THE ARCHITE



standard

contents

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

and COMMENT NEWS

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PHYSICAL PLANNING SUPPLEMENT

BUILDINGS CURRENT

HOUSING STATISTICS

Architectural Appointments Vacant Wanted and

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

IGE Institution of Gas Engineers. 17 Corosychor Crescent, S.W.1. Sloane 8266

Institution of Gas Engineers. 1713 Stoom 8200 Institution of Heating and Ventilating Engineers. 75, Eaton Place, S.W.1. Sloane 3158/1601 IHVE

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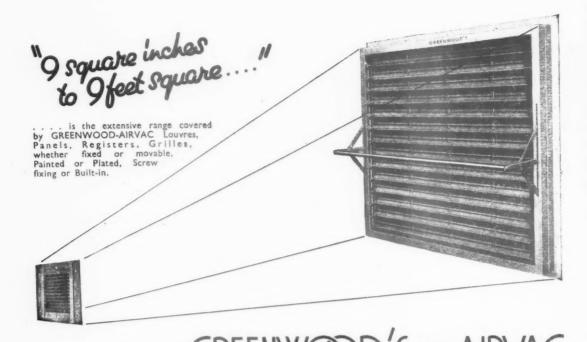
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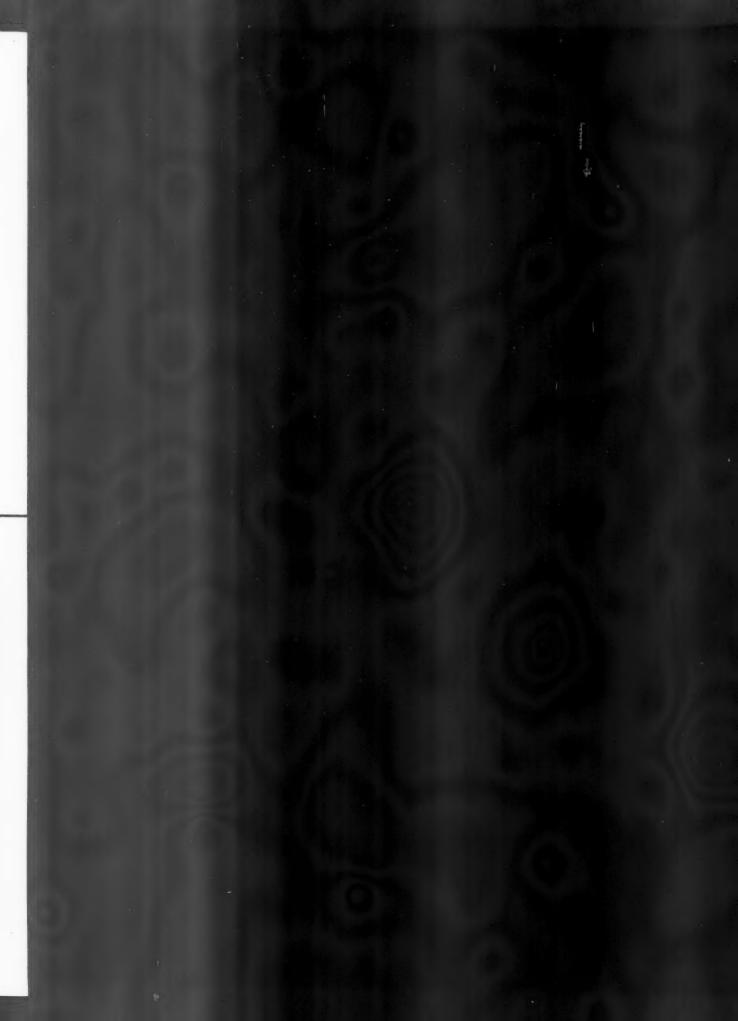
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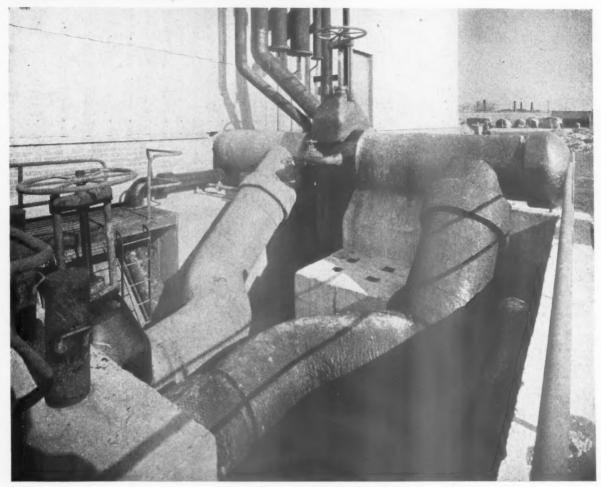
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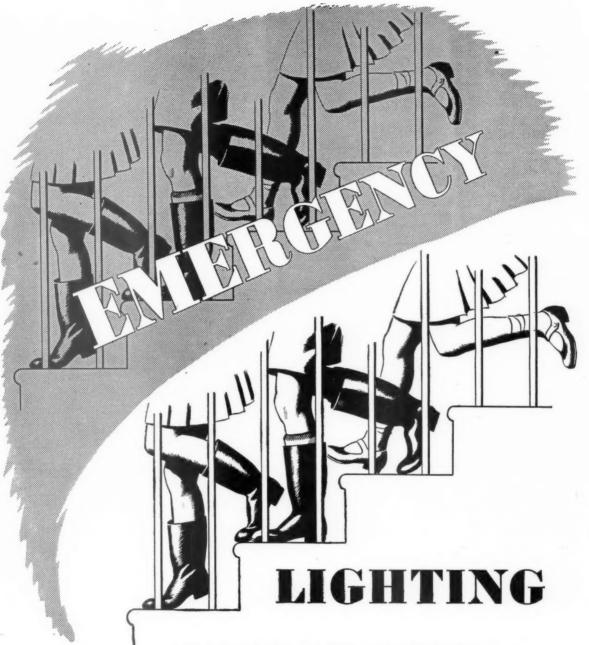
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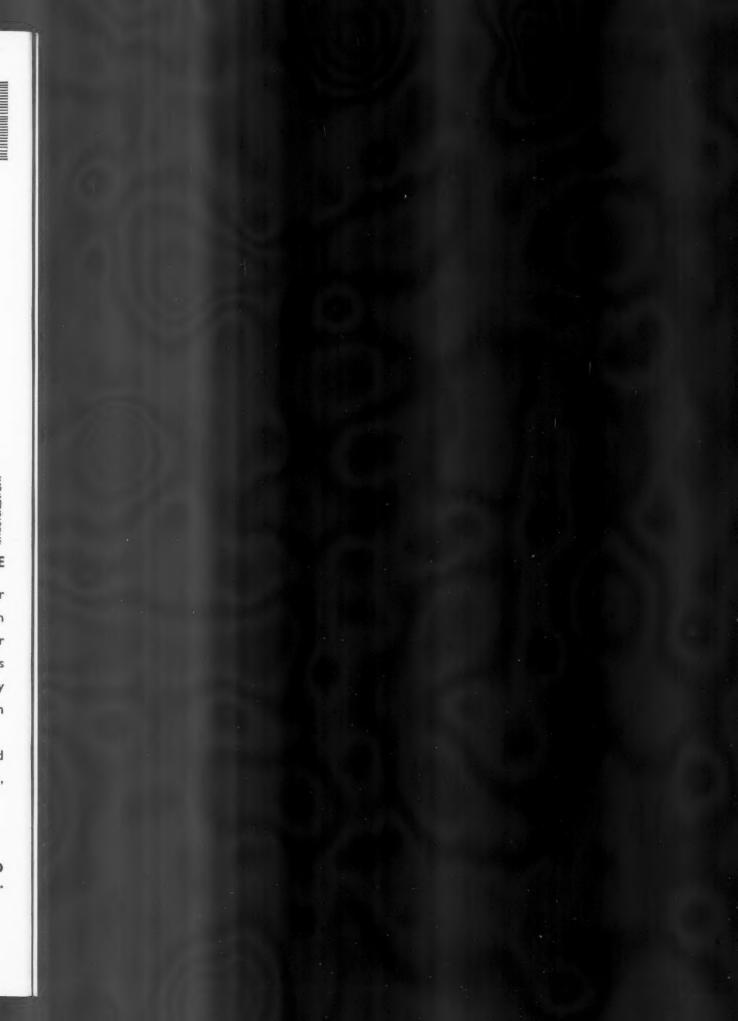
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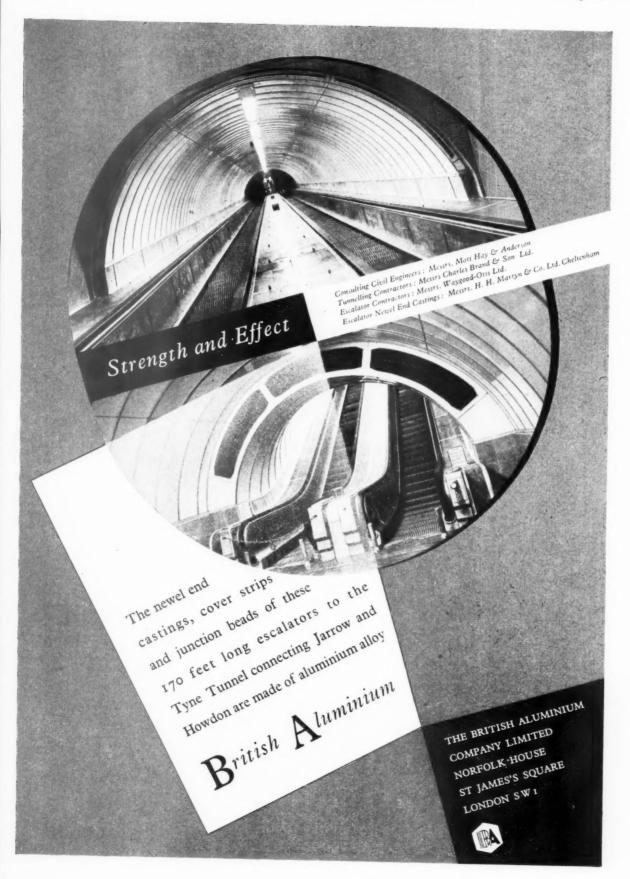
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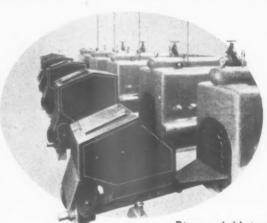
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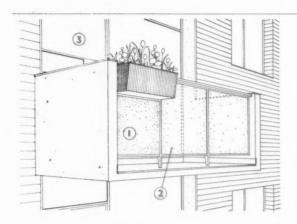
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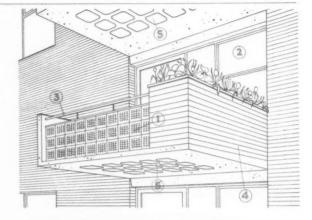
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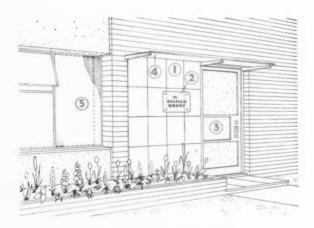
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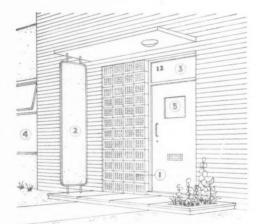
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- with zinc drip guard
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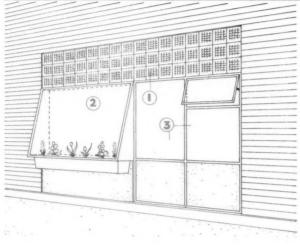
- and metal hand rail Flower box
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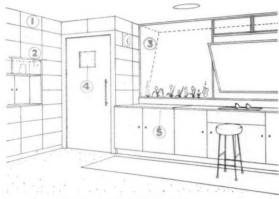
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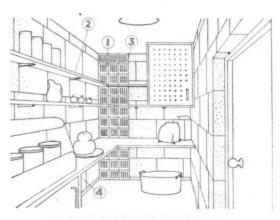
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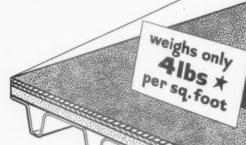
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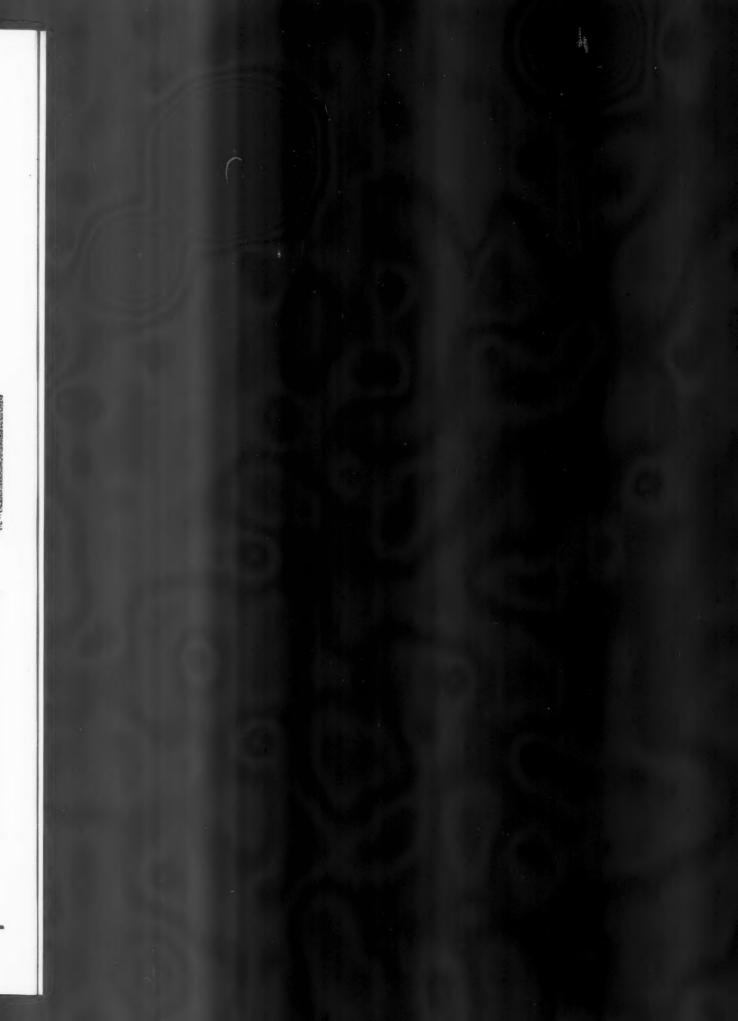
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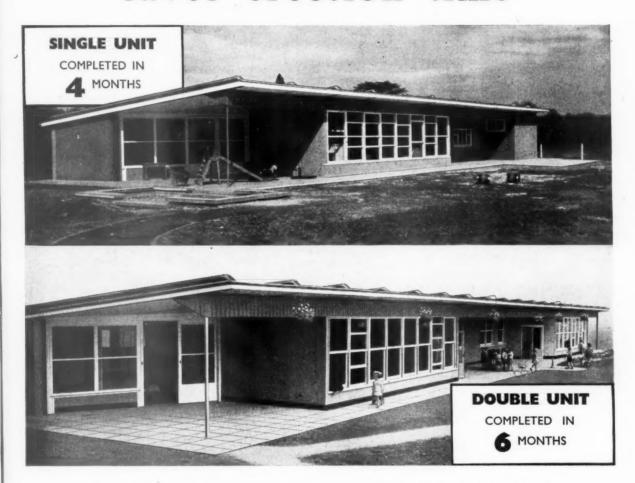


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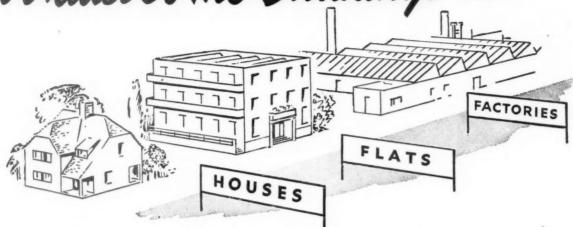
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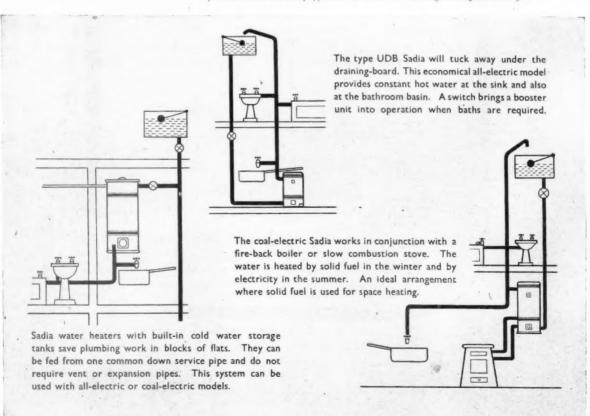
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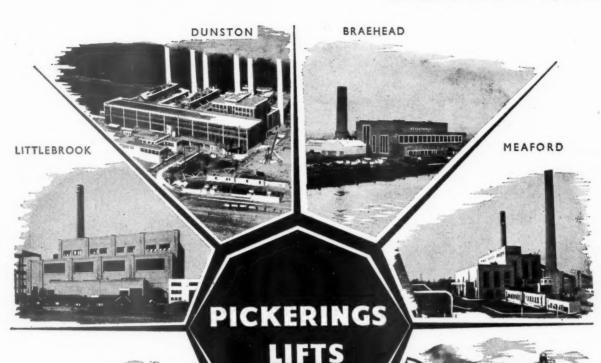


