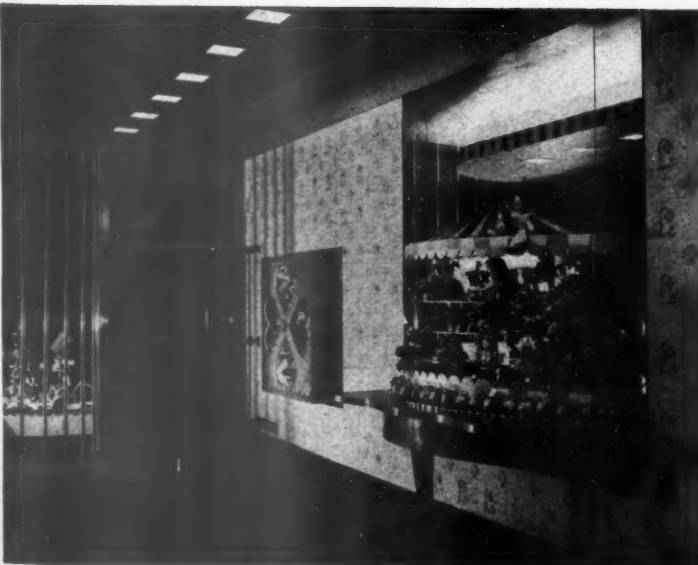
a few basic symbols and elements which are carried with variations through the whole programme from letter headings and packages to display cabinets and shop fronts. The entire project is based on a simple trademark of leaf and candy bar motifs and lettering in a 3-colour scheme of gold, sky-blue and coral-rose. These motifs and colours are picked up in different

variations and combinations throughout the whole programme to create design unity.

An interesting point in the design is the use of horizontal lines to entice the passer-by sub-consciously into the shop, such as the  $\frac{1}{4}$ -in. metal strips embedded in the dark grey terrazzo floor; the sand-blasted mirror in the vestibule with its pattern of Ls taken from



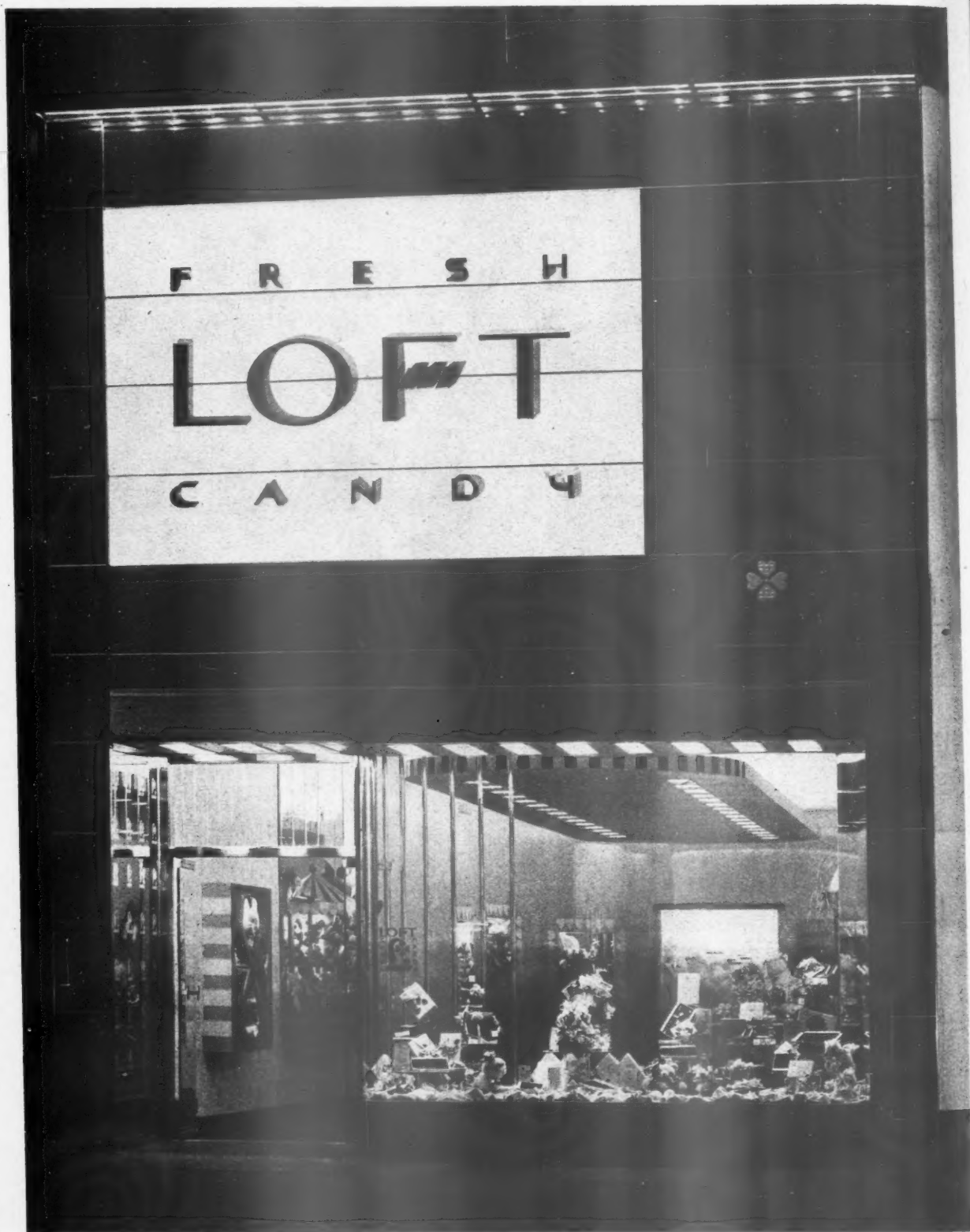
Above, the floor plan of the shop. Top left, the interior looking towards the rear; spaciousness is increased by avoiding island display cases; at the back is a parcel post counter with a decorative map as background. Bottom left, the interior looking towards the entrance; the merry-go-round display has a background gold mirror. The general colour scheme of the whole shop is gold, sky-blue, coral rose and biege-grey. The floor is of dark grey torrazzo with metal strips.



the trademark (a motif which is repeated inside) which gives the passer-by the illusion of being inside the store while still outside; the oblong panels of light recessed in the top of the show window; the long canopy running down the length of the ceiling inside.

Lighting is by fluorescent and incandescent lamps used separately and together, and is both direct and indirect. All wall cases are indirectly lighted.

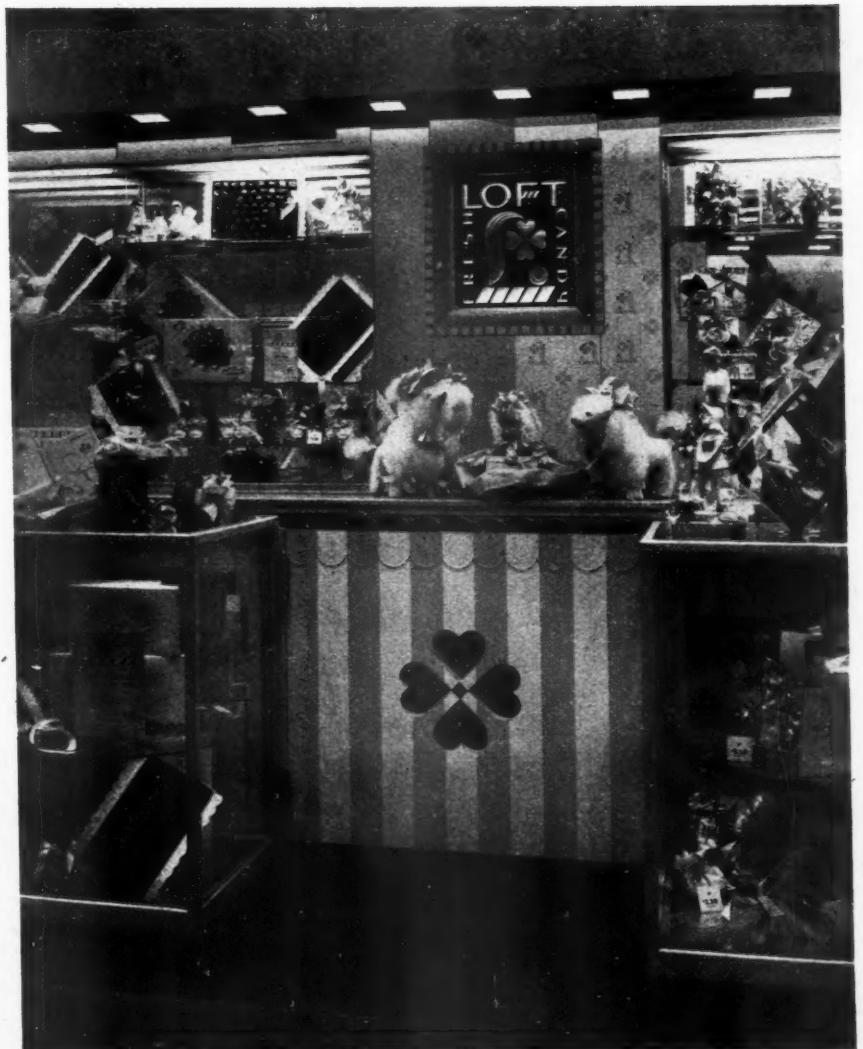
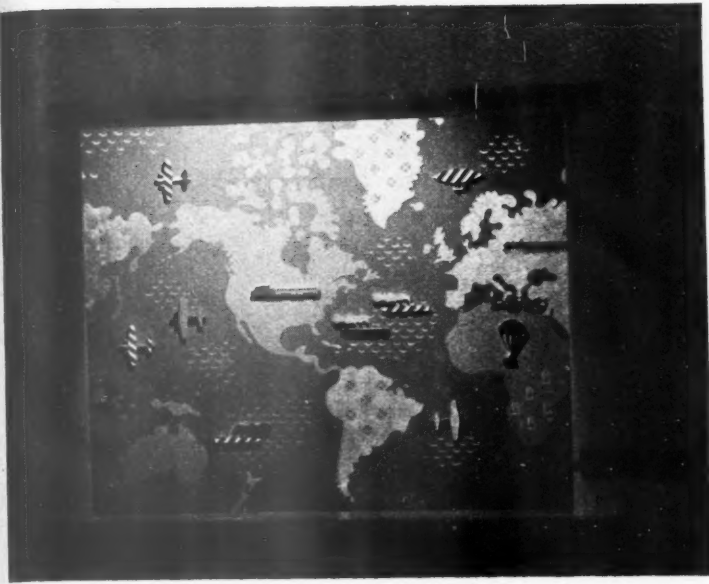
Other shops will be progressively re-designed to conform with this original model, and each shop will be supplied with a standard set of window fixtures consisting of variously shaped plates of glass and tubular steel units which can be used in a variety of ways. The head office staff will develop new ensembles, photograph them and relay pictures to the different shops for execution, making display directions simple to follow.



