ARCHIT



standard

contents

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

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glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is pub-

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

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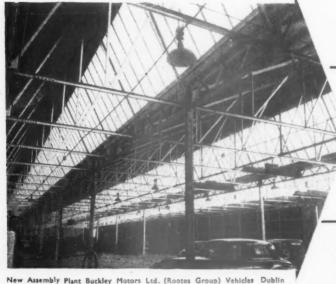
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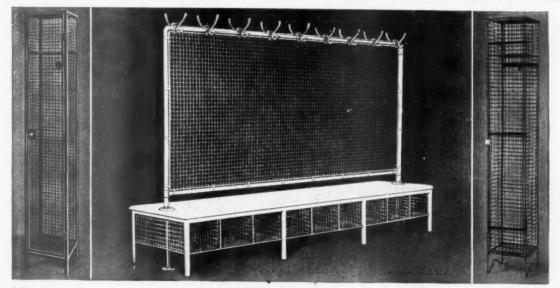
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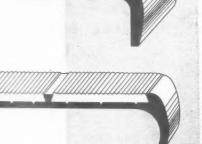
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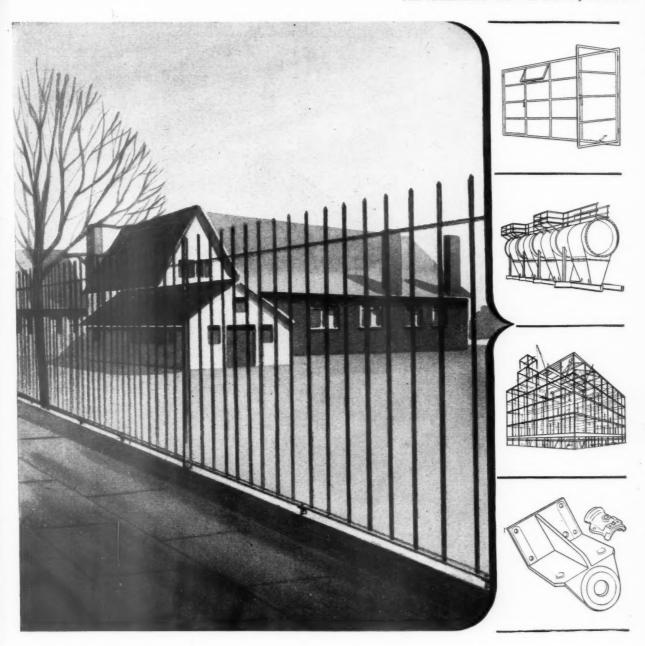
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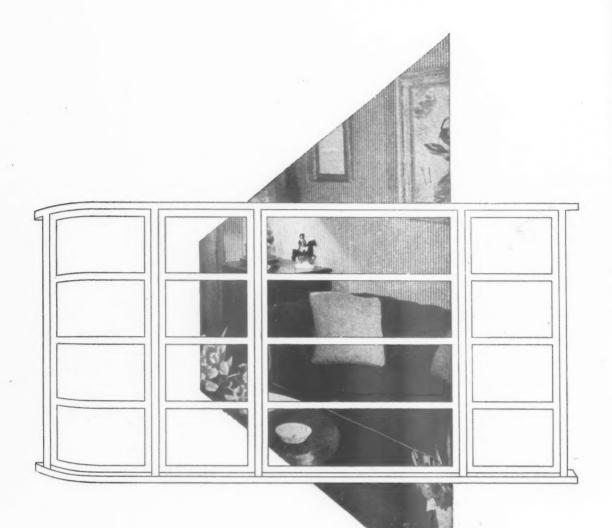
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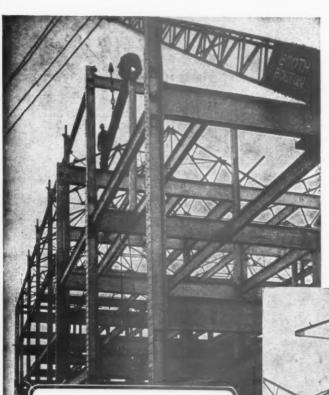
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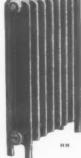
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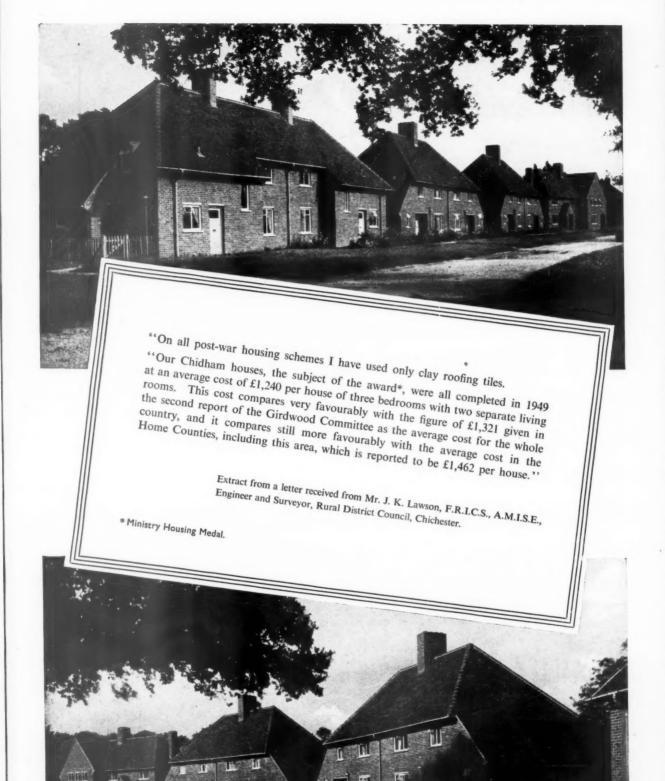


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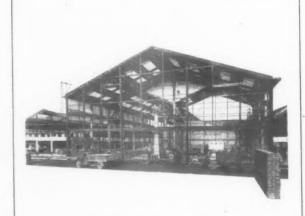
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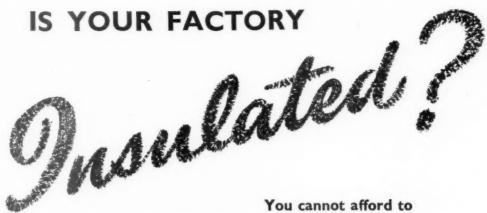
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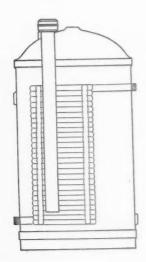
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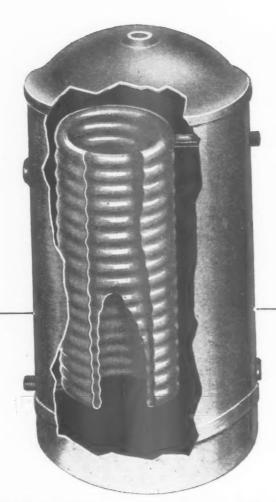
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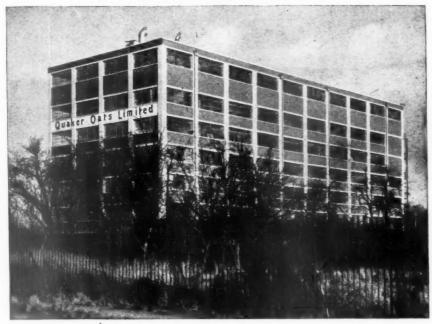
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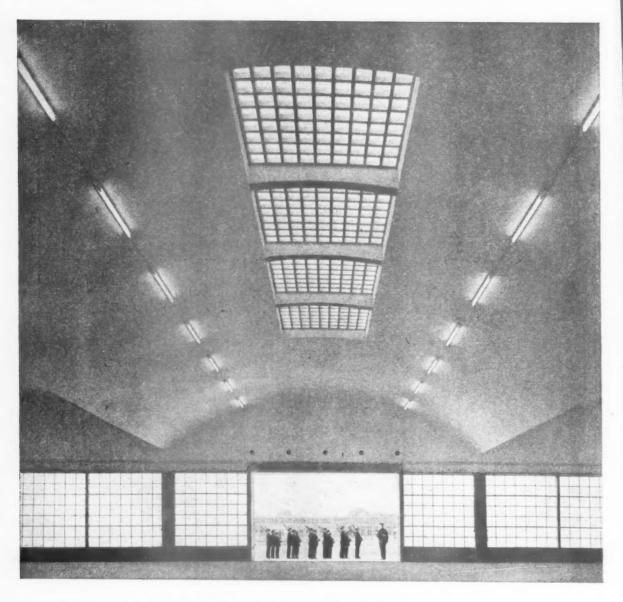


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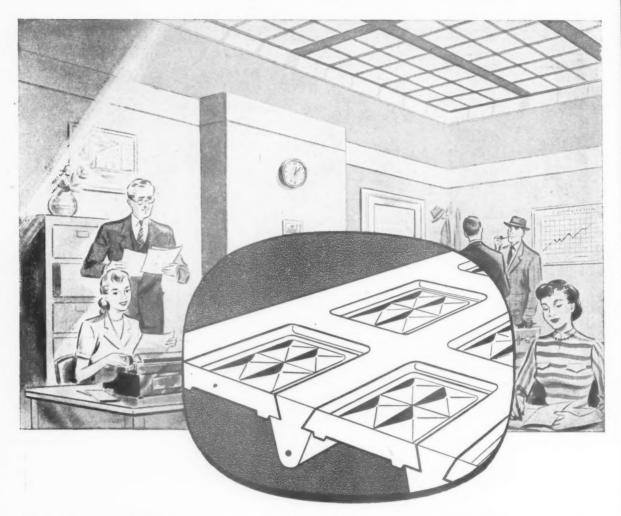
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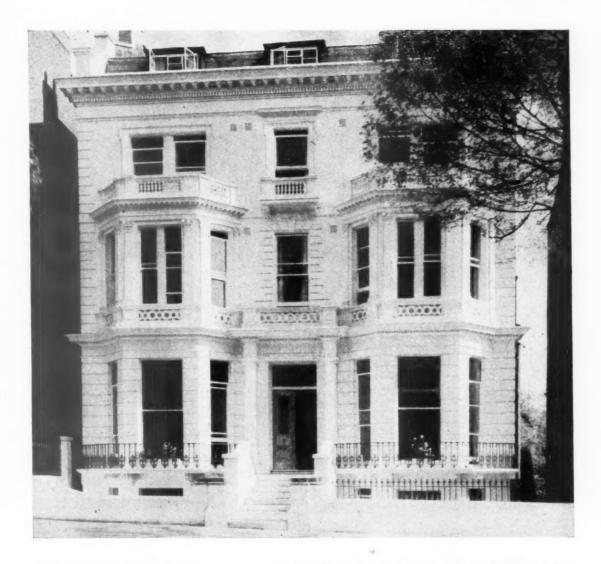
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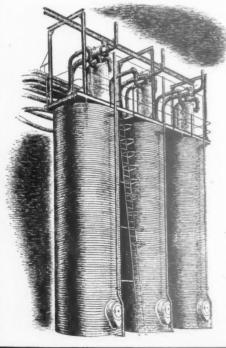
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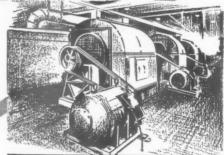
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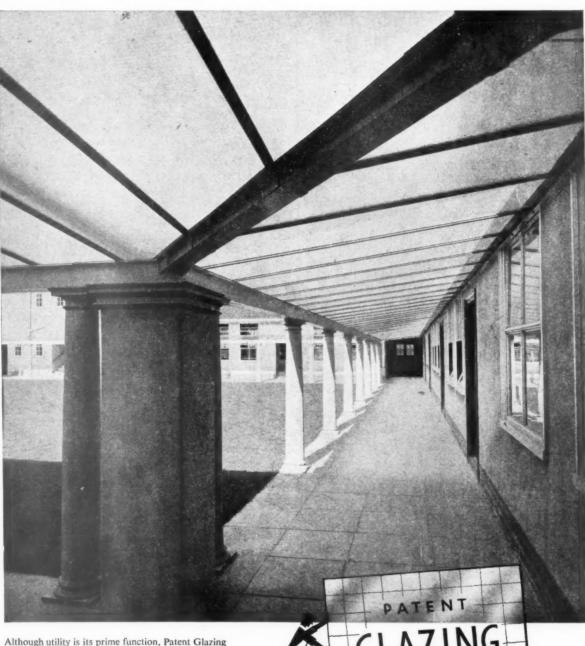
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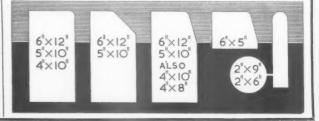
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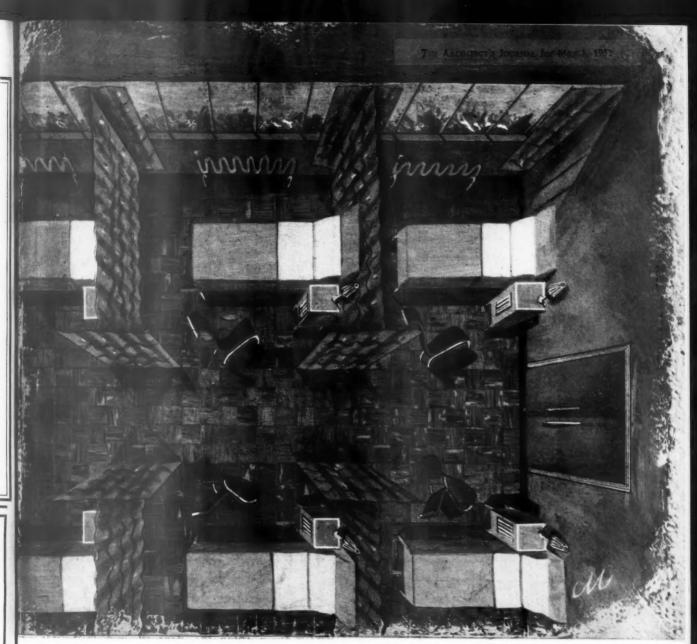
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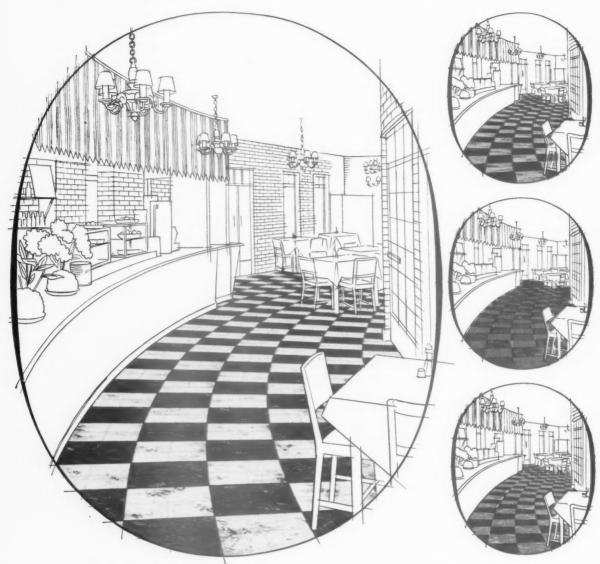


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THIS IMPRESSION OF A TEABAR has been drawn in black and white, with only the floor coloured, to show how effectively Semastic Decorative Tiles may be treated as the foundation of the interior colour scheme. The smaller sketches suggest three more ways in which the wide and well-balanced colour range may be used. But the decorative aspect is only one of the features of Semastic Decorative Tiles which have established their reputation as "thermoplastic tiles at their best". The manufacturers invite your consideration of these tiles against any comparable floor finishes from the point of view of comfort under foot, wearing qualities, or any other test.

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THE ARCHITECTS' JOURNAL

May 1, 1952

VOL 115

No. 2983

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The Economic Survey for 1952, published last week, doesn't say very much about building-except that the housing programme is to expand "over the next three years as rapidly as the resources of materials and labour will allow.' An effort is to be made to attract labour to housing from "other types of building work," and material producers have been asked to increase output. Both steel and softwood will continue to be short.

HOUSING PROGRESS

Apart from material supplies and the Economic Survey a lot will depend on what legislation Harold Macmillan introduces during the next few months. Ten days or so ago, at Manchester, he said he was considering the question of development charges and the Town &

Country Planning Act in general, and that he hoped to have some proposals ready for the next session of Parliament. In any event it will be at least a year before any changes become law and, in the meantime, Mr. Macmillan invites us to "press on undeterred and undismayed." Readers may perhaps care to explore an avenue or two as well.

WHY MUSTN'T YOU?

Control of elevations can lead to some pretty peculiar planning committee rulings, the latest being that the gables of a small house in Gloucester must not be of vertical board and cover battens, though feather edge elm boarding would be accepted. It seems nonsense that a body of this sort should dictate on a purely æsthetic point. My sympathy to the designer, Brian Tait, and a hope that the committee can be made to have some more reasonable second thoughts.

PIER POSITION

My photograph this week is of the pier at Lowestoft, a town which, in contrast to one of its neighbours, Aldeburghreferred to here the other week-has more character than visual charm. It has indeed very few buildings of any merit, but vitality compensates for ugliness. And certainly the pier which—an unusual feature this-acts as a breakwater to the harbour, distils for ASTRAGAL many happy memories. In pre-bebop days he used to lean on the iron balconies of the Tudor-cum-Regency pier pavilion, listening to the soft scuffle of pages being turned in the reading room behind him and the thud of military music hitting the salt wind beneath. How sad to hear that this endearing Edwardian joke is to be removed-not because of the changed tastes of holidaymakers, but because it

was badly damaged in the war. However, this has given a splendid opportunity to the local corporation to provide a building which, while catering for the tea, toast and tango types, takes advantage of views over the busy yacht basin, fish market and harbour mouth.

But ASTRAGAL, who has seen recent examples of the corporation's "improvements" to their borough, is nervous about the pier's future. It is true that the corporation have tried to do the right thing by inviting two architects to prepare plans from which a choice can be made. But if the City fathers don't really know what they want-and for what other reason would they ask two architects for plans?wouldn't it have been better, perhaps, for them to organize an open competition? It is already costing them £300 to have the two designs prepared (at a lower figure the arrangement would be classed as a limited competition and an architect assessor would have to be appointed); and this, presumably, represents an addition of £150 to the architect's fees to be paid later. I've made a few inquiries at Portland Place and it seems that a client can hold a limited competition and be the assessor himself provided he pays each competing architect enough to prevent the competition being officially recognized as one.