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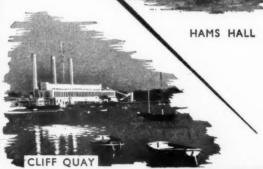
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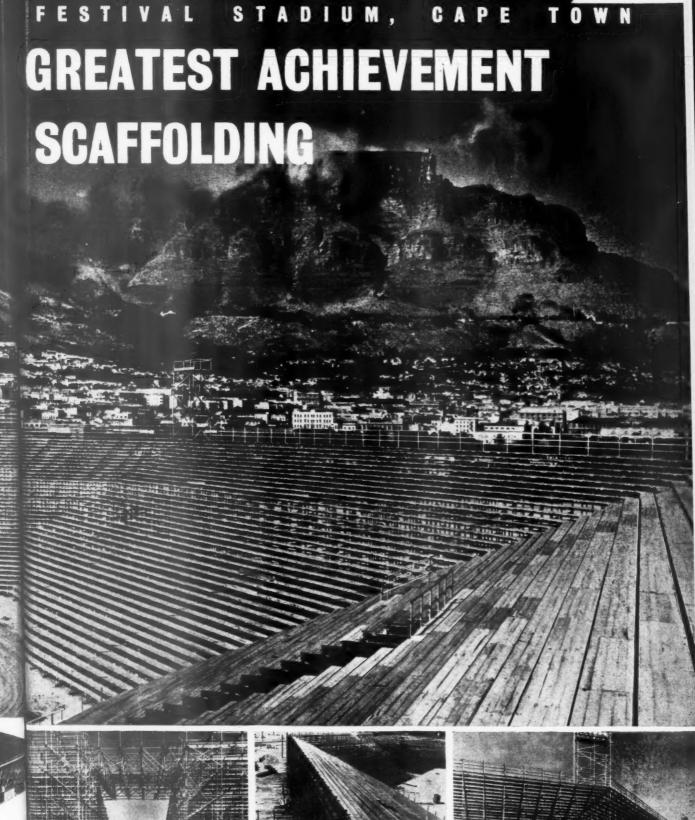
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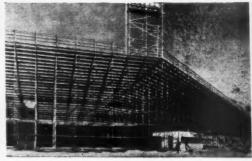
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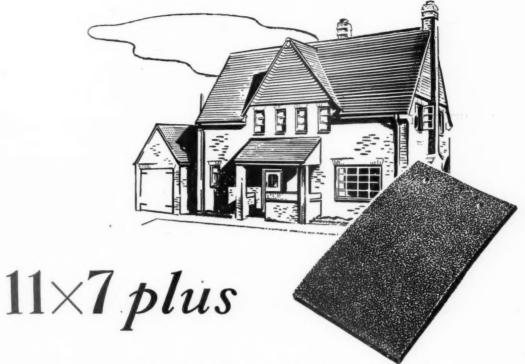
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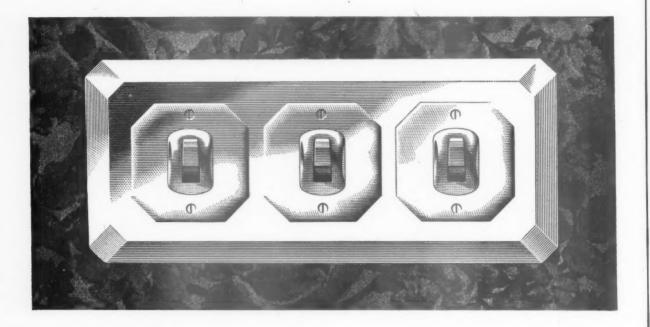
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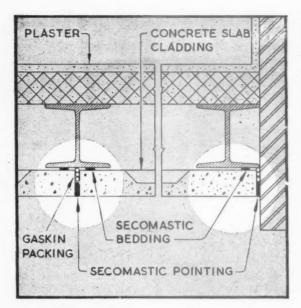
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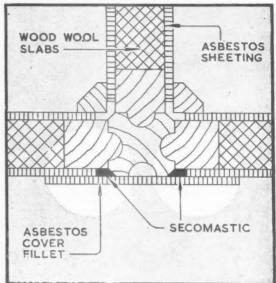
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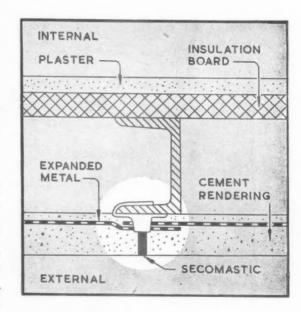
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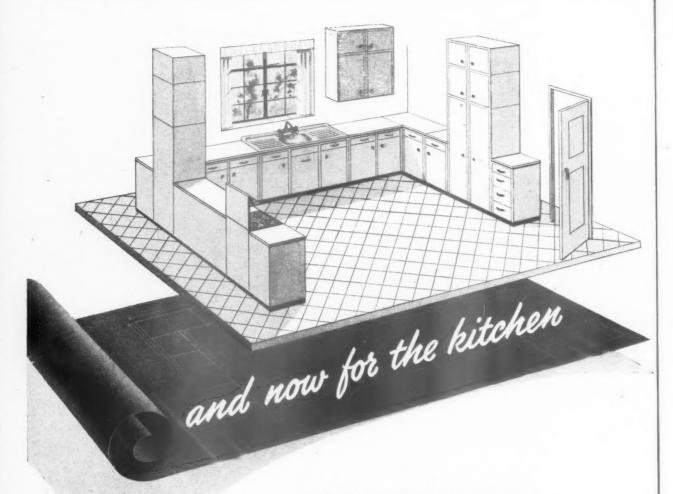
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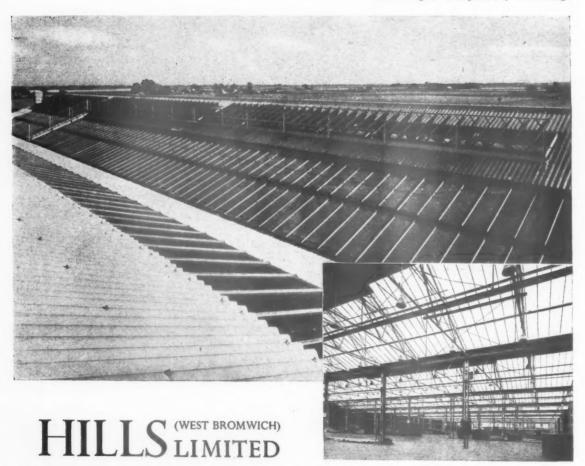
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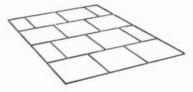
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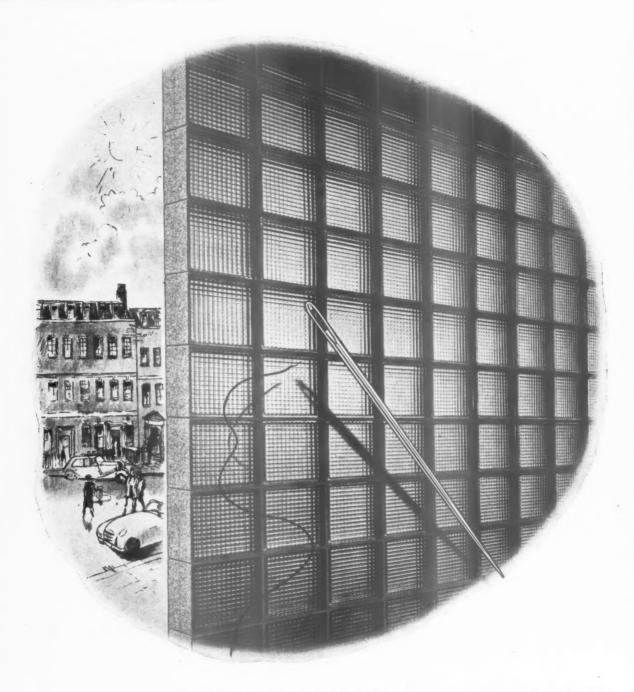
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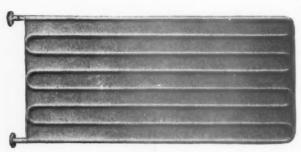
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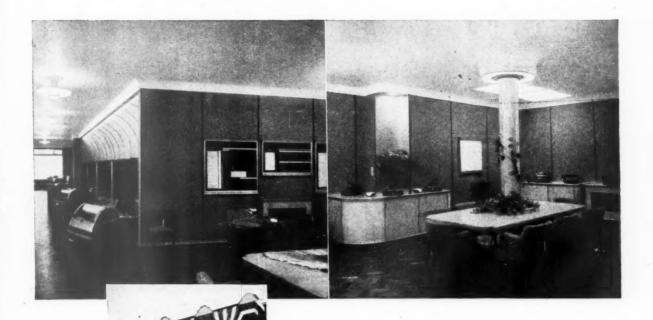
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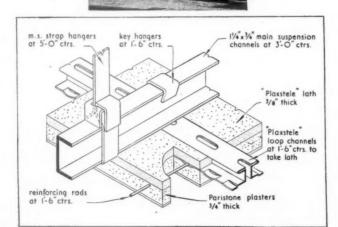
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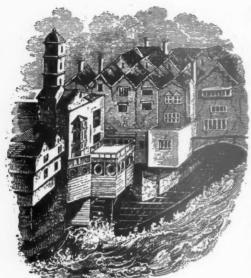
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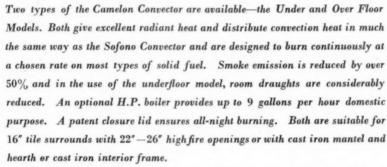
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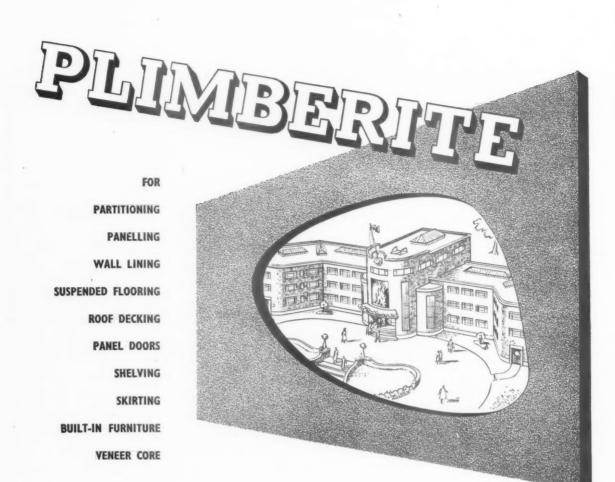
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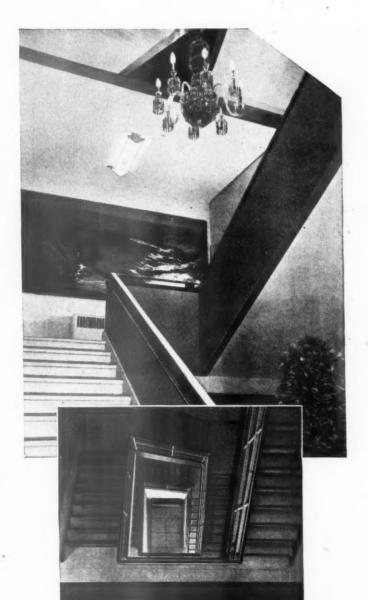
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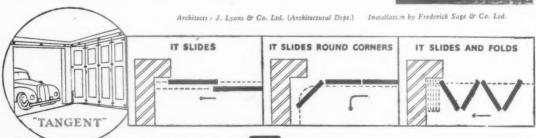
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THE ARCHITECTS' JOURNAL

May 15, 1952

VOL 115

No. 2985

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GROPIUS'S BOMB

The Chicago Chapter of the AIA is to study the lifting of the ban on architects engaging in building contracting. This is the result of what The Magazine of Building calls a "facts-of-life talk" by Walter Gropius. Good for Gropius. At the beginning of his career he did more than any man since Morris to bring designers back into contact with design technique; if, at the close of his career, he can bring them into something more than academic contact with the building industry then he will have done a big job indeed.

statement should come from Walter

Gropius, whose motives are beyond suspicion. So vital is the point that Gropius raises—even more vital its ramifications—that the Journal refers to it on page 595, at greater length than is possible in this column.

LLOYD WRIGHT EXHIBITION

When FLW stretched his giant limbs in the Strozzi Palace this JOURNAL published a comment by Jaqueline Tyrwhitt. Now that the show has moved rather nearer home-ironically enough to the Ecole des Beaux Arts. ASTRAGAL took his chance last week and slipped over to Paris to have a look. It is a gargantuan show, and none the better for that. I could not help wondering whether the old man had not done himself more harm than good. He has put in everything he's done, and no man can stand that.

Even Shakespeare and Shaw wrote some plays that are better left unacted. The world will remember Lloyd Wright because of Falling Waters, the Johnson Wax Building and one or two of his houses—and, I suppose, for reasons unarchitectural, the Imperial Hotel in Tokio-but all this art-nouveau-cum-Aztec would have been better buried and forgotten. It was fascinating to study the actual details which FLW drew himself some forty or fifty years ago-but as serious architecture they just don't start.

All the same it is something of a scandal that this great exhibition of the man whom Philip Johnson called "the greatest living architect of the nineteenth century" should never have come to this country. Gimbels, the It is such a good thing, too, that this great Philadelphia department store, staged the show originally. Since then

most European countries have shown it, or will show it. Not England. At one time, I believe, the V & A were willing to provide the space, if someone else would find the money for erection and transport. At that point the idea collapsed, and so FLW disciples must console themselves with a flying visit to Paris. In spite of my strictures it is well worth it. The exhibition is a curiosity, if nothing more. The drawings are quite fascinating, the photographs are superb and the models are abominable.

GEORGIAN GROUP

The Georgian Group has sent me particulars of its students' competition for a measured drawing of a "Georgian building," i.e., a building erected between 1688 and 1837. A wellwritten set of conditions, a £25 prize, no harm done and possibly much good. All the same the whole thing has a curiously old-fashioned ring and one wonders not only what sort of response there will be, but exactly what the Georgian Group's motives areallegedly, of course, to "encourage the study of Georgian architecture," but what lies beyond that-the discovery of assistants who can detail the next batch of sham Georgian banks when we return to "normality," or what?

And why "a building"? Not many Georgian façades are now unmeasured, and Georgian means so much more than this: colour, interiors, urbanism, the scale of the street are all elements in the eighteenth century system which are so much more important to us than the array of carefully proportioned sash-windows which this competition will produce. There are a dozen ways of approaching the problem . . . e.g., the study of the County Town suburb,



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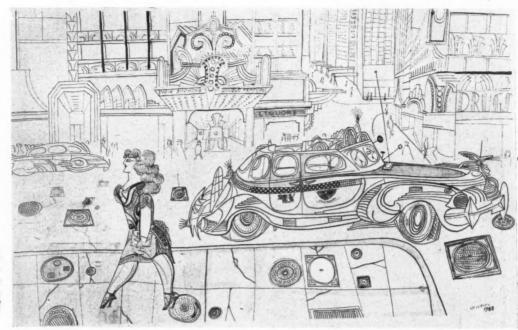
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This cautionary tale, "New York," is one of the drawings in the Steinberg exhibition at the ICA, which ASTRAGAL commented on last week.

the London terrace, urban planting, street furniture and so on. On second thoughts I suspect that the response will be enormous; the age limit is thirty and almost everyone who is eligible must have some fairly presentable drawing of a Georgian façade somewhere in their portfolio which they can clean up with some bread crumbs.

PLASTICS

All the experts who tackle plastics have so much to say about polymerizing and long molecular chains that the average architect gives up the unequal struggle and assumes that anything transparent is Perspex, while the rest are all lumped together as "plastics."

Good luck, therefore, to Joseph Singer, who has just produced a book* which attacks the whole problem from the architect's point of view, and deals mainly with uses and costs, the latter detail being all too often the one that the plastics enthusiasts forget. arrangement of the whole thing is logical: first, the merits and limitations of plastics in general, and then two main sections on exterior and interior uses, with plenty of diagrams and photographs. And in what some people call a "plastic age," it's a relief to find only eight pages or so on "future possibilities," and even those are what you might call conservative.

* Plastics in Building. Architectural Press. 18s.

SITE VALUES

Interested in site values? or do you shuffle your feet and say "Oh well" when the subject is raised as you're relaxing at the Club with the Men who Matter? In any case, here's something to help you keep your end up in the conversation.

In November, 1947, a committee was set up to report on whether site values should make some additional contribution to local expenditure. The committee's report has just been published, at a discouraging price,* and architects who are trying to coax someone to develop something will be relieved to learn that by a majority of 6 to 3 the Committee recommend that nothing should be done.

People have been itching to tax site values for a century, for it was clear that a landowner in or near big towns was receiving unearned income in a big way. The first grand attack was the 1947 Act, which took the sunshine out of the landowner's future, and the Committee had to decide whether existing site values should be rated. The majority think that site values have been unsettled by the 1947 Act, that their equitable assessmentaccording to any definition-would be very difficult, and that the prospective revenue would not be worth the effort. The minority, containing a powerful

* The Rating of Site Values. H.M.S.O., 1952. Price 5s. LCC strain, are not to be thus put off. They believe the owner should be rated and could be without being able to shift the burden on to his tenant, and they are prepared to face the difficulties of valuation.

Now you can relax again.

ANATOMY OF SCENERY

The theatre is a place where architecture and fantasy meet, and no architect can fail to be fascinated by the opportunities offered to the designer—especially the possibilities of spatial illusion—by stage scenery. Many great architects have availed themselves of these opportunities, not least Palladio and Inigo Jones, and many of the technical problems, and the solutions to them devised at different times, which Richard Southern describes and illustrates in his new book on theatrical scenery* are really architectural problems.

One architect whom it is surprising not to find mentioned is E. W. Godwin, Ellen Terry's husband, whom I referred to in another connection some weeks ago. The part he played in restoring to the designer in the late Victorian theatre some of the responsibility for the character of the production was considerable. Perhaps the explanation is that Godwin's contribu-

^{*} Changeable Scenery. By Richard Southern. Faber & Faber. Price 63s



Netted Skylon

There is, perhaps, a little too much good taste at the BIF exhibition at Earls Court and Olympia this year. At first glance it seems that the standard of display design has improved. But, apart from the areas that house the larger free-standing displays, there is too much uniformity. Doubtless the organizers confuse uniformity with unity. There is something rather naïve and insipid about the "planned" avenues at both exhibition buildings this year. This "planning," combined with echoes of "South Bank Contemporary," almost makes one wish for a little more vulgarity. But, of course, it is only the copyist who

endangers a style by using its elements in an irritatingly derivative manner. There are always imaginative designers who can make original use of the same elements. And it is encouraging to see that some of the BIF designers who are not hampered by restrictions—notably those of the larger stands—are avoiding the more blatant cliches, such as cantilevered platforms and flying stair-cases. It is amusing, too, to see that three of these have made use of vertical features. The one above, a mobile netted skylon by Richard Huws, is part of Basil Spence's Olympia stand for ICI. Others are on pages 601 to 603.

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His standard tion fascin and, is such a day as scene into e and t process desired

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tion was one of taste and æsthetics rather than on the side of stage mechanism. It is the latter which is Mr. Southern's special concern, and no one is more knowledgeable than he about it.

His book is likely to become the standard work on the origin and evolution of movable scenery. It is a fascinating history, full of ingenuities and, to ASTRAGAL at least, surprises, such as the fact that, in Inigo Jones's day and long after, the changing of the scene was part of the spectacle; it came into existence in order to be watched and the idea of a curtain hiding the process is very new, the result of a desire to create an illusion of real life.

SAD ADS.

Fellow addicts of American magazines may have noticed a new move lately in the advertising field—the use of physical affliction in the cause of elegance. Recent colour pictures in praise of a new line of shirts show the usual Man of Distinction-Miami suntan, clipped moustache, greving temples-in his shirt sleeves, but with a difference. Over one eye is a large black patch. And very rakish and chic it looks. Now, of course, in the film and theatre business this is an old trick. The carefully adjusted head bandage over the naval officer's brow in Act III, the piece of sticking plaster poised like a dimple on a film-star's cheek after a road crash, the empty sleeve, the tapping stick-all of them have proved themselves sturdy and loyal winners of sympathy on stage and screen.

But so far as I know this is the first appearance in the ad. pages-and since many ad.-men, like many architects, live by extending and diluting each good idea as it turns up, no doubt we can expect to see more of it. Personally I am against it. Let's have done with this parade of mutilés. Let's stick to the plunging neckline and the rousing slogan and not have our sympathies aroused irrelevantly. And if we must see distinguished gentlemen in their shirtsleeves let's see them where we've grown used to seeing them-in the locker room discussing a niblick with a friend, and not playing a recorder duet with a cripple.

y

ASTRAGAL

POINTS FROM THIS ISSUE

"Architects must become master-builders" says Gropius pages 591 and 595

Exhibition stands at the BIF pages 594 and 601

Guest Editors discuss group working in large offices .. page 597 -

More designs from the Royal Academy ... page 604

The Editors

THE ARCHITECT AS MASTER-BUILDER

WALTER GROPIUS spoke recently to the Chicago Chapter of the American Institute of Architects. His speech was important. "Architects," he said, "must regain the mediæval role of master-builder if they are to survive in the industrial age." And he said a good deal more about young architects doing site work and architects in general "heading the construction team."

Now that is the sort of thing that almost anyone supports in a vague, after-dinner-speech sort of manner; it is also just the sort of thing that every senior architect, every Allied Society and every RIBA Committee turns down flat the moment its practical implications are realized. Gropius's speech could, of course, be made a text for an historical dissertation on all the harm that the Renaissance did. That is old stuff—though true as well as old—but the real issue raised is nothing more nor less than the survival of the architect. Not, please note, "survival of the profession." That is the point: in an industrial and scientific society a "profession" has no place. For half a century the architectural profession has been making itself pure, as if it bore the same sort of burden of intimate confidences as the doctor or lawyer.

Integrity, we say, must always come first. But the private client is dead and the small contractor dying. If the architect is to build in a big way for big corporate bodies—from the state downwards—then somehow he has got to get back into contracting and into building itself. That, after all, is where he was throughout the whole of Bannister Fletcher (except the last chapter) and that is something of which every young architect today is very much aware.

There is, however, a kind of dream "norm" to which the RIBA clings desperately; a tidy "norm" with a number of private offices, each employing from two to twenty subservient, competent and unambitious assistants, and each office putting up buildings—mainly brick and wood—for private gentlemen, at six per cent. each. Every departure from this dream "norm" has been only reluctantly admitted. Of course it never was a "norm"; it was a very temporary situation existing for only about fifty of the last five thousand years. As recently as 1891 such distinguished men as J. D. Sedding,

T. G. Jackson, Norman Shaw, Alma Tadema and Burne-Iones were writing to The Times to point out the disastrous consequences that might result from turning a great art into

a closed profession.

Today the great designer, of extreme technical competence, is wanted as never before. His place is in the laboratory, the factory and the building contractor's office as much as in the planning departments of local authority. As a young man, Gropius realized dimly what was ahead of us and tried to meet the situation with the Bauhaus. Looking around him today he realizes that the time has come for the next step. In this country at any rate it will not be an easy one, but it has got to be taken.



7. Williams, G. H. Fletcher and L. Auton, A. A. A.R.I.B.A. " 17 Manchester Salaried Architects" Peter D. Hammond, A.R.I.B.A. " Associate" H. R. Lister, A.R.I.B.A.

Architects' Salaries: Twentythree Readers say Solution is in Ballot Box

SIR.—Further to the letter from the City Architect's Department, Coventry, published in your issue of April 10, regarding architect's salaries, an opportunity now arises to put into effect the remedy set out in their letter.

Elections for the RIBA council are to take place shortly, and it is the duty of all salaried members to use their vote and right of nomination to ensure that salaried architects obtain a more equitable representation on the councils of the RIBA.

J. WILLIAMS G. H. FLETCHER, L. AUTON.

SIR,—Mr. L. C. Howitt, writing as chairman of the RIBA Salaried and Official Architects' Committee (AJ. May 1) clearly shows that amidst a changing and developing society the RIBA at least stands undeviating on the impregnable rock of its Regency

ideals. But the wealthy and cultivated aristocrat who is the client about whom all the RIBA codes revolve has passed for ever from the scene. In his place is a patron of a new kind, who has little or no architectural consciousness, and is never likely to gain any if current policy persists: for the architect is debarred from advertising what he does or is, and the RIBA won't do it for him. Little wonder then that Mr. Howitt can write "We have not yet either the legal the general public acceptance of the indispensability of our art, such as is enjoyed by the Medical Profession."

indispensability of our art, such as is elijoyed by the Medical Profession."

If this is the case, then we must leave no
stone unturned to alter it, or our days as
architects are numbered. We must, to put
no finer point on it, present ourselves and
our work in a clear and attractive manner
to the Great British Public. The doctors
indeed, have already taken this step with
regard to their own profession: witness the
launching of their popular magazine
Family Doctor. Surely raising the standard of public consciousness and appreciation of architecture doesn't fall outside the
Charter of the RIBA?

The Council of the RIBA, we are told, has
never opposed the will of the Salaried and
Official Architects' Committee on any important issue. This is not surprising in view
of the fact that the Committee doesn't seem
to have a will to oppose—or at least none

to have a will to oppose—or at least none that can really effect an improvement in the that can rearry effect at improvement the Salaried Architect's status. We have studied the latest RIBA report, and the nearest thing to an expression of will we could find was that "The Committee are considering whether there is any effective action they can properly recommend the Council to take in regard to certain aspects of the report (on Civil Service pay) which appeared to them to have dealt inadequately with some of the

causes of dissatisfaction."