*The shop front, which is constructed of stainless steel and Rembrandt-blue structural glass. The name panel is of satin-finish white-etched glass. The letters are of stainless steel faced with blue enamel. The blue and white awning is housed inside a stainless steel bulkhead. The window display is so arranged that it is as interesting inside as outside.*



SWEET SHOP  
IN NEW YORK  
DESIGNED BY  
CHARLES C. S. DEAN



Above, the parcel post counter at the back of the shop forms a focal point to the interior; the map is in gold leaf on a coral-rose background with three-dimensional transport symbols in relief; lighting is indirect by incandescent lamps; the surrounding wall is beige-grey; the counter is of natural wood. Right, the gate to the selling counters; an illuminated trade mark hangs in a central position at the back between the two wall cases.

# INFORMATION CENTRE

The function of this feature is to supply an index and a digest of all current developments in planning and building technique throughout the world as recorded in technical publications, and statements of every kind whether official, private or commercial. Items are written by specialists of the highest authority who are not on the permanent staff of the Journal and views expressed are disinterested and objective. The Editors welcome information on all developments from any source, including manufacturers and contractors.

## PHYSICAL PLANNING

2272 TCPA Policy

**DESIRABLE AND PRACTICAL PLANNING POLICY.** *Town and Country Planning Association.* (Architects' Journal, September 6, 1945, pp. 179-180.) Memorandum sent to Heads of Ministries concerned and MPs on close relationship between good planning policy and emergency and permanent housing programme.

In eleven paragraphs the memorandum deals with the accepted planning policy; the steps already taken on the right lines; the steps taken on wrong or doubtful lines; the need of more decided action; the new towns and town extensions; the location of industry; definite planning standards; agencies of promotion and building; land; compensation and betterment; the reasons for urgency; and the cutting out of delay to housing.

The summary of recommendations is concerned with the need for a dispersal planning policy undertaken as a concerted operation by the various departments involved; the public acquisition of sites for new towns and extensions of country towns as dispersal centres; the provision of trading estates in satellite towns; the priority for housing and factory building in new communities; the redevelopment of blitzed and blighted areas at proper standards of density and open space; the location of industry in congested cities and dispersal communities; the setting up of a National Compensation Fund to make grants to local authorities for compensation to landowners in (a) decongested areas for reduced values, and (b) for reservation of country belts; the introduction of a betterment charge where values are increased by population shifts.

2273 RIBA Housing Report

**HOUSING REPORT.** *RIBA Housing Committee.* (Architects' Journal, April 5, 1945, pp. 268-270.) Summary of evidence received and findings of Committee appointed January 31, 1945, "to examine the question of housing production in detail."

Evidence was received regarding materials, labour, organization, and economics. On the basis of this evidence the specific findings of the Committee are dealt with in six main sections.

1. Proper organization and adequate release of labour should make it possible "to meet the requirements of a building programme of approximately 200,000 completed houses in two years after the European war."

2. In connection with the Government Training Scheme and the building up of an efficient labour force, it is important to differentiate between precision workers, i.e., fully trained labour able to deal with larger

and more complex buildings, and labour capable of simple tasks such as the building of small houses under adequate supervision.

3. The Government's decision mainly to abandon the temporary housing programme and to concentrate on the building of permanent houses is welcomed.

4. Prefabrication is regarded as a long-term policy to supplement and "possibly, in the course of time, take the place of well-tried methods of building."

5. In the interest of an early and economical solution to the housing problem it is essential to employ both municipal and private enterprise.

6. Planning and the speedy production of houses should proceed side by side in view of the fact that sufficient land is already cleared under town planning procedure throughout the country for at least 250,000 houses. The importance of a reasonably high standard of design is stressed.

2274 Planning in West Africa

**PLANNING IN WEST AFRICA.** *Lecture by Maxwell Fry, at RIBA, March 26, 1945.* (Architects' Journal, April 26, 1945, pp. 323-324.) Account of planning activities in the four British Colonies, West Africa, by Town Planning Adviser to British West African Government.

Formulation of housing and town planning programmes for towns with problems of urgent priority, adequate water supply, efficient sanitation, development of port facilities, protection of coast-line, road systems, are some of the subjects covered. The lecturer also described the setting-up of a Building Research Station for experiments with local materials for the whole of the West Coast, and the work on a town planning ordinance for the region to enable legislation to be passed. There was an enthusiastic response to an exhibition of town plans, showing the enormous demand for planning and the intelligent interest taken in it. Planning work is now being undertaken by architects with town planning experience and not by civil or sanitary engineers as originally intended.

2275 Noise and Planning

**THE NOISE PROBLEM IN RELATION TO TOWN AND COUNTRY PLANNING.** *Hope Bagenal.* (Architects' Journal, May 3, 1945, p. 342.) Report of lecture at TCPA Planning Centre. Noise described as one of unnecessary drawbacks of unorganised physical environment. Classification of sources of noise and suggestions for noise abatement through planning.

Spacing or distance apart is the root of the matter as regards noise reduction. Housing estates near arterial roads with heavy day and night traffic should be located at a distance of 300-400 feet away. A greater distance should be enforced for railways.

The siting of blocks of flats in urban dis-

tricts should be based on two considerations: (1) High buildings opposite each other cause increase of loudness by reflection. Therefore a layout of alternating blocks so that each block faces an open space will reduce noise nuisance; (2) the quiet side of a site away from traffic noises should be utilized for bedrooms mainly.

In cases where a large building site between noisy roads is to be developed as a whole the building heights of the block should be staggered. Quiet rooms should be located in high portions of the building near the centre of the site, whereas rooms requiring less noise reduction might be grouped in lower portions along the street fronts.

Noisy industries should be considered as just as noxious as smoke- and smell-producing industries and confined to Special Industrial Zones.

The noise from school playgrounds, especially on confined sites, can be markedly decreased by using trees as noise barriers.

In connection with the question of noise in the home itself an occasional classification of residential buildings would be desirable, so as to ensure quiet conditions where they are essential. Written agreements between tenants should be encouraged. In ordinary suburban housing, garages or baffle walls might be used as screens. Houses could also have recessed alternate fronts or be placed at opposite ends of the strip sites if that can be arranged.

As regards the siting of new civil airports the strict exercise of zoning powers should eliminate their location near housing.

## MATERIALS

2276 Timber

**TIMBER.** AN OUTLINE OF THE STRUCTURE, PROPERTIES AND UTILIZATION OF TIMBER. *B. Alwin Jay.* (Issued by Timber Development Association.) Re-issue in the red booklet series of a booklet published in connection with special timber exhibition held in Science Museum in 1937-38.