For a few more hundred pounds an official competition could be held. But, of course, the judgment would then be out of the corporation's hands. As it is, one fears-recalling the corporation's post-war passion for random rubble dwarf walls and ornamental lakes-that the least unorthodox of the two plans submitted will

CREATION WITH CRAFTSMANSHIP



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be selected. However, ASTRAGAL will have a spy on constant watch in the district and will report back.

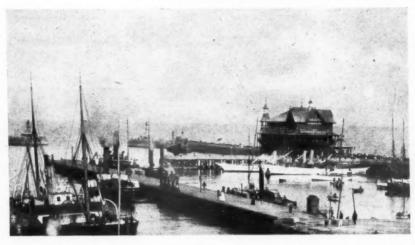
COMET RELEASE

The whole picture page of The Times, two columns on the leader page, and a fair slice of the current news reels were devoted last week to the de Havilland "Comet"—the world's first four-jet passenger aircraft which starts regular service on the Johannesburg route next And it certainly deserves every inch of space it got. Fast, quiet, smooth and economic to run, this aircraft has all the virtues, save, of course, the one deemed essential by the New Yorker-and that is the ability to go very slowly indeed when the pilot can't quite see where he's going-and it is an achievement of which all concerned can feel very proud.

Since all aircraft advertising seems to be obsessed with the idea of food (rather than of safety), whether it's the eight-course delicious meal served with old-fashioned European courtesy or the fact that you can breakfast here, lunch there and dine there, it is perhaps necessary to point out that it is now possible to breakfast in London, lunch in Rome, have a two-hour snooze and be back for dinner in London-even if this, as The Times correspondent acidly pointed out, is a long way to go for such a limited purpose.

I have seen no information as to the designer of the interior of the aircraft. Presumably this has been done by the staff of de Havillands, and from the photographs it looks pleasant enough, as indeed is all BOAC equipment, from the appearance of their aircraft to the uniform of their staff and the profile of their standard mustard pots. BOAC has always been design conscious. As you probably know, their new hangar is being designed by Sir Owen Williams and equipped with furniture designed by the Design Research Unit. Visually, in fact, the whole service does the corporation credit, and it is pleasant to see our country so handsomely presented abroad.

And while we are hurling bouquets after the Comet of Sir Miles Thomas, don't let's forget the Corporation has



Lowestoft's pier, which forms a breakwater to the harbour, The view shown in this picture, taken fifty years ago, is much the same today. The designer of the new pier pavilion—the existing one was damaged during the war—has an excellent opportunity of making use of the views over the harbour and fish market. See ASTRAGAL'S note "Pier Position ' on page 531.

also made another record-a profit. And let no cynic say that to turn a loss into a profit is merely a matter of changing your auditors. Congratulations all round.

ARK HIGH-LIGHT

Almost as creditable and equally smooth and handsome to look at is the Royal College of Arts' student magazine ARK (price 2s. 6d.)-still retaining its standard as one of the liveliest art magazines in the country. This month's model is as well-loaded as its namesake and contains an expert post-mortem on The Lion and Unicorn Pavilion, South Bank, illustrated articles on theatre décor, Thames barges, Japanese painting, the human figure, and, for the sake of old times, presumably, a wellrounded-if perfunctory-shot from James Laver's inexhaustible locker.

It's pleasantly curious in a way to read an art students' magazine which seems genuinely more interested in art than in Educational Methods, Social Realism or Students' Rights. Is this perhaps a sign of immaturity? Is "ARK" as outmoded, slow and rough-hewn a vessel as its name implies-no more than a prison for apes, a cage for captive birds? Could be, as they say, but in such company no voyage could be more pleasant; long may it keep afloat.

PICTURES IN OFFICIAL PLACES

Continuing his rôle of Mr. Cheeryble, ASTRAGAL, his eyes misting with affec-

tion, hands out an approving pat to David Eccles for his plan-announced last week in the House-to assemble from gifts or loans a collection of pictures and objets d'art for display in government buildings at home and abroad. This is an admirable idea. One of the less creditable features of government departments is their skill in turning any building they inhabit forthwith into a slum, with empty tea cups, out-of-date posters for uninteresting activities, pieces of cardboard labelled with a 6H pencil "Enquiries" and attached with a string to a door handle, and similarly familiar objects strewn around with gruesome prodi-Many of our embassies and consulates are little better, with their perfunctory copies of Royal portraits, ordered presumably by the dozen, and the assortment of badly boxed engravings of forgotten battles or ought-tobe-forgotten personalities.

One good picture, by the very power of its presence, can transform an otherwise undistinguished interior. Time was when ambassadors and ministers were rich enough to furnish their home and offices with their own private possessions. This is no longer true, and it is no credit to our country, nor comfort for that matter to the Foreign Service officials, if these buildings, which must be obviously regarded as characteristic of British taste, are shabbily or poorly equipped. Let's hope the Minister's appeal for loans or gifts will win a generous and lively response.

Sculptures as Sign-posts

This photograph of Hubacher's "Aphrodite," with Renoir's "Grande Laveuse" in the background, illustrates the use of sculpture as a way of giving "meaning" to a landscape. As Reg Butler pointed out in his recent talk on "Sculpture in Gardens" to the Institute of Landscape Architects (reported on page 543), the view across this lawn, seen below overhanging branches, would be far less meaningful without

its inhabitant. Apart from this the sensitive placing of these two pieces of sculpture points the direction of development of the garden-scape. The Renoir figure in the distance gives an incentive for walking the breadth of the lawn. In Reg Butler's words, all kinds of sculpture "are capable of contributing garden-scape problems, if only as elements of dissonance, incongruity or surprise."

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PRESIDENTIAL VENTURE

ASTRAGAL, who is aglow by now with goodwill, sends his wishes to the RIBA's President, Mr. Henderson, and its secretary, Mr. Spragg, who are on a trip to Canada for the Annual Assembly of the Royal Architectural Institute of Canada, Vancouver. On the way home Mr. Henderson will visit Washington, where, on behalf of the RIBA, he is presenting the headquarters of the AIA with a wall candelabra for the Octagon. A few days ago ASTRAGAL heard this admirable project being discussed in the couloirs of the RIBA by two old boys who were making very heavy and creaking weather about the reported difficulty of finding one's way about the Octagon, the use of roller-skates for messenger boys, and the like. Presumably they were thinking of the Pentagon, but it would have taken too long to explain, so ASTRAGAL left them mercifully locked in their geometrical tangle. But watch out, Mr. President! Even a lighted candelabra wouldn't extricate you from that misunder-

FRENCH CURVES

One of the dustier relics of my student days—dusty perhaps because one has never been asked to design a neighbourhood unit—is a set of French curves. Suave, elegant and provocative as the objects they conjure up to the mind, they have lain almost unused for many years, and even in their hey-day—or should one match the daydream by saying hey-hey day?—the pencil never moved more than a few inches along their gentle sides.

In France, however, as you might expect, French curves appear to be still used, and used, moreover, to the very spiky ends. If you question this, take a look next time you are passing at the "chantier" in progress round Marshal Foch's statue near Victoria Station. The gardens here are being completely replanned by M. Jean Moreau, of Paris, in time for their reopening next July. It's too early to see results yet, but it's already clear that M. Moreau, who also designed the gardens of poor old Shepheard's Hotel in Cairo, has certainly contrived a splendidly voluptuous and ingenious floor pattern, even if it isn't what the Architectural Review would call common ground.

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ASTRAGAL

POINTS FROM THIS ISSUE

Housing Bill's second reading	 pages 535 and 544
Industrial development at Hemel Hempstead	 page 538
Reg Butler on Sculpture in Gardens	 page 543

The Editors

THE HOUSING BILL

FOR a man who has described both housing subsidies and rent restrictions as unhealthy features in the life of the country, Harold Macmillan is doing very well with both. As Minister of Housing, he has now carried to its second reading a Housing Bill which increases both the amount of the subsidy already payable for each house built by a local authority and the number of houses which will be subject to the Rent Restriction Acts. There are, of course, extenuating circumstances. Mr. Macmillan has said, rightly, that no one can hope to solve either problem without a good deal of time, and the need for the increase in subsidies now is urgent enough.

However, the Bill (discussed by Ernest Watkins on page 544) is not a solution to the housing problems—nor is it intended to be—by itself. The real test of the Government's activity lies in the words used by Mr. Marples, Harold Macmillan's Parliamentary Secretary, in the debate. He claimed that Mr. Macmillan had already created a psychological climate for the building of houses; that already the greater freedom given to private enterprise in building was bringing down the contract price of a house. Mr. MacMillan himself claims that the latest housing figures are evidence of the mounting incentives to build. Comparing the three months to the end of February this year with those of last year, houses started are 29 per cent. up and houses completed 18 per cent. up.

These figures are not the only test. Mr. Macmillan seems to recognize no ideological barriers in housing. Those who join together in groups to build their own houses have not always been given encouragement, but the Ministry of Housing has just sent out a circular to local authorities which says that the Minister trusts that they will "encourage informal approach . . . and give . . . as much advice and assistance

as possible."

Mr. Macmillan cannot expect bouquets on the results of one quarter's housing progress alone. But he does show signs of seeing the problem whole. He proclaims as much concern for the standards of existing houses as for those of the new. And that at least is realistic. We cannot sweep away the old as quickly as we should like. We must live with it a little longer and there are times when there seems too great a tendency to forget that, unpleasant as they are, the thousands of mid-Victorian dwellings must remain in service for some time and that someone must contrive that money is available to keep them up to some sort of minimum standard.



"Borough Architect" Philip Titherley, A.R.I.B.A. City Architects' Dept., Bristol Leonard C. Howitt, F.R.I.B.A. Chairman of R.I.B.A. Salaried and Official Architects' Committee Alan Whitehead, M.S.I.A. Harry Weedon, F.R.I.B.A. Susan Corker Ian Charles Hill Geoffrey S. Kelly, A.R.I.B.A.

Architects' Salaries: Three ...

SIR,—I could not agree more with the letters signed by Ronald Harvey and City Architect's Department, Coventry, in a recent issue of the Journal.

I am a Borough Architect, with a staff of five, and my responsibilities are:five, and my responsibilities are:— (a) Housing. Finalizing accounts and work in progress. Approximately £500,000. (b) Housing Schemes, quantity and drawing board stage. Approximately £250,000. (c) Town Planning Applications. (d) Town Planning Schemes. (e) Development schemes, plans, estimates, etc. Approximately £11,000,000. (f) All architectural work, including town hall, recently completed. (g) Normal and abnormal office routine work, for the benefit of various Ministries rates. for the benefit of various Ministries, rate-payers, etc. The Joint Negotiating Com-mittee for the salaries of Chief Officers is based mainly on population, regardless of the type of work carried out.

Rightly or wrongly I consider that a Borough Architect's Department can save the cost of the department over and over again, and with humility I suggest it is a responsible position.

My salary is £660. I am a subscribing member to three Societies.

BOROUGH ARCHITECT.

. . . More

SIR,-Judging by your correspondents from Coventry, and others who are dissatisfied with salaried positions in their local government and official offices, it seems that the whole idea of fixed salaries in these offices is wrong. Would it not be more satisfactory to all architects working for official bodies to work on a fee basis, as in private practice?

Macclesfield.

PHILIP TITHERLEY.

. . . Comments . . .

SIR,-We agree wholeheartedly with most of the contents of the letter from the City

Architects' Department, Coventry, but we

Architects' Department, Coventry, but we disagree with their wish to improve our financial condition by splitting the profession more violently into private practitioners versus "official" architects.
Obviously we are not sufficiently represented by the RIBA. Therefore it would appear that the official Architects' Committee requires vigorous reconstruction so that it becomes alive and fully representative of assistant architects in local government.

ment.
R. J. Moxley (A), F. W. Fennell (L),
R. Blessley (A), G. J. Ireland (A), R. S.
Harvey (A), A. Powell (A), R. Page (A),
T. J. Hewitt (S), Dennis W. Smith (A), P. D.
Hammond (A), K. Dando (A), K. F.
Boulting (S), H. Robson (L), J. Moreton (A),
A. J. Brandt (A), D. W. Salter (L).

CITY ARCHITECTS' DEPT.

. . . And the RIBA's Reply

SIR,—The authors of the letter which appeared in your issue of April 3 under the signatures of some members of the staff of the Coventry City Architect's Department, display a lack of knowledge and understanding of the work and objects of the RIBA Council and of its Salaried and Official Architects Committee. That such a letter should have been penned by fellow official architects is a cause of personal regret; but as a member of the Council, which (to my mind) it so irresponsibly attacks, and as Chairman of the Salaried and Official Architects Committee, I feel I should correct some of its misconceptions and mis-statements of

This correspondence was begun by three members of the staff of the City Engineer of Perth, who complained about salary scales which do not apply in Coventry or anywhere else in England and Wales. They wrote to the Institute on March 4 and a reply was posted to them one day after its receipt. Before, however, awaiting the Institute's reply and without notifying the Institute of its intention, the writers of the letter thought proper to forward a copy to you for publica-I have seen a copy of the Institute's reply, which, in my opinion, provides a complete answer to their contentions.

The comparison which has been repeatedly made between the RIBA and the BMA could have been prompted only by the most super-ficial knowledge of the respective functions and objects of the two bodies. Besides being

odious, it is grossly misleading.
The BMA is registered under the Companies Act, and, as its history shows, one of its main activities has been the negotiation of fees and salaries for its members. Even so, it quite recently discovered that its Memorandum of Association proscribed it from participating in certain activities designed to protect the interest of its members. To overcome this obstacle a separate body, the British Medical Guild, was set up and empowered to act with far greater freedom in the protection of its members than the Association was allowed by its constitution.

The RIBA, on the other hand, was founded by Royal Charter for "the general advancement of Civil Architecture and for promoting and facilitating the acquirement of the knowledge of the various Arts and Sciences connected therewith." It is primarily and essentially a learned society and an examining body for the profession; and by reason of its Charters, it is constitutionally unable to act in the way a trade union does in negotiating and securing scales of salaries for its members.

While we architects know that our profession requires no less skill and is no less important than the medical profession, we be realistic and recognise that quite apart from our lack of machinery to enforce upon public authorities our own valuation of our services, we have not yet either the

legal or the general public acceptance of the indispensability of our art, such as is enjoyed by the medical profession. In this respect we are not alone: our allied pro-fessions, the engineers, surveyors and town planners labour under similar disadvantages, and have not yet even started on the way to professional registration.

The authors of the Coventry letter, continuing their comparison with the BMA, declare that the efforts of the RIBA since the war are negligible, and have the presumption to couple "the majority of the profession" with the prejudice which leads them to make the mischievous and completely unwarrantable charge that the policy of the RIBA Council is deliberate apathy. The truth is that from my own experience of several years on the Council, and from reference to the records, I cannot find a single instance where the Council have opposed the will of the Salaried and Official Architects Committee, or any of its predecessors, on any important issue affecting the interests of salaried architects.

For many years I have striven for the unity of the profession and I have not hesitated to resist any disparagement of the official architect. Equally I deplore this unjustifiable and unpardonable attack upon the private practitioners who join with their salaried and official colleagues on the Council in serving what they believe to be the best interests of the Institute and the profession as a whole. It is regrettable that an appeal to architects to take an interest in the affairs of their Institute should be associated with such ungracious and unfounded allegations against those who have done so to the fullest extent

Manchester.

LEONARD C. HOWITT.

Design Co-operation

SIR,-An important conference has taken place recently in Harrogate, important not so much in its immediate decisions, but because it may well prove a further step forward in the cause of good design. It is now well over one hundred years since a handful of Lancashire fo'k opened the little store in Toad Lane, Rochdale, which was destined to spread into the considerable co-operative movement of today. Whatever its progress in other directions, its contribution to design has been sadly undistinguished. At least as far as the British movement has been concerned, for its cousins in Scandinavia and Switzerland have proved themselves propagators of good design.

An awakening is at last taking place; good An awateling is at a stratum place, good marks must already be given for the booklet "Design and Our Homes," published not so long ago by the Co-operative Union in collaboration with the Council of Industrial Design, an excellent plain man's guide to the subject.

But the conference was significant because it was composed of presidents, general managers and chief officials of co-operative societies and was addressed, amongst others, by Gordon Russell and W. J. Worboys—a director of ICI. "At the present moment the co-operative movement can be said to have built up a vested interest in ugliness," declared Mr. Russell in his lecture entitled "Design and its Importance."

"Design and its Importance."
Reported at length in the Co-operative News, which also devoted a leader to the subject, were other speakers such as A. N. Silver, a Co-operative manager who said that co-operation had opportunities for establishing a design policy which no other organization possessed. He advocated the setting up of a design advisory service, possibly under the wing of the CWS. If others think as Mr. Silver we may look forward perhaps to some interesting developments down at the "Co-op."

ALAN WHITEHEAD.

Surrey.

The SIR,—, lish, with Bromwi graph o four ho assist, a Howe some the are ma

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SIR. of pro course his bit up hat posing can be over in Still, i chins ' that ar

But d subject groups Haven didn't nor ye

The BIF: Then and Now

SIR.—ASTRAGAL was a bit naughty to publish, without my permission, the photograph of the new main façade of the BIF, Castle Bromwich in the issue of the JOURNAL for April 3, without explaining it was a photograph of a paper model prepared at twenty-four hours' notice at the request of, and to assist, a lay committee.

However, I agree with his comment that some things speak for themselves; this one does to the credit of all concerned, and they are many.

I enclose a photograph of the front as it was in November, 1951, and one as it is today, April 7, 1952; not bad in these days of frustration.

HARRY W. WEEDON.

Birmingham.

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Design of Travel Guides

SIR.—Too often correspondents in architectural periodicals unjustly compare this country unfavourably with Sweden. Too often what is worst in Britain is compared with what is best in Scandinavia. In a recent issue of the JOURNAL Mr. Alan Whiterecent issue of the JOURNAL Mr. Alan Whitehead, of Surrey, in a plea for better guides of Britain, mentioned "the care and design and good-printing which we find in the travel literature of . . Sweden." But if you have seen "What's On in Stockholm," an official publication of the Swedish Tourist Traffic Association, you will agree that it would be hard to find a worse expands of illumitation. hard to find a worse example of ill-written and ill-judged propaganda.

Mr. Whitehead justly says that the fact of our not being the only offenders is no excuse, but I would point out that there are some out I would point out that there are some extremely good publications put out by our own Tourist Association, notably the excellent periodical "Coming Events in Britain." I worked for a time last year in a travel agency in Stockholm and was able to appreciate that our overseas' propaganda compares very favourably with that of other countries. But perhaps it is all part of the export drive and we at home must be content with the and we at home must be content with the export rejects in the way of tourist publications. There are, however, to cite only one example on the home market, the very good maps that are issued free by the London Transport Executive.