We wish to go on record as supporting whole-heartedly the views of the staff of the City Architect of Coventry: the RIBA must move with the times: it must provide the solid backing that the salaried architects—the majority of its members—need. And we will start the process with our ballot

17 MANCHESTER SALARIED ARCHITECTS.

SIR,-I read with interest Leonard C. SIR,—I read with interest Leonard C. Howitt's reply to the recent letters in your columns dealing with architects in local government offices. Although I appreciate that his efforts on the RIBA Salaried and Official Architects' Committee are directed towards watching over the lot of salaried architects, it does appear that these efforts are not producing the results hoped for by his fellow official architects.

May I suggest that the main bone of contention is that the RIBA does lay down the scale of professional charges for private practitioners, but seems unable, at present,

practitioners, but seems unable, at present,

to similarly lay down scales of salaries for official architects. The remuneration of private practitioners being based upon a percentage fee basis is automatically increased or decreased by the cost of building and thus under present conditions, as the cost of building is continually rising due to the increased costs of labour and materials, the private practitioner's income has also increased and tends to keep in step with the rising cost of living. With the salaried architect, however, no such state of affairs exists and he is undoubtedly in a much less favourable position.

Surely it is in the interest of both the RIBA and the architectural profession generally that architects, whether private practitioners or salaried officials, should be adequately paid for their services and the correct body to assist in this object would appear to be the RIBA itself. If, therefore, as Mr. Howitt states in his letter, the RIBA is at present constitutionally unable to assist in negotiating and securing scales of salaries for its salaried members, I submit that the constitution should be changed to allow it

to do so.

PETER D. HAMMOND.

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Bristol

SIR,—It is difficult to see how Leonard Howitt in his official capacities could reply differently to the recent correspondence in your columns.

Yet if we older associates, forced nolens volens into local government offices, cannot rely on the Institute to protect our interests where are we to turn? Are we to go to where are we to turn? Are we to go to NALGO, an organization that appears to be

mainly devoted to clerks? Surely if the constitution of the Institute is such that it cannot act in these matters, then we should all get together and try to have it changed, there are enough of us goodness knows.

The real fact of the matter is that the RIBA by their encouragement of the official architect have brought down the value and standassociates should not have to seek employment in such offices, the work should be sent out to us as independent private architects.

What chance is there of our ever setting up on our own when work is carried out at cut rates by an official architects' department?

The Institute should be taking every possible step to get its qualified members into independent private practice.

" ASSOCIATE."

SIR,—Mr. Howitt's letter on the correspondence in your columns regarding architects' salaries appears to leave much to be desired.

To begin with, he accuses Coventry City Architect's Department of lack of know-ledge of the work and objects of the RIBA Council. This can only be the fault of the RIBA in not keeping its members better in-

It is obvious that one cannot compare the RIBA with the BMA—the comparison must be between the RIBA and the General Medical Council. The BMA was set up by members of the medical profession to safe-guard their interests, and it would appear that some similar organization is required in the architectural profession.

I agree with the staff of the Coventry City I agree with the staff of the Coventry City Architect's Department that salaried architects should seek election to the RIBA Council. but I feel that there should be a co-ordinated effort to achieve this end. I suggest that a Salaried Architects' Association should be set up which could nominate its candidates for election to the RIBA Council. It should be open to the salaried architects in both public and private offices. I agree with Mr. Howitt that we do not want a split in the profession.

Suffolk.

H. R. LISTER.



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The problems which have become apparent in existing and new public offices due to the very large increase of work of all kinds were pointed out by the Guest Editors in their last article. In previous articles they have briefly described the growth of Public Architecture and reviewed the present position. In particular the question of the size appeared to be a controversial aspect of public office in view of the general belief that the large office is unpleasant to work in and that it tends automatically to produce bad architecture. The large office, good and bad, exists as a typical development of modern society and it is idle to speculate on how to prevent its occurrence. The Guest Editors, however, feel that the size of the office is not necessarily the main difficulty, but that the key to the problem lies in the size of the groups into which the office is sub-divided, and the degree of responsibility accorded to them. Being aware that their opinions as chief officers on working in groups might not coincide with those of the rank and file of the profession, they have obtained the views of two young architects of proved ability who have worked as members of groups in offices where this system has been developed. The following article is

therefore written to illustrate the point of view of the junior member of the profession who has decided to make his future in the Public Office. The Guest Editors are (from top left): Robert Gardner-Medwin, Chief Architect and Planning Officer to the Department of Health for Scotland; Robert Matthew, Architect to the LCC; Donald Gibson, City Architect and Planning Officer of Coventry; and Stirrat Johnson-Marshall, Chief Architect to the MOE.

The Guest Editors

GROUP WORKING AND THE LARGE OFFICE

E VERY form of corporate effort in society sets its own problems of organization. One of our tasks is to tackle the problems, real and imaginary, of the large public architectural office. It is, of course, mainly a challenge to our organizing ability, but it must be tackled not only from the point of view of the chief architect who has to run the office, but also from the point of view of the newly qualified architect who, has decided to start his career in public architecture.

PUBLIC VERSUS PRIVATE PRACTICE

Now it is a popularly held idea among young archifects that the small private office is the best, not only for the human conditions of work but also for the production of good architecture. We know that the best private architects today—and we judge them as best by the quality of their work and not from the wealth that derives from it—have arranged their offices so as to ensure that they are the master designers in the design team, and have consciously limited the size of their offices to ensure this. But here we need to distinguish between two things.

The first is the keenness of the staff to produce their best work, and the second is being able to meet the architectural conditions of work which one is given. It might be possible in the small private office to get the very best work out of the staff and still not be able to meet certain conditions—such as developing techniques over a large continuing programme. Conversely, a large public office might be able to meet the actual conditions of work but may be unable to get the best work from its staff. We hope to show that the big public office is capable of achieving both.

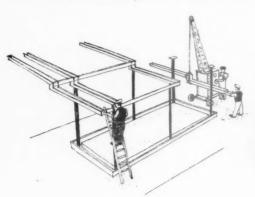
GROUP WORKING

The greatest threat, real or imagined, to the architect in the large public office is the loss of individuality, the fear that he has become an impersonal factor in a large and unwieldy machine. Is it possible that the method of working in small groups, such as those being developed with success in some offices today, can be made generally applicable to all large offices?

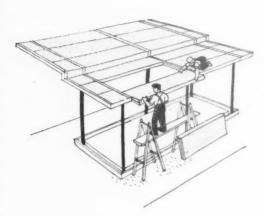
Before discussing these practical experiments in group working we ought, to avoid misunderstanding, to consider

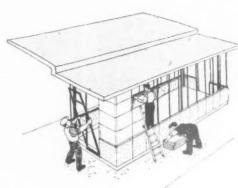
an alternative system with which they are often confused. This alternative system also goes by the name of group working, and is practised at some of the more progressive architectural schools. In this system all the members of the group work on an extremely democratic basis and each member is responsible for a portion of the research essential before preparing a design. Each individual has equal responsibility in the design, and an attempt is made to utilize his designing capacity on architectural problems to the best advantage. One member of the group may, or may not be, appointed as chairman but at any rate it is usual to have one member responsible for the coordination of the activities of the other members. Such a system of group working has been tried out, with certain amendments, by at least one private architectural firm, but considerable modification proved necessary. In fact, it has arisen in architectural schools as a method of ensuring that a group of students cover in detail the diverse problems inherent in one complex modern structure, and the egalitarian form it takes is, perhaps, a result of the annual intake of students. It is extremely unlikely that any group system of this sort could ever work successfully in any public office.

In order to show the troubles inherent in, as well as the advantages of, group working, we asked for comments from









An example of development work in railway station design undertaken by a public architect's office—that of the LMS. Above left, and left, three stages in the construction. Above, a completed structure at Marsh Lane. (Sketches by Sir Hugh Casson.)

two architects who had had experience of it, both in a junior capacity. We put questions to these architects under the following four headings: First, what should be the size of a group and what should be the type of personality of a member of such a group? Second, what should be the groups' relationship with the chief architect and the remainder of the office both as regards administration and practice? Third, what should be the physical conditions under which they will work? Fourth, how do the external factors of architectural practice (i.e., the planning controls, byelaws and other controls) impinge on group working?

The first problem is, then, the correct size for a group. Inevitably this will vary according to the type of building which is to be designed and erected. Our two guests here gave an example from their own experience. They find that for a continuing programme for educational buildings costing between £50,000 and £250,000, the best number consists of about ten architects. Not all these will necessarily be of equal experience. Up to four can be newly qualified, and can function partly as draughtsmen. This figure of ten can only be taken as valid for those particular conditions of building schools of a certain size. It is difficult to obtain precise data of sizes of groups which have been proved effective for different types of buildings and different kinds of building programmes; but it is fair perhaps to assume that this size is nearing an upper limit for a group which will have the desirable qualities experienced in the best private offices.

As regards the type of person who is desirable for such an activity as group working, the architects whose views on these problems we had invited expressed a desire for people with considerable self-reliance and with a certain amount of experience. certain Obviously the architect straight from school cannot be given equal responsibility from the start with the rest of the group. However, a newcomer to such a group can see that he is entering at the bottom of what could be considered as a complete architectural cycle in which he can progress from assistant draughtsman to the position of group leader, or architect, in the truest sense of the word, and therefore nearly at the top of the architectural tree.

THE GROUP LEADER

Now it is this role of group leader which is essential to the efficient working of the system. It is vital that there should be one man in charge of the group who should have a very considerable amount of authority, and be responsible directly to the chief architect of the local authority. We must therefore study this position more closely.

Such a group leader, our guests agreed, need not necessarily be the strongest man on design. He is responsible for ensuring that the designing and building operations go forward smoothly, and he will arrange his team in collaboration with the chief architect so as to ensure a membership of his group which is most suitable for the production of the buildings for which he is responsible. It can be seen that if the system of group working is introduced into a public office it may be necessary to have a group wholly responsible for each type of building which is produced by the office. One therefore gets a set-up of chief architect, possibly with a deputy, and a number of groups which vary in size according to their building subject and programme, each in the charge of a group leader. It can be argued that the responsibilities of this group leader towards his staff should be considerable if he is to have their full confidence and support. There might be an argument for insisting that he is present at the selection of staff for his group by the chief architect. There is an objection to this, of course, on the part of chief architects, who may feel that such an action would limit the flexibility of their staff, and cause them to be unable to make those adjustments to sudden demands by moving assistants from one group to another, as the occasion merits.

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GROUP WELFARE AND DIS-CIPLINE

In addition to his job of producing buildings, the group architect or leader, they suggest, should be responsible for both promotion and demotion, after discussion with his own boss, the chief architect. normally a certain reluctance on the part of the group leader to tell tales to the chief architect. This reluctance disappears with the increase of his own authority. He should also be responsible for the more trivial details of dayto-day discipline in the office. One such item which seems to cause controversy quite out of proportion to its importance is the problem of "signing " on arrival in the morning at the office. There is a reluctance on the part of senior staff members to be forced to conform to this type of discipline, and the argument is that as there is no limit to the hours he may be called upon to work in the evenings there is no necessity to ensure punctuality in the morning. The whole system of time-keeping tends to be more thorough in the public office than in the private, and it is perhaps the outcome of architects having to work under the same conditions as clerks and other large bodies of staff in the public office. It is, of course, essential that there should be some form of time-keeping, so as to be able to show the "client" the amount of work which is being done by the architects on the various designs. The preparation of such a time-schedule could

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hat bup ononbe is his e is the feel the ements sisas be the task of the group architect, and, if he is given summent responsibility for his staff, better feeling will prevail if he is able, when necessary, to cut red tape and ensure that the extra efforts of his staff in times of emergency are made up for when times and conditions are easier.

If good conditions of working are to be produced, all those factors which tend to make work be considered as a penance rather than a delight should be removed. Architects who have chosen freely their career should de-light in their work, and should not count the time they spend at it by minutes. The discipline in their work should be self-imposed. If flexibility in the hours of work were permitted there would seem to be no cause for the paying of overtime. It is better that they should be paid a given salary for a given job and accept the full responsibility that goes with it, including the possibility of dismissal for real inefficiency.

There is also an incidental advantage in having a larger office. It often occurs that a man is inefficient in his job not because of inability but because he is not suited to it—in other words, a square peg in a round hole. The large office allows the chief architect a greater chance of finding the necessary "square holes" for such cases

ARCHITECT-CLIENT RELATION-SHIP

If, by this system of grouping architects, good conditions of work are

created which are comparable with those of the envied small private offices, it must not be forgotten that there are other important aspects of running an office which must also be met. The more intimate relationship between client and architect found in the best private offices must also be achieved in the public office. This, as far as the "client" committee is concerned, is often achieved by the group architect attending committee meetings, with, or without, the chief architect. In perfect conditions one would like the whole of the group to attend such meetings in order to discuss problems, but it is no more likely to be achieved in the public office than it is in a private one. On the other hand, it is often easier for the public office to go some way towards this if conditions are favourable. But more important is the fact that, in a public office responsible for educational buildings, for instance, it is possible for members of the architectural team designing schools to get to know well their opposite numbers in the educational department and be able to discuss day-to-day problems at almost any time. This will provide just that stimulus and detailed knowledge which is necessary to encourage good design, the principle being that the person doing the design should have direct access to whoever represents the client.

PHYSICAL CONDITIONS

Now a few words on the actual physical conditions in which one works. It is obvious that one's surroundings

A proposed College of Further Education at Ashtonunder - Lyne, designed under the direction of G. Noel Hill, County Architect of Lancashire. This college, with two others in the same county, will be fully illustrated in a further issue.



are bound to have an influence on efficiency. Quite apart from the obvious aspect that drawing offices should have a reasonable standard of comfort, there is the problem of size. We mentioned earlier the dislikes all architects and their assistants have for feeling that they are cogs in an impersonal machine. Ideally, therefore, they should not be thrown all together in one vast drawing office. The prospect of doing creative work of sensitivity in a room with fifty other people and with a peep-hole at one end to ensure that discipline is maintained, is abhorrent to everyone. For the convenience of the team, the group leader should be either in the same room or in an office just off it, and similarly for his own convenience it is better that the chief architect should be as close as possible. It can make a considerable difference to the sense of impersonality in an office if the chief architect is not only physically close at hand and accessible to his staff, but also that he is able to visit the drawing office and study the work in progress for himself. In addition, the closest co-ordination, between the chief and the group leaders, which is most easily achieved by proximity of office, is obviously essential.

SUMMARY

Although we are well aware that there is a broad range of problems still left untouched, we think that one good form of office organization has been suggested in which the young architect can help to produce architecture of the best quality and feel at the same time that he is playing a vital part. There remains, however, the problem of the groups' relationship with the external factors—such as byelaws and building regulations—of architectural practice, and these very involved and contentious matters we propose tackling in in another article.

To summarize our conclusions so far, therefore: first, we think it is not so much a question of size of office (although there is undoubtedly an upper limit) as of organization. An organization of small or smallish groups or teams can do the job, provided the organization of the group, and its responsibilities, are carefully considered. It must have a good leader, and he must be given a generous measure not only of technical, but also of staff responsibility. The closest co-ordination must exist between the chief architect and the group leaders. Finally, the physical conditions must not be overlooked; cut out the one large drawing office, see that the group leader is right by his group, and that the chief is not too far Each architect, as a group member, must be treated as a responsible professional person, and, in being given greater opportunities and free-dom he must also accept greater responsibilities and obligations.



GG

Prize Offered for Set of Measured Drawings

The Georgian Group is offering a prize of £25 for the best set of measured drawings of a Georgian building. The assessors will be Godfrey Allen, Edward Maufe and S. E. Dykes-Bower.

The competition will be open to any student of any school of architecture in England and Wales recognized for exemption from the RIBA Intermediate Examination, or the Institute's Intermediate and Final Examinations. Or, he may be attending any school of architecture approved by the RIBA, any art school, or he may be working in an architect's office. All candidates must be in one or other of these situations on June 1, 1952, and have not passed the RIBA Final or equivalent examination. In addition, he must not be over the age of 30. Full details of the competition may be obtained from the Secretary, Georgian Group, 27, Grosvenor Place, S.W.1.

LIVERPOOL

Commonwealth Award for Student

A Commonwealth Fund Fellowship has this year again been awarded to a graduate of the Liverpool School of Architecture—Derek R. H. Phillips. This is the tenth to be gained by a graduate of the School since the Fellowships were first inaugurated in 1925.

The Fellowship, which is tenable in an American University for a period of twelve months in the first instance, may be extended for a further nine months. It covers the full expenses of travel to, from and in the United States and of residence and study there.



Whilst in America, Mr. Phillips will be working in the University of California. There he will investigate the possibilities of achieving economies in urban planning and building by the application of the results of research in the field of natural illumination. In choosing this subject he will be pursuing further a programme of independent study which has involved visits to Italy and Spain, and on which he has been engaged since 1948.



The photograph above shows the sideboard by George M. H. Richardson, which won the first-class award of £70, at a competition held in Glasgow recently by the COID Scottish Committee. The competition was organized for the benefit of Scottish craftsmen and all the furniture was hand-made.

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Furniture Design: New Approach Being Sought

Professor R. D. Russell, of the Royal College of Art, London, urged a re-examination of their problem on furniture designers when speaking in Glasgow recently.

"I am sure that the development of a contemporary vernacular depends firstly upon finding out what people want and like in the broadest sense," he said. "I think they like warm colour and a certain solidity and although Jacobean reproductions give them these there must be dozens of alternatives, for it is not really Jacobean furniture that people really want but furniture that is warm and cosy."

He was speaking at a meeting in the Building Centre, Glasgow, arranged by the Council of Industrial Design Scottish Committee to give entrants to their recent Furniture Design Competition an opportunity to discuss the results with the judges, Professor Russell, Neil Morris, the Glasgow manufacturer, and David Woolfson of Elders, the Glasgow retailers.

facturer, and David Woolfson of Elders, the Glasgow retailers.

"This particular competition seemed to be a particularly interesting and pertinent one, for its aim was to make at least the beginnings of a new and at the same time popular vernacular in contemporary furniture," said Professor Russell. "It seemed to the jury that this challenge had not been accepted by the great majority of the entrants and the purpose of this meeting is to make clear the terms of reference and to discuss possible next steps.

"To be really successful furniture must not only be well and sensitively designed; it must also be capable of being economically produced for a mass market and it must be acceptable by that market. If it fails in any one of these three respects it is, to some extent, a failure in total. The essential relationship, the trinity, of designer, maker and buyer must be maintained and it may be quite as illogical to say that any design is really good in spite of the fact that it does not sell well as it is to say that one is really good because it does sell. Both things are, in fact, said only too often.

"Let us just consider for a moment the development of contemporary furniture design. This has been, broadly speaking, either evolutionary or revolutionary; obviously it is not, in fact, quite as black and white as this for most designs have been a mixture of the two to some extent. It is possible to break this down even further by saying that furniture has been either evolutionary or revolutionary both in its plan or arrangement of storage which effects the general form and also in its structure which effects the detail and perhaps the form too.

"For instance, the storage unit for a dining room might be planned in a revolutionary sense ignoring the form of a traditional and functionally outmoded sideboard and yet, at the same time, might be of traditional structure; in the case of a chair, on the other hand, the fundamental requirement of providing surfaces on which to sit and rest your back against has never changed so that here the form is bound to be an evolution although the structure may be a revolution.

"Now the market for furniture of revolutionary structure is bound, I think, to be an intellectual one and a very small one. From the point of view of this competition, intended to produce furniture for a pretty conservative mass market in Scotland, the evolutionary approach to structure seems to be inescapable.

"I think it is fair to say that the best Scandinavian furniture, and notably the best Danish, has been designed in this way: on the other hand, the most interesting Italian and American furniture has been revolutionary. Now, Scandinavian design is

THE BIF: OLYMPIA AND EARL'S COURT



The stand for Shell Chemicals at Olympia was designed by Ronald Dickens to give an impression of a control room at the Stanlow refinery chemical plant. A world map, to the right of the photograph, is floating on water and indicates the distribution areas controlled by the company. The vertical feature symbolizes a distillation tower. The basic structure of the stand is 2 in. tubular steel. Below, the Guinness stand's interior at Earl's Court, designed by Robert Wetmore, of Cockade, Ltd.



THE BRITISH INDUSTRY FAIR: STANDS AT EARL'S COURT AND OLYMPIA



Left: the Monsanto Chemicals' stand was designed by F. M. Gross, who won a limited competition organised by the firm. It contains 4 interviewing offices, I general office, a large reception area and a bar. Below: the stand for Distillers Company, designed by Edwin Galligan. The tower of girders, supporting a stainless steel distillation column, is part of a plant soon to be used in development work. Opposite, top: Howards' stand, designed by Albert Smith. The large vertical background screen, built up of a pattern of coloured casement cloth supported by tubular steel, attracts attention from a distance and acts as a foil to the model bee (wing span 18 ft.) by Richard Dendy, which acts as a symbol for the activities of the chemical industry. An office is placed centrally on the site. bottom: the BOAC and BEA stand by John Lansdell has a central enquiry counter and office accommodation. From it spring 3 single piece pine pylons, 29 ft. long. These support models of the "Comet" and the "Viscount."







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accepted by designers throughout the world as the best of its type but I think that both designers and makers of furniture have pretty consistently made the mistake of taking their inspiration from the best contemporary designs on the one hand or from the best selling lines on the other without going back to the root causes that made them either good or acceptable.