In 35 pages, packed full of information, the booklet manages to give an excellent description of the structure, properties and manufacture of wood, its diseases and preservation. Bibliography and index will add to its usefulness as an introduction to the study of timber technology.

2277 Limestone Concrete

**LIMESTONE CONCRETE.** *J. Singleton-Green.* (Chapman & Hall, 1945, 8s. 6d.) Properties of limestone aggregates and of concrete made of such aggregates and limestone "dust." Advantages of limestone concrete for particular purposes.

In the past, one or two regulations have prohibited the use of limestone as a concrete aggregate. Its application is now permitted both in this country and in USA, but there is still much prejudice against it. The purpose of this book is to prove that limestone concrete is not only equivalent to concrete made of other aggregate but offers special advantages in certain cases, provided that structurally sound material of approved quality is used. A large amount of experimental work is referred to to confirm the claims made in favour of limestone concrete. The compressive strengths required in the British Code of Practice can substantially be exceeded and the modulus of rupture of limestone concrete is higher than that of concrete made of granite, crushed or uncrushed shingle. Limestone concrete is eminently suitable for the construction of watertight structures and is superior to

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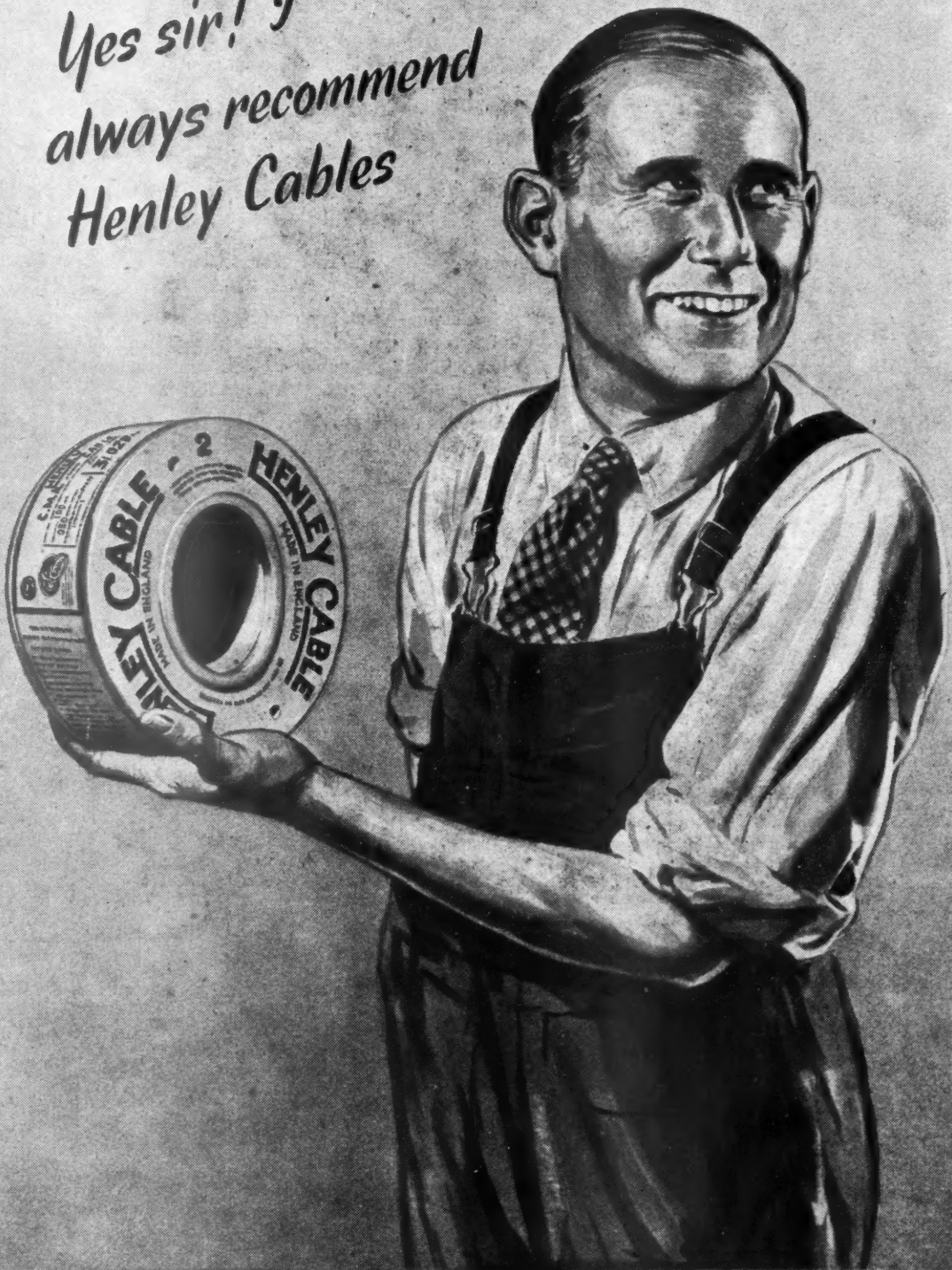
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# QUANTITY-PRODUCTION AND THE HOUSING PROBLEM



*Entrance to the new plant at Middlesbrough.*



*In the joinery shop: after inspection, completed floor panels are impregnated with wood preservatives.*



*Completed floor panel: operator trims cut-out section for fire grate.*



*An inspection bay: roof trusses and wall panels awaiting final check.*

The housing needs of this country must be met adequately and quickly. Quantity-production methods, which have proved their worth over the last two decades, must be used to supplement the efforts of the skilled craftsmen in the traditional building industry.

Kingston Building Industries, Ltd. has planned the production of permanent homes which by applying the principles of quantity-production to the best developments in construction secure the fullest amenities in the home, at the lowest possible cost.

The method of construction brings most of the work into the factory so that the fullest use can be made of semi-skilled labour. This will in turn relieve the pressure on skilled site labour and will help further to reduce costs.

The Company has planned a nation-wide organisation dividing the country into regions, each served by its factory and storage depots. The four existing factories form but the beginning of a system of factories located to serve all parts of the country. They are already in production for the Government's temporary housing scheme, and will be available in due course for the manufacture of Kingston permanent homes.

Local Authorities desiring further information should write to:

## KINGSTON BUILDING INDUSTRIES, LTD.

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Head Office: 32, Duke Street, St. James's S.W.1. Telephone: Whitehall 0321.



A new type of Aureole Window of thick pieces of stained glass set in reinforced concrete. See No. 2278.

concrete made of other natural aggregates in its fire-resisting properties. Experience on existing structures has proved its durability. Limestone aggregate lends itself for surface exposure both with unbroken and broken aggregate. The latter term covers all cases where portions of the aggregate are removed by tooling, grinding or polishing. Applications in flags, sewers and roads are also discussed.

The book contains 11 good illustrations and is very stimulating. The price of 8s. 6d. seems, however, rather high in view of its small size (80 pages).

2278

#### Stained Glass Window

**STAINED GLASS WINDOW IN REINFORCED CONCRETE.** (Information from the London Sand Blast Decorative Glass Works, Seager Place, Burdett Road, E.3.) Experimental Aureole window made of 1 in. to 2½ in. thick coloured glass pieces set in reinforced concrete.

This window has been developed by Mr.

J. C. Corsan of London Sand Blast and Mr. N. Villeneuve during the war to relieve the monotony of munition work and was made possible by the use of the higher temperatures applied in the factory during the war.

The idea of making designs in walls with pieces of glass is not new and was applied in Paris before the war, but this window has a number of new features of interest. The window consists of 1-in. to 2½-in. thick pieces of coloured glass with flanged edges which are specially cast to the required shapes and sculpture (see illustration). The glass pieces are set in concrete reinforced with ½-in. steel rods welded to each other and to the main reinforcement or framework.

The colours of the glass are dense but brilliant in tone owing partly to the thickness of the glass and partly to the thickness of the concrete framing which forms a dark contrast to the glass. A more live and iridescent effect than is found in ordinary stained glass is said to be obtained by the thickness of the glazing and the heavy lines of the concrete are said to impart a strength and virility to the design which is absent in the usual stained glass window owing to the thin and obstinate nature of its leading.

The idea could be applied to an entire wall surface and designs could be let into roofs or domes. The window should not be used on too small a scale and is most effective at a height size of about 20 ft. It is admirably suitable, say the inventors, to modern or pre-Reformation churches.

## ACOUSTICS and Sound Insulation

2279

#### Audio-Visual Education

**PLANNING FOR AUDIO-VISUAL EDUCATION.** A. L. Terlouw. (*Architectural Record*, September, 1945, p. 76.) Picture projection of all kinds in classrooms. Loudspeaker systems.