On the other hand, there was displayed in the Strand in the closing months of last summer a poster advertising holidays in Jersey. Below the lettering swam the unforgettable water front of—Hels.nki. The pictorial part of the poster had apparently been lifted complete from the cover of the official taxifest may of that city. official tourist map of that city.

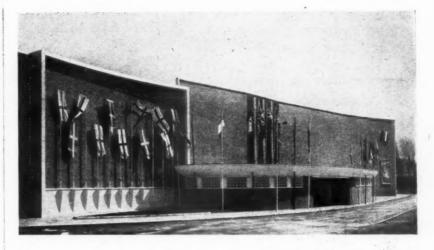
SUSAN CORKER.

Kent.

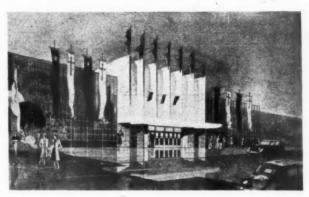
Architecture As Art.

-P. G. Beresford, in using the question of professional practice exams as a starting point (AJ, April 10), ends up on another course and seems to have done more than his bit in putting spanners in works, digging up hatchets, fogging issues, and generally posing problems (surprising what problems can be posed when you try) to be talked over in the pages of professional journals. Still, it is a trait of human beings to let chins wag while heels kick, and I suppose that applies to architects too.

But don't I recognize here that worn out subject of students' first year discussion groups?—"Is Architecture Art or Science?" Haven't we heard all this before? And didn't we decide that it is specifically neither, nor yet a compromise, but a conglomeration of these and just what Mr. Beresford says it is not? In the end, it helps nobody but



Above : The new facade of the BIF, Castle Bromwich, (opening on May 5) designed by Harry Weedon. Right: as it was in 1951. See letter above.



the encyclopædist to realize that it goes

neither under SCI nor ART but ARC.

Yet it is too obvious that this simple arithmetic of components is not so simple when we see such buildings as produced under the Lessor scheme (and the Archiunder the Lessor scheme (and the Architectural Review needn't confine its worries to London on that point). Although all these components are there (we hope) there is still something missing. Perhaps the balance is wrong; perhaps the components are of the wrong kind; perhaps they were assembled in the wrong order; perhaps it is the date the architect left college.

So the schools forget about art. They have reason to. There is so much else to be crammed into the curriculum and anyway.

reason to. There is so much else to be crammed into the curriculum and anyway, Art is so difficult a subject to write exam questions in. Who dare teach art? Can it be taught? "Art is in a pretty obscure state these days." Who obscured it? Haven't we art schools in the country? And don't these Art-trained artists, when they leave college. join in the game and obscure it all the more? The basis of the architect's art training must be, of course, the technology of taste; there is no alternative; if he is an artist he will soon add his own good ideas to the ones he knows.

ones he knows.

Maybe, if the profession wants "tasteful technicians" the profession is right, though I see little sign that it wants anything of the sort. Technicians, yes. But by all means let us have a few more of these animals in this profession of ours (not so "new" or "shiny" as I could wish); and that will give more power to the elbow of the Architect, the "artist technician" if you like (let us not be fogged into thinking he must be Artist or Technician), who can have full reign in his craft to produce the architecture of the Brave New World we're still looking for.

Birmingham.

IAN CHARLES HILL.

Teaching Methods

SIR,—ASTRAGAL invites comments on Mr. Douglas Jones' teaching methods at Birmingham. (AJ, April 17.)

ingham. (AJ, April 17.)

One's first reflection is to compare the students thus thrown into practice (by the way, is it private, official, or merely illegal?) during their third year, with the unfortunates who are "taught" to swim by being chucked off in the deep end by their practical instructors. cal instructors.

When these irruptions injure or cramp the when these irruptions injure or cramp the style of those already in the swim, eliciting a protest, they are greeted with catcalls, from the full-clothed spectators on the side, of "spoil-sport," and the aggrieved instructor lobbies his sporting journalist acquaintances with complaints about restrictive practices at the deep end, but omits to mention the abelience and specifically recycled. tion the shallow end specifically provided for him and his charges.

On second thoughts perhaps I am wrong and Mr. Jones is demonstrating that, instead of requiring five years to produce a poten-tial architect, his system turns them out in

three.

Here is a challenge from Birmingham to all the other schools, and an opportunity for them to relieve the ratepayers' burden by reducing the training period for the Mistress Art to an even briefer time; say, two years, or twelve months. But why have schools of architecture at all? Send them straight into an office after a year or so of active bricklaying, or tea-making á la Jordan. Jordan.

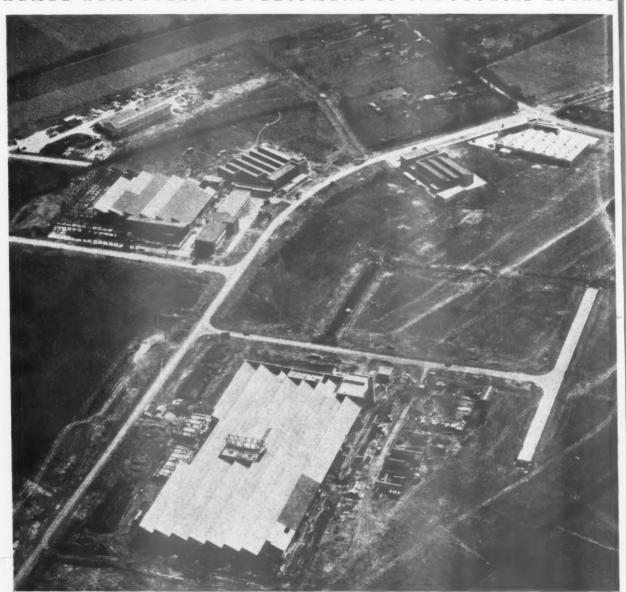
One last suggestion; let Mr. Jones devote the fees earned by student labour to pro-viding an unemployment pension fund to maintain them as soon as they have qualified. They'll need it.

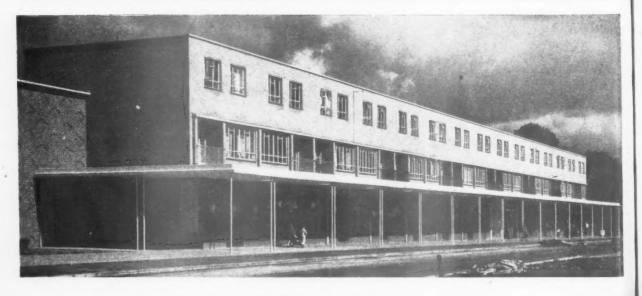
GEOFFREY S. KELLY.

Birmingham.

538] THE ARCHITECTS' JOURNAL for May 1, 1952

HEMEL HEMPSTEAD: DEVELOPMENT OF INDUSTRIAL ESTATE



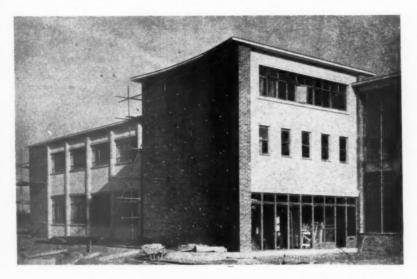


AND NEIGHBOURHOOD CENTRE

ATE



The policy of the Development Corporation for Hemel Hempstead—where 1,000 houses have just been completed—has been to keep the building of factories, shops and public buildings in step with housing progress. Left: industrial estate where 3 factories are in production and 7 will be finished early next year. Above: Multicore Solders Ltd., designed by W. David Hartley. Below: Alford and Alder Engineers Ltd., designed by W. Leslie Jones. (Both collaborated with the Corporation's chief architect, H. Kellett Ablett, who planned the estate.) Bottom: Adeyfield Neighbourhood Centre (shops shown opposite). It will be finished next year.







PARIS

Meeting of International Union of Architects

The executive committee of the International Union of Architects, which has been given an office in the Ecole Nationale Supérieure des Beaux-Arts by the French Government, met in Paris recently.

The formation of two new committees and a sub-committee was approved. One committee, which will include members who are not architects, will examine possibilities of collaboration between architects and specialists in other arts; the other will examine the relationships between architects and civil engineers. The sub-committee (M. Vago, M. Ceus, the Hon. Godfrey Samuel and M. Tchumi) will prepare for the third congress, to be held in Lisbon in 1953.

NFBTE

"Sweep Licensing Away" says President

Licensing should be swept away altogether; if not the present limit of £100 should be raised considerably, particularly for works of conversion, maintenance and repair.

of conversion, maintenance and repair.
This is the opinion of J. Ian Robertson, president of the NFBTE, who spoke last week at the annual dinner, at the Dorchester, London, of the National Association of Shop-fitters. He was confident, he said, that action on these lines would not, in view of the shortages of some materials and the policy of restrictive credits, lead to any appreciable increase in the volume of work. But it would enable employers in the building trades to plan in advance and it would lead to substantial economies in administration, and the release, therefore, for really useful work of the staffs who were still trying to work the present licensing machinery.

SCOTLAND

Building Allocations

The Secretary of State has told Scottish local authorities that to make easier the expansion of the housing programme he has decided to make the present arrangements for authorizing the building of additional houses more flexible. For this purpose the Department of Health for Scotland will, in future, authorize additional instalments of houses in the course of the year where good progress has been made by a local authority.

NEEDLEWORK DEPARTMENT FOR LIBERTY & CO. LTD.,



The new needlework department for Liberty & Co., Ltd., is designed by Hulme Chadwick. The site is about 2 ft. lower than the ground floor level of the rest of the shop and steps down were previously immediately adjacent to the two entrances. The position of these steps was found to deter customers and the new plan includes a platform extending to the higher floor level so that the steps occur well within the new department. The space between the two flights is enclosed to form a stock room and the partition wall is pierced to form a large recessed display, which is seen in the photograph, left. The three island piers, seen below and on the opposite page, are surrounded by a tubular steel framework, the vertical members being drilled to provide fixings for adjustable shelves and the top ring carrying six light fittings. Knitting wool is displayed in "honeycomb" cupboards lit from the projecting canopy, with divisions of obeche. Spindle-legged tables have mahogany veneered tops and legs REG

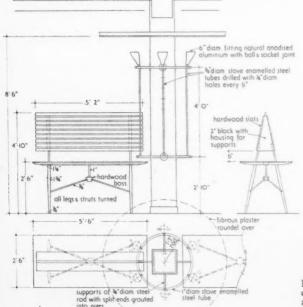
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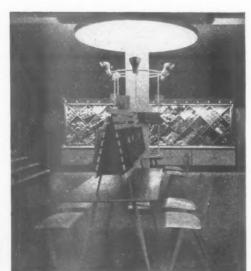
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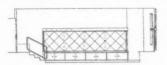
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Plan, section and elevation of table and end column [Scale: \frac{1}{2}" = 1'0"



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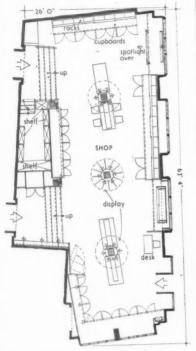
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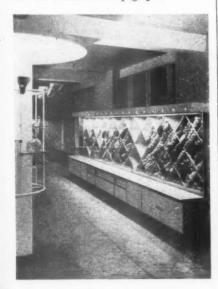
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Plan [Scale: 4" = 1'0"]

and struts in beech. The colours used are eau de nil for the ceiling, blue-grey for the carpet; walls, pale grey and lime green. Columns and framework, white; edge of plaster roundels, golden yellow. The general contractors were Frank W. Clifford, Ltd. For sub-contractors see page 560.





The new packing station for the Lea Valley Growers' Association in Crossbrook Street, Waltham Cross, Herts., has been designed by Howard Leicester and Partners in association with Bernhardt and Parsons. The new building in which the grading and packing of with Bernhardt and Parsons. thousands of tons of tomatoes will be carried out on a co-operative basis by the local growers, was opened last Thursday by Sir James Turner, President of the National Farmers' Union. The general contractors were Walter Lawrence and Son, Ltd.

Obituar

Edric Neel

We regret to announce the death, at 37, of Edric Neel of Arcon. The following was written by someone who knew him well:—



Edric Neel was the Golden Boy of architecture. Put him in a room with a collec-tion of business men representing different facets of the building industry, give him the floor and within twenty minutes to half an hour, he would have their eyes popping out of their heads and their hands reaching for their cheque books to subscribe to the development and design of the particular ideas he was putting across. This was his real brilliance. He had also a genius for detail and a great knack of assessing a manufacturer's plant and pointing out, after only brief survey, how such plant could be adapted to the particular needs of the project he had in mind. It was these last two faculties which enabled him to build up what must have been one of the most powerful groups of industrialists ever brought brought together in the building industry

So many architects have sat down and designed some ideal theoretical pre-fabricated house, school class-room or other structure; Edric Neel was perhaps the first to realise the futility of designing in the abstract without carrying those people, whose job it would ultimately be to manufacture the project, along with him at the same time. development was ever attempted amongst the Arcon Group without at least two or three manufacturers expressing their willing-

ness to co-operate and their capacity to produce should the experimental stages of the development prove that the article was both practicable and saleable.

Mr. Neel had a fairly normal architectural upbringing-three years at Cambridge School of Architecture and, thereafter, earning his living and working for his final exam which he took externally at the RIBA. It was not until he joined the Cement and Concrete Association at the outbreak of the war
—poor health prevented him from joining
the Forces—that he realised the full possibilities resulting from an architect's close co-operation with building trade manufacturers. He subsequently decided, in the latter part of 1942, after a short period working with Donald Gibson at Coventry on a pre-Donald Gibson at Coventry on a pre-fabricated house project which the City Corporation was then backing, to launch out on his own and to collect together manufac-turers representing all fields of the building industry. At this time, after discussing his industry. At this time, after discussing his ideas with a number of architects, he formed the Arcon partnership with Raglan Squire and Rodney Thomas in the spring of 1943. He was cut off in his prime and all who knew him and his family will feel the very greatest sympathy for the wife and three children he leaves behind.

R. S.

Exhibition of Colour and Lighting in Industry. At BCC, 13 Portman Square, W.1. To be opened by David Eccles at 12 noon on May 2. Monday to Friday: 10 a.m. to 4 p.m. Saturdays: 9.30 a.m. to 1 p.m.

UNTIL MAY 30

Exhibition of Dual-Purpose Rooms. At Heal and Son, 196, Tottenham Court Road, W.1. Usual shopping hours.

UNTIL MAY 31 The London Plan. Arthur King. Chairman, Professor Sir Patrick Abercrombie. At Dennison House, Vauxhall Bridge Road, S.W.1. (Sponsor: ABT.) 7.15 p.m.

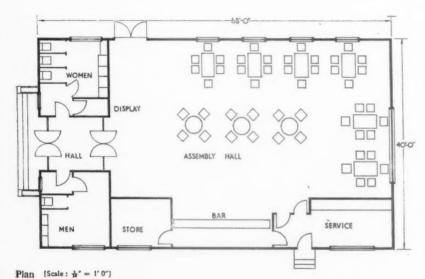
The Place of a Modern Road System in the National Economy. Christopher T. Brunner. At ICE, Great George Street, S.W.1. (Sponsor: TPI.) 5.30 p.m.

MAY 8 New Attitude to Landscape Design. By Frank Clark. At 28, King Street, Covent Garden, W.C.2. (Sponsor: TCPA, Students' Planning Group.) 6.30 p.m.

Pavilion, Eastbourne. Those wishing to attend should write to: The Secretary, IES, 32, Victoria Street, London, S.W.1. MAY 20-23

ASSEMBLY ROOM THE GUINNESS BREWERY. PARK ROYAL





An assembly room at the Guinness Brewery, Park Royal, has been constructed in a standard wooden hut, which was made of reclaimed material, and is designed by Margaret Casson. Left is a close-up view of the bar showing specially designed lamp shades supported on brass fittings and recessed shelving for bottles with concealed lighting. Below, left, is a view towards the main window, covered, in this photograph, by a large curtain which is lime green colour and a heavy quilted texture. The panelling shown is in polished Gaboon mahogany and the floor is covered with cork tiles. Wall and soffit on left are covered with a wallpaper specially designed by Mrs. E. Q. Nicholson, based on a hop leaf pattern in grey and buff. Windows down the left hand wall are not curtained but are fitted with metal venetian blinds. The standard wooden furniture is in beech, with upholstered seats to the chairs. Below is a view looking towards the main entrance, showing glass doors and a lobby beyond. panelling has joints tongued and grooved, with plain chamfered face moulding designed to conceal any slight shrinking or expansion. The contractors were Cockade Ltd.





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Extracts from speeches and lectures given before societies are dealt with under this title.

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Reg Butler

April 17. Talk on Sculpture in Gardens. At Housing Centre, 17, Suffolk Street, S.W.1. 6 p.m.

The use of sculpture in relation to garden planning should involve a fundamentally two-sided approach: first of all the sculpture must perform a useful function in the garden-scape considered as a whole, and then, since the sort of sculpture we are consider-ing will always be a work of art in its own right, what is achieved in the total scheme must be without expense to the proper set-ting of the sculpture. More than this, it seems that a fully satisfactory solution to the

seems that a fully satisfactory solution to the landscape architect's problem should automatically involve the most sympathetic solution to that of providing the best environment for the sculpture.

Now, as I see it, this is also the problem involved in using sculpture in relation to architecture, and I don't think it will be out of place for me to say here that I am completely and absolutely convinced that it is a grave mistake to imagine that sculpture a grave mistake to imagine that sculpture can any longer be commissioned in the accepted sense of that word.

For the past hundred years or thereabouts

the artist has become increasingly concerned with the element of personal discovery inherent in all art, and today most artists, worth the name, are working on the very threshold of human commun.cat.on so that, for them, the interpretation of an already tangible verbal concept in plastic terms is no longer a sufficiently stimu ating reason

no longer a sufficiently stimu.ating reason for the labour of creation.
You cannot, any longer, get an acceptable work of art by the simple expedient of asking Mr. X to produce a sculpture symbolizing "the sanctity of family life"; "man's struggle with the forces of nature"; or whatever! But this does not mean that contemporary art is irrelevant to all this; quite the reverse: so called non-objective or abstract art is today as fruitless as the Pre-Raphaelite cul-de-sac. What I mean is that you can't get the results you want by asking for them; they have got to grow out of the artist's personal preoccupations.

ARCHITECT AND ARTIST

I hold the firmest conviction that the only possible relation between the architect and the artist today must be based on an acceptance of the necessity for æsthetic experimentation in the seclus on of the artists personal life; and that the link with the personal life; and that the link with the architect must be through the shop window of the artist's studio. The contemporary artist is, and should be, fully pre-occupied with his search for a valid statement, and the architect is the real expert at relating the elements involved in the association of building garden and sculpture. It is up to building, garden and sculpture. It is up to

the architect to visit the artist, discover whether in fact the results of the artist's labours are meaningful, to him, and where this is so, to use the products of the artist in architectural schemes.