"The Scandinavian tradition, and again particularly the Danish one, has been based on the work of the British eighteenth cen-It has been adopted by men with great feeling for quality and detail for use in Scandinavian rooms. These rooms tend to be light and airy and centrally heated and could not be much more different from the usual run of small British homes which are fairly dark and fairly stuffy and often exceedingly cold except for a minute area of intense heat round the fire. So the light, hard, elegant furniture of Scandinavia just will not go down in the mass market in this country and quite rightly.

Now there is no reason in the world why other furniture should not be as good in its own way as the best Scandinavian furniture. It will not be the same and it will not sell in Denmark, but then Danish furniture as we have suggested will not sell in Scotland. The source when you come down to it, is the same; it is the best of the British eighteenth and early nineteenth centuries, and do not forget that this includes the work of im-mensely distinguished Scotsmen such as the brothers Adam.

"So there, as I see it, is the problem. First the analysis of public demand and then the evolution of a contemporary type of furniture from the splendid inspiration of the past. But it is no good taking somebody else's solution designed for a different purpose, using the attractive tricks to be found in this and giving it a bit more weight for Scottish homes and it is no good just drifting mindlessly back towards reproductions of reproductions of old furniture."

Correction

In the issue of April 24 the south elevation of the north side of St. George's Street, Canterbury, published on pages 514 and 515, the elevation of Barclays Bank is not a true reproduction of the elevation designed by the architects, Messrs. Willan, Stewart & Waite. The caption to the illustration stated that there was only one design by a local private there was only one design by a local private architect. This was incorrect; the firm of Willan, Stewart & Waite practise in Canterbury as well as at Dover and Folkestone.

DIARY

Hammersmith School of Building and Arts and Crafts and Architectural Training Exhi-bition. At BC, 26, Store Street, Tottenham Court Road, W.C.1. Weekdays, 9.30 a.m. to 5 p.m. Saturdays, 9.30 a.m. to 1 p.m. UNTIL MAY 24

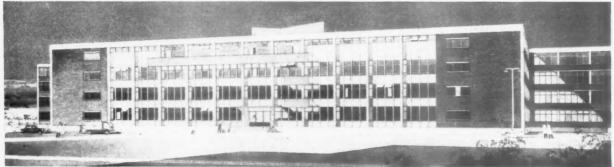
The Festival of Britain in Retrospect. Sir Gerald Barry. At RSA, John Adam Street, W.C.2. 6 p.m.

National Parks with Particular Reference to the Pennine Way. Tom Stephenson. At 28, King Street, Covent Garden, W.C.2. (Sponsor: TCPA, Students' Planning Group.) MAY 15 6.30 p.m.

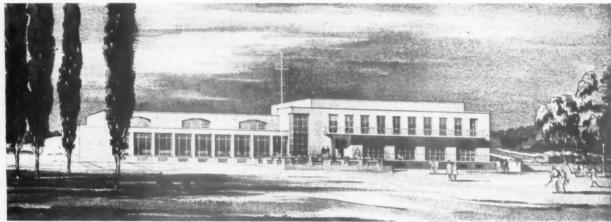
Town Planning in Kuwait. P. W. Mac-farlane. At 28, King Street, Covent Garden, W.C.2. (Sponsor: TCPA Students' Planning Group.) 6.30 p.m.

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

ROYAL ACADEMY SUMMER EXHIBITION: A SELECTION



Drawn by R. T Dennis.



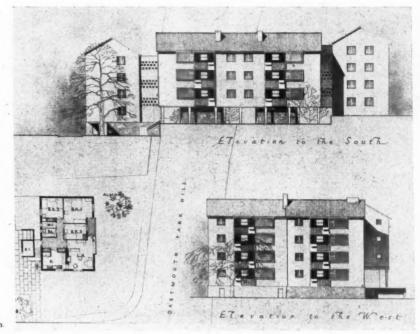
Drawn by Frank R. Weemys

On this and the following three pages are some of the designs on view in the Architecture Room at the Royal Academy Summer Exhibition, Burlington House. Other designs were published last week. Top: new research laboratories, Beeston, Nottinghamshire, by C. St. Clair Oakes. Above: canteen building for a printing works, by Howard Robertson (Easton & Robertson), the nominated President of the RIBA. Below: The Provincial Insurance Company, Kendal, by Basil R. Ward.



OF DESIGNS FROM THE ARCHITECTURE ROOM

Right: Metropolitan Police housing,
The Towers, Highgate, N.19, by
William S. Grice. Below:
Leigham Court Road Housing
Scheme, S.W.16, for the Metropolitan Borough of Lambeth, by
William F. Howard.



Drawn by J. McLellan.



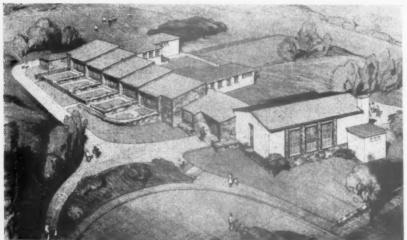
Drawn by F. A Evans.

Proposed Guildhall office block, by Sir Giles Gilbert Scott.

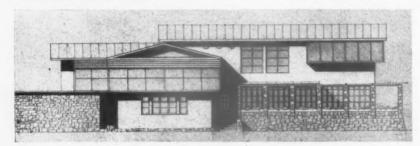


Drawn by Philip Hepworth.

ROYAL ACADEMY SUMMER EXHIBITION: A SELECTION



Drawn by Hubert Bennet

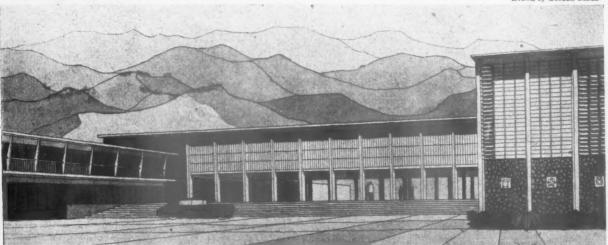


Left: Bardsey Primary School, Yorkshire, by Hubert Bennet. Left, below: houses for the Ministers of the Gold Coast Government, by F. Heather Hughes and John P. Lomax. Below: LCC's Finchley Road flats by Louis de Soissons. Bottom: University College, West Indies, Great Hall and Senate, by Graham Dawbarn (Norman & Dawbarn). Opposite page-Top: Marchwood Generating Station, by F. Q. Farmer and F. Dark. Centre: Harlow New Town, Mark Hall Shopping Centre, by Frederick E. Gibberd. Bottom: Harlow New Town, Areas 16 and 17, by Graham Dawbarn.



Drawn by Lawrence Wright

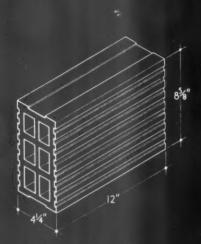
Drawn by Gordon Cullen-



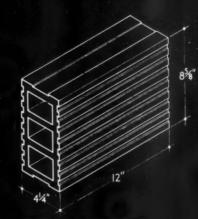


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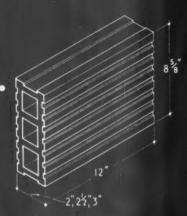


standard six-cavity block

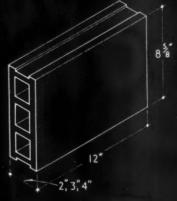


standard three-cavity block

BUILDING BLOCKS: KEYED. (half blocks also available)

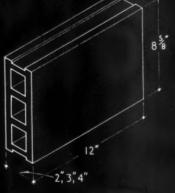


standard keyed block



standard smooth-faced block

PARTITION BLOCKS: KEYED AND SMOOTH-FACED. (half blocks also available)



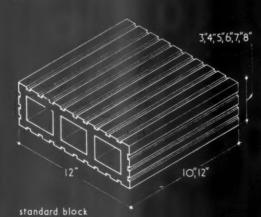
CONDUIT BLOCKS

2,22,3,44

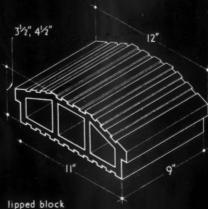
BUILDING BLOCK: RUG-FACE OR KEYED.

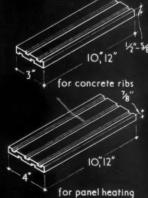
2, 22, 3, 44

FIXING BLOCKS.



FLOOR BLOCKS.





groove to receive

conduit

FILLER TILES. (supplied in blocks of ten)

PHORPRES: HOLLOW CLAY BLOCKS FOR WALLS, PARTITIONS AND FLOORS.

Manufacturer: London Brick Company Limited

14.B1 'PHORPRES' HOLLOW CLAY BLOCKS FOR WALLS, PARTITIONS AND FLOORS

This Sheet supersedes Sheet 14.B1 published 10.1.52 and describes Phorpres hollow clay blocks for walls, partitions and floors.

Materials

Phorpres blocks are manufactured from gault (buff in colour) and also terra cotta (weald clay) which are high quality engineering clays.

The clays are extensively tempered and extruded into hollow blocks which are then entirely mechanically handled throughout a strictly controlled drying and burning process. The clays contain no lime or other injurious salts, and the burning process renders the material entirely inert, minimizing the occurrence of shrinkage or cracking in the finished plastered surface. finished product is uniform in size and shape and free from excessive winding and bowing (see B.S. 1190:1951 for tolerances) ensuring minimum laying and plastering costs.

Sizes and Weights of Building and Partition Blocks

Type of block	Size		blocks sq. yd.)*	Yards per ton		
Type of block	Size	Gault	Terra cotta	Gault	Terra cotta	
Partition blocks	12" × 8\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	89 94 108	97 97 116	25 ± 24 21	23½ 23½ 19½	
Building blocks	12" × 8\frac{1}{2}" × 4\frac{1}{2}" (3-cavity) 12" × 8\frac{1}{2}" × 4\frac{1}{2}" (6-cavity)	129 145	142	17½ 15½	15½ 13¼	
	81" × 51" × 6"	-	258 (24 blocks)	-	84	

^{* 12} blocks per sq. yd. except where otherwise stated,

Crushing Strength

Type of	Crushing strength (lb. per sq. in.)	
Loadbearing building blocks	41" (6-cavity) 41" (3-cavity) 3" (3-cavity)	600* (B.S. requires 500) 500* (,, ,, 500) 700* (,, ,, 500)
Non-loadbearing parti- tion blocks	2½″-3″	600/800* (B.S. requires 200)
	2"	750* (B.S. requires 200)
Floor blocks (terra cotta)	10" × 12" × 4" ,.	3080 (B.S. requires 2500)

Average crushing strengths of individual blocks (terra cotta and gault) tested on edge.

For the purposes of test, wall panels 9 ft, high \times 4 ft, 6 in, wide were built in 1: 3 rapid-hardening cement and the following results were obtained:

Load test	s on t	wall pan	els		
				2" blocks	3" blocks
Failing load—tons Failing load per ft. run—tons Failing stress—lb. per sq. in. tons per sq. ft. Failing stress in wall of blocks—l	b. per	sq. in.		44·1 9·53 890 57·2 1420	65·0 13·91 866 55·7 1890

Applications

Walls and partitions: Phorpres hollow clay blocks are adaptable building units for all types of partition work, internal linings to brickwork and party wall construction. They are manufactured to comply with the crushing strength tests laid down in B.S. 1190:1951, and can therefore take a full structural and loadbearing part in building construction. Their strength is combined with lightness in weight and high fire-resisting crushing. qualities.

The course height of 84 in, enables the block to be bonded

perfectly with $2\frac{1}{5}$ in. brickwork.

Constructional floors: Phorpres hollow clay floor blocks are also manufactured to comply with B.S. 1190:1951 and the requirements of local authorities for the construction of structural floors and roofs.

Key for plaster: The bond or physical adhesion of a rendering or plaster is dependent upon the inherent porosity of the backing material, and in this respect Phorpres blocks possess a balanced absorption or suction value. This is further assisted by the mechanical keying provided by grooves of definite dovetail form. This mechanical key is of first importance in the early stages of drying and setting, when cracking may result from vibration, inevitable during construction. Such vibration without the support provided by mechanical keying may also interfere with, or even prevent, the development of the necessary physical adhesion.

Laying Instructions

The general practice is to lay Phorpres hollow blocks in 1:1:6 cement/lime/sand. This mix can, of course, be varied to suit particular conditions but too rich a mortar and thick joints should be avoided. Elasticity of joint is of great importance in all partition work and for this reason also partitions should not be pinned up too tightly under beams. The amount of water in the mix is reduced to a minimum owing to the texture of the material.

Thermal Transmittance "U" of Double-Skin Cavity Walling

- $4\frac{1}{2}$ in, brick $+4\frac{1}{4}$ in, block (unventilated)* = 0·17 to 0·20 $4\frac{1}{2}$ in, brick +3 in, block (unventilated)* = 0·25 $4\frac{1}{4}$ in, block $+4\frac{1}{4}$ in, block (unventilated)* = 0·17
- · Plastered internally.

It should be noted that 11" brickwork (unventilated), plastered internally, has a " U " value of 0.30.

Conduit Partition Blocks

These blocks have been specially designed to eliminate chasing for electrical conduits in finished work and to bond in with main partition walls.

The groove in each block coincides with that of the blocks above and below it to form a continuous channel. In this way a conduit can be provided for on one or both sides of the partition.

Fixing Blocks

These are manufactured for use with the standard partition blocks, to be built in where fixings for skirtings, picture rails etc. are known to be required.

Conduit partition blocks: The manufacturers are the patentees of these blocks

This Series of Sheets on bricks and brickwork covers general data on, and applications of, common, facing, cellular and keyed bricks, hollow walling, partition and floor blocks.

Compiled from information supplied by:

London Brick Company Limited.

Africa House, Kingsway, London, W.C.2. Holborn 8282. Phorpres, Westcent, London. Head Office:

Telephone: Telegrams:

Midland District

Office: Prudential Buildings, St. Philip's Place,

Birmingham, 3. Colmore 4141. Telephone:

South Western

11, Orchard Street, Bristol, 1. District Office:

Bristol 23004-5. Telephone:

Northern District

Office: Gascoigne Street, Boar Lane, Leeds, 1. Telephone: Leeds 20771.





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1.B60 · GRAFOREL · DISPLAY LETTERING

This Sheet describes a range of cut-out letters which have been designed primarily for indoor exhibition work, displays, etc.

The letters are of cork and the standard range at present consists of 12 types as illustrated; other types can be made to suit requirements.

Sizes

Stock letters are available in the sizes shown on the face of this Sheet; they vary in thickness from 10 in. to & in. dependent on their height. Letters 5 in., 6 in. and 8 in. high may also be supplied to order. They are normally \(\frac{1}{2}\) in., \(\frac{3}{8}\) in. and \(\frac{1}{2}\) in, thick respectively.

Fixing

The letters can be applied to any material provided the surface is clean and dry; they should not be applied to newly distempered surfaces.

Each letter is supplied with an adhesive coating on the back for moistening before fixing. This is quite adequate where only a temporary fixing is required; for exhibition and permanent work an additional adhesive is advisable. Rubber latex adhesives are recommended.

Finish

The letters are supplied in their natural colour. The faces of the letters may be picked out with any type of paint or colour using a brush or by dabbing with

For outdoor use and to improve their wearing properties the letters should be painted in with the background, the faces being picked out in the required colour afterwards.

Spacing Guide

The following table gives the average number of either upper or lower case letters occupying a given width, based on normal spacing. Spaces between words count as one letter.

Туре							A	verage	number	of lette	ers					
size				per	12 inch	es	****					per 36 i	nches			
size mm. in.	mm.	5	10 3/8	15 %	20 11	25 1	30 1 3 1 16	35 13	40 1 %	50 2	60 23 8	75	100	125 5	150	200 8
Baal	u.c. 1.c.	60	38 50	31 37	21 40	18	16	14 21		33 36	25	21 29	16 22	12	10	8
Balit				24 31		16 20		12 15		26 31		17 23	13 15	11	9	7
Ariel						25 29	21	18		38 44		25	22 25	17	13	11
Duc			29	21 25	15 19		10 13		24	20 24		13 16	10 12	8	6–7	5
Senor				20 25		12 16		8		19 25		13 17	10 13	8	6-7	5
Calam				15 24			8 15									
Louve		38	27	18 24	13		10 12		23	19 22		13	9	7–8	6	4-5
Altra					14				19		13	11–12	8-9	7	6	4
Ega			44	29	23	20 26	17	15		32 40		20 25	16 20	12	10	8
Lita								20 24		40 50		31	20 25	16	14	10
Garit						13 16		9								
Consu	1						9		20 29	16 23						

Compiled from information supplied by:

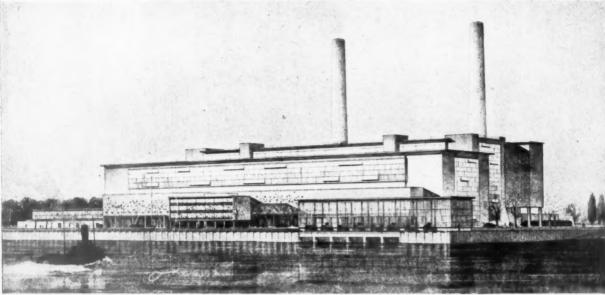
London Industrial Art Ltd.

Address: 3, All Saints Road, London, W.11. Telephone: Park 9431

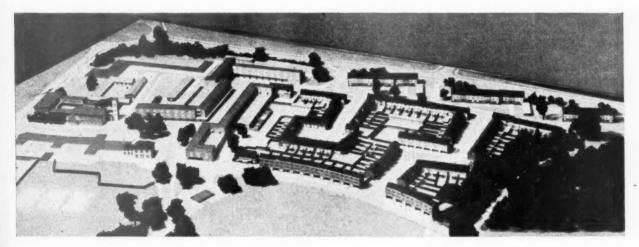




OF DESIGNS FROM THE ARCHITECTURE ROOM



Drawn by Cyril A. Farey and Adams



Drawn by J. D. M. Harvey

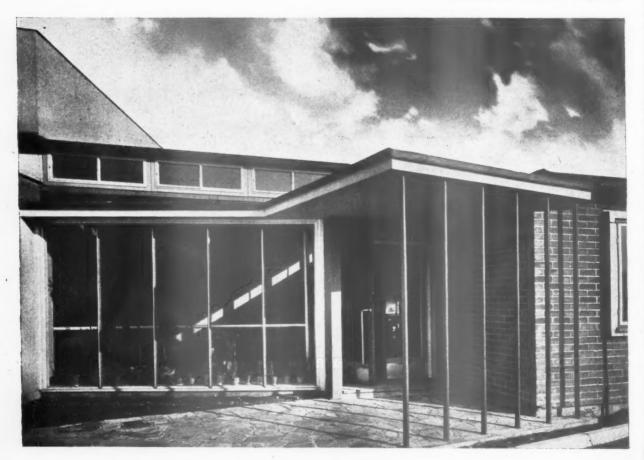


PRIMARY SCHOOL

in MARLBOROUGH LANE, GREENWICH, LONDON, S.E.7 designed by DENIS CLARKE HALL and L. W. ELLIOTT assistant architect-in-charge H. G. MONTGOMERIE

The Cherry Orchard school for the LCC provides accommodation for 200 children from 5 to 7 years old in accordance with the regulations in force when the school was designed, allowing 55 sq. ft. per place. Covered areas are provided by the entrances for parents calling to collect children, and for children, who often arrive before the school is open. The area of outside teaching space was reduced at the request of the education officer, since it was felt that only part of a class would use it at any time and outside teaching of the whole class would take place in the garden area to the south.

The main entrance on the west facade.



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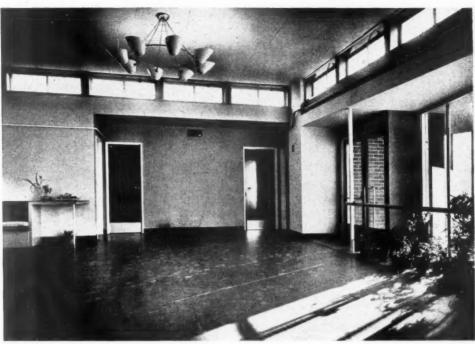
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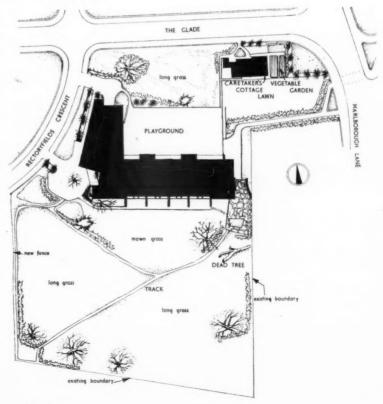
classroom unit and brick dimension are the module and it is considered by the architect that this gives greater flexibility of planning, proportions and construction. Walls are load bearing with beams and trusses carrying aluminium roof decking, the whole standing on a 6-in. concrete slab reinforced with square mesh weighing 5.5 lb. per sq. ft. and

Above, the entrance hall with main entrance doors on the Left, loo across the looking southright. west across the playground with the assembly hall on the right.

SITE.—The building has been built to the north of the site to keep access roads to a minimum and allow for a future nursery school or children's play area to the south. Some large elm trees on the north boundary of the site were diseased and had to be felled. The trunks have, however, been left on the site for the children to climb on.