The author discusses briefly the various mechanical teaching aids available, and then concentrates on film projection. His remarks about this are largely based on recommendations of a Committee of the Society of Motion Picture Engineers on Non-Theatrical Equipment. Seating and screen should be related as follows:—

1. Persons with average eyesight cannot see details of motion pictures at a distance greater than about six times the picture width.

2. Minimum viewing distance is twice the picture width.

3. Viewing angle limited to 30° either side of the screen centre.

The above apply to matte screens. Beaded screens must be viewed from a greater minimum distance and narrower viewing angle.

Rules are given relating projector light output to picture width for the two different screens. Room brightness should be reduced to about 1/10 f.c., and stray light should be kept away from the screen as much as possible.

An inexpensive matte screen is described consisting of a smooth wall-board on a frame, painted with white distemper. It is obviously easily renewed.

Reference is made to the importance of proper sound absorbents in classrooms used for talkie equipment, and details are given of suitable types of sound-reproduction apparatus and room wiring. It is pointed out that permanent loudspeaker installations are cheaper than portable ones.

Emphasis is laid finally on the need for flexible seating to meet the screen requirements, and some examples are worked out.

One is left with the impression that the development of this kind of gear in America has outstripped the supplies of film and other teaching material, and also that no effective organisation of these teaching aids has taken place. There are too many different ways of doing almost the same thing.

2280

#### Industrial Noise

**THE PROBLEM OF INDUSTRIAL NOISE.** P. E. Sabine. (*American Journal of Public Health*, March, 1944, p. 265.) Data on effects of noise on people.

This is a general note devoted mainly to a summary of evidence that noise is an occupational trouble of importance. Cases and statistics are instanced both from what are recognised as noisy occupations and from ordinary light engineering; and we are reminded of the greater susceptibility of women, which may be a major factor in the demand for quietness in the new factories in this country.

The author remarks on the slight progress made in America in dealing with structural sound insulation in the home. Apparently they have slipped behind in this field.

## QUESTIONS and Answers

**THE** Information Centre answers any question about architecture, building, or the professions and trades within the building industry. It does so free of charge, and its help is available to any member of the industry. Answers are sent direct to enquirers as soon as they have been prepared. The service is confidential, and in no case is the identity of an enquirer disclosed to a third party. Questions should be sent to: THE ARCHITECTS' JOURNAL, 45, The Avenue, Cheam, Surrey.

2281

#### Confectionery Factory Floor

**Q** What is the best and most suitable floor finish for a Confectionery Factory, where lactic acid and spillings from the machines, comprising white and brown sugar in a saturated state, come in contact with the floor? The factors required are:

- (1) A very good wearing surface.
- (2) An appearance of cleanliness.
- (3) Reasonable comfort for the workers standing or walking about.

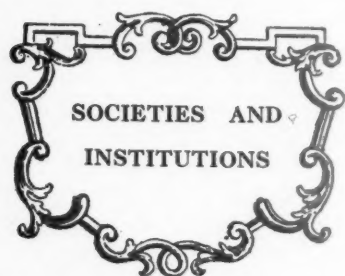
A concrete sub-floor is proposed.

**A** The problem is of some difficulty owing to the probability that the sugar solutions may be hot.

Clay floor tiles are resistant to lactic acid, but there is also the difficulty of preventing it from penetrating to the mortar below, and on upper floors it will be necessary to use an insulating layer of asphalt or bitumen sheeting to protect the structural floor. It will also be preferable to bed the tiles in an aluminous or Portland blast furnace cement and to use an integral waterproofer to decrease porosity. The joints between the tiles should be fairly wide so that they are easy to fill.

It should also be remembered that the edges of the tiles may be chipped by wheeled traffic, and it may be preferable to use an asphalt floor reinforced with metal grids to take the wear. A special acid resisting asphalt is used which will not soften with boiling water. This type of floor is a speciality of the Linmer & Trinidad Asphalt Co., of 19, Grosvenor Place, S.W.1, or you may prefer to obtain your information from the Natural Asphalt Mine Owners and Manufacturers Council, 64 Petty France, S.W.1.





*Speeches and lectures delivered before societies, as well as reports of their activities, are dealt with under this title, which includes trade associations, Government departments, Parliament and professional societies. To economize space the bodies concerned are represented by their initials, but a glossary of abbreviations will be found on the front cover. Except where inverted commas are used, the reports are summaries, and not verbatim.*

RSI

## F. C. Vokes

At the Royal Sanitary Institute, 90, Buckingham Palace Road, S.W.1. Bossom Gift Lecture sponsored by the Chadwick Trust on THE MODERN SYSTEM OF SEWAGE DISPOSAL AND THE METHODS AND MATERIALS EMPLOYED by F. C. Vokes, B.Sc., M.INST.C.E., Engineer to the Birmingham Tame and Rea District Drainage Board.

**F. C. Vokes:** The foul sewage from inland towns can usually flow by gravity to a purification works, and thence to a river. At towns at a lower level and nearer the coast the river has often been called upon to receive untreated sewage, partly because the provision of a purification works would entail pumping.

To-day, however, pumping does not necessarily entail the purchase of fuel or power. This fact has radically improved the position. Power for pumping and for treating the sewage can now often be obtained from the sewage itself.

No longer is it essential to have available a very considerable difference in level between the sewer and the river, for the sewage can, if desired, be given complete treatment in tanks without the employment of bacteria beds.

No longer need the water-courses be polluted by trade waste from manufacturing premises, for the manufacturer has the right to pass it, under suitable safeguards, into the sewer.

Small sewage purification works can, of course, be seriously embarrassed by being expected to treat too large a proportion of trade waste in relation to domestic sewage. The treatment of sewage at one or more large works, instead of at a number of small works, often results, not only in making practicable the effective treatment of difficult trade wastes, but also in securing better treatment of the sewage, in reducing the cost of attendance, and in

making feasible the generation of power with the aid of the gas obtained from the sewage sludge.

The first sewers were designed on the assumption that the water would fail to carry with it all the solid matter, and that a deposit would require to be removed periodically by manual labour. The sewers were therefore made large enough for men to travel through. Modern sewers are not designed on that assumption. By taking into account the variation in the rate of flow and the fall available, by the use of the most suitable materials, and by the greatest care in the construction of sewers, the water flowing through them is caused to carry with it the whole of the solid material.

The familiar sight of the partly empty sedimentation tank with a gang of men in the bottom wearing thigh boots and pushing the sludge towards the pump has given place to the tank from which the sludge is removed under water with the aid of a power-driven scraper.

The efforts of many distinguished engineers, chemists and manufacturers, as well as the skill of countless craftsmen have gradually succeeded in evolving the modern sewage purification works, completely mechanised, independent of any outside source of power supply, and operating with the very minimum offence due to unsightliness or smell.

## TCPA

### Mrs. G. Harrison

At the Planning Centre, 28, King Street, W.C.2. Talk to the Town and Country Planning Association on HEATING THE FAMILY HOME by Mrs. Gillian Harrison, F.R.I.B.A.

**G. Harrison:** After many vicissitudes it seems that the accepted floor area is now to be approximately 1,000 sq. ft. But it is no good providing an adequate living area if the space cannot be heated. Unheated rooms in winter are never used. This question of the provision of adequate heat, cooking and hot water is of vital importance and it is necessary to consider it from two angles: (1) The proper use of fuel as a National commodity, and (2) The cost in running expense to the tenant.

(1) The average consumption of fuel (exclusive of gas and electricity) per house, is 4 tons per annum, which is an average of 1 lb. per hour. By comparison with Canada and the USA we get far less comfort for 1 lb. of fuel than they do and as the heat provided by this fuel consumption is inadequate, we are wasting fuel.

(2) If we consider that a reasonable expenditure by the lower income group tenant is 5s. 6d. to 7s. 0d. a week on all forms of heat, light and hot water, it is of the greatest importance to see that the new houses are equipped in such a way that this weekly expenditure will give him the maximum degree of comfort. It is of no service to him to provide equipment that the tenant cannot use. If we cannot meet this requirement we are not answering the problem of housing the people of this country. I have seen experimental houses recently, so equipped that no working man could afford the expenditure entailed.

Great advances have been made since the war started in new domestic heating equipment, particularly with the appliances that burn solid fuel. Solid fuel has much in its favour. It is cheap, it gives continuous heat and it can do several things at once from one heat source. Some of the new appliances combine solid fuel on the basic heat source with gas- or electric supple-

mentaries, which is a great advance in economy and efficiency. It must, however, be borne in mind that this new equipment must be considered in relation to the plan and it is desirable that the type of equipment to be used should be decided in relation to the type of plan required, before the actual plan of the house is settled.