Perhaps I can make this a little clearer by an imaginary example: Mr. A., the architect, feels that the formal meaning of his scheme would be given greater significance by the inclusion of a piece of sculpture at a certain point in his plan. He has a fairly clear idea about what is required, in the sense that a sculpture of mass and linear forms about eight feet high would be necessary for the formal statement he wishes to make. More formal statement he wishes to make than this, he is a man of sensibility and intelligence. Of sensibility, because he finds in contemporary painting and sculpture a source of pleasure and stimulation, and of intelligence, because he has long ago realized that if he is to produce worth while archi-tecture, much committee work, much tech-nological work must be delegated to other members of his firm, so that he may have both the time and the vitality to interest himself in other arts.

self in other arts.

All right, he is stimulated by, and sympathetic to the work of two sculptors, Mr. S. and Mr. Z. He visits their studios from time to time, and he knows that at the moment Mr. S's preoccupations are resulting in maquettes for works of about this size, while Mr. Z is at this time much more concerned. Mr. Z. is at this time much more concerned with smaller works. Moreover, the character of Mr. S's work is in some intangible way, he feels, the kind of thing which ties up

with the architectural problem he is working on.

So in due course ne visits Mr. S., asks to be shown what he is working on, sees a maquette which he likes, and establishes that Mr. S. has always looked upon it as an idea for a work of about the size required. The maquette is then tried out in a model mock-up of the part of the building in which it is to go, and everyone agrees to go ahead.

PRACTICAL CO-OPERATION

Now I suggest that this is an entirely practical approach to the problem of co-operation, and that it has the following con-siderable advantages:

The architect gets what he wants: because

he has been able to see ahead, exactly the character of the sculpture in its setting.

The placing of the sculpture is going to be the best possible because, after all, the relation of elements at the architectural level is the architect's vocation, and since he is a good architect he does this well.

The sculptor has been able to realize at the right scale a work which has come wholly from his interest and preoccupation

wholly from his interest and preoccupation with sculpture.

The sculptor's entire efforts have been directed towards the sculptural solution of his idea, he has not been asked to solve an architectural problem for which he is not fitted because the sculpture of fitted—because he is neither by inclination nor training an architect.

All this you may say depends for its success on the architect being a good



This photograph of a Renoir sculpture, "La Grande Laveuse," was one used by Reg Butler to illustrate his talk. In this setting, he pointed out, "the dynamic staccato handwriting of the sculpture is wonderfully reflected in the texture of the background." The same work is seen in a different setting in the background of the picture on page 534.

architect, by why not? And in any case the results of sculptors playing at being architects are unlikely to yield better results.

The practical problem of relating sculpture to garden layout can either be approached by considering certain fundamental requirements for the siting of sculpture, and then seeing how these may be met by the sort of setting a garden offers, or, one may begin by posing a landscape problem and then seeing to what extent the use of sculpture can contribute a solution. Either approach offers advantages and disadvantages, so I propose to dodge backwards and forwards, now thinking of giving sculpture the best possible setting, now considering the landscape architect's demands.

SCULPTURE'S SURROUNDINGS

I think the most tricky situation occurs where a sculpture near life-size is involved. A sculpture is of necessity an inanimate thing (mobiles are, of course, the exception) and this absence of life has the effect of reducing the apparent physical value. Another and perhaps more fundamental reason is due to the fact that art, if it is really art, is always artificial. The colossal—or at least well over life-size—work stands in its own right just because it is sufficiently remote from competition with life and in the same way the really small figure—say under 3 ft. high—introduces one to a world of its own, equally remote from competition with the normal physical world.

I would say, therefore, avoid the life-size compositions wherever you can, particularly in the open air, and where one must be used, endeavour by means of planting and siting generally to keep the scale of the surroundings as near to that of an interior as possible.

Two contrasting examples of satisfactory relationship between sculpture and surroundings occurred in the Battersea Park exhibitions of 1948 and 1951. The large hieratic figure by Lipchitz evoked a personage entirely in its own right; it stood up completely satisfactorily both to its surroundings and to comparison with the people who moved around it. Truly monumental sculpture is much rarer than is generally supposed, and where the garden in question is large, as in the case of public parks, works having this strong, bold, uncompromising character are essential for exposed positions.

The minute work by Giacometti is right at the other extreme. Prior to seeing it in Battersea last year few people would have believed that a bronze group only a matter of 18 inches high would have had any meaning what year in the onen air.

of 18 inches high would have had any meaning whatever in the open air.

I think, however, that just because the work as a whole is quite meaningless until one is almost within touching distance and because it was placed intelligently (not as something to close a vista nor in competition with a 30-ft, tree), it provided an entirely extraction of the provided an entirely extraction of the provided an entirely extraction of the provided an entirely extraction.

triely satisfactory asthetic experience.

This suggests to me that much more use could be made of really small sculptures to give greater meaning to corners of gardens, where, even though they have no visual significance from a distance, the knowledge that they are there enormously augments one's interest. For instance, the head by Modigliani shown in the open air in Battersea in 1948 looked completely right in its setting.

Consideration of the need for a proper sense of scale within a work itself is of course outside the scope of this paper, but where a sculpture has to fulfil two formal requirements great difficulties do arise, difficulties which may only be overcome by selecting a sculpture in which the total formal conception is completely backed-up by the artist's sense of detail.

From the landscape architect's angle 1

From the landscape architect's angle I suppose sculpture seen from a distance usually offers the greatest formal possibilities; and it seems to me that there is at least one very exciting function which such an arrangement can fulfil.

HOUSE-GARDEN RELATIONSHIP

Contemporary architectural thought acknowledges the value of a house-garden relationship which arranges for a gradual transition from one to the other. Nothing gives a pleasanter sensation than to sit on a loggia and feel behind one a subtle progression inwards towards the ultimate cosiness of a fireside, and in front, the equally gradual release towards the cool freedom of a distant lawn.

I believe that a sensitive use of sculpture can do a great deal to negotiate this sort of transition. A sculpture can provide a formal element which may be read vertically above the garden surface, reflecting perhaps the characteristic space sense of the house and extending its humanistic meaning into the gardenscape. Moreover, it can do this in a way quite impossible by any other means; for a clump of shrubs may well have the right informal quality and yet be too remote in character from the house, while more architectural elements would fail to make a sufficiently subtle yet exciting transition. How often for instance does one see a photograph of a house by, say, Mies van der Rohe, in which two or three chairs have been carefully arranged for just this purpose, and how much better would a sculpture have fulfilled this requirement.

Like the early Greeks many people besides sculptors are extremely anthropocentric. For them the landscape is not itself enough. It only achieves full mean-

ing when it becomes a setting for human activity, and because of this I suppose an empty garden in late autumn is often intolerably dreary. For this same reason I think the wind-swept loggia viewed from the warm side of a double glazing takes on additional meaning when it is the permanent home for a sculpture, something humanistic giving it justification even in mid December.

DIRECTION OF DEVELOPMENT

Again, the direction of development of a garden-scape can often by pointed by the sensitive placing of a sculpture, arranged to imply by its presence the larger pattern of the scheme. (Mr. Butler illustrated this point with a photograph that appears on page 534.)

This is not the place to say much about different kinds of sculpture and anyway on that question I feel entitled to be thoroughly narrow-minded, Nevertheless. I am quite sure than all kinds and persuasions from a ruthless non-figurative abstraction of Max Bill to the equally extreme examples of contemporary romanticism, are capable of contributing to garden-scape problems, if only as elements of dissonance, incongruity or surprise.

of dissonance, incongruity or surprise.

But of one thing I am certain, the work of art which stands in a garden, and stands comparison with surrounding nature survives a test far more stringent than it will ever meet elsewhere.

This week Mr. Watkins discusses the Housing Bill, which is also the subject of the editorial on page 535 of this issue.

ERNEST WATKINS

The Architect and Current Affairs

The Housing Bill has been given its second reading without a division. The Bill is short. Clause I increases the amount of the Exchequer subsidy in respect of houses completed after February 28 by some 40 to 45 per cent. of the former rates. Clause 2 brings into the category of houses that are qualified to receive an improvement grant those which are let on service contracts. The Labour Government excluded them from any such grant, on principle, in its 1946 Housing Act. Clause 3 sets out the terms on which local authorities may sell the houses they have built (both now and before the war) and Clause 4 provides machinery by which any restrictions to be imposed on the purchasers of council houses may be enforced. The attitude of the Opposition (at least, that of Mr. de Freitas-Mr. Bevan saw more harm in the Bill than anyone else managed to discover) was that it would not divide against the Bill on the second reading but that it would seek to eliminate Clause 3 during the committee stage of the Bill.

Clause 3, the clause that, in effect, will allow those local authorities who wish to do so to sell their houses, is a hybrid. Local authorities may sell their houses now, with the consent of a Minister, but,

if they do so, as the law now stands they must demand a price equal to the full value. The Labour Government refused to give any permission to sell houses. This Government wishes to give the authority freedom of decision, but to relieve the authority from the need to insist on the full value of the house. No one could say that to demand this price would be fair to the sitting council tenant who wanted to buy. Council houses are not subject to the Rent Acts. Their full value to day is the price they would fetch with vacant possession, which is exactly what they are not being sold with. Clause 3 would leave the Minister to direct the terms on which they are to be sold, and Clause 4 requires the purchaser to accept limitations on his right to deal with the house during the first four years after his purchase of it.

If it is a good thing to allow council tenants to buy their homes, are the limitations proposed by the Bill sufficient? Is four years too short a time to bind the purchaser with restrictions on his right to re-sell or let? Will that not mean that he can make a capital profit after the four years are up, by selling with vacant possession? It might also be asked whether the method of fixing the rent at which the house may be let during the four years is sound. The council fixes a rent and that rent "for the purposes of the Rent Restriction Acts" becomes the standard rent for the four years. But why only after that period? Can another standard rent come into existence after that? Or does Mr. Macmillan hope that the whole of the Rent Restriction Acts will have been reviewed and recast within

the four years?

POLICE FLATS

in EFFRA ROAD, BRIXTON, S.W.2 designed by J. INNES ELLIOTT, Chief Architect, New Scotland Yard Senior architect-in-charge, G. B. VINT

Collinson House, at the junction of Effra Road and Brixton Water Lane, provides living quarters for married policemen and their families in 16 flats. The site has an area of approximately $\frac{3}{4}$ of an acre and a reasonable development has been possible due to a modification of the restrictive building line imposed under the Rush Common Act. This modified line permits the building to align with a block of flats to the north and is the main reason for the large garden forecourt.

Looking north-west from the road junction.



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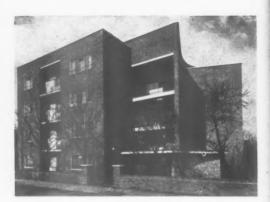
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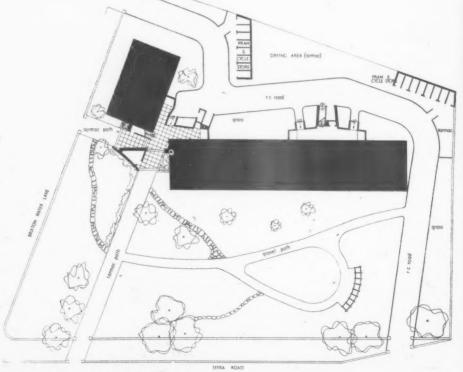
Above, the east facade, which faces Effra Road. Top, right, the link between the north and south blocks. Bottom, right, the south block, seen from Brixton Water Lane.

PLAN.—Access is by two open staircases, each serving 8 flats and there are short private access balconies to each flat, on which fuel stores are provided. All flats are identical and each contains an entrance hall, living room, three bedrooms,

kitchen, bathroom, w.c. and a private balcony. An essential requirement was the segregation of the sleeping area of each flat from the living area and the provision of reasonably quiet principal bedrooms in view of the nature of a policeman's duties, which

POLICE FLATS

in EFFRA ROAD, BRIXTON designed by J. INNES ELLIOTT



Site plan





VENTILATION NATURAL

The Architects' Journal Library of Information Sheets 361. Editor: Cotterell Butler, A.R.I.B.A.



30.D21 POWER-OPERATED ROOF VENTILATING SHUTTERS (Patent Nos. 536127, 536942, 536943)

This Sheet describes Hills patent roof ventilating shutters which have been designed for use in industrial buildings where heavy concentrations of heat and smoke have to be cleared quickly or where a consistent level of ventilation is required. The shutters form a part of the actual roof surface which may be com-

pletely opened up to the sky.

A vertical type wall ventilator for providing controlled air inlets where necessary is described on Sheet 30 D20

Principle

Heat and fumes normally concentrate in the roof space above or near their source and shutter batteries are so placed as to extract these concentrations before they lose their thermal velocity and disperse. The function of the louvres, besides providing an opening, is to act as extraction vanes, controlling convection currents inside and outside the building and creating a draught to extract fumes and smoke. In this way use is made of prevailing winds, roof eddies and other natural conditions, as well as of the artificial ones produced by thermal activity inside the building.

General Design

The shutters consist of a series of corrugated metal or plastic louvres, linked together and electrically operated, which may be held at any angle to the roof plane up to a maximum of 65 degrees.

The time taken for the louvres to reach the maximum angle of opening is approximately 11 minutes.

Sizes: Single arrangement—The standard length of one complete single shutter range, operated from one end by a single motor unit, is 22 ft. 7 in., increasing in multiples of 1 ft. 9 in. up to a maximum length of 66 ft. 4 in. 3 ft. of the length is taken up by the motor unit.

Dual arrangement-Two shutter ranges may be arranged with two motor units in the centre. These operate the louvres on either side independently to open in opposite directions. Shutter leaves can be supplied in any depth up to 7ft.

Construction

Louvres: These are made from standard corrugated sheeting of plastic, protected metal or 16 gauge galvanised corrugated steel sheeting of special design. They are arranged to give a two-corrugation side lap when in the closed position. The louvres are pivoted at the top and bottom and all pivots have phosphorbronze self-lubricating bushes.

Gutters: Pressed steel gutters are fixed at the back of the shutters and rolled steel down gutters are provided, at suitable intervals along the shutter length, of sufficient size to carry away the amount of rainwater normally anticipated.

Walkway (optional): This consists of open-type steel flooring supported on a mild steel angle framing and having a tubular steel guard rail at the side.

Operating gear: The motive force for a single shutter range is provided by a geared electric motor supplied to suit the voltage of local power supplies. The shutters are operated by a reversing contactor starter with three push buttons. The extent to which the shutters may open and close is controlled by limit switches.

Fixing

The whole of the fixing, the removal of existing roof coverings and the supply of any additional roof steelwork, is carried out by the manufacturer.

Finish

All exposed surfaces of the structural framework, including back gutters and operating-gear housing, are rustproofed by galvanising.

Further Information

The manufacturer maintains a technical department which is prepared to advise on the general installation of the shutters, their position and the size most suitable for any particular scheme.

Compiled from information supplied by:

Hills (West Bromwich) Limited.

Head Office : Telephone : Telegrams : West Bromwich, Staffs. West Bromwich 1025. Hilsbar

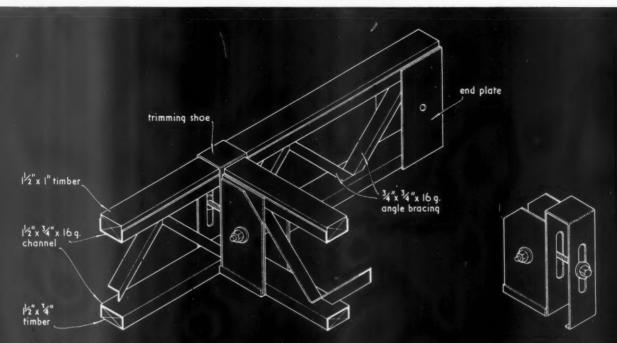
London Office: 125, High Holborn, W.C.1.
Telephone: Holborn 8005.
Branch Offices: Belfast, Birmingham, Bristol, Glasgow, Manchester, Newcastle and Swansea.





FLOOR AND ROOF STRUCTURAL ELEMENTS | STEEL

The Architects' Journal Library of Information Sheets 362. Editor: Cotterell Butler, A.R.I.B.A.



ISOMETRIC SKETCH OF JOIST SHOWING JUNCTION WITH TRIMMER.

DETAIL OF TRIMMER SHOE.



SIDE ELEVATION OF JOIST.



VERTICAL SECTION THRO' JOIST. scale 1/2 full size.

clear span (ft and in.)	crs. of beams (ft. and in.)	safe loads		
		distributed load (lb.)	equivalent load (lb/sq ft.)	
4-0	1-6	820	136	
5-0	1-6	820	109	
6-0	1-6	820	91	
7-0	1-6	820	78	
8-0	1-6	820	68	
9-0	1-6	820	60	
10-0	1-6	820	55	
IJ-O	1-6	820	50	
12-0	1-6	740	41	
12-8	1-6	685	36	
13-2	1-4	612	36	

TABLE SHOWING SAFE LOADS.

20.C12 'SOMMERFELDS' 650 FLOOR JOIST

This Sheet describes Sommerfelds 650 composite steel and timber floor joist. For large span floors and roofs see Sheet 20.C10 on high-tensile steel beams and for trusses, purlins and columns see Sheet 20.C11.

Construction

The chords of the joist are of $1\frac{1}{2}$ in. by $\frac{3}{4}$ in. by 16 gauge mild steel channel, surrounding timber battens. A special method of piercing and squeezing the channel into the batten ensures a secure contact between the steel and timber along the entire length of the joist. The web of the joist consists of $\frac{3}{4}$ in. by $\frac{3}{4}$ in. by 16 gauge angle bracing welded to the channels.

Size

The overall size of the joist is $6\frac{1}{2}$ in. including the timber battens.

Applications

The joists are primarily designed as floor and ceiling joists and fulfil the same function as traditional timber joists.

Fixing

End plates: The 3 in. wide end plates are provided with centre holes to take fixing bolts for connection to steel girders, stanchions, etc.

Trimming shoes: Loose trimming shoes, which may be easily screwed on the site to the end plates of any joist, are available for fixing cross members as shown in the drawings on the face of the Sheet.

Nailing to battens: The top and bottom timber battens enable floors and ceilings to be fixed in the normal way by nailing. For the nailing of floor boards the manufacturers recommend cut nails which should not be longer than the thickness of the boards

plus 1 in. and which should be driven in slightly on the skew.