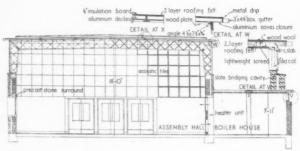
PLAN.-The plan, which arises naturally from the clients' requirements, consists of a wing containing classrooms, cloakrooms and lavatories, linked to the assembly hall and kitchen wing by the entrance hall, from which the staff rooms open. The caretaker's cottage is sited so that the occupant can supervise the playground from his living room. The corridor ceiling is kept low to be in scale with the children, while still acceptable to adults, and allows cross ventilation in classrooms. This ceiling height is similar in the entrance hall to maintain the unity and to give an added sense of drama when entering the assembly hall.

CONSTRUCTION.—The construction is comparatively fluid and has affected the elevational treatment less than the rigid grid system. The



Site plan

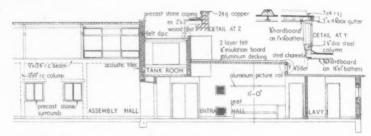
Left, the assembly hall with kitchen serving hatches in the background.



Section A-A

with sinkings under the main load-bearing walls and external walls reinforced with 2½-in. diam. rods. The weight of steel is kept to the minimum by the lightness of the roof, the continuity of the beams and the use of lattice portal frames for the large spans. The external walls are II-in. cavity construction with the inner skin of breeze or brick and the internal walls are of 9-in. or 4½-in. brickwork.

FINISHES.—The internal treatment generally has

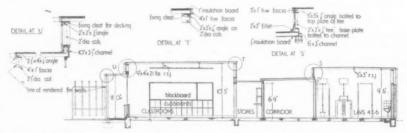


Section B-B

PRIMARY SCHOOL

in GREENWICH, LONDON, S.E.7

designed by DENIS CLARKE HALL and
L. W. ELLIOTT



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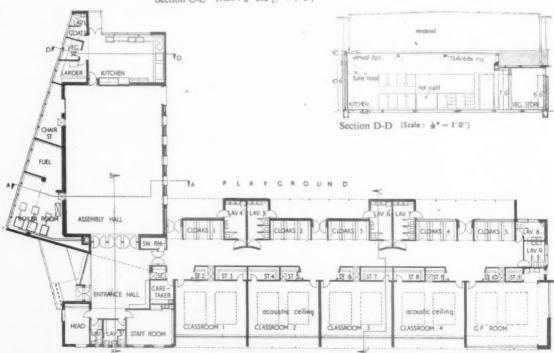
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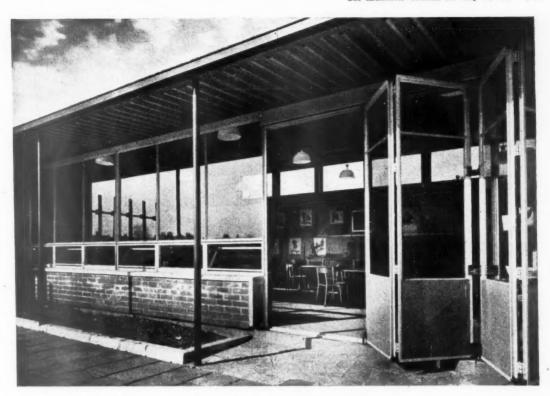
pre

Section C-C [Scale: 1 and 1 and 1 are 1' 0"]



Plan {Scale: 1 "= 1'0"}





been to use strong colour, either to emphasise some important functional requirement or to set a colour key for a particular area. For example, all boys' lavatory doors are french grey and girls' lavatory doors lemon yellow. In each classroom the ceilings are deep royal blue with two suspended panels of fibreboard for acoustic purposes, painted white, which sets the colour key and the various walls are kept to less strong colours, such as cornflower or pale lemon. Paint on walls and ceilings is either sprayed on or applied as distemper and a gloss paint is used on metal and woodwork. Window and door frames are white and sub-frames grey. Floors are wood strip in the assembly hall, cork in staff and head teacher's rooms and elsewhere thermoplastic tiles.

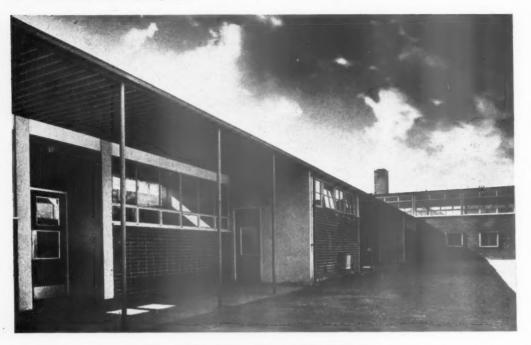
SERVICES .- The heating is generally by lowpressure hot water mains, unlagged, under clerestory windows, to heater batteries with an electric air fan situated in the stores. The two heating boilers and the small hot water boiler for the hot water system have hopper-type automatic stokers.

An analysis of the job progress was made and the following are some of the data obtained. After instructions had been received from the LCC in May, 1950, working drawings (approximately 45 double elephant sheets and 10 schedules were prepared apart from specialist drawings) and bill ofquantities were completed and the tender accepted



typical Top, classroom bay on the south facade. Centre, typical classroom looking Bottom, west. kitchen windows on the north facade with the assembly hall behind.







Top, north facade from the playground showing windows to cloak-room and lavatories. Centre, south facade of classroom wing showing outside teaching space. Right, staff room showing built-in wash basin.

by October, 1950. Work was started in October, 1950, and completed within the scheduled time, I year, using an average of 20 men. Excluding the principal's time, sketch plans occupied 96 hours of office time, working drawings 1,552 hours, supervision and preparation of ancillary details 632 hours, giving total assistants' time 2,280 hours or 74 hours per £1,000 of work. Costs were £2,774 on preliminaries, £22,116 on school building, £1,771 on caretaker's cottage, £4,288 on external works and drainage, giving a total tender figure of £30,949. The nett cost per child place is £127, per sq. ft. £2 6s., and per cub. ft. 2s. 101d. (MOE ceiling: £140) Heating, hot water: £2,340, electrical installation £1,370, and metal windows and sub-frames £2,010. The general contractors were Walter Gladding & Co. Ltd. For sub-contractors see page 620.



PRIMARY SCHOOL

in GREENWICH, LONDON, S.E.7 designed by DENIS CLARKE HALL and L. W. ELLIOTT

PRE

EXC N.B

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10 Exca

TECHNICAL SECTION

The building industry is frequently accused of being unwilling or unable to adapt itself to modern techniques. This is debatable, but there is no doubt that the building industry devotes a smaller proportion of its annual expenditure to research than do many other industries.

The largest contribution to building research in this country is made by the Department of Scientific and Industrial Research (and in particular by BRS), but DSIR's recently published annual report* makes it clear that sufficient finance has not been forthcoming to enable DSIR to carry out its post-war plans for new buildings and increased staff.

It is widely appreciated that economy in research is a false economy, but are the various organizations which represent the building industry sufficiently aware of DSIR's difficulties? In particular, does the RIBA not regard the state of affairs revealed by the report as a matter for urgent discussion and representation?

SPECIALIST EDITOR No. 12

* Report for the year 1950/51. Department of Scientific and Industrial Research (HMSO 1952. 7s.6d.)

This week's special feature

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8 ESTIMATING measured rates

Current prices for measured work prepared by Davis, Belfield and Everest, Chartered Quantity Surveyors. Prices are for work executed complete and are for an average job in the London area. All prices include overhead charges and profit for the general contractor.

Portland cement concrete 1:3:6 with 1½ coarse aggregate in foundations and masses exceeding 12" thick

PRELIMINARIES

EXCAVATOR

Excavation

N.B.—The following prices are applicable to hand excavation in heavy soil,

00000		
Surface digging, 6" deep	per yard super	-/11
Ditto, 12" deep	per yard super	1/10
Excavating not exceeding 10' 0" deep to reduce levels	per yard cube	7/4
Excavating not exceeding 5' 0" deep to form		
basement	per yard cube	8/3
Ditto, exceeding 5' 0" and not exceeding 10' 0" deep ditto	per yard cube	11/11
Excavating not exceeding 5' 0" deep to form surface trenches	per yard cube	10/1
Ditto exceeding 5' 0" deep and not exceeding	E. Jane	/-
10' 0" deep ditto	per yard cube	13/9
Excavating not exceeding 5' 0" deep to form		
basement trench, commencing 10' 0" deep	per yard cube	17/5

EXCAVATOR—(continued)

Disposal		
Returning, filling and ramming around foundations	per yard cube	3/3
yards and depositing	per yard cube	3/8
Ditto and spreading and levelling	per yard cube	4/9
Ditto, ditto, and consolidating to make up		
levels under floors and pavings	per yard cube	6/-
Filling into lorries and carting away	per yard cube	11/11
Planking and Struttin	ig	
Planking and strutting to sides of surface or basement excavation not exceeding 5' 0"		
deep	per ft. super	-61
Ditto not exceeding 10' 0" deep	per ft. super	-/8
Planking and strutting to sides of surface trenches not exceeding 5' 0" deep (both		
sides measured)	per ft. super	-/12
Ditto not exceeding 10' 0" deep (ditto)	per ft. super	-/3
CONCRETOR		

Concrete (Basic Prices)

Ditto 1:2:4 with 3" coarse aggregate ditto per yard cube 67/8

per vard cube 66/8

CONCRETOR—	cont	178	u	ed	

CONCRETOR—(continued)				
Add to Basic Pr	ices for :-			
Working around rod or mesh reinforce Being in beds less than 12" thick $(6"-12$ Ditto less than 6" thick $(4\frac{1}{4}"-6")$	") I	er yard er yard er yard	cube	3/8 1/10 5/6
Being in small quantities not exceeding	ng 3'			
cube		per yard		14/8
Being in suspended floors and roofs Being in walls not exceeding 6" thick Ditto exceeding 6" but not exceeding	g 12"	er yard er yard	cube	11/-
thick Ditto exceeding 12" thick Being in lintels, beams, etc., not exce	I	er yard		$\frac{12/10}{9/2}$
72 sq. in. sectional area Ditto exceeding 72 and not exceeding 14	J	per yard		27/6
in. sectional area Ditto exceeding 144 sq. in. sectional are Being in columns not exceeding 72 se	ea]	per yard		22/- 18/ 4
sectional area Ditto exceeding 72 and not exceeding 14 in. sectional area] 44 sq.	per yard		34/10 27/6
Ditto exceeding 144 sq. in. sectional ar		per yard		22/-
Formwo	rk			
Close boarded formwork and suppor				
soffites of floors not exceeding 12' his Ditto to vertical faces of walls (both	gh] sides		super	
Ditto to sides and soffites of lintols and be Add to any of the above for wrot form	eams I	per ft. s	super	2/4
and rubbing down concrete		per yard	super	$2/4\frac{1}{2}$
Reinforcer	nent			
§" to 1" diameter mild steel rod				
forcement, hooked, bent and tie intersections as required and fixi				
concrete		per	cwt.	50/6
"diameter ditto	****			54/7
Steel wire mesh fabric reinforcement to	B.S.	per	cwt.	67/-
1221, weighing 4.71 lb. per yard s	super,			
well lapped at joints and embedd concrete	led in	nor war	denner	3/3
Ditto weighing 9.32 lb. per yard super	ditto	per yaro	l super	6/2
RDICKI AVED				
BRICKLAYER	* 2 2			
BRICKLAYER Common Br	ickwork			Rough
Common Br Reduced brickwork one brick thick in cement-lime mortar (1:3:9)			Flettons 27/6	Rough stocks 32/5
Common Br Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:—	per yard	l super	27/6	stocks 32/5
Common Br Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3)	per yard	d super	27/6 -/3	stocks 32/5 -/3 4/8
Common Br Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep Ditto to quick sweep	per yard	d super	27/6 -/3	stocks 32/5 -/3
Common Br Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep Ditto to quick sweep Half brick wall in cement lime mortar (1:3:9)	per yard	d super d super d super d super	27/6 -/3 4/4 8/8	stocks 32/5 -/3 4/8 9/3
Common Br. Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep Ditto to quick sweep Half brick wall in cement lime mortar	per yard per yard per yard per yard	d super d super d super d super d super	27/6 -/3 4/4 8/8 14/10	stocks 32/5 -/3 4/8 9/3
Common Br. Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep Ditto to quick sweep Half brick wall in cement lime mortar (1:3:9) Ditto built fair and pointed both sides	per yard per yard per yard per yard	d super d super d super d super d super	27/6 -/3 4/4 8/8 14/10 16/9	stocks 32/5 -/3 4/8 9/3 17/4 19/2 Rough
Common Br. Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep Ditto to quick sweep Half brick wall in cement lime mortar (1:3:9) Ditto built fair and pointed both sides with a neat flush joint One brick wall built fair and pointed	per yard per yard per yard per yard per yard	d super d super d super d super d super d super	27/6 -/3 4/4 8/8 14/10 16/9	stocks 32/5 -/3 4/8 9/3 17/4 19/2 Rough as stocks
Common Br. Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep Ditto to quick sweep Half brick wall in cement lime mortar (1:3:9) Ditto built fair and pointed both sides with a neat flush joint One brick wall built fair and pointed both sides with a neat flush joint 11" hollow wall with 2" cavity and	per yard per yard per yard per yard per yard per yard	d super d super d super d super d super d super	27/6 -/3 4/4 8/8 14/10 16/9 Flettor 32/4	\$100ks \$32/5 -/3 4/8 9/3 17/4 19/2 Rough as stocks \$37/3
Common Br. Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep Ditto to quick sweep Half brick wall in cement lime mortar (1:3:9) Ditto built fair and pointed both sides with a neat flush joint One brick wall built fair and pointed both sides with a neat flush joint 11" hollow wall with 2" cavity and	per yard per yard per yard per yard per yard	d super d super d super d super d super d super	27/6 -/3 4/4 8/8 14/10 16/9 Flettor 32/4	stocks 32/5 -/3 4/8 9/3 17/4 19/2 Rough as stocks 37/3
Common Br. Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep Ditto to quick sweep Half brick wall in cement lime mortar (1:3:9) Ditto built fair and pointed both sides with a neat flush joint One brick wall built fair and pointed both sides with a neat flush joint 11" hollow wall with 2" cavity and	per yare per yare per yare per yare per yare per yare	d super	27/6 -/3 4/4 8/8 14/10 16/9 Flettor 32/4 32/3	stocks 32/5 -/3 4/8 9/3 17/4 19/2 Rough as stocks 37/3 37/2
Common Br. Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep	per yare per yare per yare per yare per yare per yare	d super	27/6 -/3 4/4 8/8 14/10 16/9 Flettor 32/4	stocks 32/5 -/3 4/8 9/3 17/4 19/2 Rough as stocks 37/3 37/2
Common Br. Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep Ditto to quick sweep Half brick wall in cement lime mortar (1:3:9) Ditto built fair and pointed both sides with a neat flush joint One brick wall built fair and pointed both sides with a neat flush joint 11" hollow wall with 2" cavity and galvanized iron twisted ties Engineering	per yarder yarde	d super	27/6 -/3 4/4 8/8 14/10 16/9 Flettor 32/4 32/3 Lingfield Engineering	stocks 32/5 -/3 4/8 9/3 17/4 19/2 Rough as stocks 37/3 37/2 d Blue Pressed
Common Br. Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep Ditto to quick sweep Half brick wall in cement lime mortar (1:3:9) Ditto built fair and pointed both sides with a neat flush joint One brick wall built fair and pointed both sides with a neat flush joint 11* hollow wall with 2* cavity and galvanized iron twisted ties Engineering Reduced brickwork one brick thick in	per yarder yarde	d super	27/6 -/3 4/4 8/8 14/10 16/9 Flettor 32/4 32/3 Lingfield Engineering Wirecut	stocks 32/5 -/3 4/8 9/3 17/4 19/2 Rough as stocks 37/3 37/2 d Blue Pressed bricks
Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep Ditto to quick sweep	per yarder yarde	d super	27/6 -/3 4/4 8/8 14/10 16/9 Flettor 32/4 32/3 Lingfield Engineering Wirecut 40/5	stocks 32/5 -/3 4/8 9/3 17/4 19/2 Rough as stocks 37/3 37/2 d Blue Pressed bricks
Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep Ditto to quick sweep The circular on plan to flat sweep Ditto built fair and pointed both sides with a neat flush joint One brick wall built fair and pointed both sides with a neat flush joint 11° hollow wall with 2° cavity and galvanized iron twisted ties Engineering Engineering Reduced brickwork one brick thick in cement mortar (1:3) Half brick wall in cement mortar (1:3) This built fair and pointed both sides	per yarder yarde	d super	27/6 -/3 4/4 8/8 14/10 16/9 Flettor 32/4 32/3 Lingfield Engineering Wirecut 40/5 21/9	stocks 32/5 -/3 4/8 9/3 17/4 19/2 Rough as stocks 37/3 37/2 Blue Pressed bricks 59/- 31/3
Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep Ditto to quick sweep The circular on plan to flat sweep Ditto built fair and pointed both sides with a neat flush joint One brick wall built fair and pointed both sides with a neat flush joint 11° hollow wall with 2° cavity and galvanized iron twisted ties Engineering Engineering Reduced brickwork one brick thick in cement mortar (1:3) Half brick wall in cement mortar (1:3) This built fair and pointed both sides	per yarder yarde	d super	27/6 -/3 4/4 8/8 14/10 16/9 Flettor 32/4 32/3 Lingfield Engineering Wirecut 40/5 21/9	stocks 32/5 -/3 4/8 9/8 17/4 19/2 Rough ns stocks 37/3 37/2 d Blue Presed bricks 59/-31/3 33/9
Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep Ditto to quick sweep The summary of the sweep If brick wall in cement lime mortar (1:3:9) Ditto built fair and pointed both sides with a neat flush joint One brick wall built fair and pointed both sides with a neat flush joint 11" hollow wall with 2" cavity and galvanized iron twisted ties	per yarder yarde	d super	27/6 -/3 4/4 8/8 14/10 16/9 Flettor 32/4 32/3 Lingfield Engineering Wirecut 40/5 21/9	stocks 32/5 -/3 4/8 9/8 17/4 19/2 Rough ns stocks 37/3 37/2 d Blue Presed bricks 59/-31/3 33/9
Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep Ditto to quick sweep Ditto to quick sweep Ditto built fair and pointed both sides with a neat flush joint One brick wall built fair and pointed both sides with a neat flush joint 11" hollow wall with 2" cavity and galvanized iron twisted ties Engineering Reduced brickwork one brick thick in coment mortar (1:3) Engineering Reduced brickwork one brick thick in coment mortar (1:3) Ditto built fair and pointed both sides with a neat flush joint	per yarder yarde	d super	27/6 -/3 4/4 8/8 14/10 16/9 Fletton 32/4 32/3 Lingfield Engin- eering Wirecut 40/5 21/9 23/6 44/5	stocks 32/5 -/3 4/8 9/3 17/4 19/2 Rough as stocks 37/3 37/2 d Blue Pressed bricks 59/-31/3 33/9 63/6
Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep Ditto to quick sweep Ditto to quick sweep Ditto built fair and pointed both sides with a neat flush joint One brick wall built fair and pointed both sides with a neat flush joint 11" hollow wall with 2" cavity and galvanized iron twisted ties Engineering Reduced brickwork one brick thick in coment mortar (1:3) Engineering Reduced brickwork one brick thick in coment mortar (1:3) Ditto built fair and pointed both sides with a neat flush joint	per yarder yarde	d super	27/6 -/3 4/4 8/8 14/10 16/9 Fletton 32/4 32/3 Lingfield Engin- eering Wirecut 40/5 21/9 23/6 44/5	stocks 32/5 -/3 4/8 9/8 17/4 19/2 Rough ns stocks 37/3 37/2 d Blue Presed bricks 59/-31/3 33/9
Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep Ditto to quick sweep The state of the sweep If circular on plan to flat sweep Balf brick wall in cement lime mortar (1:3:9) Ditto built fair and pointed both sides with a neat flush joint	per yarder yarde	d super	27/6 -/3 4/4 8/8 14/10 16/9 Fletton 32/4 32/3 Lingfield Engineering Wirecut 40/5 21/9 23/6 44/5	stocks 32/5 -/3 4/8 9/3 17/4 19/2 Rough as stocks 37/3 37/2 d Blue Pressed bricks 59/-31/3 33/9 63/6
Reduced brickwork one brick thick in cement-lime mortar (1:3:9)	per yarder yarde	d super	27/6 -/3 4/4 8/8 14/10 16/9 Fletton 32/4 32/3 Lingfield Engineering Wirecut 40/5 21/9 23/6 44/5	stocks 32/5 -/3 4/8 9/3 17/4 19/2 Rough as stocks 37/3 37/2 d Blue Pressed bricks 59/-31/3 33/9 63/6
Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep Ditto to quick sweep Plant of the sweep Ditto built fair and pointed both sides with a neat flush joint One brick wall built fair and pointed both sides with a neat flush joint 11" hollow wall with 2" cavity and galvanized iron twisted ties Engineering Engineering Engineering Sweep	per yarder yarde	d super	27/6 -/3 4/4 8/8 14/10 16/9 Fletton 32/4 32/3 Lingfield Engineering Wirecut 40/5 21/9 23/6 44/5	stocks 32/5 -/3 4/8 9/3 17/4 19/2 Rough as stocks 37/3 37/2 d Blue Prescks 59/- 31/3 33/9 63/6
Reduced brickwork one brick thick in cement-lime mortar (1:3:9)	per yarder yarde	d super	27/6 -/3 4/4 8/8 14/10 16/9 Fletton 32/4 32/3 Lingfield Engineering Wirecut 40/5 21/9 23/6 44/5	stocks 32/5 -/3 4/8 9/3 17/4 19/2 Rough ns stocks 37/3 37/2 d Blue Pressed bricks 59/- 31/3 33/9 63/6
Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:— If in cement mortar (1:3) If circular on plan to flat sweep Ditto to quick sweep Plant of plant of flat sweep Ditto built fair and pointed both sides with a neat flush joint One brick wall built fair and pointed both sides with a neat flush joint 11" hollow wall with 2" cavity and galvanized iron twisted ties Engineering Engineering Engineering Engineering Sweep S	per yarder yarde	d super	27/6 -/3 4/4 8/8 14/10 16/9 Flettoi 32/4 32/3 Lingfield Engin-eering Wirecut 40/5 21/9 23/6 44/5	stocks 32/5 -/3 4/8 9/3 17/4 19/2 Rough as stocks 37/3 37/2 Blue Pressed bricks 59/- 31/3 33/9 63/6 1/- 3/5 -/10}
Reduced brickwork one brick thick in cement-lime mortar (1:3:9)	per yarder yarde	d super	27/6 -/3 4/4 8/8 14/10 16/9 Fletton 32/4 32/3 Lingfield Engineering Wirecut 40/5 21/9 23/6 44/5	stocks 32/5 -/3 4/8 9/3 17/4 19/2 Rough as stocks 37/3 37/2 d Blue Pressed be bricks 59/31/3 33/9 63/6