There are three obvious methods of living in family homes and the plans can be divided roughly under these headings:—

- 1.—The living-room kitchen and parlour type.
- 2.—The working kitchen with dining recess and living room.
- 3.—The working kitchen with separate dining space and living room.

All are agreed that the family house must have at least two living rooms or areas. But unless both these are warm only one will be used—the one where the fire is burning.

If we take these house plans as typical it is then necessary to decide which type of equipment is best suited to these living conditions. These new solid fuel burning appliances do answer in most cases the problem of the tenant's expenditure in relation to efficiency. They also provide in some cases the *open fire* so much appreciated in this country. No Briton will willingly give up his open fire and if he will have one in any case, this fire should be made to do as much as possible with as little heat loss as possible.

In most cases the fire is continuously burning. This is important. Our problem in this country is more one of damp rather than intense cold and a dry house is a warm house.

In addition to providing the continuously burning open fire these new appliances do the following things:

- (a) They conserve fuel.
- (b) They use the fuel consumed to the best advantage.
- (c) They reduce smoke.
- (d) They provide background heat to other rooms.
- (e) Dirty oven flue cleaning is eliminated and they look nice and are finished in vitreous enamel in varying colours, and are easy to keep clean.

The All-purpose Service Unit, produced as a result of research at the British Coal Utilisation Research Association is a completely prefabricated house unit with an overall size of 5 ft. 3 in. by 1 ft. 6 in. by 16 ft. The metal framework covered with insulated cladding contains:

- (a) A back to back insulated cooker and open fire. The fire has an insulated sliding door which can be lowered when the heat is not required in the adjoining room. The cooker has a large solid hot plate with heat conserving pads, a high level oven 15 in. by 15 in. by 15 in. and no oven flue cleaning. A hot water boiler of 3,000 rating.

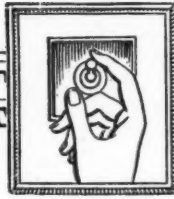
(b) A hot air exchanger for providing warm air to other rooms.

- (c) A hot water storage tank.
- (d) A cold water storage tank.
- (e) All plumbing, including the soil pipe.
- (f) All electric mains and meters.
- (g) A prefabricated 8-in. cast iron flue pipe.

The fire is omnivorous and the consumption is 2 cwt. a week.

The Government has expressed itself in favour of improved amenities for housing, particularly in rural areas, and regards water as an essential. This being so it would be reasonable to urge that efficient heating appliances should be installed at the same time to provide adequate hot water and an all-round efficiency maintained whilst saving the nation's fuel. This can be done if the results of research are made known and the production accelerated in time to equip houses now being planned.





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For information and advice about the many new uses and greatly increased adaptability of Electricity consult your Electricity Supply Undertaking or the British Electrical Development Association, 2, Savoy Hill, London, W.C.2.

*The Electrical Section at the Building Centre, Maddox Street, London, W.1, provides interesting illustrations of electrical applications in domestic and industrial premises.*



## RIBA

## Minutes

The following are notes from the recent minutes of the Council of the RIBA.

*Information on Building Technique in Germany.*—A report was received from Mr. A. F. Hare (A) on the mission which he accompanied to Germany to investigate housing standards, construction and methods of prefabrication.

*War Damage Repairs by Local Authorities.*—The Executive Committee reported that it had taken up with the War Damage Commission and the Ministry of Works the question of war damage repairs being undertaken by local authorities while architects in private practice were unable to obtain licences on behalf of their clients.

*Architectural Science Board: Scheme for Field Research.* The Department of Scientific and Industrial Research has agreed to adopt the suggestion put forward by the Architectural Science Board for the formation of a panel of honorary part-time "observers" who will collaborate with the Director of Building Research and his staff in the collection and dissemination of scientific information.

*Exhibition of Town Planning for Sweden.* The Town Planning Committee has been asked to deal with the preparation of an exhibition of British Town Planning to be sent to Sweden and other Scandinavian countries. The arrangements will be made in conjunction with the British Council.

*Fees for Mass-Produced Houses.* On the recommendation of the Practice Committee the Council approved the appointment of a Special Committee to consider and report

on the question of fees in connection with mass-produced houses.

*The National Plan:* The Council has approved the publication of the work so far done on the National Plan and a Sub-Committee of the Town and Country Planning Committee is dealing with the matter. The Council decided not to proceed further with work on the National Plan.

*Revision of the RIBA Scale of Professional Charges:* The Council approved the revision of Clause 7 of the RIBA Scale of Charges to provide for a minimum fee of seven guineas a day.

*Report of the Architectural Science Board:* The British Standards Institution has been asked to prepare a B.S.S. covering nomenclature and definitions and has also been asked to instruct its Committees to prepare a synopsis of each specification as soon as the specification itself is ready.

## Announcements

We are informed by Mrs. E. V. Penn, general secretary of the Association of Building Technicians, that the *Building Technicians Pocket Diary* for 1946 is now completely sold out.

Producers have been notified by the Timber Control that no further quantities of home-grown hardwood will be purchased for National Stock. Notice of termination of individual agreements has been given and no timber converted after December 31, 1945, will be accepted or inspected for National Stock. Producers are asked as soon as possible to advise Branch 6, Clifton Down Hotel, Bristol, 8, and also their Area Officer, what quantities of hardwood sawn in accordance with the National Stock specification they will have available for inspection as at January 1, 1946.

It is the custom of EASCO ELECTRICAL at Christmas time to distribute calendars to its trade friends and clients, the last issue being in the form of a Continuous Progress Calendar—an innovation of particular interest to Progress and Planning Men, Buyers and others concerned with forward dates. The immediate demand for these calendars far exceeded the possible supply position, so that many applicants were disappointed. In view of the innumerable requests received for a continuance of the calendar, the firm has decided to issue a further copy for 1946, the price of which will be 6d. each, including postage, to cover part cost and in accordance with the paper regulations. Applications are invited immediately to EASCO ELECTRICAL, 6 and 8, Brighton Terrace, London, S.W.9, enclosing remittance to the value so that the necessary reservations can be made for despatch approximately early January.

Pending the establishment of permanent West End offices, the London office of Ascot Gas Water Heaters, Ltd., will temporarily be located at 8, South Street, Park Lane, W.1 (Telephone: GROsvenor 2771). The Company announces that Mr. G. N. Behr, after six years' service with the Royal Navy, has returned to take up his old appointment as London Manager.

Mr. H. J. Spiwak, Dipl. Eng., Architect, 20, Buckingham Street, Strand, W.C.2, would be glad to receive trade catalogues, especially relating to housing and factory design.

The British Aluminium Co., Ltd., Temporary Head Office, Salisbury House, London Wall, London, E.C.2, announce that their telegraphic address has been changed to BRITALUMIN AVE LONDON. Address for cables will be BRITALUMIN.

Mr. Frank Scarlett, B.A., F.R.I.B.A., chartered architect, has been released from the services and is now practising at 11, Upper Grosvenor Street, London, W.1.

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Mr. Derek L. Bridgwater, B.Arch., F.R.I.B.A., is architectural consultant to the Department.