Loading

A table showing safe loads for various clear spans of joist is given on the face of the Sheet.

Finish

The steelwork of the joist is finished with one coat of red oxide primer.

Grou

Further Information

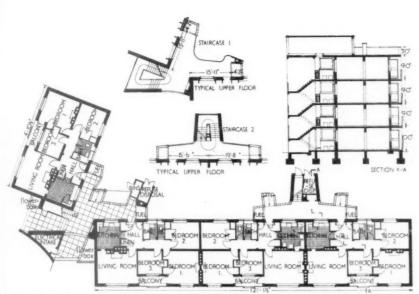
The manufacturer maintains a technical department which is prepared to advise on technical problems dealing with this subject.

Compiled from information supplied by:

Sommerfelds Ltd.

Address: Wellington, Shropshire.
Telephone: Wellington 1000 (5 lines).
London Office: 167, Victoria Street, S.W.1.
Telephone: Victoria 1000.

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Editor: Cotterell Butler, A.R.I.B.A.



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



Typical floor plan of staircase and section [Scale : $\frac{1}{2}$, and $\frac{1}{2}$ = 1'0"]

Below, looking south-east at the staircase link between the two blocks.





POLICE FLATS

in EFFRA ROAD, BRIXTON designed by J. INNES ELLIOTT

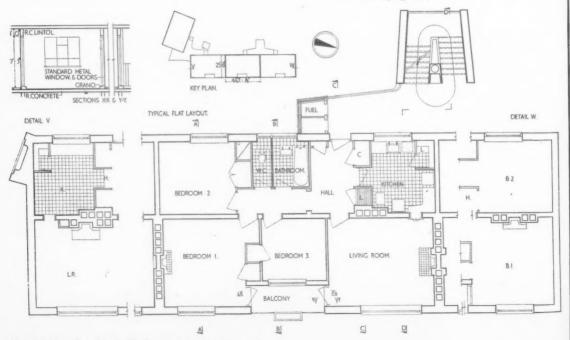
Above, the main entrance, looking north from Brixton Water Lane.

often entail night shifts and the necessity for sleeping during the day. At the rear of the flats is a service road and an electric transformer chamber, pram store and drying area. loa wai

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Typical floor plan, North Block [Scale: $\frac{1}{12}$ " and $\frac{3}{60}$ " (Key) = 1'0"]

CONSTRUCTION.—The exterior walls are 13\frac{3}{2}-in. load-bearing brick walls, with 9-in. brick spine walls. The floors and roofs are of hollow tile construction and internal partitions are of hollow breeze blocks.

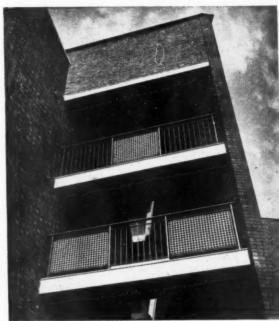
FINISHES.—The main elevations are faced with Ibstock salmon-brown bricks, while for the staircase towers and tank rooms the bricks are Buckinghamshire hand-made, sand-faced, multi-coloured facings. The windows are standard metal casements set in artificial stone surrounds. The recessed private balconies have metal balustrades with a central metal panel. These balconies are painted champagne colour and the balustrading white and blue alternately. The balustrading to access balconies and staircases is painted battleship grey. Floors: boarded in living rooms, red quarry tiles in kitchens, bathrooms and w.c.s and brown composition tiles elsewhere. Living rooms and main bedrooms have tiled open fireplaces.

SERVICES.—Each flat has a domestic water boiler in the kitchen for water heating. Second bedrooms have a fixed electric fire. There is provision for telephone installation in each flat and at each staircase is a refuse chute. The contract price was £36,240, including garden layout.

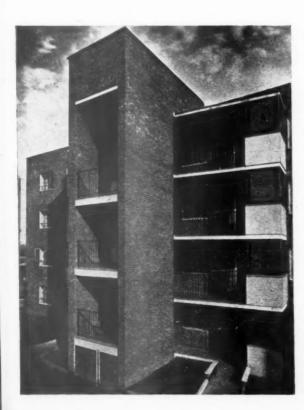
The general contractors were George Parker & Sons, Ltd. For sub-contractors, see page 560.

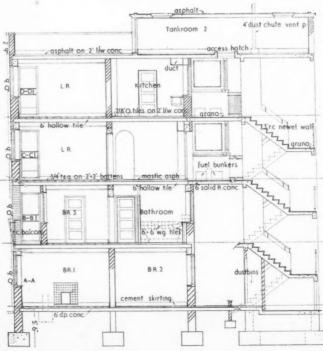
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Right, two views of the main staircase on the south facade. Below, staircase 2 and short access balconies on the west facade.





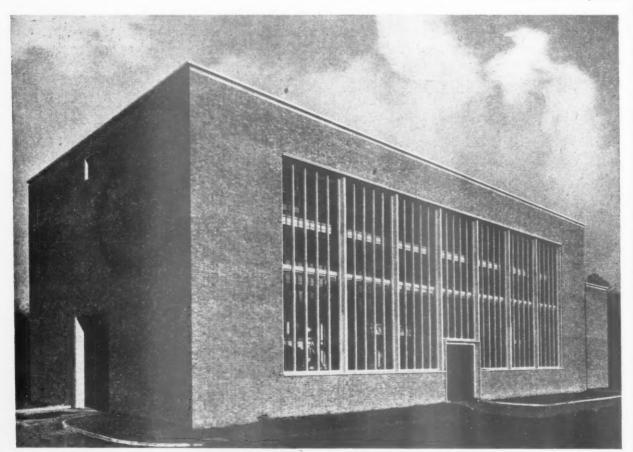
Sections [Scale: 12" = 1'0"]

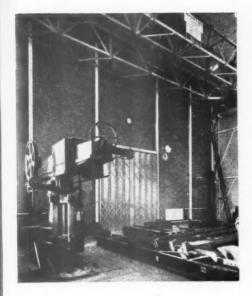
TEST LABORATORY

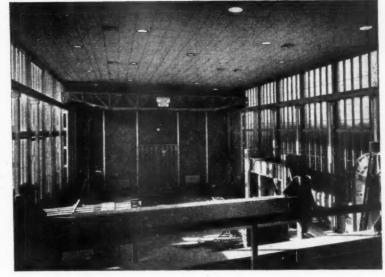
at the BUILDING RESEARCH STATION, GARSTON, WATFORD designed by A. S. REID, Chief Architect's Division, Ministry of Works

The building illustrated here is designed to provide facilities for testing the strength of various materials to failure by the use of heavy test and racking frame equipment. The site was chosen in relation to present and future development at the BRS and the building forms part of a group for experimental test purposes. A future structures test laboratory is planned on an adjacent site.

The south and west facades.



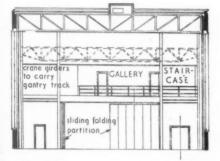




Above, left, the west end of the test house. Above, the main test house from the first floor gallery.

PLAN.—The building contains a large area for test frames, a small workshop, laboratory and offices on the first floor opening off a gallery intended for observation purposes.

CONSTRUCTION.—The main test house is steel framed with brick panel walls and vertical patent glazing. Floors are concrete and the steel roof deck is supported on lattice girders with a false ceiling at the underside of the girders to allow ventilation and to give added thermal insulation.



Section B-B

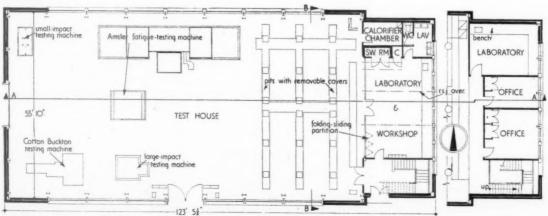
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test

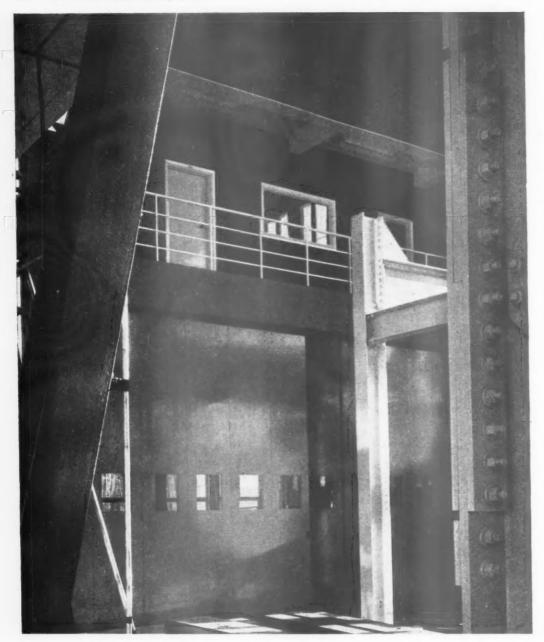
ades.



Section A-A



Ground and first floor plans [Scale : $\frac{1}{24}$ " = 1'0"]



Above, the first floor gallery at the east end of the test house. Right, the vertical patent glazing, south facade.

TEST LABORATORY

at the BRS, GARSTON, WATFORD designed by A. S. REID,

Chief Architect's Division, MOW

FINISHES.—Walls are faced externally with London stock bricks and the roof is finished with three layers bituminous felt and asphalt. Building and equipment colours were by BRS by arrangement with the MOW. The main object was to allow the fullest prominence to the colours of the objects under test (normally white-washed plaster, concrete and burnt clay colours) and to give sufficient emphasis to the main architectural features. Four main colours were used; window frames and structural steel, light cream; end walls, olive green; window walls, light grey and equipment, light admiralty grey. Electric and hydraulic gear is French blue. The general contractors were Haymills. (Contractors) Ltd. For sub-contractors see page 560.



TECHNICAL SECTION

Those who study the JOURNAL'S "Prices" each quarter will notice this week the usual increases in materials' prices. A minor controversy is now raging in the correspondence column of our contemporary, THE BUILDER, as to how much building costs have gone up since 1939; estimates of the increase vary from 175 per cent. to 225 per cent.

It is extremely difficult to analyse the reasons for this increase, but, since rates of wages have gone up on the average by only 122 per cent., it is clear that the cost of materials must have gone up by at least twice this amount. Now, the principal factor in winning materials and converting them into building products is labour, and in many quarters the question is being asked: "Why are building materials so dear?"

R. FITZMAURICE

This week's special article

MATERIALS : MISCELLANEOUS high strength brickwork

The number preceding the week's special article or survey indicates the appropriate subject heading of the Information Centre to which the article or survey belongs. The complete list of these headings is printed from time-to-time. To each survey is appended a list of recently-published and relevant Information Centre items. Further and earlier information can be found by referring to the index published free each year. In this week's article, which comes from the Technical Information Service, MOW, the use of high strength brickwork in several fivestorey flats is described. Apart from saving steel, the brickwork is designed to close limits which enable the materials to be used economically.

For many years it has been usual to build structures of more than two storeys high as framed buildings, using brickwork for infilling purposes only. Today, however, shortage of steel has, in some instances, induced designers to abandon steel and reinforced concrete frames in favour of load-bearing brickwork. But this has not meant a reversion to the brickwork of a century ago. The practice then was to build, in lime mortar, comparatively thick which, because of their thickness, could sustain far greater loads than they were called upon to bear. Modern highstrength brickwork is built with cement mortar and is designed according to engineering principles: the walls are no

thicker than engineering calculations show that they need to be, allowing a reasonable factor of safety.

MODERN PRACTICE

Recently, a number of five-storey blocks of flats have been built with $13\frac{1}{2}$ in. walls, diminishing to 9 in. in the upper storeys. They were designed in accordance with the recommendations of the British Standard Code of Practice 111.101: Masonry, including brickwork, unreinforced, using bricks with a minimum crushing strength of 3,000 lb. per sq. in. and a cement mortar that was theoretically almost as strong as the bricks. Another interesting development in this field is the design of a number of five-storey blocks of flats, in which no wall is thicker than 9 in. of brickwork. To make this possible all the inner walls, including those normally built as thin, non-loadbearing partitions, will also be loadbearing walls in 9 in. brickwork; the floors and roofs have been designed to take advantage of these extra means of support.

High strength brickwork is designed to close limits so as to effect the utmost economy in the use of materials. Because of these close limits in one scheme the designer considered it necessary to line the air-brick opening with steel boxes. In the blocks of flats with 9-in. walls the ground storey will be built in

engineering bricks.

It is clear that only the best materials and the highest standard of workmanship will do. Unfortunately, experience has shown that this standard is not always attained. In a recent series of tests of brickwork designed to a crushing strength of 3,000 lb. per sq. in., the strength of sections cut from the brickwork varied from 1,280 lb. to 680 lb. per sq. in., and in another series results ranged from 1,390 lb. to 820 lb. per sq. in. In tests of the mortar alone one series gave crushing strengths varying from 2,740 lb. to 630 lb. per sq. in., and in another series the range was from 3,430 lb. to 980 lb. per sq. in. A factor of safety to cover such wide variations would be very wasteful of materials and would rule out high strength brickwork on economic grounds.

MORTAR

In almost every case, the low strength was due to imperfect bedding of the bricks or to badly-mixed mortar. Both these defects can be avoided by sound workmanship and good organization, but there are difficulties in using the kind of mortar necessary for this type of work. In order to obtain the required strength a straight cement-sand mortar is generally specified and the use of

washed sand is insisted on instead of the soft building sand of ordinary mortar mixes. With such a mix the mortar is harsh and difficult to work, yet for high-strength brickwork it is essential to obtain a good level bed, to flush up all vertical joints thoroughly and to ensure that everything is properly bedded in mortar, especially such structural elements as precast concrete floor beams. If all this is not done very thoroughly the work will fall below the design strength—perhaps dangerously below it.

Mortar of the necessary strength can, however, be obtained with mixes giving better workability. The addition of a small proportion of lime, up to one quarter of the cement content, will effect an improvement. There is no advantage in using mortar that is stronger than it need be and design requirements can be met by specifying appropriate cement-sand mixes improved in this way. Nevertheless, the mortar will still be more difficult to use than lime-cement mixes made with ordinary building sand. It may be necessary to resort to grouting the vertical joints as the work rises, though this should not be done unless it is found to be the only way of completely

filling all the joints.

The mortar must have the same strength throughout each batch and there must be no serious variation in strength from batch to batch. Great care must therefore be taken in mixing, and the mortar must be used while it is fresh. Like all cement mortar it should not be used after the initial set has taken place and must not be retempered with water or batched up with freshly mixed stuff. It cannot be mixed in bulk; a fresh batch must be knocked up at least every two hours and shorter intervals are better if they can be arranged. As the quantity required at any one time is small it may not always be economic to use a mixer specially for it. For hand mixing a

proper mixing platform must be provided and two men are generally required for turning the materials at least twice dry and twice wet.

OTHER PRECAUTIONS

The careful workmanship required throughout this kind of work has its counterpart in the attention that must be given to the details of organization which make it practicable. The main consideration is that the rate of bricklaying will inevitably be slower than on panel walling or housing work and that the special conditions should be recognized in any incentive scheme adopted.

The walls should rise together and more scaffolding may therefore be needed in the early stages. It is extremely important to keep the courses level and the walls accurately vertical; with the heavy bricks sometimes used there is more risk of settlement and the brickwork should not be raised more than seven or eight courses a day. This may mean that each bricklayer will be working over a greater length of walling than is usual, with bricks stacked at more points and with a greater number of spotboards. In such cases bricks and mortar would have to be carried over longer distances and greater use of hoists and special brickbarrows might prove an advantage.

High strength brickwork demands careful workmanship and close attention to detail in fulfilling the specification. In spite of its drawbacks, it can be a very useful and economical form of construction; given the conditions set out above, it can compete with structural steel and with reinforced concrete, to the considerable advantage of the public, local authorities and all in the building industry. Troubles and delay can be avoided if architects, contractors, foremen, craftsmen and labourers all understand how it differs from normal brickwork and why such meticulous care is essential.

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8 ESTIMATING materials prices

Current prices for measured work will appear on May 15. Prices of materials and measured work last appeared in the Journal on January 31 and February 7 respectively.

Current rates of wages and market prices of materials prepared by Davis Belfield and Everest, Chartered Quantity Surveyors.

Rates of Wages last rose on February 4, 1952, and are now as follows:—

LONDON DISTRICT		Craftsmen.	Labourers.
Within 12 miles radius	** **	3s. 6d.	3s. $0\frac{1}{2}$ d.
From 12-15 ,, ,,		3s. 5½d.	3s. 0d.
LIVERPOOL and DISTRICT		3s. 6d.	3s. $0\frac{1}{2}d$
GRADE CLASSIFICATIONS A	A^1	A^2	A^3
Craftsmen 3s. $4\frac{1}{2}$ d.	3s. 4d.	3s. 3½d.	3s. 3d.
Labourers 2s. 11d.	2s. 10½d.	2s. 10d.	2s. 9½d.

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REDALON Liquid

25 years' experience have proved that Redalon Cement Retarder is

The cheapest and most efficient method of obtaining a key

Redalon is perfectly safe to use and can be applied to wood or steel shuttering

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Prices v

CONC

Portland
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Steel w

BRIC

Third s Rough Mild st Sand li Phorps

Hand-Stocks
Stocks
South
Dorkin

South pres *Blue

White Hea Stre

Plus d

Prices vary according to quality and the quantity ordered.

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

CONCRETOR

Command

	(ements				
						6 tons and over.
Portland to B.S. 12		****	****	per ton	****	99/9
Rapid hardening to B.S. 12		****	****	**	****	107/9
Aquacrete water repellant		****	****	99	****	132/3
Above prices include for	deliv	ery to (Charin	g Cross	in no	n-returnabl
paper bags or cotton sacks						
Snowcrete (minimum 1-to	n lot	s), per t	on, 26	7/3 (inc	ludin	g bags).