BRICKT A	VED_	(continued)

BRICKLAYER—(continued)	1								
	Pa	rtition	8						
Breeze concrete solid parti- tion blocks to B.S. 492 and		1		2"	24		3"	41"	
Hollow clay partition blocks to B.S. 1190, keyed on	per	yard s	uper	8/-	9/	ł	10/8	13/4	
both sides and ditto Moler hollow partition	per	yard s	uper	8/3	9/	3	10/6		
blocks, keyed on both sides	2000	wand o	III DOE	14/0	10	1A	90/6	23/4	
and ditto				14/8	10	1.4	20/0	20/1	
	I	acings	3				7	Vhite	
							faci	lazed ngs p.c. 70/- M for	,
								etchers 54/6 M	
Extra over common brickwood built with bricks p.c.105/3 If for facings as described, an pointing with a neat weathered joint:—	M nd			p 22	Ordin facin .c. 7/6 2	gs, p.c.	for and in	headers l point- g with white	
To solid wall in Flemish bon	nd p	er yar	d sup			13/1		7/8	
To cavity wall in stretch	er	er yar				11/4	l (32/1	
To ditto in Flemish bor				1	0/0	10/6			
with snapped headers Half brick wall in facings stretcher bond built fair ar pointed one side with a ne	in nd	per yan	a sur	er I	2/9	13/6)		
weathered joint		er yar	d sup	er 24	1/3	24/9)	-	
	-	er yar	d sup	er 2	5/6	26/-			
One brick wall in facings but fair and pointed one side		er var	d sup	er 4	6/-	47/-		44.000	
Ditto pointed both sides	_		-			48/-		_	
Brick on end flat arch in facin	ıgs		foot r						
Brick on edge coping to 9" with two courses plain til under, laid breaking join two coment angle filles at pointing	les nt,	per	foot r	un	4/10	4/:	10 <u>1</u>	_	
ASPHALTER									
ASPHALIER	9	l'ankin	10						
Wasingstell and all Andrian			ry			To 1		To B.S. 1418	
Horisontal asphalt tanking thicknesses on brick or co	ncre	te	per y	ard a	uper	18	3/4	28/4	
		****	per y	ard s	super	23	3/1	31/6	
		Roofin	g				B.S.	To B.S.	0
asphalt flat in two thick				,					
and including felt underla			per y	ard s	super	13	\$/5	23/1	
fillet at bottom and rounturned into groove	nded	l top,	pe	r foo	t run	3	2/1	2/7	
asphalt fascia 6" high water check roll at top a cut drip at bottom	nd u	ınder-	ne	r foo	t run	9	3/8	4/3	
		****	P	100		•	,10	2/0	
		ches an			1 -		41		
N.B.—The following prices soil, only requiring planking Excavate trenches for 4".5 planking and strutting, ming, and wheeling and sp	g an 9" p fillin preac	d strut ipes, i g in a ling su	nclud nd ra rplus	ing im-	epths	of 3	or 1	more.	
For each 12" in depth, exceeding 3' 0" deep				not	per	yard	l run	2/11	
Ditto for trenches exc not exceeding 5' 0" dec			0" 1	and			l run		
Ditto for trenches exce	eedir	ng 5'	0" 1	and	-				
not exceeding 10' 0" de	-		n.r.	****	Por	yarı	d run		
6" concrete (1:3:6) bed a for pipes 6" ditto, and surround					ard r		8/11 14/5	10/4	

Boiler Room Beauty Queen Consulting Engineers: F. R. Bullen & Partners. Heating Installation by Arthur Scull & Son, Ltd.

3/4

4"

p.c. hers ders ointent

B.S.

28/4 31/6

o B.S. 1162 23/1

2/71

4/3

heavy

2/11

4/3

6/10

10/4 16/4

If ever there is a beauty contest for boiler installations, that at the new office buildings of Bowthorpe Holdings Ltd., at Crawley, will certainly get the first prize. With a boiler room colour scheme of cream, pale grey and burgundy, it not only looks good but possesses many other desirable qualities as well. It is spotlessly clean, thoroughly reliable, economical, easy to manage, behaves with complete lack of temperament and is perfectly self-controlled at all times. Chief credit for these virtues must go, of course, to Gas - and the POTTERTON Gas-Fired Boiler.

THOMAS DE LA RUE & CO. LTD. (GAS GROUP)

Imperial House, 84/86 Regent Street, London, W.1 Telephone: Regent 2901



REEDLYTE

Reedlyte is a fluted rolled glass with a stippled surface. It has the simplicity of our plain Reeded glass and provides the same horizontal or vertical emphasis, but gives much greater obscuration. It is used in partitioning, in windows and for borrowed light where considerable, but not necessarily complete, obscuration is required.

> Other Chance decorative glasses include Reeded in three widths, Cross Reeded and a variety of figured glasses. Besides their normal architectural uses they are employed in lighting fittings, diffused lighting panels and decorative lighting schemes. Special lighting glasses such as 'Luminating' (which has a very narrow reeded pattern) are also available.

TECHNICAL DETAILS FOR REEDLYTE

Width of Reeds Narrow 1 in. Broad

Light Transmission 80 per cent.

Thickness and Weight ½ in. (26 oz./sq. ft.) 3 in. (44 oz./sq. ft.) DR

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41

Maximum size of Sheets (100 in. x 42 in.)

GLASS

FOR SCIENCE, INDUSTRY AND THE HOME

CHANCE BROTHERS LIMITED.

Glass Works Smethwick 40, Birmingham. Phone: West Bromwich 1824,

Phone: Whitehall 6002. Branch Works at Glasgow, St. Helens and Malvern

DRAINLAYER—(continued))			
	Drains	9.6	40	0#
Clayware butt-jointed land		3"	4"	6"
drams and laying in trench "Seconds" quality glazed stoneware socketed drains	per foot run	-/4½ 4"	-/5 6"	-/9½
and laying and jointing in	per foot run	1/111	2/91	4/8
" Pritiah Standard " quality	_	2/4	3/41	5/9
ditto Extra on "Seconds" qual- lity for bends	por root run		4/7	
Ditto "British Standard"		3/1		13/4
quality ditto Extra on "Seconds" quality	each	3/10	5/9	17/-
for single junction Ditto "British Standard"	each	5/3	7/6	16/8
quality ditto Cast iron socketed drains to	each	6/5	9/5	20/8
B.S. 437 and laying and jointing in trench	per foot run	10/5	15/11	31/2
Extra for short radius bend (Fig. No. 4)	each	20/9	39/5	116/-
Extra for single junction (Fig. No. 18)	each	37/10	73/10	218/9
	Fittings, etc.			
Glazed stoneware trapped g	ulley with calv	an-	4"	6"
ized grating and outlet and Ditto with vertical inlet ditt	setting in conc	rete each		41/4 46/9
Cast iron trapped gulley with ing, and 4" outlet and sett	ing in concrete	eacl		_
Ditto with vertical inlet ditt Glazed stoneware intercepting	g trap with ins	980-	60/10	
tion arm, stopper and chemanhole and jointing to d Brown glazed stoneware ha	rain	eacl	n 70/3	81/11
channels and bedding and mortar	jointing in cem		1/9	2/81
Ditto ordinary channel bend	and ditto	eacl		
Cast iron coated single seal if frame to B.S. 497 Grade C	and setting fre	ame		24"×24"
in cement and cover in gre Galvanized ditto	SBB6	each	$\frac{49}{9}$ $\frac{83}{4}$	69/11 121/9
PAVIOR Cement and sand (1:3)				1" 14"
screed to receive pavings Ditto trowelled smooth to	receive			/2 4/8
Cement and sand (1:3)	paving per ya	rd super		/6 5 <i>/</i> =
trowelled hard and smoot	h per ya		1// 1	$ \begin{array}{ccccccccccccccccccccccccccccccccc$
concrete	to B.S. 776 laid	d on	yard supe	
g" Terrazzo paving (Portiar	d cement and	spar		
aggregate) laid on prepare Extra for white or cream ce {* Rubber flooring in all co			yard supe	r 5/3
pared screed 1" × 12" × 12" Rubber tile	flooring ditto	per	yard supe	r 51/- r 41/6
3" × 12" × 12" Cork til shades) laid in mastic o	n prepared scr	own reed,		
surfaced and polished 14" Hard red paving bricks	****	ре	er yard su	per 40/8
laid flat on prepared bed 11 Ditto laid herringbone	in cement mor	tar pe	er yard su er yard su	
6" × 6" Red quarry tile pa 1286 laid on prepared	screed with		5/8	
straight joints $6'' \times 6''$ Buff quarry tiles as	s last	per yard s per yard s		/9 23/4 3/4 26/3
21" (Finished) Gravel path pared bed, well watered	and rolled to			
cambers and falls	644 656	per yard s	super	$2/4\frac{1}{2}$
MASON				
Portland stone and all la			fact1	9=/10
quoins, jambs, lintols, et Ditto in arches, columns, c	ornices, etc.	per	foot cub	e 52/3
Ashlar av. 6½" on bed with		ice per	Port-	Arti-
Portland stone or artific B.S. 1217:—			land	ficial
4½" × 4" Sill, sunk, weathe and grooved for water				
jointed in cement mortan		per foot r	un 7/1	4/7

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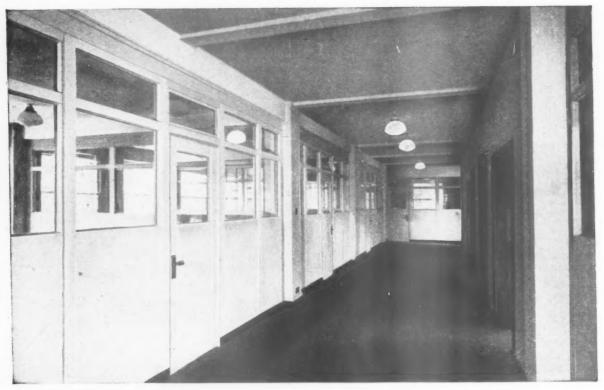
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MASON—(continued)			
9" × 3" ditto	per foot run	8/5	6/4
2" × 12" Coping, weathered and twice throated, set and jointed as last	per foot run per foot run	7/9 10/8	5/9 8/4
5" × 12" Saddle back coping twice			
throated, set and jointed as last $6'' \times 12''$ Ditto	per foot run per foot run		12/11 15/11
SLATER, TILER AND ROOFER Slate			
Best Bangor slates to B.S. 680 laid with	20"	× 10" 10	3" × 10"
3" lap, each slate nailed with two stout copper nails	per square	246/9	233/8
Ditto hung vertically to dormer cheeks and gables	per square	256/3	246/9
Tiles		Hand	Machine
Best sand faced plain (nibbed) tiles to B.S. 402, $10\frac{1}{2}'' \times 6''$ laid to a 4" gauge with each tile in every fourth course		made	made
nailed with galvanized nails Ditto hung vertically to dormer cheeks	per square	165/11	161/9
and gables to 4½" gauge with each tile nailed with galvanized nails Berkshire hand made sand faced red p 14½" × 10" laid to 2½" head and 1½" sid	antiles e laps,	163/9	159/8
each tile in every third course nailed galvanized nails Ditto to mansard slopes	with	square	161/9
Ditto to mansard slopes Concrete plain (nibbed) tiles to B.S. 473		square	170/8
× 6" laid as before described for plain Ditto hung vertically to dormer cheek		square	102/8
gables, ditto Concrete interlocking tiles $15'' \times 9''$ laid	l to 3"	square	107/8
lap, each tile in every third course naile galvanized nails	d with per	square	81/4
Ditto to mansard slopes ditto Asbestos Cen	-	square	90/3
6" Corrugated asbestos cement sheeting to wood roofs with galvanized drive and washers with a side lap of 1½ corrug	g fixed screws gations		
and an end lap of 6" 6" Ditto but fixed vertically Add to both last if fixed to steel pur	per	square square	87/2 93/5
sheeting rails with galvanized hook be $Felt$		square	3/5
Reinforced bituminous roofing felt laid a laps and nailed to rafters at 18" centre galvanized clout nails	es with	square	29/5
One-ply bitumen felt to B.S. 989 laid on		Two layer	Three layer
concrete. Each layer bedded in hot bitumen			
CARPENTER			
Carcassin Softwood, sawn and fixed, in plates,	-		
joists and lintols Ditto in floor and ceiling joists	per f	oot cube	
Ditto in stud partitions	per f	oot cube	21/4
Ditto in rafters		oot cube	
Ditto and framing in ridge	per f	oot cube	
Ditto in hip and valley rafters including rafters to sizes		oot cube	23/3
Battening and I	Boarding	Roof	Vortice 1
$\frac{3}{4}'' \times 1\frac{1}{2}''$ Battens nailed to softwood for $20'' \times 10''$ slates to $8\frac{1}{2}''$ gauge		slopes	Vertical hanging
Ditto 16" × 10" slates to 6\dagger gauge	. per squar		
Ditto $10\frac{1}{2}'' \times 6''$ tiles to $4''$ gauge $(4\frac{1}{2}'')$ for vertical hanging)		e 60/4 Roof	57/9
Ditto $14\frac{1}{2}'' \times 10''$ pantiles to $12''$ gauge Ditto $15'' \times 9''$ concrete interlocking		re 21/-	
tiles to 12" gauge Roof boarding in batten widths close	per squar	re 21/-	21/6 1"
jointed and fixed to flat or sloping roof Ditto tongued and grooved and pre pared for felt roofing including firring	s per squar	e 126/-	162/-
to falls Sawn gang boarding fixed to joists in roo	per squar		
Wrot and crosstongued eaves soffite 6" Wrot and grooved eaves fascing	per foot su		
planted on		n -/1	1 1/11



Movable Walls of Impeccable Appearance

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There is nothing temporary in the appearance or performance of the Luxfer-Snead System of partitions—yet a complete suite of offices can be re-positioned in a week-end if so needed.

The 3 in. thick wall units are of double sheet steel with insulation board cemented to the inner side and $1\frac{3}{4}$ in. dead air gap. Panel units lock together with internal concealed link plates. Single or double glazing is secured by positive 'snap on ' glazing strips. Door and panel units of the same size are interchangeable.

In these Luxfer partitions the functional advantages of good sound and heat insulation and provision for enclosed electric wiring are combined with modernity and dignity of appearance. You will find them in many important buildings where their handsome highly finished plain surfaces and practical attributes make them the obvious choice.

Solid or glazed walls are available in both standard units or purpose-built. Full particulars will be sent gladly on request.



LUXFER LIMITED

WAXLOW ROAD - HARLESDEN - LONDON - N.W.10
Telephone: ELGAR 7292-5
Telegrams: LUXFER, HARLES, LONDON.

CARPENTER—(continued)

Wall and Ceiling	Boards	
½" Fibre board to B.S. 1142 fixed with galvanized flat headed nails to soft-		Verti- cally Soffites
wood	per yard super	$6/8$ $6/9\frac{1}{2}$
B.S. 690 fixed as last	per yard super	
1" Ditto	per yard super	$7/ 7/4\frac{1}{2}$

JOINER

	Floors	and	Skirtings
(A11	thicknesses	ata	ted are nominal)

(All thickness	ses stated a	are nominal	1)	
Plain edge softwood flooring in widths nailed to floor joists			$\frac{2}{8}''$ 1" $54/ 172/-$	1\frac{1}{208/3}
Tongued and grooved ditto				
1" Double grooved and tongue				
laid herringbone with two-				
composition on prepared scr	eed and wa	x polished	-	
Swedish softwood		per	yard super	29/8
		per	yard super	36/9
English Oak	****	per	yard super	45/10
European Oak	****	per	yard super	36/9
Burma Teak		per	yard super	47/-
Softwood skirtings with sp	layed or		Sectional	area
molded top edge, planted on sectional area)		per foot ru	3" to 6" n -/3	
Extra for grounds plugged to		per foot re		

Windows in Softwood

Rebated and molded : and casement sas					11/2	2"
squares for glass		 	per foo	t super	3/4	3/7
Extra for hanging	****	 ****		each	6/7	6/7
Cased frames with 6"						
molded double hun						
pulleys, line and we			per foo	tsuper	_	10/2
N.B.—The above						
oattern casement wi						

Doors in Softwood

Framed ledged and braced doors filled in with 1" T. & G. and V-	11"	13"	2"
jointed boarding and hanging per foot super	6/6	7/2	7/2
Four-panel door, square both sides			
and hanging per foot super	5/5	6/-	6/-
Ditto molded one side per foot super	5/11	6/7	
Ditto molded both sides per foot super	6/6	7/2	7/2
N.B.—The above prices are for purpose made			
panelled doors to B.S. 459 are cheaper.			
14" Standard flush doors 2' 6" × 6' 6" internal patte	rn	each	115/6
2" Ditto external pattern	****	each	123/9

Linings, Frames, etc., in Softwood

						Section	nal area
Window and	door lin	nings et	tc. (per	inch		Up to 6'	" 6" to 12'
in section	al area)		****	****	per foot run	-/41	-/4
Frames wro	ot all re	ound a	nd fra	med	Ct	14	/9.1
(ditto)	****		****		per foot run	-/4	$-/3\frac{1}{4}$
Mullions, tra	ansomes	and ci	lls (dit	50)	per foot run	-/4	
						2" to 4"	4" to 6"
Moldings, ar	rchitrav	es, etc.	(ditto		per foot run	$-/3\frac{3}{4}$	$-/3\frac{1}{2}$
6" Window	boards	with re	ounded	nos-		Thic	kness
ings, tong	ued at l	back ar	nd inch	ding		1"	11"
bearers					per foot run	3/2	3/51
9" Ditto					per foot run	3/7	3/11
					-		

Shelving and Fittings in Softwood

Shelving of 2" slats spaced 1" apa	rt on		3"	1"
bearers (measured separately)		per foot super	2/9	3/-
Shelving on ditto		per foot super	2/7	3/2
Crosstongued shelving on ditto		per foot super	3/2	3/9
Shelving 9" wide on ditto		per foot run	1/10	2/5
2" Shelf bearers plugged to walls		per foot run	1/-	1/2
The following in framed up cupb	oard :	fittings :	,	- 1
T. & G. & V-jointed back		per foot super	2/3	2/8
Crosstongued top, bottom shelf	or			,
division		per foot super	3/3	3/10
14" Flush cupboard doors		per foot super	7/	1
Labour rebate or groove		per foot run	-1	3
Ditto cross-grain			-1	41
1" × 2" Bearers screwed on	****	per foot run	-/	6 <u>î</u>
N.B.—The above prices are		ourpose-made cu	phoard	fittings

IRONMONGERY

Double action floor springs and top centres	1
including filling boxes with oil P.C. 149/3 each 180/9 186/3	
Overhead check action door springs. P.C. 66/8 each 83/8 87/1	
6" Barrel bolts. P.C. 5/6 each 7/6 8/-	
Cupboard locks. P.C. 8/2 each 12/1 13/1	
Norfolk latches. P.C. 5/6 each 10/2 11/7	
Cylinder night latch. P.C. 15/11 each 22/8 24/5	
Mortice latch. P.C. 9/4 each 14/5 15/9	
Rim lock. P.C. 10/ each 14/1 15/2	
Mortice lock. P.C. 15/2 each 21/10 23/7	
Deor furniture. P.C. 24/ per set 27/5 27/9	1
Sash fasteners. P.C. 9/ each 11/7 12/1	
Casement fasteners. P.C. 7/11 each 10/- 10/4	
Casement stays. P.C. 11/6 each 13/11 14/4	Ł

STEEL AND IRONWORKER

Structural Steelwork

The following prices are for Basic sections (5" x 41" to	16"	X	6")
only. Prices for other sections vary roughly in proportion to			
of the steel ex mills-see "Current Market Prices of Mater	ials.	11	100
R.S.J.—in steel framed structures hoisted and fixed	£	8.	d.
complete per ton	59	6	6
Riveted compound girders including plates and			
rivets per ton	63	15	9
R.S. Stanchions including caps, bases, cleats, etc per ton	65	7	3
Riveted compound stanchions ditto per ton	67	14	6
Riveted roof trusses with flat and angle members,			
plates, cleats, etc., 30' span per ton	92	18	6
Ditto 40' span per ton			
0.1.			