*Enquiries should be addressed to*

**The Building Uses Department, British Cast Iron Research Association,  
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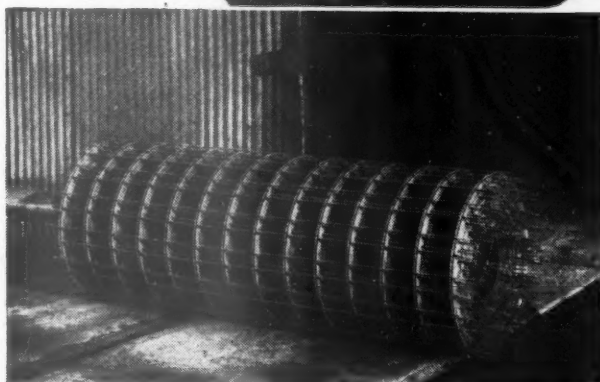
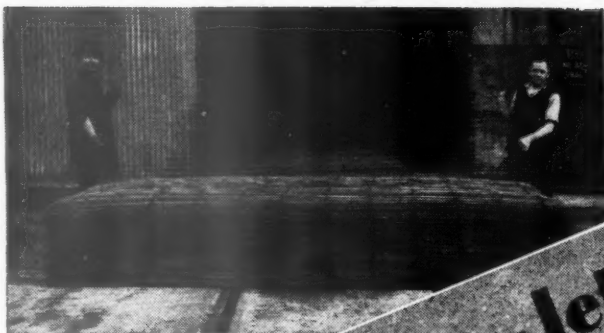
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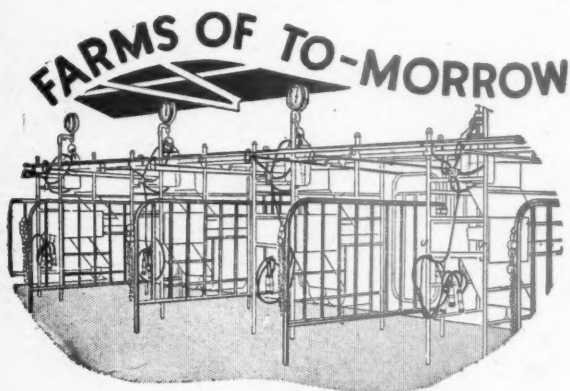
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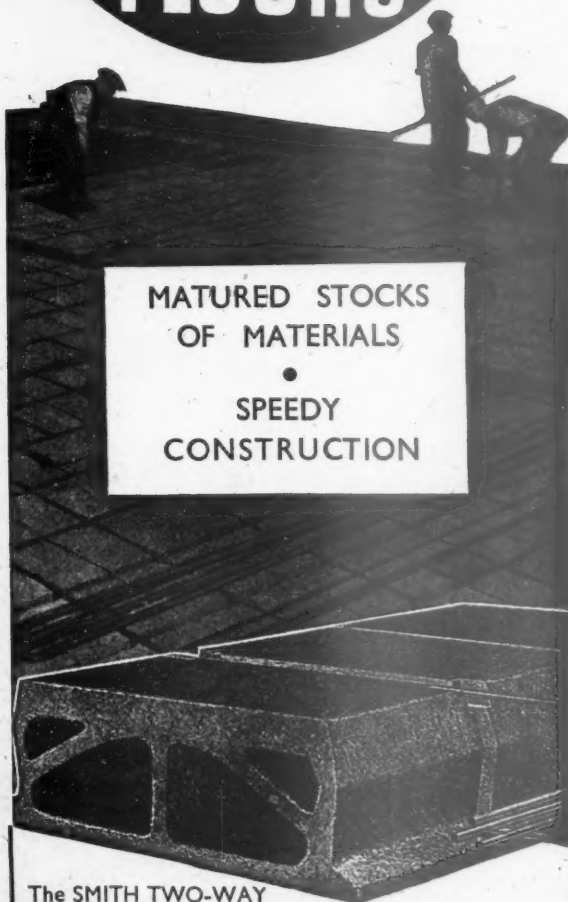


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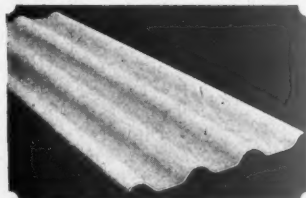
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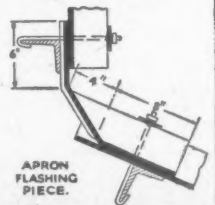
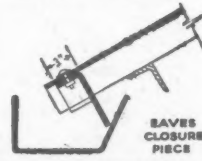
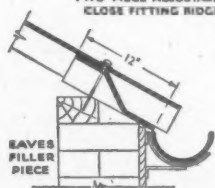
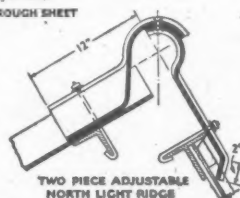
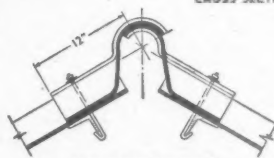
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9' 6"	4.222	149.98	2	7' 9"	15	56' 6"	
9' 0"	4.000	142.08	3	11' 6"	16	60' 3"	
8' 6"	3.778	134.19	4	15' 3"	17	64' 0"	
8' 0"	3.556	126.30	5	19' 0"	18	67' 9"	
7' 6"	3.333	118.40	6	22' 9"	19	71' 6"	
7' 0"	3.111	110.51	7	26' 6"	20	75' 3"	
6' 6"	2.889	102.62	8	30' 3"	21	79' 0"	
6' 0"	2.667	94.72	9	34' 0"	22	82' 9"	
5' 6"	2.444	86.83	10	37' 9"	23	86' 6"	
5' 0"	2.222	78.94	11	41' 6"	24	90' 3"	
4' 6"	2.000	71.04	12	45' 3"	25	94' 0"	
4' 0"	1.778	63.15	13	49' 0"	26	97' 9"	

FOR COMPLETE TECHNICAL DETAILS AND METHOD OF FIXING WRITE FOR CATALOGUE SECTION 25

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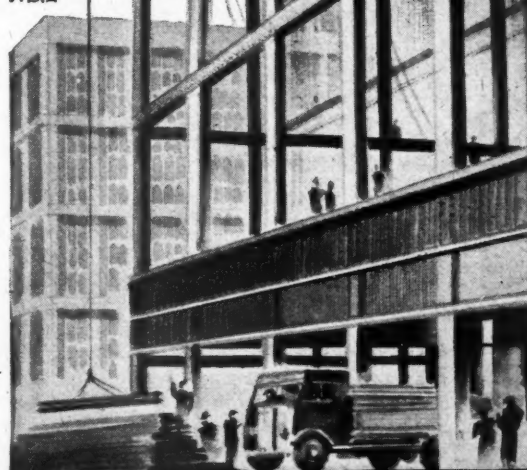
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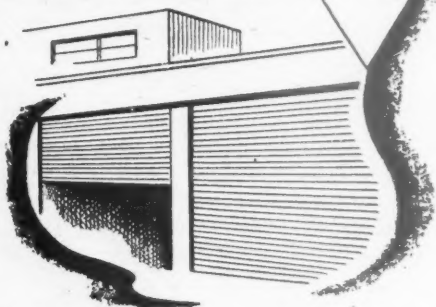


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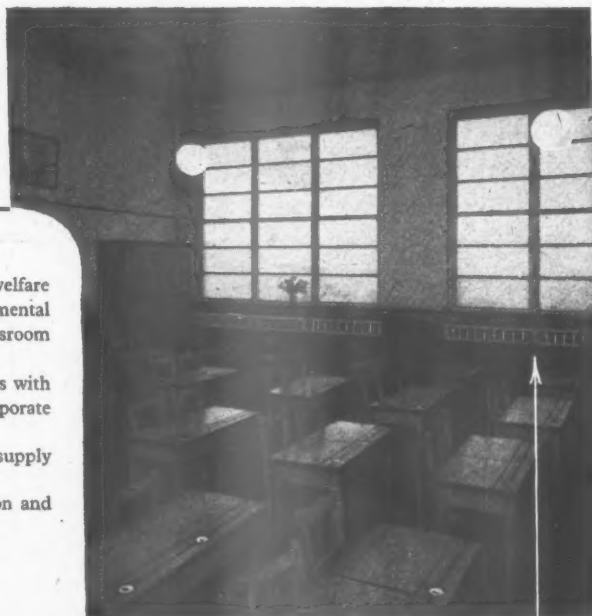
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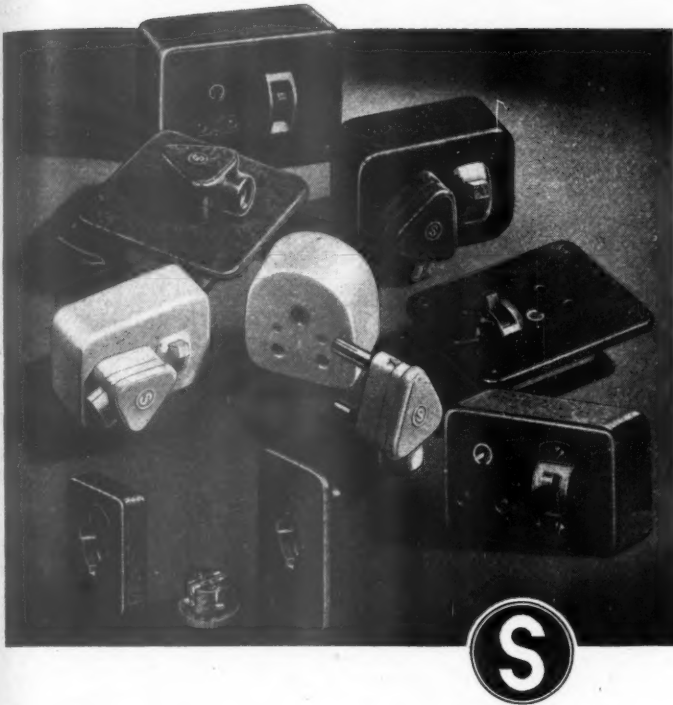
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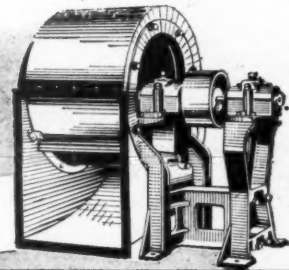
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## CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," War Address: 45 The Avenue, Cheam, Surrey, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

Replies to Box Numbers should be addressed care of "The Architects' Journal," War Address: 45 The Avenue, Cheam, Surrey.