Aggregate and Sands, etc. (Full Loads)

4" (Down) Washed, cru	shed and grad	ded shingle	,	
to B.S. 882, Table			per yard cube	18/3
1½" Ditto		****		17/3
A" Sharp washed sand	to B.S. 882,	Table 3		20/10
Brick hardcore	****	****	per yard cube	9/-

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

Floor Blocks

				1	GOOL DIOCKS			
						4"	6"	7"
Floor blocks,	12"	×	12"		per 1,000	653/-	882/-	1019/-

Reinforcement

Home trade maximum basis prods to B.S. 785, §" diameter	and up	wards						
mills delivered to station or	siding	****		per	ton	£31	19	0
Extras for :				*				
Under 5" to 7" diameter			****	per	ton	£1	7	0
Ditto 7 and over " diame	ter			per	ton	£1	14	6
" and over H" diameter	****			per	ton	£2	2	0
H" and over A" diameter	****		****	per	ton	£2	9	6
👬 and over 🧩 diameter		****		per	ton	£2	17	0
A" and over I" diameter	****			per	ton	£3	4	6
diameter		****	****		ton	£3	12	0
Under 1" to 4" diameter				per	ton	£5	2	0

Fabric Reinforcement

16.35 lb.	9.32 lb.	4.71 lb.	1.83 lb.
Steel wire mesh fabric to B.S.			
1221, Part A per yd. super. 7/83	4/5	$2/3\frac{3}{8}$	1/57

Common Bricks

BRICKLAYER

3/6

Third stocks	****	****	****	****	****	****	per 1,000	118/10	
Rough stocks	****	****	****	****	****		per 1,000	150/4	
Mild stocks		****	****	****	****	****	per 1,000	202/4	
Sand limes	****		****	****	****		per 1,000	106/-	
Phorpres press	sed F	lettons	****	****	****	****	per 1,000	105/3	
-			Fac	ing Bri	cks				
Hand-selected	sand	limes	****	****			per 1,000	135/3	
Phorpres rusti	c Fle	ttons	****	****	****	****	man 1 000	130/3	
Stocks, first h	ard	****	****	****	****	****	per 1,000	237/4	
Stocks, second	hard	1		****	****		per 1,000	227/4	
Southwater pr	ressed	sandfa	ced re	ds			per 1,000	272/-	
D 1.	od oo	ndfood	multi	coloure	d facin	gs	per 1.000	227/6	

Engineering Bricks

Lingfield engineering wirecuts. Grade 'B' Southwater engineering No. 2 (second quality	red	per	1,000	206/-
pressed)		per	1,000	269/6
*Blue pressed bricks to B.S. 1301		per	1,000	362/-
* Haulage extra				

Glazed Bricks

		Glazed	Bri	cks						-	
					Best	que	ality	Se	con	ds	
					£	8.	d.	£	8.	d.	
White, Ivory or	Brown, 9" ×	27" ×	444	,							
Headers	****				39	10	0	37	10	0	
Stretchers				1,000	40	0	0	38	0	0	
	Prices for g	lazed	brick	ks +	50%	, 80	conds.				
				+	55%	, be	ests.				
Plus delivery c'a	arge in Loal	1 1:3	to?								

BRICKLAYER—(continued)

Limes and Sands

				1 ton lots.
†Lime, greystone, to B.S. 890	****	****	per ton	106/6
Lime, chalk, ditto	241	****	per ton	106/6
*Lime, hydrated, ditto	****	****	per ton	127/6
Washed pit sand to B.S. 1200		****	per yard cube	20/10
 Including paper bags. 				
†Hire of jute sacks charged	at 1/6	and	credited at 1/6.	If left, charged
at 1/9.				

Sundries

10 s.w. gauge galvanized butterfly type wall ties to	50.00
B.S. 1243 per 1,000	110/-
Wall ties, galvanized, 8" × \frac{3}{2}" × \frac{1}{2}", to B.S. 1243 per cwt.	111/9
Damp proof course slates : Imported We	
Size 14" × 9" per 100 43/6 7	2/-
,, 14" × 4½" per 100 21/- 3	3/9
Hessian base bitumen damp course to B.S.	
743 per yard super	5/9
$9'' \times 3''$ $9'' \times 6''$	$9'' \times 9''$
Terra-cotta airbricks each 1/3 2/6	6/-
Galvanized cast-iron airbricks each 3/8 6/1	
Galvanized cast-iron hit-and-miss	
ventilators each 3/7 6/10	8/11
Buff terra-cotta chimney 1' 0" 1' 6" 2' 0" 2' 6" 3' 6"	5' 0"
pots each 6/11 8/7 12/2 16/1 35/6	59/10
Wall reinforcement supplied in standard rolls containing 25 yar	
‡2" wide black japanned per roll	
‡2½" wide black japanned per roll	
Creater widths pro rata 21" price, carriage paid on order	rs of £7.
Discount for quantities.	

Partitions, etc.

Breeze to B.S. 492 Hollow clay to B.S.	per	yard super	$\frac{2''}{3/10}$	$\frac{2\frac{1}{2}''}{\frac{1}{2}}$	$\frac{3''}{4/11\frac{1}{2}}$	4 1 * 6/5
Ditto, smooth	per	yard super yard super yard super		$\frac{4/4}{12/10}$	$\frac{4/10}{5/2}$ $\frac{14/3}{}$	6/3 (4") 15/11 (4")
Building blocks :— 3 cavity 6 cavity				per yard		41" 6/3 6/11

PAVIOR

2" coarse gravel fo	r path	18	****	****		per yard cube	20/3	
a fine ditto			****	****		per yard cube	21/9	
Clean granite chip	pings	to I	3.S. 120	01, T	able 4			
(in 5-ton loads)			****	****	****	per ton	42/9	
Red quarry tiles,	6" × 1	6" ×	7", to	B.S.	1286	per yard super	12/9	
			&", to			per yard super	10/9	
Buff quarry tiles,	6" ×	6" ×	7". to	B.S.	1286	per vard super	15/3	
			§". to			per yard super	13/-	
Hard red paving b	ricks.	2"			****	per 1,000	429/-	
Ditto	,	11"	****	****		per 1,000	404/6	
		-						

DRAINLAYER

Clay Land Drain Pipes to B.S. 1196

				3"	4"	6"
Pipes in 12" lengths	***	***	per 1,000	191/-	250/-	517/-

Salt Glazed Stoneware Pipes and Fittings

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

	Orders for	Orders under	
	2 tons and	pieces	2 tons less than 100
	over		pieces
Seconds Quality	62½% less 15%	821% less 15%	
Best Quality	621%	821%	921%
British Standard Quality	$62\frac{1}{2}\% + 10\%$	$82\frac{1}{2}\% + 10\%$	$92\frac{1}{2}\% + 10\%$
Tested Quality	$62\frac{1}{2}\% + 37\frac{1}{2}\%$	$82\frac{1}{2}\% + 37\frac{1}{2}\%$	$92\frac{1}{2}\% + 37\frac{1}{2}\%$
British Standard Tested	$62\frac{1}{2}\% + 47\frac{1}{2}\%$	$82\frac{1}{2}\% + 47\frac{1}{2}\%$	$92\frac{1}{2}\% + 47\frac{1}{2}\%$

Cast Iron Drain Pipes and Fittings

S	ocket a	and ap	igot p	ipes to	B.S. 43	7:			
	Weig	ght pe	r 9 ft	Size		6 fts.	4 fts.	3 fts.	2 fts.
	1	1	17	4"	56/6	41/4	32/7	24/11	20/-
	2	0	1	6"	84/3	65/4	51/9	41/3	31/-
	3	3	21	9"	153/6	130/4	110/6	84/8	

Prominent on the London scene are the new Whitehall offices being constructed by Richard Costain Ltd., the first stage of which is now approaching an advanced state of completion as can be seen by the illustration adjoining. The drawing reproduced below shows how this fine Government building will look when fully completed.

Architect:
E. VINCENT HARRIS, R.A.

Consulting Engineers:

R. TRAVERS-MORGAN & PARTNERS



The new Government Offices Whitehall Gardens



COSTAIN

MAIN CONTRACTORS

Head Office: DOLPHIN SQUARE, LONDON, S.W.1. VICtoria 6624 Branches: MIDDLE EAST, RHODESIA, UGANDA AND NIGERIA DRAIN

Tonn

*Bends (s.
*Single ju
*Intercept
*Gullies o
*Extra fo
*Grease g

* These

Standard ware pipe

Orders

C.I. coate and fra 497, Gr C.I. coat frame, Grade

Coated m
B.S. 49
Galvanise
Coated m
B.S. 49
Galvanise

MASO

Blocks so Add for h

Template to 4 ft. Template Price f.o per ton

Monk's P St. Aldhe Delivered

Whitbed Delivered

4½" × 4" groove 9" × 3" 1 2" × 1 throate 3" × 12" 5" × 12" 6" × 12"

SLATI

16" × 10 20" × 10

DRAINLAYER—(continued)

Tonnage Allowances :-

Orders up to 2 tons nett.		4"	6"	9"
an 1 (-hart radius) as Tim No. 4	anah	6/3	13/-	40/-
Bends (short radius) as Fig. No. 4	each	0/3	13/-	
*Single junctions as Fig. No. 18	each	11/-	22/6	69/-
*Intercepting traps as Fig. No. 33	each	30/-	50/-	123/-
*Gullies ordinary trapped " P "	each	14/6		
*Extra for 4" vertical back inlet	each	4/3		
•Grease gully trap	each	121/-		

• These prices are subject to 1081% plusage.

Channels in Brown Glazed Ware.

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

White Glazed Channels

Orders under 29 pieces. Standard list +10%

Manhole covers and frames

	Size of load	Unit
C.I. coated double triangular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade A	35 tons	154/-
Grade B each	5 tons	84/-
Size of		Double seal
load	Flat type	Flat type
Coated manhole cover and frame to		
B.S. 497, Grade C, 24" × 18" each 1 ton	39/10	66/5
Galvanised ditto, 24" × 18" each 1 ton	70/4	100/6
Coated manhole cover and frame, to	,	
B.S. 497, Grade C, 24" × 24" each 1 ton	56/9	86/4
Galvanised ditto, $24'' \times 24''$ each 1 ton	103/10	150/-

MASON

Yorkstone

Building quality Robin Hood and Woodkirk Blue Blocks scrappled, random sizes per foot cube Add for blocks to dimension sizes per foot cube	11/4
Templates with sawn beds, edges rough (up to 4 ft. super and not over 2' 6" long) per foot cube	12/8
Templates with sawn beds, sawn one edge, per foot cube Price f.o.r. Yorkshire, railway rate to London Station	
per ton. (Minimum 4-ton loads)	54/5

Bath Stone in random blocks

Monk's Park			0000		per foot	cube	6/7
St. Aldhelm Box	Ground	****			per foot	cube	7/7
Delivered on rai	at South	Lamb	oth stat	tion			

Portland Stone in random blocks, average 20 feet

Whitbed		****		***	****		****	per foot cube	7/4
Delivered	on	rail	at	Nine	Elms	Station.			

Artificial Stone to B.S. 1217

41" × 4" Sill, sunk, v	veathered	, throate	d and		
grooved			****	per foot run	3/6
9" × 3" Ditto	****		****	per foot run	4/9
$Z \times 12^{\prime\prime}$ Coping,	weather	ed and	twice	-	
throated			****	per foot run	4/3
3" × 12" Ditto	****			per foot run	6/3
5" × 12" Saddleback	coping.	twice th	roated	per foot run	9/6
6" × 12" Ditto				per foot run	11/9

SLATER, TILER AND ROOFER

						Decete	0						
100											£	8.	d.
16" ×	10"	Best	Bangor	Slates	to	B.S.	680	 per	1,000	actual	49	14	6
20" ×	10"	Ditto						per	1,000	actual	74	0	6

SLATER, TILER AND ROOFER—(continued)

Tiles

Hand-made sandfaced $10\frac{1}{2}$ " \times $6\frac{1}{2}$ " red roofin	g tiles	
	per 1,000	311/6
Machine-made sandfaced best red tiles		
with continuous nibs, $10\frac{1}{4}$ " × $6\frac{1}{4}$ "	per 1,000	289/-
Berkshire hand-made red Pantiles, 141" ×		*
10"	per 100	114/-
Concrete plain tiles, $10\frac{1}{4}$ " × $6\frac{1}{4}$ "	per 1,000	160/9
Ditto interlocking tiles, 15" × 9"	per 1,000	490/-
Ditto Double Roman tiles	per 1,000	775/-
	-	,

Asbestos-cement

*6" corrugated sheets, grey	****	****	per yar	d super	5	/11
*Prices are for minimum discount.	two-ton	loads,	and are	subject	to	$2\frac{1}{2}\%$

Felt

Reinforced roofing felt to B.S. 7	747	per yard sup.	2/-
Roofing felt (1-ply bitumen) to	B.S. 747, Part I	per yard sup.	1/6
Bituminous hair felt to B.S. 747	7. Part II	per vard sup.	3/-

CARPENTER AND JOINER

½" Imported Fibre board 5.00	00 to 15,000 sq. ft.
(per 100 sq. ft.)	50/-
Imported Hardboard (per 100 sq. ft.)	59/6
3" Imported Hardboard (per 100 sq. ft.)	82/3
* 36" Semi compressed asbestos cement flat	
	yard super 2/6
-	yard super 3/6
* Prices are for orders of 2 tons and over. Sub-	oject to 5% trade

Sundries

		****	****	****	per yard sup. 1/-	3
	'Sisalkraft' subsoil grade	****	****	****	per yard sup/8	1
6	'Sisalation' single sided		****	****	per yard sup. 2/3	-
	'Sisalation' double sided		****	****	per yard sup. 3/2	
1	Bitumen bonded fibre glass				per vard sup. 1/1	14

* Price is for orders value £5 and over.

Timber

Softwood for Carpentry (average price) Softwood for Joinery (ditto)	per std. per std.	£115 £120
Tongued and Grooved SoftwoodFlooring (ditto)	per std.	£120
First Quality European Oak (ditto)	per ft. cube	26/-
Teak (ditto)	per ft. cube	59/-

Standard Panelled and Glazed Wood Doors to B.S. 459, Pt. 1

Type 4	size 2'	6" ×	6' 6"	$\times 1\frac{1}{2}$ "	****	each 44/9
Type $2 \times G$	size 2'	$6'' \times$	6' 6"	\times 2"	****	each 57/9
Type 4 × G	size 2'	6" ×	6' $6''$	× 2"	****	each 68/3
In lots of f	rom 1	to II	inclus	sive.		

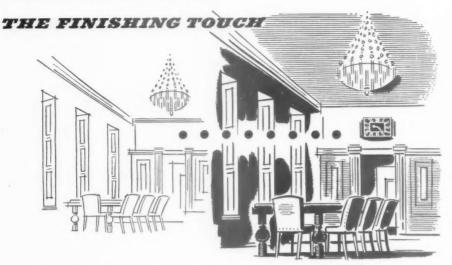
Wood Windows

N 26 V	size 1' $5\frac{1}{4}'' \times 2' 6\frac{1}{4}''$	****	 each 24/9
2 26 V	size 4' $0\frac{1}{4}'' \times 2'$ $6\frac{1}{4}''$	****	 each 50/6
N 40 V	size 1′ $5\frac{1}{4}'' \times 4' 0\frac{1}{4}''$	****	 each 28/-
3 40 V	size 5' 11½" \times 4' 0½"	****	 each $83/3$
4 40 V	size 7' $10\frac{1}{4}$ " \times 4' $0\frac{1}{4}$ "	****	 each 107/3
In lots of	from 1 to 20 inclusive		

Kitchen Units

No. 1	size 3' 6" \times 2' 8" \times 1' 7"		each	151/3
No. 2	size 3′ 6″ $ imes$ 2′ 8″ $ imes$ 1′ 7″	****	each	101/9
No. 4	size 2' 8" \times 1' 9" \times 1' 7"	****	each	95/4
No. 5	size 3′ 10″ \times 1′ 9″ \times 1′ 7″		each	74/-
No. 7	size 6' 6" × 1' 9" × 1' 7"		each	142/3

In lots of from 1 to 15 inclusive.



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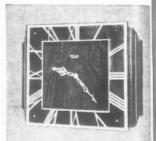
In factories, schools and hospitals, in offices and homes, Smiths Clocks are an automatic choice where long and dependable service is desired. And to service is added æsthetic

satisfaction. No matter what the style of interior construction or decoration, there is a Smiths Clock which will fall happily and harmoniously into place. Smiths will always help you to plan unified and efficient timekeeping systems for indoor and outdoor use. Installations range from extensive Master Clock Systems

> incorporating Interior and Exterior Clocks, Time Recorders, Job Costers and Time Signals to the limited requirements of small offices.

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Surface fixing wall clock. 16" square dial walnut case with gilt Roman zone and plate glass front. Wall to glass 2½", Fitted with 'Sectric' movement. Height 16", Width 20".





BELSIZE

Surface fixing wall clock with hinged side. In oak, walnut or ice birch cases. 7" (18 cm.) bezel. Fitted with 'Sectric' or 8-day lever movement. Height 8", Width 9\frac{3}{2}".

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STEEL Basis pri

Extra for 9" × '3½" ×

18"
10" ×
4" ×
3" ×
4" ×
4½" ×
4" ×
3" ×
Basis pr

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Rainy Soil g

Gutte Pipes

Ore

2' 0' 3' 0' 4' 0' 6' 0 8' 0

10' 0

STEEL AND IRONWORKER

Basis price for rolled steel joist sections,		£	s.	d.	
in 10 ft. to 50 ft. lengths	ex mills per ton	28	8	0	
Extra for sizes :-	•				
9" × 7"	Add per ton		5	0	
$31'' \times 31'', 5'' \times 41'', 6'' \times 41'', 10'' \times 8'', 12''$					
\times 8", 14" \times 8", 16" \times 8", 18" \times 6",					
$18'' \times 7''$, $18'' \times 8''$, $20'' \times 6\frac{1}{2}''$, $20'' \times 7\frac{1}{2}''$	22 22		10	0	
10" × 41", 12" × 5"	99 99		15	0	
4" × 2½", 5" × 3", 22" × 7", 4½" × 4½"	99 93	1	0	0	
3" × 3", 4" × 3", 5" × 21"	99 99	1	5	0	
4" × 4", 6" × 3"	99 99	1	10	0	
43" × 13", 24" × 73"	22 22	2	0	0	
4" × 1}"	99 99	3	0	0	
3" × 11"	99 99	3	10	0	
Basis price for angles	ex mills per ton	28	7	0	
,, ,, tees	99 99	28	7	0	
,, ,, solid steel columns	99 95	30	7	0	
All delivered Station or Sic	ding.				