Sundri

				Su	nuries						
Simple					fixed	comp	lete				
(exclu	iding n	nortices	etc.)				****	per cwt	. 11	7	0
Bolts w	ith hea	ds. nut	s and	washer	s and	fixing		per cwt	. 11	3	0

PLASTERER AND TILE FIXER

24 gauge expanded	metal lat	hing a	nd fixin	g to		
softwood soffites				0	per vard super	6/2

Lime and Gypsum Plaster

Inree coat lime and two coat Strapite or		
similar Gypsum plaster :-	Lime	Sirapite
On brick walls and partitions per yard super		4/5
On concrete soffites including hacking per yard super	6/10	6/3
On soffite of E.M.L. (measured separ-		
ately) per yard super	5/10	6/10
On and including wood laths, to soffites per yard super	11/7	-
" Gypsum plasterboard fixed to softwood	,	
soffites, in accordance with manufacturer's		
instructions, scrimmed and finished with		
setting coat of suitable plaster per yar	d super	r 7/4
Plaster moulded cornice or cove (per inch in		
girth) per f	oot rui	$-/4\frac{1}{2}$

Cement Rendering

Centeria Itomaci ing		
Rendering in Portland cement and sand (1:4) and setting in Keenes cement on brick walls		
and partitions	per yard super	5/7
Portland cement and sand (1:3) plain face		m /2 2
trowelled smooth on ditto Portland cement and sand (1:3) screed for	per yard super	0/14
	per yard super	2/9

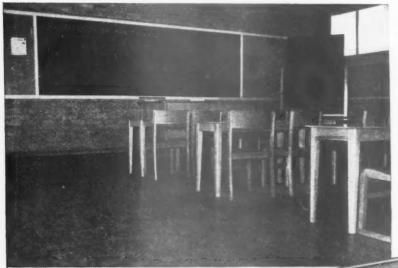
Wall Tiler

6"	× 6" × 3"	Standard qua	ality white	glazed		
	wall tiles set	t and jointed	on prepared	l screed	per yard super	36/9
D	itto eggshell	matt or gloss	y glazed en	amelled	per yard super	46/6

EXTERNAL PLUMBER AND COPPERSMITH AND ZINC WORKER

		Flats	Gutters, flash- ings, etc.	flash-
Milled sheet lead and labour 24 S.W.G. sheet copper and	per cwt.	267/-	267/-	275/4
labour	per foot super	5/3	5/6	5/9
23 S.W.G. sheet copper and labour	per foot super	5/9	6/-	6/4
14 gauge zinc and labour	per foot super	4/-	4/3	4/7

County Architect beats Shortages



THE HENGIST SCHEME

for providing additional school accommodation in the West Riding has involved a rush building programme; all materials used had to be readily available. Accotile, specified by Mr. Hubert Bennett, F.R.I.B.A., West Riding County Architect, for flooring the sixty buildings in the scheme, was chosen primarily because it was readily available, and because for special reasons (see below) the cost of installation was remarkably low—but it has proved more successful than old-fashioned alternatives. Picture shows the Hengist annex at Mansel Crescent Infants' School, Parson's Cross, Sheffield.

VERSATILE NEW MATERIAL SOLVES FLOORING PROBLEM

One of the most urgent tasks confronting public authorities in the post-war years has been the provision of new school accommodation. In the West Riding of Yorkshire, population rise has so far outstripped the regular building programme that an emergency scheme has been put into operation for enlarging the present schools. Sixty annexes of standard design (see illustration) are being built in the grounds of existing schools, mostly comprising two classrooms, cloakroom and sanitary accommodation, in order to meet the emergency.

Owing to the urgency of the work, only readily available materials could be specified. At the same time, the budget would not permit luxuries.

Choosing a floor

One problem of great importance has been flooring. A floor had to be found that was at once durable, readily available, and not too expensive.

The material chosen by Mr. Hubert Bennett, F.R.I.B.A., the county architect, was "Accotile," the asphalt tile flooring made by the Armstrong Cork Company—firstly, because it is readily obtainable, and secondly, because Accotile, with its damp-resisting qualities, can be laid direct on to screeded concrete without the necessity of a damp-course—hence the installation is much lower in cost than for most floors.

Accottle provides the flooring for the classrooms and vestibules of every building in the Hengist Scheme.

Qualities of Accotile

Accotile is a composition of inert, asbestos fibres and ground rock fillers, fadeless mineral pigment and asphalt or resin-binders. It pro-

vides an extremely durable floor (floors laid in this country in 1938 and 1939 are still giving excellent service) that has a strong resistance to alkaline moisture. Accotile remains non-slip under all conditions, which makes it particularly suitable for schools and institutions.

larly suitable for schools and institutions.

There are almost unlimited possibilities of design for Accotile, and it can be laid to harmonize with existing decorations. Inconvenience is cut down to a minimum, since Accotile can be used as soon as it is laid.

Standard Accotile is cleaned by washing with

water, and can be polished when desired. It is resistant to stains and dilute acids. Where conditions make it advisable, a special Grease Resisting Accotile is recommended.

Accotile is available in two sizes of tile (12" x 12" and 9" x 9"); in two thicknesses (h" x h"); and in 19 different colours. In addition, Accotile Coved Skirting, supplied in 36" lengths, obviates the need for timber; and, as there are no corners for dust to collect in, it provides a hygienic, as well as decorative, finish to the room.

ACCOTILE*

"The low-cost floor with the luxury look"

*British Registered Trade Mark 663698. Armstrong Cork Company Ltd., Registered Users.

FOR FURTHER INFORMATION

about Accotile, architects and builders are invited to write or telephone to ARMSTRONG CORK COMPANY LIMITED

London Office: Flooring Department, Bush House, Aldwych, W.C.2. Tel.: Chancery 6281. Birmingham Office: Westminster Chambers, 93a Corporation Street. Tel.: Central 1271.

Glasgow Office: 5 Oswald Street, C.1. Tel.: Central 5703.

Dublin Office: 54 Middle Abbey Street. Tel.: Dublin 54901.

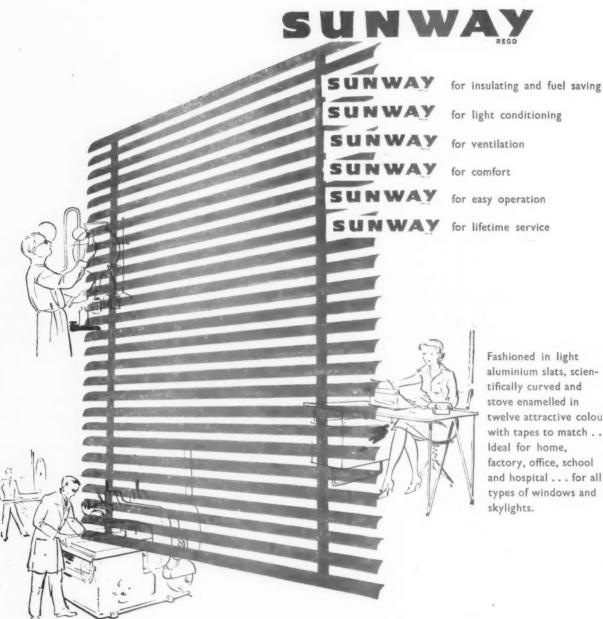
In addition to Armstrong's own service, forty-two approved contractors with branches all over the country handle Accotile.

EXTERNAL PLUMBER AND COPPERSMITH AND ZINC-	INTERNAL PLUMBER—(continued)
WORKER—(continued)	Sanitary Fittings
Rainwater Pipes and Gutters Cast iron medium section (18 metal) R.W. pipes and joint-	Fireclay sinks $24'' \times 18'' \times 10''$ including outting and pinning brackets to tiled wall. P.C. $75/$ each $4\ 15\ 4$ Combined metal sink and drainer $42'' \times 18'' \times 8\frac{1}{4}''$
ing and fixing to walls with pipe nails and distance pieces or holderbats (cutting and holder- nails holder- nails	to bearers (measured separately). P.C. 330/ each 18 11 0 Fireclay lavatory basin 25" × 18" with taps and towel rail bracket including screwing brackets to
pinning holderbats measured separately) per foot run 4/8 3/9 5/8 4/9 Pressed steel R.W. pipes and 24 G. 20 G.	tiled wall. P.C. 138/6 each 8 3 10 Rectangular cast iron porcelain enamelled bath 5'6" long, with taps, and panels to side and one
ditto per foot run 4/3 3/4 5/11 4/11 Asbestos cement R.W. pipes and ditto per foot run 2/11 — 3/7 —	end fixed to framing (measured separately) P.C. 390/6 each 23 7 3 Fireclay w.c. pan with trap, plastic seat, high level
Cast iron half round eaves gutter and jointed and fixed with brackets to fascia per foot run $\frac{1}{2}/\frac{6}{18}$ $\frac{1}{3}$ $\frac{7}{18}$ $\frac{7}{18}$ Ditto O.G. ditto per foot run $\frac{2}{12}$ $\frac{3}{13}$ $\frac{3}{12}$ $\frac{3}{12}$ $\frac{3}{12}$	cistern and flush pipe, including screwing pan to floor and cistern brackets to backboard. P.C. 200/- each 12 10 0 Ditto with low level cistern. P.C. 240/ each 14 15 0
18 Gauge pressed steel half round ditto per foot run 2/8½ 3/9 Ditto O.G. ditto per foot run 3/3 4/6	GLAZIER To To
Asbestos cement half round ditto per foot run 2/3 3/8	18 oz. Ordinary quality sheet glass and wood metal glazing with putty in squares not exceeding 4 ft. sup per foot super -/10\frac{1}{2} 1/-
Soil and Ventilating Pipes	24 oz. Ditto and ditto per foot super 1/- 1/1\frac{1}{2} 32 oz. Ditto and ditto per foot super 1/5 1/6\frac{1}{2} *Figured, rolled, and cathedral—un-
Lead soil, waste and ventilat- ing pipes (17 lb. per yard for 3" and 22 · 8 lb. per yard for 4"	tinted and ditto per foot super $1/2$ $1/3\frac{1}{2}$ $1/6$ $1/7$ Wired cast and ditto per foot super $1/4\frac{1}{2}$ $1/6$ $1/7$
diameter) fixed to walls with 3" 4" lead tacks and brass screws per foot run 15/10 22/-Medium or heavy section east	For Georgian wired cast and ditto per foot super 1/6½ 1/8 To To
iron soil, waste and ventilat- ing pipes with caulked joints, Heavy Med- #" ium #" ium	4" Georgian wired polished plate and ditto per foot super 5/6 5/74
fixed to walls, with pipe nails and distance pieces per foot run $4/10$ $4/6$ $6/2$ $6/1$	4 Polished plate (glazing quality) and ditto per foot super 5/3 5/5
INTERNAL PLUMBER	PAINTER
Lead Pipes	
Prices are based upon the following weights per yard.	Whitening, Distemper and Paint on Walls Prepare and twice whiten plastered walls and
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ceilings per yard super 1/1
Supply 7 11 16 21 Distributing 6 9 12.5 16 Flushing and overflow 3 5 7 9	Prepare and twice distemper with washable distemper on plastered walls and ceilings per yard super 1/8½ Ditto on brick or concrete per yard super 2/3 Prepare, prime, and paint two coats oil colour
	on plastered walls and ceilings per yard super 4/81
Supply pipe in trench (measured separately) per foot run $5/2\frac{1}{2}$ $8/ 11/5$ $15/-$ Ditto fixed to walls and ceilings per foot run $5/7$ $8/6$ $12/2$ $16/1$ Distributing pipe fixed to walls	Paint on Metal Add for
and ceilings per foot run 4/11 7/2 9/9 12/10 Flushing and overflow pipe ditto per foot run 3/1 4/7 6/2 8/2 Waste and ventilating pipe ditto per foot run	Prepare, prime, and paint one coat oil Basic each ad price ditiona coat
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	colour on general surfaces per yard super $3/1$ $1/5$ Ditto metal casements per yard super $4/7$ $2/$ Ditto members of roof trusses per yard super $3/10$ $1/8\frac{1}{2}$ Ditto balustrades one side per yard super $4/7$ $2/$
Steel Tubes and Fittings	Ditto bars, etc., not exceeding 6" girth per yard run -/9 -/4
Galvanized steel tubes to B.S. 1387 Class C with screwed joints in red lead as supply	Paint on Wood
pipe laid in trench (measured separately) per foot run $2/1$ $2/5\frac{1}{2}$ $2/6\frac{1}{2}$ $3/5\frac{1}{2}$ Ditto Class B ditto fixed to	Add for Basic each ad Knot, prime, stop and paint one coat price ditiona
walls and ceilings as supply, distributing, waste pipe, etc. per foot run 2/- 2/5 2/61 3/3	oil colour on general surfaces of wood- work per yard super 3/5 1/5
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Ditto on skirtings, rails, frames, etc., not exceeding 3" girth per yard run -/5 -/2 Ditto ditto for each additional 3" in girth per yard run -/4\frac{1}{4} -/2
Copper Tubes and Fittings	Ditto on sash squares one side per dozen 4/4 1/9 Ditto on large sash squares one side per dozen 7/9 3/1
Prices are based upon the following gauges :-	Stain and Varnish on Wood
Supply	Prepare, size, stain and twice varnish on
Distributing, waste, etc 19 19 18 18 Copper tubes to B.S. 1386, as supply pipe laid in trench	general surfaces of woodwork per yard super 3/7 Ditto on skirtings, rails, frames, etc. not exceed- ing 3" girth per yard run -/54
(couplings and trench measured separately) per foot run 1/10 2/8 3/8 5/6½ Ditto to B.S. 659 as distribut-	Ditto ditto for each additional 3" in girth per yard run -/5
ing, waste pipes, etc. fixed to walls and ceilings. Coup-	1713
lings measured separately per foot run 1/9½ 2/3½ 3/3 3/10	
	Tawains

n

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THE INDUSTRY

From the Industry this week Brian Grant describes two new cooking stoves, a fire and a house heating unit, all on show at the BIF.

BIRMINGHAM, BIF

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There is such an acreage at the Castle Bromwich section of the British Industries Fair that it becomes a virtual impossibility to give more than a glance to the majority of the exhibits. There are, however, several new devices which merit a fairly full description.

On the stand of the Radiation group of companies there are several new models, including a type 32 "Raymax" fire, a new "Yorkyale" heat retention cooker which is astonishingly low in price, and a modified version of the whole house heating unit shown in part sections and with glass sides so that it is possible to see how the whole thing works.

The section below, left, shows the circulation and method of working of the older type 28 "Raymax," the newer type 32, being the same in principle, but having a one-piece front so that it can be installed with grilles in the tiled surround, or to duct convected warm air to another room. The fire works warm air to another room. The fire works mainly on the down-draught principle and gives direct and reflected radiant heat, convected warm air and hot water.

The radiant heat directed upwards from the fuel bed of the fire is reflected outwards into the room by a polished reflector which is removed when the fire is closed down for Fuel consumption varies night burning.

from ½ to 5 pounds of fuel an hour, according to output. Boiler output is enough for normal domestic hot water plus from 20 to 50 square feet of radiator surface, including

50 square feet of radiator surface, including pipe runs.

So far as space heating is concerned the appliance is large enough for rooms up to 2,000 cu. ft., provided that the convected air is supplied to the same room. In rooms up to 800 cu. ft. or so the convected air can be used for one or two average size bed-

"YORKVALE" COOKER

The "Yorkvale" cooker (not to be confused with the "Yorkvale" back to back range) is an entirely new design. insulated, it has a large general purpose oven and a smaller plate warming cupboard. The hot plate is large, and has the now usual hinged insulating lid while there is also a boiler for hot water supply. The price, from £42 and upwards, according to the type of boiler and extra fittings required, seems very low. (Radiation Ltd., 7 Stratford Place, London, W.1.)

ANOTHER COOKER

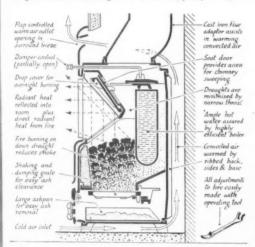
It is interesting to compare this "Yorkvale" cooker with the "Sunbeam Superior" shown by Chatwins. This model has the blessing of the Council of Industrial Design and will provide hot water for three radiators as well as the normal domestic supply. Ovens, fire and ash container all have drop doors, and the heavily insulated bolster over the hot plate is spring loaded so that it can be lifted with one finger. There is also an extra control to give quick warming-up in the morn-Attention has also been paid to ease of use and maintenance: control of draught is by a sleeve type damper, there is a rapid ash clearing device, and the firebricks can be replaced in an hour or less-quite a major job with the majority of cookers of this type. Price is £48 15s. (Chatwins Ltd., Tipton, Staffs.)

ELECTRICAL FITTINGS

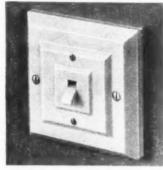
Falk, Stadelmann were showing the air conditioning fan illustrated in the last instalment of these notes, and also a new "Surflush" switch designed for alternating current supplies. It is, in fact, a surface type switch, but the projection from the wall is very small, so that it appears almost to be a flush type. to be a flush type. It can, however, be mounted direct on the wall at the cable exit, without the use of a block or a sunk box. The slight projection is, if anything, an advantage, as a completely flush switch can be a little difficult to find in the dark with the result that there are too many dirty fingermarks on the wall. (Falk, Stadelmann & Co. Ltd., 91 Farringdon Road, London, E.C.1.) BRIAN GRANT

Buildings Illustrated

Cherry Orchard Primary School in Marltherry Orchard Frimary School in Mari-borough Lane, Greenwich, London, S.E.7, for the London County Council. (Pages 608-612.) Architect: Denis Clarke Hall, F.R.I.B.A., and L. W. Elliott, A.R.I.B.A., A.M.I.C.E., A.M.I.STRUCT.E. Assistant in Charge: H. G. Montgomerie, A.R.I.B.A. General contractor: Walter Gladding & Co. Ltd. Clerk of works: H. E. Fuller. General foreman: works: H. E. Fuller. General foreman: S. W. Parris. Sub-contractors: bricks, Henry J. Greenham Ltd.; artificial stone, W. C. Richardson Ltd.; bitumetal roofing, William Briggs & Sons Ltd.; w.c. partitions and terrazzo, Mosaic & Terrazzo Co. Ltd.; heat resisting glass, Chance Bros. Ltd.; woodblock flooring, New Flooring Installations Ltd.; accotile flooring, Neuchatel Asphalte Co. Ltd.; central heating. The Ray-Heeting Co. Ltd.; central heating, The Ray-Heeting

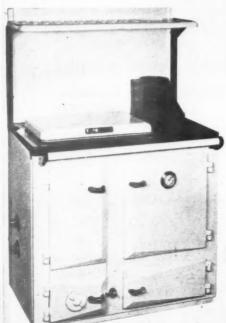


Below, the "Surflush" Switch by Falk, Stadelmann & Co., Ltd. Left, the "Raymax" fire. Bottom, left, the "Yorkvale" solid-fuel cooker, finished in cream and black vitreous enamel. Bottom, right, the "Sunbeam Superior" solid-fuel









ENQUIRY FORM

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

Please ask manufacturers to send further particulars to :-

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PROFESSION or TRADE

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Co. Ltd.; electric wiring, fixtures and electric heating, Kirkdale Electrical Co.; door and window furniture, A. J. Binns Ltd.; casements, Williams & Williams Ltd.; servery hatch shutter, Haskins Ltd.; entrance hall seat cushions, Dunns of Bromley; furniture, L.C.C. Supply Division, Educational Supply Association Ltd (tables and chairs), Story & Co. Ltd. (staff rooms); cloakroom fittings, Comyn Ching & Co. Ltd.

(The following lists of sub-contractors refer to canteens illustrated in last week's Canteen at Stoke Poges, Bucks., for the Fulmer Research Institute Ltd. (Page 571.) Architects: A. F. Hare & Partners, A.R.I.B.A.; assistant architect-in-charge, G. F. Kendrew, A.R.I.B.A. General contractors: William Hartley & Sons. Sub-contractors: aluminium structure, Structural & Mechanical Development Engineers Ltd.; bricks, Marston Valley Brick Co.; insulating blocks, Thermalite Ltd.; roofing, Stramit Boards Ltd.; roof covering, Bitumen Industries Ltd.; "floor, Granwood Flooring Co. Ltd.; wall tiles, Carter & Co. (London) Ltd.; gas installation and heaters, North Thames Gas Board.

Canteen & Mechanics' Lobby Buildings, Gas Works, Bromley-by-Bow, E.3. (Page 572.) Architect: Elie Mayorcas, F.R.I.B.A. Quantity Surveyor: C. E. Kenney, F.R.I.C.S. General Contractor: Thomas & Edge Ltd. Sub-contractors: Excavation, dampcourses, joinery, Thomas & Edge Ltd.; bricks, Cement Marketing Co. Ltd.; built-up ply roofs and aluminium decking, roofing felt, William Briggs & Sons Ltd.; lavatory partitions, Art Pavement & Decorations Ltd.; glass, Aygee & Co. Ltd.; lay lights, John Williams & Sons (Cardiff) Ltd.; concrete roof lights, Haywards Ltd.; woodblock flooring, Horsley Smith & Co. (Hayes) Ltd.; electric light fixtures, Troughton & Young Ltd.; rolling shutters, G. Brady & Co. Ltd.; doors, Esavian Ltd.; kitchen equipment, Gardiner & Gulland Ltd.; acoustic tiles, Horace Cullum & Co.; furniture, Dare-Inglis Products Ltd.; cloakroom fittings, Speedwell Gear Case Co.; clocks, Smith & Co. Ltd.; d.