## Public and Official Announcements

Six lines or under, 3s.; each additional line, 1s.

THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. Address: 75, Abchurch Lane, London, E.C. 4. Tel.: SLOANE 5615. 991

### BOROUGH OF LUTON

#### BOROUGH ENGINEER'S DEPARTMENT—APPOINTMENT OF TECHNICAL STAFF.

Applications are invited for the following appointments:—

- (1) CHIEF PLANNING ASSISTANT. Salary £500 per annum, rising by annual increments of £25 to £600.
- (2) TWO PLANNING ASSISTANTS. Salary £310 per annum, rising by annual increments of £15 to £355.
- (3) ESTATES AND MAINTENANCE ASSISTANT. Salary £420 per annum, rising by annual increments of £20 to £480.
- (4) TWO JUNIOR ENGINEERING ASSISTANTS. Salary £240 per annum, rising by annual increments of £15 to £300.
- (5) BUILDING INSPECTOR. Salary £310 per annum, rising by annual increments of £15 to £355.

Appointment No. 1 will be on the Council's permanent staff, and the remaining appointments will be temporary in the first instance, with prospect of transfers to the permanent staff. A temporary cost-of-living bonus of £59 16s. per annum will be paid in respect of each appointment, and all appointments will be subject to the provisions of the Local Government Superannuation Act, 1937.

The persons appointed to the vacancies Nos. 1 and 3 will be required to provide and maintain a car, for the use of which an allowance will be paid on the basis of the Ministry of Home Security Scale, or such other scale as may be adopted by the Council.

Applicants for the post of Chief Planning Assistant must have had extensive experience in the preparation and administration of planning schemes, and be suitably qualified; for appointments Nos. 2, considerable municipal experience and be first-class draughtsmen; appointment No. 3, extensive experience in maintenance of buildings of all descriptions and estate work, including valuations, and be A.R.I.B.A. or P.A.S.I.; appointments No. 4, considerable municipal experience and be first-class draughtsmen; and for appointment No. 5, experience in control of building works and administration of bye-laws.

Applications, stating age, qualifications and experience, together with copies of not more than three recent testimonials, should be delivered, suitably endorsed, to the Borough Engineer, Town Hall, Luton, not later than Monday, 24th December, 1945. Canvassing will be a disqualification.

The Ministry of Labour and National Service have given permission under the Control of Engagement Order, 1945, for the advertisement of the vacancies of Junior Engineering Assistants (E.3049X).

W. H. ROBINSON, Town Clerk.

Town Hall, Luton, 26th November, 1945. 962

### BOROUGH OF CLITHEROE.

#### BOROUGH SURVEYOR'S DEPARTMENT.

##### APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited from Registered Architects for the above appointment, at a salary of £325 per annum, plus war bonus (at present £59 16s.).

The appointment will be subject to one month's notice in writing on either side, and the successful candidate will be required to pass a medical examination for superannuation purposes, and to contribute to the Superannuation Fund.

Applications, stating age, qualifications, previous experience and position in relation to National Service, and accompanied by copies of three recent testimonials, must be delivered to the undersigned in a plain sealed envelope, endorsed "Architectural Assistant," not later than 12 noon on Saturday, 29th December, 1945.

G. HETHERINGTON, Town Clerk.

The Castle, Clitheroe, Lancs. 4th December, 1945. 976

### BOROUGH OF SOUTHGATE.

#### TO BUILDERS AND CONTRACTORS.

##### ERECTION OF NEW HOUSES, BARROWELL GREEN HOUSING SITE, N.21.

The above-mentioned Council invite tenders for the erection of 14 pairs "Duplex" type houses at the Barrowell Green Housing Site, No. 21. Plans can be seen by arrangement with the Borough Engineer and Surveyor, Mr. J. T. W. Peat, F.R.I.B.A., at the Town Hall, Palmers Green, N.13.

Contractors wishing to tender should make written application not later than Monday, 17th December, 1945, to the Borough Engineer and Surveyor, enclosing cheque for £2 2s. as deposit for form of tender and Bills of Quantities. This deposit will be returned on receipt of a bona fide tender and/or the return of all documents. In the case of the accepted tender, deposit will be retained until the Contract and Bond have been entered into with the Council, and in the event of withdrawal, such deposit will be forfeited.

No tender will be accepted unless submitted in a plain sealed envelope, which shall bear no name or mark indicating the sender, and shall be endorsed "Tender for 'Duplex' Houses," and addressed to the Town Clerk, Southgate Town Hall, London, N.13.

The Council do not bind themselves to accept the lowest or any tender, and the acceptance of any tender will be subject to the approval of the Ministry of Health.

GORDON H. TAYLOR, Town Clerk.

Southgate, Town Hall, Palmers Green, N.13. 7th December, 1945. 971

### URBAN DISTRICT COUNCIL OF FELTHAM.

#### APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant on the permanent staff of the Engineer and Surveyor's Department in Grade D of the Council's grading scheme, at a commencing salary at the rate of £440 per annum, rising, subject to satisfactory service, by annual increments of £20 per annum, to a maximum of £500 per annum, plus cost-of-living bonus (at present £59 16s. per annum).

Applicants should be qualified architects, and have had experience in the preparation of plans, specifications, and quantities for public and domestic buildings, and preference will be given to persons with experience in the preparation of housing schemes.

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

Forms of application may be obtained from the undersigned, and should be returned, accompanied by copies of not more than three testimonials, not later than Tuesday, the 1st January, 1946.

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

J. S. SYRETT, Clerk of the Council.

Council Offices, Feltham, Middlesex. 7th December, 1945. 980

### CITY OF LIVERPOOL.

#### APPOINTMENT OF PLANNING ASSISTANTS.

Applications are invited from qualified persons for the following appointments in the Town Planning Office of the City Engineer and Surveyor:—

- (a) Two Senior Town Planning Assistants, at salaries of £450 per annum, increasing at the end of 1 year to £500 per annum.
- (b) Two Town Planning Assistants, at salaries of £375 per annum, increasing to £405 per annum by two annual increments of £15 each. A cost-of-living bonus, at present £59 19s. 3d. per annum, is also payable.

Applicants for positions (a) should have a good practical experience in the preparation of planning schemes for large urban areas, and should be fully conversant with planning legislation and procedure.

Applicants for positions (b) should have a good knowledge of planning, and should in addition be good planning draughtsmen and colourists.

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

Applications in writing, stating age, qualifications and experience, and accompanied by not more than three recent testimonials, must be forwarded in envelopes endorsed "Senior Planning Assistant" or "Planning Assistant," as the case may be, so as to reach the undersigned not later than the 7th January, 1946.

Canvassing of members of the City Council will be regarded as a disqualification.

W. H. BAINES, Town Clerk.

Municipal Buildings, Dale Street, Liverpool, 2. 6th December, 1945. 986

### WOMBWELL URBAN DISTRICT COUNCIL.

#### APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment on the staff of the Housing Architect and Surveyor, at a salary of £400 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

Applicants must be Registered Architects, and must have considerable experience in the preparation of drawings, etc., for local authority works and housing in particular.

The appointment will be subject to the Council's regulations and conditions of service.

Applications, stating age, professional qualifications and experience, and date upon which duties can be commenced, together with the names and addresses of three persons to whom reference may be made, should be delivered to the undersigned not later than the 31st December, 1945, and endorsed "Architectural Assistant."

BURY & WALKERS, Acting Clerks of the Council.

Town Hall, Wombwell. 5th December, 1945. 982

### BOROUGH OF MORLEY.

#### APPOINTMENT OF HOUSING DIRECTOR.

Applications are invited from qualified Architects for the appointment of Housing Director, at a salary of £550 per annum, rising by annual increments of £25, subject to satisfactory service, to £750 per annum, plus such cost-of-living bonus as may from time to time be payable (at present £59 19s. per annum), and car allowance in accordance with the Council's scale.

The Officer appointed shall assume control and supervision of housing schemes whether carried out by contract or by direct labour; be responsible for the administration of the housing department, and undertake the full management, letting, etc., of the Council's houses (excluding rent collection).

The appointment will be (a) whole time (all fees and emoluments received in any capacity, directly or indirectly, will be required to be paid over to the Council); (b) terminable by three months' notice in writing on either side; (c) subject to the provisions of the Local Government Superannuation Act, 1937; and (d) subject to the selected candidate passing a medical examination by the Council's Medical Officer of Health before the appointment is confirmed.

Applications, stating age, qualifications, experience, and position as regards National Service, and furnishing the names of three persons to whom reference can be made, to be sent to the undersigned endorsed "Housing Director," not later than Monday, the 7th January, 1946.

Canvassing will disqualify. E. V. FINNIGAN, Town Clerk.