PLASTERER

Plaster and Ceme	nt	
	1-ton loads	6-ton loads
Thistle (browning) to B.S. 1191, Class B per	ton 151/6	117/-
Gypstone to B.S. 1191, Class B per		ex Works.
Paristone (haired) to B.S. 1191, Class B per		Kent.
Ditto (unhaired) per		****
	ton 148/-	113/6
Ditto (fine) to B.S. 1191, Class C per	ton 156/-	121/6
Keene's Pink to B.S. 1191, Class D per	ton 194/3	
Keene's White to B.S. 1191, Class D per	ton 199/6	
Cullamix (Tyrolean Finish), 1-ton lots		
and upwards per ton fro	om 178/9 to	212/3

Sundries

Sharp washed sand to B.S. 11	198	****		****			ube 20/10 97/6
Expanded metal lathing, 9	0"	×	2'		₹"	per cwt.	6/11
		to 1	49		299	300-599	Over 600
§" Plasterboard (base board) per vard super		rds 2/10		yar		yards 2/5	yards 2/4
Galvanized lath nails 14 G Hessian Scrim cloth in 100-va	ard r	olla.		****	***	per	cwt. 150/8
21" wide				****	***	per	roll 10/-

Wall Tiles

The following prices are subject to 174 per	
Standard quality white glazed 6" × 6" ×	# per yard super 18/6
Cream glazed 6" × 6" × 4"	per yard super 20/6
Eggshell or glossy glazed 6" × 6" × 3"	per yard super 26/3

PLUMBER

Lead and Copper

31 lb. and upwards milled sheet lead in quantities	
of 5 cwts. to 1 ton in sheets to B.S. 1178	per cwt. 189/-
Hot rolled copper sheeting in 5-cwt.	
lots (4' × 2' sheets), to B.S. 899 23 wire gauge	ge per cwt. 311/6
Ditto 24 wire gau	
Zinc sheeting in 2-cwt. lots 14 gauge	per cwt. 212/3

Cast Iron Goods

Per	rcentage	Adjustment	on List	No.	3100	A.B. 13/8/	51.
Rainwater (doods (pa	ainted or un	painted)		***		
Soil goods (coated or	uncoated)	****	****	***	Plus 1	00%

Mild Steel Rainwater Goods

					Standard List
Gutters	(under 100	lengths)	****	****	Less 171%
Pipes and Fittings	("	")	****		Less 17½%

Asbestos-Cement Rainwater Goods

The following prices are subject to $12\frac{1}{4}\%$ trade discount. Orders over £30 are subject to $17\frac{1}{4}\%$ trade discount.

Rainwater Pipes.

			Di	ameter	
	2"	21"	3"	4"	6"
2' 0" lengths	3/2	3/7	4/3	5/10	12/- each
3' 0'' ,,	4/3	4/10	5/8	7/11	16/2 ,,
4' 0" ,,	5/5	5/11	6/10	9/7	19/11 ,,
6' 0'' ,,	6/3	7/1	8/5	11/8	24/- ,,
8' 0" ,,	8/4	9/5	11/3	15/7	32/- ,,
10' 0''	10/6	11/10	14/-	19/4	40/

PLUMBER—(continued)

Gutters.

The Architects' Journal for May 1, 1952

Short lengths of gutte to 4' 0" as 11 yards, and				as 1 y	ard; from	2' 0"
Half round gutters per yard run	3" 2/3	4" 2/8	4½" 2.9	5" 3/3	6° 4/7	8" 5/8

INTERNAL PLUMBER

Lead pipe in Lead soil pip Drawn lead	90			****			cwt.	200/3 203/ 3
B.S. 504		******	DAGOD SU	ion cyc, o	1"	11"	11"	2"
S. trap				each	7/-	8/1	10/1	14/6
P. trap	****			each	6/2	6/9	8/5	11/9
Extra for 3"	deep	seal "	S" trap	each	1/8	2/-	2/3	2/10
Extra for 3"	deep	seal "	P" trap	each	1/2	1/5	1/5	2/-

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

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

Tubes: Class B	$\frac{1}{2}$ " to 4" $15\frac{1}{2}$ % $2\frac{1}{2}$ %	Fittings: Lightweight Heavyweight	plus 33% plus 1114%
Galvanized Class B ,,, C Galvanized malleable Less 49	plus 17% plus 33¾% e fittings % plus 40%	Galvanized : Lightweight Heavyweight	plus 21¼% plus 28¾%

Copper tubing to B.S. 659 and 1386 Basic price

GLAZIER

Sheet Glass, cut to size (ordinary glazing quality), to B.S. 952, Section A. For quantities exceeding 500 ft. super.

				-			
18 oz.	****	****	****	 ****	****	per foot super	48d.
24 oz.	****	****	****	 ****	****	per foot super	6d.
32 oz.	****	****		 ***	****	per foot super	101d.
				 -			

Polished Plate glass, ordinary substance, approximately ‡", to B.S. 952, Section A.

In plates not e	xceedi	ng:		Glazing quality	Selected	Silveri ng quality
2 ft. super	****		per foot super	3/2	3/8	4/5
5 ft. super			per foot super	3/10	4/5	5/3
*45 ft. super	****		per foot super	4/5	5/-	6/-
*100 ft. super	****		per foot super	4/9	5/9	7/6

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

so in long, as ingiter prices.			
1" figured rolled and cathedral,	to B.S. 952,	Sec-	
tion B-standard patterns, v	vhite	per foot super	77d.
is or i rolled plate, ,,	• • • • • • • • • • • • • • • • • • • •	per foot super	9d.
is or i rough cast, ,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	per foot super	9d.
1" Georgian wired cast, ,,	., Section D	per foot super	10≹d.
de Georgian wired polished plan	te "	per foot super	4/4d.
‡" wired cast ,,	***	per foot super	10½d.

PAINTER

WWW						
White ceiling distempe	er	****	****	****	per cwt.	29/-
Washable distemper		****	****	4+4+	per cwt. from	120/-
Ready mixed white	lead	paint	(best).	semi-	•	,
gloss, per 32 lb.	****			****	per gallon	67/-
Ready mixed oil pain	t:					,
Undercoat	****	****	****		per gallon	46/-
Finishing coat				****	per gallon	57/-
Aluminium paint (bes	t que	ality)	****		per gallon	42/-
White enamel paint			****	****	per gallon	57/-
Oil stain (scumble)			****		per lb.	4/3
Varnish (outside quali	ity),	copal os	k	****	per gallon	38/-
		eneral o			per gallon	36/-

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temperature and draughtless ventilation all the year round, and the air in the building can be changed as often as desired according to the processes carried on. The heaters are made either for gas-firing, hand-firing, worm feed stokers or oil-firing.

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THE INDUSTRY

From the Industry this week Brian Grant offers a reminder of the BIF and reports on a plastic cistern float, the use of slate for sills and copings, a new fan, and plastic ceiling panels.

RIF

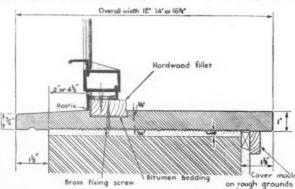
The British Industries Fair opens next Monday, and follows once more the general post-war pattern, with the building and hardware sections, and the outdoor display of plant, at Castle Bromwich. This is the display of main interest to architects, but if you are contemplating a visit remember that there is a considerable acreage to cover and a lot to see. One word of warning: judging by previous years the luncheon queues get longer and start earlier each day. The show is open until May 16, and for Londoners there are the furnishings, textiles, and other exhibits at Earls Court and Olympia.

PLASTIC CISTERN FLOATS

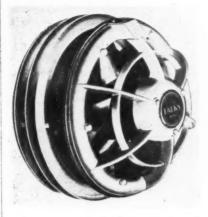
The plastics division of E. K. Cole is now making a cistern float which is claimed to be more economical and convenient in use than the conventional copper float, and at the same time to have a longer useful life. It is known as the "Unimer" float, and moulded in polystyrene in 4 in. and 4½ in. dias. Buoyancy tests show that each size can be used to replace the next larger size of copper ball. (E. K. Cole, Ltd., Southendon-Sea, or through United Merchants, Ltd.)

SLATE FOR SILLS AND COPINGS

Readers may remember that at last year's Building Exhibition a display of slate splitting provided a major attraction and, incidentally, the same sort of turn produced an equal degree of interest at the Glasgow Exhibition a month ago. It is worth remembering, however, that slate is used for a number of other purposes, and the section below shows a standardized sill produced in lengths up to 7 ft., and in stock widths of 12 in., 14 in., and 16 in., for 9 in., 11 in., and 13½ in. walls. The same firm also produces slate coping slabs, again in 7 ft. lengths, and in a standard width of 12 in., the standard thickness being 2 in. weathered to 1½ in. (The Bow Slate and Enamel Co., Ltd., British Railways Depot. Old Ford Road, Bow, London, E.)



On the left, a section through a standardized window sill of slate. The hardwood fillet is $1\frac{5}{8}$ in. by $\frac{3}{4}$ in., with pencil round as shown, but for narrow flange metal window frames it can be $1\frac{1}{16}$ in. by $\frac{3}{4}$ in., square section.



Above, the new air conditioning fan by Falk, Stadelmann & Co., Ltd.; right, the "Lundberg" 2 amp, reverse socket and plug, from Simplex Electric Co., Ltd.

A NEW FAN

The illustration above shows a new airconditioning fan for window or wall mounting, or for use with trunking. For window mounting only a $9\frac{1}{4}$ in. diameter hole is necessary, and in walls it is also possible to arrange a fully concealed mounting with grilles at each side of the wall opening. The price is £11 11s., and it is also worth mentioning that fittings of this kind carry no purchase-tax. Falks have a number of other new items of equipment, including a well-designed house service unit with main switch and fuses suitable for AC or DC, and also an electrically heated (25 watts load) diffuser for DDT or any other germicide. (Falk, Stadelmann & Co., Ltd., 91. Farringdon Road, London, E.C.1.)

FITTINGS FOR GARAGE DOORS

The ordinary side hung garage door has an infuriating habit of blowing shut in the mildest of breezes, and some of the alternatives are not altogether satisfactory. Doors sliding sideways are bound to make one wall unusable for shelving and the inevitable garden oddments which always collect in garages, and a roller shutter of any considerable width can be quite heavy for a lightweight to lift. Readers may therefore be interested in an "up and over" fitting which can be applied to existing doors. It has long coil springs to counterbalance the weight. The clearance required above the top of the door is only I ft. 5 in. for a door opening 7 ft. 6 in. high, and a complete set of fittings costs £10 6s. 2d., plus 10s. for carriage. Fixing is quite simple. (Acron (Engineers), Ltd., South Wharf, Paddington, London, W. 2.)



REVERSE SOCKETS AND PLUGS

For supplying current to portable apparatus it is frequently convenient to have a reverse pattern socket and plug where the socket has the three (recessed) pins and the plug contains the two line and earth sockets. The photograph shows the Lundberg 2 amp. type which sells at £3 per dozen. Sockets of this type have the advantage that there is no likelihood of shock or short circuiting if the lead happens to be alive when the connection is being made. (Simplex Electric Co. Ltd., Broadwell, Oldhury, Birmingham.)

VERMICULITE DEVELOPMENT

Two recent developments by Meta Mica Ltd., are of considerable interest. The first are vermiculite ceiling panels 40 in. by 20 in. by 1½ in. thick weighing approximately 4 lb. per sq. ft. The panels are suspended by steel Z clips fixed to their backs. This fixing system has been designed primarily for use with Hills "Presweld" beams on a 40 in. module. The panels were originally intended for use in schools, but they can be used in all cases when heat and sound insulation are required. Their resistance to fire is extremely good.

In addition the firm is now producing prefabricated sections for encasing columns and beams, as an alternative to concrete. Elaborate formwork and shuttering are not necessary. The ceiling panels give class D/protection/(1 hour) and the structural sections give class C (2 hours). (Meta Mica Ltd., Oxgate Lane, Cricklewood, London, N.W.2.)

A BRITISH TRACTOR

During the last year or so some considerable song and dance has been made about the Vickers Rolls-Royce tractor, the only large size unit to be produced in this country. Hitherto we have been dependent on imports from America. After a year of testing, both here and abroad, production started two months ago, and the first off the production line was delivered last week. It is produced with all the usual equipment, such as bulldozer blades and scraper units, and from a technical point of view the suspension allows the tractor to pass over rough ground with a minimum of chassis movement. Not, of course, a device which architects are likely to specify, but it is at least interesting to know that equipment of this kind can now be obtained without spending dollars.

mation on building products and services may complete and post this form to The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1

ENOUIRY FORM

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

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Readers requiring up-to-date infor- B u i l d i n g s Illustrated

Needlework Shop for Liberty & Co. Ltd., Regent Street, London, W.1. Pages 540-Regent Street, London, W.I. Pages 540-541.) Designer: Hulme Chadwick, A.R.C.A. Chief Assistant, Kenneth Bayes, General contractors: Frank W. Clifford Ltd. Sub-contractors: chairs (designed by Robin Day), S. Hille & Co. Ltd.; wallpaper, Cole & Son (Wallpapers) Ltd.

Flats for Metropolitan Police at "Collinton House," Effra Road, Brixton, London, S.W.2. (Pages 545-549.) For Receiver for Metropolitan Police District; Architects: J. Innes Elliott, B.ARCH., A.R.I.B.A.; chief architect and surveyor, New Scotland Yard; senior architect-in-charge: G. B. Vint, A.R.I.B.A.; quantity surveyor, F. J. Meekins & Partners; clerk of works, T. W. Hood; general foreman, R. Kefford; general contractors, George Parker & Sons Ltd.; sub-contractors: dampcourses, Ruberoid Co. Ltd.; bricks, Sydney A. Hunter Ltd.; partiticial stone, Reinforced Structures Ltd.; partitions, Broads Ltd.; patent flooring, Horsley Smith & Co. Ltd.; grates, Ashley Brandon; gas fixtures, gas fittings, South Eastern Gas Board; electric wiring, electric light fixtures, London Electricity Board; plumbing, Dent & Hellyer Ltd.; sanitary fittings, Shanks & Co. Ltd.; stair treads, Safety Tread Syndicate Ltd.; door furniture, Froy & Sons Ltd.; metal work, Light Steel-work (1925) Ltd.; shrubs and trees, Turfsoil Ltd. Flats for Metropolitan Police at "Collinton House," Effra Road, Brixton, London, S.W.2. (Pages 545-549.) For Receiver Ltd.

Heavy Test Laboratory at the Building Research Station, Garston, Watford, for the Department of Scientific & Industrial Research. (Pages 550-552.) Designed in

the Chief Architect's Division of the Ministry of Works by A. S. Reid, A.R.I.B.A., J. J. Taylor, A.M.I.E.E., Senior Engineer in the Chief Engineer's Division being responsible for the services. Clerk of works: G. W. Coupe. General foreman: Mr. G. W. Coupe. General foreman: Mr. McKenna. General contractor: Haymills (Contractors) Ltd. Sub-contractors: Asphalt tanking, Faldo Asphalte Co. Ltd.; bricks, Cement Marketing Co.; structural steel, Redpath Brown & Co. Ltd.; fireproof floors and office roof, Frazzi Ltd.; steel decking and roofing felt, D. Anderson & Sons Ltd.; suspended ceiling, Tentest Fibre Boards Co. Ltd.; patent glazing (concrete vertical), Lenscrete Ltd.; radiator and unit heating, William Freer Ltd.; electrical installation, General Electrical Maintenance Co. Ltd.; door furniture, Standard Range & Foundry Co. Ltd.; shutter gates, Potter Rax Ltd.; metal venetian blinds, Harris & Sheldon Ltd.; stonework, Atlas Stone Co. Ltd.; office fittings, Ministry of Works, Controller of Supplies; cranes, Wharton Crane & Hoist Co. Ltd. Co. Ltd.

Corrections

The houses in Stevenage New Town, illustrated on page 450 of the Journal for April 10, were designed by D. S. Craig, A.R.I.B.A., and Peter Barefoot, A.R.I.B.A., not by O. F. C. Carey A.R.I.B.A., as stated.

On page 419 of the Journal for April 3 Frank Senior, A.R.I.B.A., was incorrectly described as a member of the Design Team at Crawley. Mr. Senior, an architect in private practice, worked in association with the Chief Architect of the Crawley Development. Corporation on the Northgate Neighbourhood Centre.

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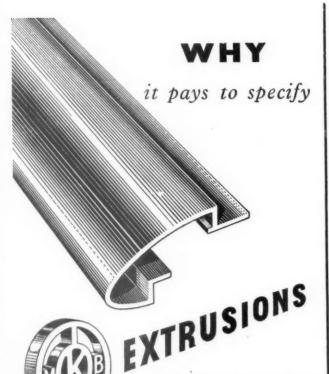
TELEPHONE: WED 0284 5 LINES

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Solder Works: Strafford, London, E.15.
Copper Sulphate and Lithopone Works: Widnes, Lancs.
Enquiries for Lithopone and Solder to: 14, Berkeley Street, London, W.I.
South African Works: McKechnie Brothers S.A. (Pty) Ltd., P.O. Box
No. 382, Germiston, S.A.
New Zealand Works: McKechnie Brothers (N.Z.) Ltd., Carrington Road,
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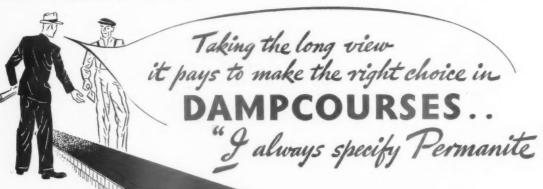
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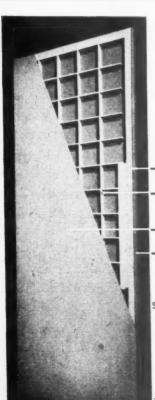
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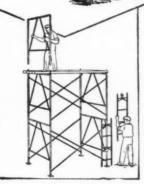
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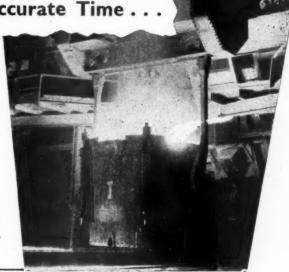
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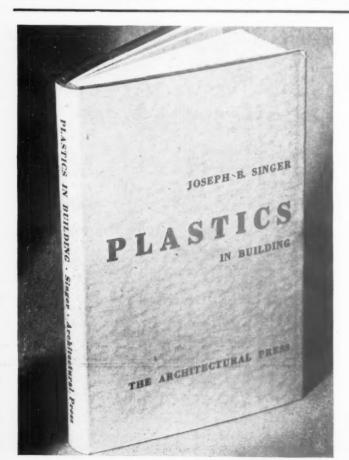




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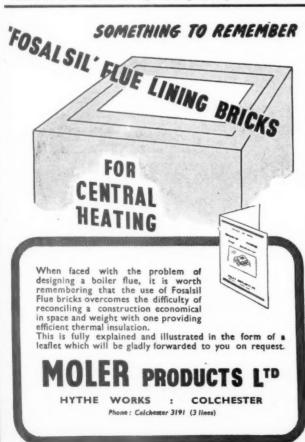
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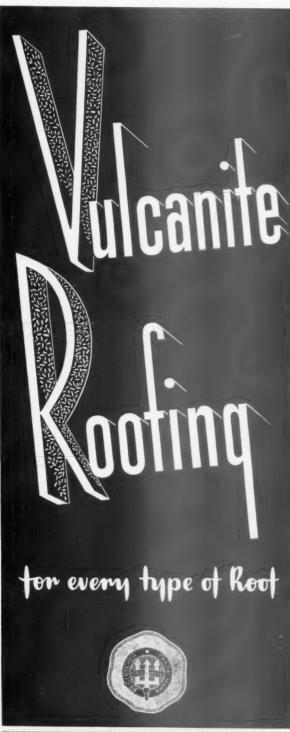
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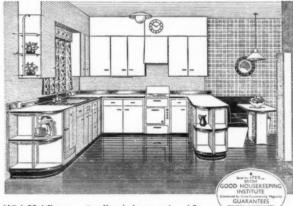
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(a) the National Scheme of Conditions of Service;
(b) the Local Government Superannuation Act, 1937;
(c) the astisfactory passing of a medical examination;

(d) termination by one month's notice on either

1937;
(c) the satisfactory passing of a medical examination;
(d) termination by one month's notice on either side.