Town Hall, Morley, Yorks. 7th December, 1945. 989

### CITY OF LEEDS.

#### CITY ENGINEER'S DEPARTMENT.

Applications are invited for the appointment of a PLANNING ASSISTANT, at a commencing salary of £400 per annum, plus cost-of-living bonus (at present £59 16s. per annum). The maximum salary for the post is £450 per annum, and the first increment of £25 will have effect on the 1st of April following the completion of 12 months' satisfactory service.

Applicants should be Corporate Members of the Town Planning Institute, and have had considerable experience in the preparation and administration of Planning Schemes.

Preference will be given to candidates who also possess an engineering, architectural and/or surveying qualification.

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

Applications on the forms provided, which are obtainable from the undersigned, to be delivered not later than the 15th of January, 1946, accompanied by copies of not more than three testimonials.

Canvassing in any form, either directly or indirectly, will be a disqualification.

W. S. CAMERON, M.Inst.C.E., P.P.T.P.I., City Engineer.

Civic Hall, Leeds, 1. 985

### COUNTY BOROUGH OF HUDDERSFIELD.

#### EDUCATION AUTHORITY.

Applications are invited for the appointment of an ASSISTANT ARCHITECT, Grade IV. The commencing salary will be fixed according to professional qualifications and experience within the scale £325—£25—£400, subject to satisfactory service, plus cost-of-living bonus (at present £59 16s.). The appointment will be temporary in the first instance, and subject to one calendar month's notice. Applications, stating age, qualifications, experience, date when at liberty, and copies of testimonials, should be sent to Gen. Crossley, F.R.I.B.A., Architect to the Education Authority, not later than 10 a.m., 1st January, 1946. (Men in the Services need only supply references.)

H. KAY, Director of Education.

Education Office, Peel Street, Huddersfield. 991

## NORTH RIDING EDUCATION COMMITTEE.

Applications are invited for the post of ARCHITECTURAL ASSISTANT. The post is exempt from the age restrictions of the Control of Engagement Order. The salary is at the rate of £245 a year, rising by annual increments of £25 to a maximum of £500 a year, plus war bonus, at present £60 a year. Under existing conditions working hours are increased by one-seventh, and the payment for this is at the rate of one-seventh of the basic salary.

Candidates must be Associates of the R.I.B.A., and must possess a sound knowledge of the design, erection, and maintenance of Educational Buildings.

Further particulars and a form of application may be obtained by sending a stamped addressed foolscap envelope. Completed applications, with copies of two recent testimonials, should be submitted not later than the 12th January, 1946.

F. BARRACLOUGH,  
Secretary.

Education Offices, County Hall,  
Northallerton. 987

## COUNTY BOROUGH OF EAST HAM.

## APPOINTMENT OF TEMPORARY TOWN PLANNING ASSISTANT.

Applications are invited from qualified persons for the temporary appointment of Town Planning Assistant in the Borough Engineer and Surveyor's Department, subject to one month's notice on either side.

Candidates must be Associate Members of the Town Planning Institute, or hold an equivalent qualification, and be competent to undertake town planning work in all aspects of post-war redevelopment.

The salary will be at the rate of £485 per annum, rising by annual increments of £20 to a maximum of £525 per annum, plus war bonus in accordance with the Council's scale for official staff in force from time to time, at present £59 16s. per annum, but the commencing salary may be at any incremental stage up to the maximum according to the qualifications and experience of the person appointed.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, after two years' service with any or all local authorities, to the Council's conditions of service for temporary official staff in force from time to time, and the successful candidate will be required to pass a medical examination. Applications, on the form provided, must be delivered to the undersigned, together with copies of three recent testimonials, and endorsed "Town Planning Assistant," not later than Friday, 11th January, 1946.

Canvassing in any form, direct or indirect, will be regarded as a disqualification.

C. V. THORNLEY,  
Town Clerk.

Town Hall, East Ham, E.6.  
10th December, 1945. 997

## COUNTY BOROUGH OF DERBY.

## APPOINTMENT OF BOROUGH ARCHITECT.

Applications are invited by the Corporation for the position of Borough Architect, at a commencing salary of £1,000 per annum, rising to £1,200 per annum by annual increments of £20 (plus war bonus).

Preference will be given to applicants who are members of the Royal Institute of British Architects, and who have had previous Municipal experience.

The person appointed will be required to carry out such architectural and other work as may be required by the Council.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a satisfactory medical examination.

Applications, stating age, previous experience and qualifications, accompanied by copies of not more than three recent testimonials, to be sent to the undersigned not later than Wednesday, 9th January, 1946.

Canvassing will disqualify.

C. ASHTON,  
Town Clerk.

Market Place, Derby.  
12th December, 1945. 503

## CITY OF STOKE-ON-TRENT.

## CITY ARCHITECTURAL DEPARTMENT.

## APPOINTMENT OF DEPUTY CHIEF ARCHITECT.

Applications are invited for the above appointment, at a salary commencing at £650 per annum, rising by annual increments at £50 to £750 per annum, plus cost of living bonus of £59 16s.

The appointment, which will be held during the pleasure of the Council, will be subject to three calendar months' notice on either side, and to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Applications, stating age, qualifications, and experience, and particulars of present and previous appointments, together with two recent testimonials and names and addresses of two responsible persons of standing to whom reference may be made, must be delivered to the undersigned, endorsed "Deputy Chief Architect," on or before Monday, 14th January, 1946.

HARRY TAYLOR,  
Town Clerk.

Town Hall, Stoke-on-Trent. 505

## METROPOLITAN BOROUGH OF FULHAM.

## TEMPORARY ARCHITECTURAL ASSISTANTS.

Applications are invited from Registered Architects, with housing experience, for positions as temporary Architectural Assistants in the War Damage and Borough Surveyors' Departments of the Council. Candidates should be Associates of the Royal Institute of British Architects or hold equivalent qualifications.

The salary scale is £360×£15—£450 per annum, plus cost-of-living bonus, which at present is 25s. per week. The commencing salary will be fixed within the scale, according to the qualifications and experience of the persons appointed.

Further particulars and a form of application can be obtained from me. Applications must reach me not later than 21st January, 1946.

CYRIL F. THATCHER,  
Town Clerk.

Town Hall, Fulham, S.W.5.  
7th December, 1945. 988\*

## ROYAL BOROUGH OF KINGSTON-UPON-THAMES.

## BOROUGH SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of a Temporary ARCHITECTURAL ASSISTANT, at a salary of £500 per annum. Preference will be given to candidates who are members of the Royal Institution of British Architects.

Applications, stating age, qualifications and experience, and accompanied by copies of not more than three recent testimonials, must be sent in sealed envelopes, endorsed "Architectural Assistant," so as to reach the undersigned not later than noon on Saturday, 5th January, 1946. The appointment is subject to one month's notice on either side.

A. W. FORSDIKE,  
Town Clerk.

Guildhall, Kingston-upon-Thames.  
10th December, 1945. 993

## LONDON COUNTY COUNCIL.

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## NORTHAMPTON COUNTY BOROUGH EDUCATION COMMITTEE.

## ASSISTANT ARCHITECT.

Applications are invited for the above-mentioned appointment in the Education Architect's Department. The commencing salary will be at the rate of £500 per annum, plus bonus, at present £60 per annum, and the appointment, which is a permanent one, is subject to the provisions of the Local Government Superannuation Acts.

Applicants should be Registered Architects, members of the R.I.B.A., and have had experience in the design of education buildings.

Forms of application may be obtained from the undersigned, and must be returned duly completed not later than the 28th December, 1945.

H. C. PERRIN,  
Chief Education Officer.

"Springfield," Cliftonville, Northampton. 999

## BOROUGH OF BILSTON.

## ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) QUANTITY SURVEYOR. Salary, £400—£25—£500 per annum, plus cost-of-living bonus, at present £59 16s. per annum. The appointment will be subject to the Local Government Superannuation Act, 1937, and will be terminable by one month's notice on either side. It is desirable that candidates should be Chartered Quantity Surveyors, and competent to prepare Bills of Materials and assist the Architect on the financial side of building contracts for Housing Schemes.

(b) CLERK OF WORKS.—Salary, £8 per week, the appointment to be subject to one month's notice on either side, for the supervision of the erection of permanent houses. The appointment will in the first place be temporary, but may be extended to cover future contracts, subject to satisfactory service.

Candidates should be over 30 years of age, unless not liable for Military Service.

Applications, giving full particulars of age, experience, and qualifications, with copies of not more than three recent testimonials, to be received by the Borough Architect, 20, Wellington Road, Bilston, Staffs, on or before the 31st December, 1945.

A. V. WILLIAMS,  
Town Clerk.

Town Hall, Bilston.  
December, 1945. 992

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