Applications, stating age, qualifications and experience accompanied by copies of two recent testimonials must be sent in envelopes endorsed "Chief Architectural Assistant" to the Borough Engineer and Surveyor 14, Craufurd Rise, Ma'denhead, not later than Thursday, 22nd May, 1952.
Canvassing will be a disqualification and candidates must disclose whether to their knowledge they are related to any member or senior officer of the Council.

STANLEY PLATT.

Town Cierk.

STANLEY PLATT. Town Clerk. Guildhall, Maidenhead April, 1952.

CITY AND COUNTY OF BRISTOL.
CITY ARCHITECT'S DEPARTMENT.
Applications are invited for the permanent staff appointment of a SENIOR ASSISTANT ARCHITECT, Grade VI (£645-£710 per annum).
Applicants must be Associate Members of the R.I.B.A. or hold equivalent qualifications and have considerable experience in design, construction and contract administration, preferably in Local Government work.
Appointment subject to the passing of a medical examination and is superannuable. The appointment is also terminable by one month's notice in writing on eitner side
Housing accommodation provided, if necessary, at an economic rent.
Applications, giving full details including age, training, qualifications, experience, present appointment and salary, together with the names of two referees, must be delivered to the undersigned by not later than 12th May, 1952.

J. NELSON MEREDITH.
City Architect.
Council House, College Green,
Bristol, 1.

Council House, College Green, Bristol, 1. CRAWLEY DEVELOPMENT CORPORATION equire fully qualified Architects for the posts

SENIOR ARCHITECT within the range

(a) SENIUM ADMILIANCE.
21.000-21.200 per annum.
(b) ARCHITECT within the range £825-£1.100.
For both appointments ability in architectural design and a wide general experience of architectural practice are essential. Qualifications or experience in town planning will be an added recommendation. Contributory superannuation is in apparation.

in operation.

Application forms should be obtained from the Chief Architect H. S. Howgrave Graham, A.R.I.B.A., A.M.T.P.I., Broadfield. Crawley, Sussex, and returned by 17th May, 1952.

C. A. C. TURNER.

Chief Executive.

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METROPOLITAN BOROUGH OF CAMBERWELL. DIRECTOR OF HOUSING. ry £1,750 per annum by two annual incre-£100, one of £50 to £2,000 per annum,

Salary £1,750 per annum by two annual increments £100, one of £50 to £2,000 per annum, inclusive.

Experience of direct labour housing schemes desirable and preference given to qualified Architects.

Local Superannuation Act; no housing provided. Applications from staff in the service of other local authorities will not be considered unless they have been in the service of their present employers for a period of not less than two years.

Application forms containing further particulars from Town Clerk, Town Hall, S.E.S. Closing date 15th May, 1962.

S. J. HARVEY.

S. J. HARVEY. Town Clerk

CITY OF COVENTRY.
ARCHITECTURAL AND PLANNING
DEPARTMENT.
Applications are invited for the following

ARCHITECTURAL AND PLANNING DEPARTMENT.

Applications are invited for the following appointment:

SENIOR QUANTITY SURVEYOR, within Grade A.P.T. VIII (£735×£25-£310 per annum) according to experience.

The person appointed, who must be a Corporate Member of the R.I.C.S. (Quantities Sub-Division), will be required to control a Section dealing solely with the preparation of Bills of Quantities for major new works including large buildings of all types in connection with the redevelopment of the City, schools and educational buildings and the like. The Section is at present being formed, and the person appointed may be required temporarily to undertake interim valuation measurement and account settlement on certain major City redevelopment and special housing projects in progress. A sound knowledge of all aspects of Quantity Surveying, and experience in the preparation of Bills of Quantities for large and varied projects is essential.

Housing accommodation will be made available in approved circumstances.

All employees are expected to belong to an appropriate organisation as referred to in paragraph 44 of the N.J.C. Conditions of Service.

Applications, on forms available from the undersigned, by Wednesday, 28th May, 1982.

City Architect and Planning Officer.

Bull Yard, Off Warwick Row,

Coventry.

22nd April, 1952.

METROPOLITAN BOROUGH OF

METROPOLITAN BOROUGH OF

WANDSWORTH.

Applications are invited from suitably qualified persons for the unestablished post of ARCHITECTURAL ASSISTANT (Male) in the Borough Engineer, Surveyor and Architect's Department at a salary according to the class of officer within Grades A.P.T. I-V (2470-2650 p.s.).

The work of the department includes the design and planning of housing estates, particularly multi-storey blocks of flats.

Application forms. obtainable from the Borough Engineer, at the undermentioned address, to be returned to me by 14th May, 1952.

R. H. JERMAN.

Municipal Buildings.

Municipal Buildings, Wandsworth, S.W.18.

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CHIEF ARCHITECTURAL ASSISTANT,

GRADE A.P.T., VI.

Applications are invited for the appointment of Chief Architectural Assistant, at a salary in accordance with Grade A.P.T., VI. (645-£710).

Applicants must be suitably qualified and experienced in the design and construction of houses and flats, and have had administrative experience. The appointment will be subject to the National Scheme of Conditions of Service, the provisions of the Local Government Superamunation Act, 1937, and will be terminable by one month's notice on either side. The selected applicant will be required to pass a medical examination.

A house will be available for the successful applicant, if required.

Applications, stating age, qualifications, experience present and previous appointments (with salaries), together with the names and addresses of two referees, are to be delivered to the Borough Engineer. Surveyor and Architect. Municipal Offices, Duke Street, Chelmsford, not later than Tuesday, 13th May, 1952. Canvassing will disqualify, and applicants must state whether to their knowledge they are related to any member of or holder of any office under the Council.

B. A. FRANCIS,

Town Clerk.

Municipal Offices, Duke Street, Chelmsford.

22nd April, 1952.

HARLOW DEVELOPMENT CORPORATION.
Applications are invited for the post of ASSISTANT ARCHITECT, Grade IV(a), salary £600×
£25 p.a. to £700, in the Architect Planner's
Department (Frederick Gibberd, F.R.I.B.A.,
M.T.P.I.) to work under the direction of the
Executive Architect (Victor Hamnett, B.Sc.,
A.R.I.B.A., A.M.T.P.I.).
Candidates must have had experience in design,
preparation of working drawings and supervision
of large-scale building contracts, and possess a
minimum qualification of A.R.I.B.A. Experience
in work on industrial buildings an added
advantage.

in work on industrial duffings an advantage.

The appointment will be made under the terms of the Corporation's Conditions of Service which are similar to those of the Technical and Professional Grades of the Local Authorities, etc., Staffs and will in particular involve a contribution to an approved Superannuation Fund. Housing accommodation may be made available in due course to the successful candidate.

Applications, giving full details of experience and qualifications, together with the names of two referees should be addressed to the undersigned to reach him not later than 16th May, 1952.

W. ERIC ADAMS, C.B.E.,

General Manager.

"Terlings," Gilston, Harlow, Essex.

LONDON COUNTY COUNCIL.

ARCHITECTS and SURVEYORS required for safety regulations of Theatres and Special Buildings and for general building regulation work. Salaries up to £696, according to experience. A.R.I.B.A. or A.R.I.C.S. essential.

Particulars and application form from Architect, quote (EK/TBR/3), County Hall, S.E.1. (425).

UNIVERSITY OF EDINBURGH.
CHAIR OF ARCHITECTURE.
The Electors will shortly proceed to the appointment of a PROFESSOR OF ARCHITECTURE, who will also hold the appointment of Head of the School of Architecture of the Edinburgh College of Art. The combined salary will be £2.000 per annum.
Further particulars may be obtained from the undersigned, with whom applications, together with the names of three referees, should be lodged not later than 15th May. 1952.

CHARLES H. STEWART.
Secretary to the University.
March, 1952.

BOROUGH OF DOVER.

SENIOR ARCHITECTURAL ASSISTANT.
Applications are invited for this appointment in the Borough Engineer's Department. Salary: A.P.T., Grade V, of the National Scales (£570-£620 per annum).
Applicants should hold a recognised architectural qualification, and have had practical experience with a Local Authority on housing work.
Applications, stating age, experience and qualifications, together with the names and addresses of three persons to whom reference may be made, must be delivered to the Borough Engineer, Brook House, Dover, not later than the 20th May, 1952.

JAMES A. JOHNSON

JAMES A. JOHNSON. Town Clerk. New Bridge House, Dover. 26th April, 1952.

26th April, 1952. 6765

COUNTY COUNCIL OF NORTHUMBER-LAND.
COUNTY ARCHITECT'S DEPARTMENT.
Annications are invited for post of JUNIOR ASSISTANT ARCHITECT (Grade I-III. according to experience) on the permanent staff of the Department.
The appointment will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Acts. The successful candidate will be required to pass a medical examination.
Applications, stating age, qualifications and previous experience, accompanied by recent testimonials, should be forwarded to the County Architect. County Hall, Newcastle-upon-Tyne, within ten days of the date of this advertisement.

BOROUGH OF RICHMOND (SURREY).
TOWN PLANNING ASSISTANT
(TEMPORARY).

Applications are invited for the appointment of a Town Planning Assistant on the Temporary Staff of the Borough Engineer and Surveyor's Department, at a salary in accordance with A.P.T. Division, Grade III, of the National Scale of Salaries, i.e., £50-£545 per annum, plus the appropriate London weighthing (£20-£30 per annum, according to age).

The appointment is subject to the provisions of the National Scheme of Conditions of Service. Applicants should be competent draughtsmen, and preferably have had previous Town Planning experience and a knowledge of buildings and building construction.

Applications, stating age, qualifications and experience, with particulars of present and previous appointments, together with the names of two referees, should be delivered to the undersigned not later than noon on Menday, 12th May, 1952.

Candidates shall, when making application.

1982. Candidates shall, when making application, disclose in writing whether to their knowledge they are related to any member of the Council or Senior Officer of the Council. Canvassing will disqualify.

The Council is unable to assist in the provision of housing accommodation.

CLIFFORD HEYWORTH.

Town Clerk.

Municipal Offices, Parkshot, Richmond, Surrey.

CORPORATION OF GLASGOW.
ASSISTANT ARCHITECTS.
ASSISTANT CIVIL ENGINEERS.
ASSISTANT QUANTITY SURVEYORS.
Vacancies for the above technical personnel exist on the Housing Department permanent staff at salaries in accordance with National Scales, A.P.T. II—A.P.T. VIII (460-4810). Applications are invited from suitably qualified persons who have had experience in any of the following branches:—
Design and construction of housing dealers.

Design and construction of housing develop-ments:

ments; Surveying and contouring of land; Design and construction of roads and sewers; and Preparation of schedules and final measure-ments.

ments.

The commencing salary will be at a point within the above scales, adjusted in accordance with the age, experience and qualifications of selected candidates. Notwithstanding the point of entry, it will be possible at certain stages to qualify for an acceleration of increment.

Appointments will be subject to the provisions of the Corporation Superannuation Scheme and to the passing of a medical examination, and will be terminable by one month's notice on either side.

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The author, in addition to practising privately since 1936 with notable success over a wide field (including factories, laboratories, canteens) has held several lecturing and examining appointments, has served on a number of advisory panels and is at present a member of the MARS Group executive. He was the zone architect responsible for the Administration Building at the South Bank Festival

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Applications, stating age, full particulars of experience and qualifications, accompanied by not more than three testimonials, together with the names and addresses of two referees, should be addressed to the undersigned within 14 days of the publication of this advertisement.

City Architect and Planning Officer, Director of Housing.

20. Trongate, Glasgow, C.1. 6767

URBAN DISTRICT COUNCIL OF KIDSGROVE.

ARCHITECTURAL ASSISTANT.
The Council invites applications for the post of Architectural Assistant.
Applicants must have a thorough architectural training and must be first-class draughtsmen. Preference will be given to those who have passed the Intermediate Examination of the Royal Institute of British Architects, and have experience in connection with Municipal housing schemes. schemes.

ence in connection with Municipal housing schemes.

The salary will be within Grade A.P.T., III (£500 £15-£545).

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

Applications, endorsed "Architectural Assistant," should reach the Engineer and Surveyor, Town Hall, Kidsgrove, not later than 5 p.m. on Monday, 19th May, 1952. Applicants should state whether or not they are related to any member or senior officer of the Council, and canvassing, either directly or indirectly, will be a disqualification.

either directly or indirectly, will be a disqualification.

A house will be made available if the applicant is married and does not live within a reasonable distance of Kidsgrove.

O. LLOYD HURST,

Clerk of the Council.

April, 1952.

6766

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

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

A SSISTANT required. Neat draughtsman, capable of detailing, preparing specifications essential; for domestic and industrial work. Small general practice, W.C.2 district. State particulars of experience and salary required. Box 6711.

A SSISTANT ARCHITECT for work on non-traditional design and construct on: houses, flats, offices, etc. Location Salisbury, Wilts. Salary approximately £500. Family accommodation difficult. Box 971, Smith's Bookshop, Salisbury, Wilts.

A SSISTANT required, aged 20-25. Write giving full particulars, salary required. C. W. Shrimplin, A.R.I.B.A., Prudential Chambers, Upper George Street, Luton, Beds.

CAPABLE ARCHITECTURAL ASSISTANT re quired—5 to 10 years' experience. Quantities an advantage but not essential. Please state type of work accustomed to; age and salary. Watkin, Willis & Cooper, National Provincial Bank Chambers, Burslem, Stoke-on-Trent.

NAIROBI. — QUALIFIED ASSISTANT with several years experience required for leading office. Salary £780 p.a.; free passage on 2-year contract. Apply with brief personal and professional particulars to Overseas Technical Service, 5, Weldon Crescent, Harrow, quoting reference OSS.17/3.

A RCHITECTURAL ASSISTANT required, with office experience, above Inter. standard. Good salary and working conditions in busy office. Apply in writing to Alan A. Briggs, F.R.I.B.A. 10, Fleet Street, London, E.C.4. 6743

CLD-ESTABLISHED Mutual Life Assurance House wants a few men of initiative and integrity to act as AGENTS. Architects and Surveyors have the necessary knowledge and contracts to make business most profitable to us and them. Further details from Box 6734.

EXPERIENCED ASSISTANT required for housing work in small private office at Darlington. Applicants should state experience, salary required, and when available. Box 6759.

LONDON Architect requires experienced ASSISTANT for Housing and General Practice. Good draughtsman, of R.I.B.A. Intermediate Final standard. Reply, stating particulars of experience and salary required. Box 6758.

Architectural Appointments Wanted

A RCHITECT, F.R.I.B.A., requires post as Company Architect or Chief Assistant Architect to firm or Authority. Experienced in all classes of work including Town Planning. Partnersnip or post anywhere in the British Empire or Commonwealth considered. Box 433.

POSITION where mature contemporary design and varied experience is valued required.

POSITION where mature contemporary design and varied experience is valued, required by qualified Architect. Box 435.

A RCHITECTURAL ASSISTANT requires responsible situation, small progressive London office. Comprehensive experience. Preferably as sole Assistant to private or company Architect and Surveyor. Box 492.

CHARTERED ARCHITECT (35), resident Southampton, own house and car, seeks responsible position in this area. 17 years' experience. Box 438.

A B.I.B.A. (32) school and office the contemporary designs and contemporary designs and

A. B.I.B.A. (32), school and office trained, seeks branch office Managership or Senior post, preferably partnership prospects, and S. or E.

KEEN ARCHITECTURAL ASSISTANT (female, 22) Student R.I.B.A., preparing for Finals, some office experience, seeks progressive post. London or N. Surrey. Box 440.

UNIOR ARCHITECTURAL ASSISTANT, studying for Inter., seeks position in London office. Three years' school training. £5 p.w. Box 439.

SENIOR ARCHITECTURAL ASSISTANT, of many years' experience, requires post in Architect's office in London or large provincial town. Box 441.

RCHITECTURAL ASSISTANT (29), contem-A BCHITECTURAL ASSISTANT (29), contemporary outlook, 3 years' experience, now school trained, will qualify in June, seeks position from July, Box 442.

STUDENT B.I.B.A., 5 years' full-time training with some practical experience, seeks progressive post in London area. Box 445.

A B.I.B.A., 17 years' experience, requires responsible position in London. Box 444.

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

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

ECRETARY / SHORTHAND - TYPIST, part-time, required; also conversant with simple Book-keeping; four half-days. State salary and experience. Box 6712.

PRAUGHTSMAN (temporary) required. Experience, speed, and good lettering essential, E6-£8. Clifford Duke, A.R.I.B.A., 111, Haverstock Hill, N.W.3. Primrose 2512.

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BUILDING SURVEYOR requires position, London/Essex area. Specifications, plans, quantities, site supervision, office routine and control, estate, valuations and fire claims work, etc. Write Box 6761.

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FOR SALE, at half price: Copies of "The Architects' Journal," November, 1943, to January, 1947, and odd copies between February and August, 1947. Box 6760.

YOUNG married Architectural STUDENT (no children), taking Finals in June, urgently requires Unfurnished Flat or Rooms in London area. 'Phone PER. 0963.

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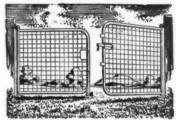
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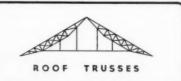
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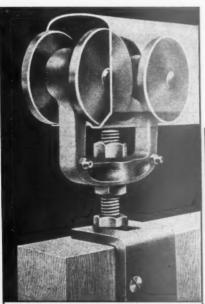


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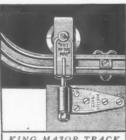
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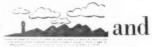
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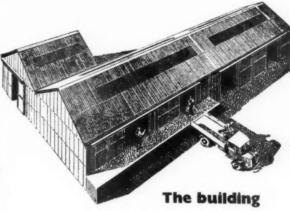
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