Canteen at the factory for Aspro (Ireland) Ltd., at Inchicore, Dublin, Ireland. (Page 573.) Architect: Alan Hope, B.ARCH., M.R.I.A.I., A.R.I.B.A., A.M.T.P.I. Quantity surveyor: Beckett and Metcalf. Consulting engineer: J. P. Tierney & Co. General contractor: T. & G. Crampton Ltd. Subcontractors: Thermoplastic tile flooring ("Accotile"), Armstrong Cork Co. Ltd.; heating, Matthew Hall Ltd.; rubber floors, the Irish Dunlop Co.; built-up roofing ("Ruberoid"), S. G. Glorney; sewerage disposal, Tuke & Bell Ltd.

Canteen at Newbury Park Bus Station, Newbury Park, Ilford. (Page 577.) Architect: Oliver Hill, F.R.I.B.A. Assistant Architect: Edward Duley, L.R.I.B.A., A.I.A.A. London Transport Executive Liaison Architect: G. C. Manley, L.R.I.B.A. General contractor (inc. reinforced concrete): Higgs & Hill Ltd. Sub-contractors: asphalt, Excel Asphalte Co.; built-up roofing, Ruberoid Co., Ltd.; glass, Aygee, Ltd.; patent glazing, dome light, Pilkington Bros. Ltd.; patent flooring and art pavements, Semtex, Ltd.; sanitary fittings, Shanks & Co., Ltd.; door furniture, Wiggins-Sankey, Ltd.; folding gates, rolling shutters, Haywards, Ltd., decorative plaster, Tyrolean finish, Cement Marketing Co., Ltd.; metalwork fittings (anti-flu sash), Fredk. Sage & Co., Ltd.; kitchen equipment, R. Crittall & Co., Jackson Electric Stove Co., Ltd.

Canteen at 1-4 Gt. Tower Street, E.C.3, for Harrisons & Crosfield Ltd. (Page 579.) Architects: Ernest Bates & Wm. G. Sinning, F./A.R.I.B.A.; assistants, Frederick Painter and Maurice Jay. Consulting engineers: Handcock & Dykes. General contractor: Trollope & Colls Ltd. Sub-contractors: kitchen equipment, Benham & Sons Ltd.; terrazzo flooring, Art Pavements & Decorations Ltd.; wall tiles, Carter & Co. (London) Ltd.; heating and hot water supply. Rosser & Russell Ltd.; extract ventilation, Ozonair Ltd.; roller shutters, Arthur L. Gibson & Co. Ltd.; "Dunlopillo" seating in directors' room, N.A.P. Latex Products Ltd.; door furniture, etc., Yannedis & Co. Ltd.

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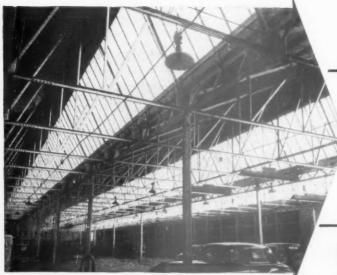
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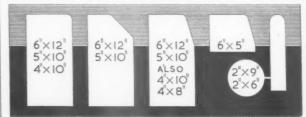
Section	Description	Approx. Weight
6" × 12" B.S. Fig. 1	Rectangular Bulinose	101 yards per ton
5" × 10" ,, ,, 2	11 11	15 ,, ,,
4 × 10 ,, ,, 3	a to Vancour "	183 ,, ,,
6 × 12 ,, ,, 4	Splayed Section	11 ,, ,,
5 × 10 ,, ,, 5	11 12 n 12	104 11 11
0 X 12 ,, ,, 0	Half Batter Section	104 ,, ,,
3 × 10 ,, ,, /	22 12 12	13½ ,, ,,

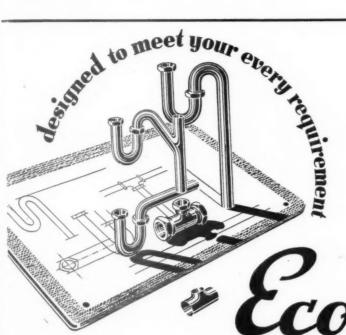
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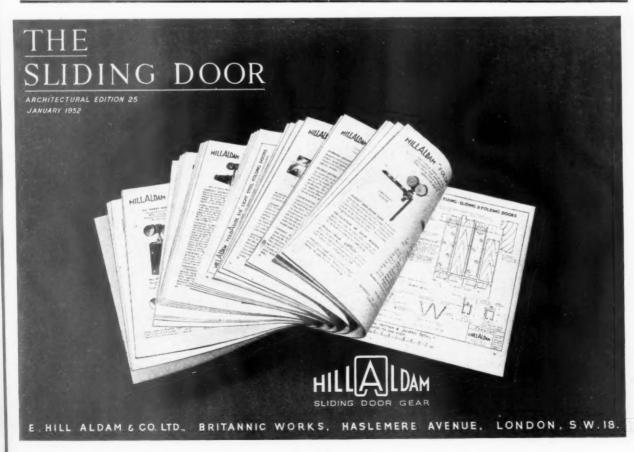
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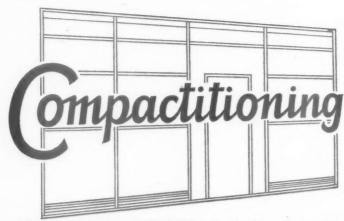
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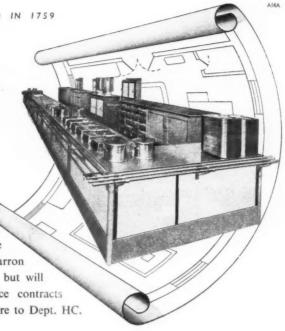
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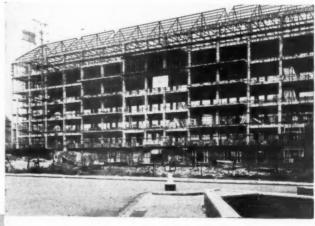
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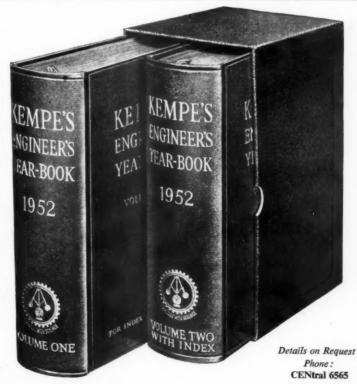
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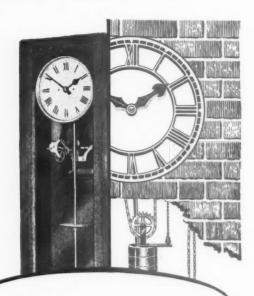
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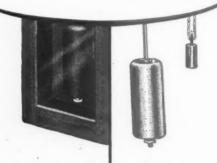
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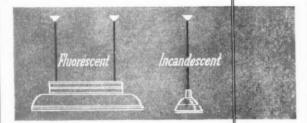
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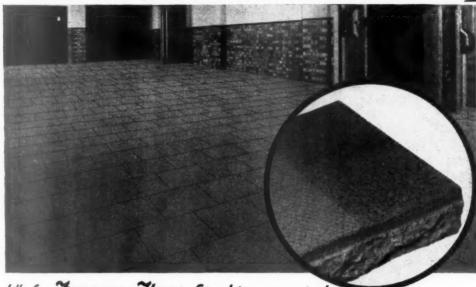
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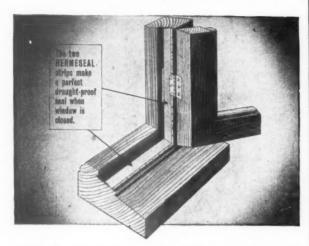
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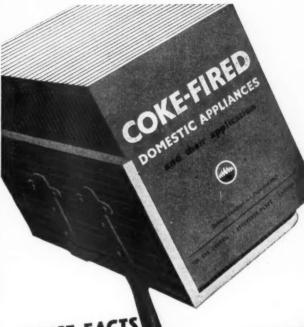
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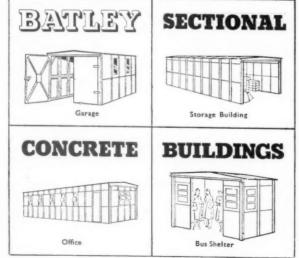
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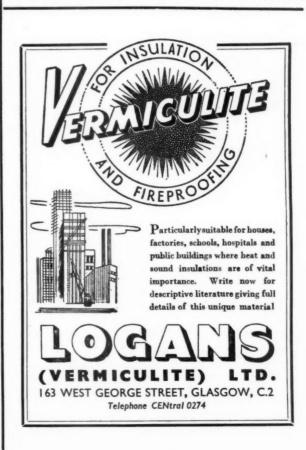
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THE PAINTER likes it because it is much easier to apply than any other paint it avoids any brush marks, can be second coated within a few hours and his brushes can be cleaned with water.

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A BOOK for architects and industrialists. Its purpose is to help solve the many present-day problems of factory layout, planning, design and construction. It contains chapters dealing with siting and layout; the factory estate; the design and structural techniques employed for modern factory buildings; technical considerations; storage and warehouse accommodation; administration buildings; industrial laboratories; industrial welfare buildings. There are numerous line-diagrams, tables and working check-lists in the text, and the book illustrates, with photographs and drawings, a selection of the more interesting factories recently built in this country and abroad, factories which are not only efficient production units but also outstanding examples of contemporary architecture. It ends with a comprehensive bibliography. Bound in full cloth boards. Size 91 ins. by 7½ ins. 192 pages including frontispiece and 42 pages of plates; many line drawings, a bibliography and an index. Price 30s. net. Postage 8d.

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THE HAMPERING effect of the I steel shortage can be minimised by the use of more timber for trusses, lattice girders, bracing members, etc. This technique is possible through "Bat" Timber Connectors-providing immensely strong efficient joints - real engineering practice in timber.

Study the diagrams and it can easily be observed how the "Bat" Connector when bolted 'bites' into the wood. If you would like to know more about the possibilities of timber in structural work send for leaflet-free to all architects.







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CLASSIFIED ADVERTISEMENTS

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

paper.
Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

Public and Official Announcements 25s. per inch; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-49 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.

CITY OF BIRMINGHAM
EDUCATION COMMITTEE.
APPOINTMENT OF ARCHITECT.
Applications are invited for the post of Architect
to the Birmingham Education Committee. Salary:
£1,750 × £100 − £2,150. Further particulars of the
post, together with forms of application which
should be returned not later than 26th May, 1952,
may be obtained (s.a.e.) from the undersigned.
E. L. RUSSELL,
Chief Education Officer.

Education Office, General Purposes Branch, Council House, Margaret Street, Birmingham, 3. 6775

ROYAL WEST OF ENGLAND ACADEMY
SCHOOL OF ARCHITECTURE, BRISTOL.
Owing to the retirement of the present Principal, applications are invited for the post of PRIN-CIPAL, who will also be a Year Master, at a salary of £1,200 p.a., rising by annual increments of £50 to £1,400 p.a., the appointment to take effect from 1st September, 1952.
Applications should be made in writing, stating particulars of previous experience and the names of two referees, by 14th June, 1952, to the Honorary Secretary, Eustace H. Button, 23, Berkeley Square, Bristol, 8.

Berkeley Square, Bristol, 8.

COUNTY BOROUGH OF GREAT YARMOUTH EDUCATION COMMITTEE.

APPOINTMENT OF CLERK OF WORKS.
Applications are invited for the appointment of a Clerk of Works to supervise the erection of the new Peterhouse Junior School.

The appointment will be temporary, for approximately two years, and subject to one month's notice on either side. 212 per week.

The salary will be £12 per week.
Applicants must have a thorough knowledge of the building trade, including experience in connection with steel-framed buildings. They must be conversant with plans, specifications, bills of quantities and competent to set out work, give levels and keep all necessary records and progress reports.

reports.

Applications, stating age, qualifications, present employment and previous experience, accompanied by copies of three testimonials, should be enclosed in an envelope endorsed "Clerk of Works, Schols" and must be received by me not later than 30th May, 1952.

Canvassing directly or indirectly will be deemed a disqualification, and candidates must disclose in writing whether, to their knowledge, they are related to any member, or holder of any senior office under the Council. Candidates who fail to do so will be disqualified and, if appointed, will be liable to dismissal without notice.

2. Euston_Road,

Chief Education Officer.

22, Euston Road, Great Yarmouth. 18th April, 1952.

Great Yarmouth.

18th April, 1952.

METROPOLITAN BOROUGH OF HACKNEY.

BOROUGH ENGINEER AND SURVEYOR'S

DEPARTMENT.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for this permanent appointment at a salary in accordance with Grades A.P.T., Va-VI (£600 p.a. to £710 p.a.) plus London Weighting Allowance. The commencing salary may be fixed at a point above the minimum according to the qualifications and experience of the successful candidate.

Candidates must have had a good general experience in design and construction and hold an appropriate professional qualification.

The successful candidate will be required to undertake the oversight of the maintenance of Council's properties, including the preparation of specifications for and the technical supervision of repairs, alterations and improvements, in addition to general architectural work.

Conditions of appointment and application form may be obtained from the undersigned upon receipt of a stamped addressed foolscap envelope.

Completed application forms endorsed "Assistant Architect must be returned not later than first post on 30th May, 1952. The Council is unable to provide any housing accommodation for the successful candidate.

DUDLEY SORRELL.

Town Clerk.

Town Clerk.

6th May, 1952. 6826

Town Hall, Hackney, E.8. 6th May, 1952.

LONDON COUNTY COUNCIL ARCHITECT'S DEPARTMEN DISTRICT SURVEYORS' SERVICE.

DISTRICT SURVEYURS SERVICE.

(a) Grade II positions (2837 10s. to £1,002).

(b) Technical Assistants (up to £565).

Candidates should be A.M.I.Struct.E. (or equivalent), A.R.I.B.A. or A.R.I.C.S. Structural knowledge essential. Interesting pensionable career. Particulars and application form from Architect (quote EK/DS5), County Hail, S.E.I. specifying (a) or (b), (449)

SINGAPORE IMPROVEMENT TRUST.
TWO ASSISTANT ARCHITECTS are required by the Singapore Improvement Trust, the appointment being in the first instance on a three years' agreement. Age between 23 and 35 years.
Applicants must be qualified by examination as Associates of the Royal Institute of British Architects.

agreement. Age between 23 and 35 years.
Applicants must be qualified by examination as Associates of the Royal Institute of British Architects.
Salary scale, \$500-\$1,000 per month. Point of entry depending on the age, qualifications and experience of the appointees. Expatriation allowance, \$110 to \$190 per month, according to basic salary. Cost-of-living allowance, 95 per cent. of the first \$200 p.m. of basic salary, plus (i) single officers, 40 per cent. of next \$100 and 25 per cent. of next \$4200 p.m. of basic salary, maximum allowance, \$330 p.m.), (ii) married officers with no dependent children, 55 per cent. of next \$300 p.m. of basic salary (maximum allowance, \$435 p.m.). An allowance will be paid to cover cent. of next \$400 and 65 per cent. of next \$100 p.m. of basic salary (maximum allowance, \$555 p.m.). An allowance will be paid to cover cost of duty transport. All allowances are subject to revision. (\$1 Malayan=2s. 4d.)
Strict medical examination. Provident Fund, to which the appointees must contribute 7½ per cent. of salary; the Trust contributes a minimum of 7½ per cent. of salary by stages to 20 per cent. after 20 years' service. Leave and passages in accordance with Regulations. Quarters (with heavy furniture) are provided at a rental of 8 per cent. of salary, or a housing allowance (12 per cent. of salary) paid in lieu.

Applications in duplicate, with full personal and technical information, including copies of three recent testimonials, to Messrs. Peirce & Williams (Agents to the Trust), I, Victoria Street, London, S.W.1, before Wednesday, 4th June.

COUNTY BOROUGH OF TYNEMOUTH.
BOROUGH SURVEYOR'S DEPARTMENT.
Appointment of:

(1) SENIOR ASSISTANT ENGINEER.
(2) JUNIOR ASSISTANT ENGINEER.
(2) JUNIOR ASSISTANT ENGINEER.
(3) ASSISTANT QUANTITY SURVEYOR.
Applications are invited for the above appointments, with salaries on the following grades of the National Salary Scales:

(1) Grade II, £470-£515.

The appointments are superannuable.
The Corporation will be prepared to assist in the provision of housing accommodation in cases of difficulty in respect of appointment (1) only.
Application Forms and Conditions of Appointment may be obtained from Mr. D. M. O'Herlihy, B.Sc.(Eng.), M.I.C.E., Borough Surveyor, 16, Northumberland Square, North Shields, to whom they should be returned by the 7th day of June, 1952.

(Sgd.) FRED. G. EGNER,

(Sgd.) FRED. G. EGNER 5, Northumberland Square, North Shields. 6813

5, Northumberland Square, North Shields. 6813

UNIVERSITY COLLEGE OF NORTH

STAFFORDSHIRE.

Applications are invited for the post of ASSISTANT ARCHITECT on the staff of the Buildings Officer and Architect. Salary 2600×220—2700×210—2710. Initial salary will depend upon qualifications and experience. The duties may include work on buildings for teaching and research in the humanifies and sciences, general purpose buildings, students' hostels, staff residences and general services. Superannuation and child allowances will be paid. Three copies of applications, giving full details of age, qualifications, experience, etc., and the names of three referees, should be sent to: The Registrar, The College, Keele, Staffordshire, to reach him not later than the 24th May, 1952.

MONMOUTHSHIRE COUNTY COUNCIL.

APPOINTMENT OF ARCHITECTURAL STAFF. Applications are invited for the following posts in the County Architect's Department under N.J.C. service conditions:—

THREE SENIOR ARCHITECTURAL ASSISTANTS. Salary 2500-2545 (A.P.T., VII).

TWO ARCHITECTURAL ASSISTANTS. Salary 2500-2545 (A.P.T., VIII).

THESE ASSISTANT QUANTITY SURVEYORS. Salary 2500-2545 (A.P.T., VIII).

THESE ASSISTANT QUANTITY SURVEYORS. Salary 2500-2545 (A.P.T., VIII).

THESE ASSISTANT QUANTITY SURVEYORS. Salary 2500-2545 (A.P.T., VIII).

Forms of Applications, particulars of posts and conditions of service can be obtained from the andersigned. Applications, together with copies of three testimonials, must be forwarded to the County Architect, Queen's HIII, Newport, Mon., not later than 30th May, 1952.

Clerk of the Council.

County Hall, Newport, Mon.

AYCLIFFE DEVELOPMENT CORPORATION.

APPOINTMENT OF ARCHITECTURAL

Applications are invited from fully qualified Architects for the post of Architectural Assistant to the Chief Architect of the Corporation (Mr. G. A. Goldstraw) at a salary in accordance with Grade VI of the A.P.T. Division of the National Scale for Staffs of Local Authorities, i.e., 2645 per annum, rising by two annual increments of £20 and one of £25 to £710 per annum.

The successful applicant will be engaged on the Corporation's capital works programme for the building of the New Town of Newton Aycliffe, and candidates for the post must have had extensive experience in the external control of building contracts, including the issue of Variation Orders, instructions to Clerks of Works, etc.

The appointment will be subject to termination by one month's notice in writing on either side; to the provision of the Local Government Superannuation Act, 1937, and to the conditions of service of the National Joint Council.

The Corporation are prepared to offer housing accommodation to the successful applicant, if necessary.

accommodation to the succession approximates and past appointments and details of experience, together with the names and addresses of two persons to whom reference can be made as to ability, should be forwarded to the undersigned, to arrive not later than 24th May, 1952.

A. W. THOMAS,

General Manager.

Newton Aycliffe, Co. Durham. 7th May, 1952.

LEEDS EDUCATION COMMITTEE.
LEEDS COLLEGE OF ART.
Principal: E. E. PULLER, A.R.C.A., F.S.A.E.,
F.R.S.A.

(1) HEAD OF THE SCHOOL OF ARCHITECTURE AND TOWN PLANNING.
Applications are invited for the above post, duties to begin on the 1st September, 1962. The Diploma of the School is recognised for exemption from the Final Examination for the Associateship of the R.I.B.A. The Town Planning Course is similarly recognised by the Institute Town Planning Course is

Salary: Burnham Technical Scale, Head of Department, Grade IV. £1,300×£25-£1,450.
(2) SENIOR LECTURER IN TOWN PLAN-NING.

(2) SENIOR LECTURER IN TOWN PLAN-NING.

Applications are invited for a Senior Lecturer, to take charge of the Course for the Diploma in Town Planning. Candidates should hold a recognised Degree or Diploma in Architecture, together with a recognised Diploma in Town Planning or Civic Design, and should have had experience of work under the Town and Country Planning Acts, 1947, or the New Town Acts, 1946. Salary: Burnham Technical Scale for Senior Lecturers, £1,000×£25—£1,150.

Application forms (stamped addressed envelope) and further particulars may be obtained from the Chief Education Officer, Education Offices, Leeds, 1, and should be returned within 14 days of this notice.

Leeds, 1, and should be returned within 14 days of this notice.

BOROUGH OF RICHMOND, SURREY. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment on the established staff of the Borough Engineer and Surveyor from persons having experience in building work, particularly the maintenance of dwellings and public buildings, the preparation of estimates and reports.

The salary is on Grade A.P.T., III, of the National Scale of Salaries (£500×£15—£545 per annum), plus the appropriate London area weighting.

The appointment is subject to the provisions of the National Scheme of Conditions of Service and the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

Applications, stating age, education and training, qualifications, experience, with particulars of present and previous appointments, together with the names and addresses of two persons to whom reference as to suitability for the appointment may be made, should be delivered to the undersigned not later than 30th May, 1952.

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

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

CLIFFORD HEYWORTH.

Municipal Offices. Parkshot,
Richmond. Surrey.

Municipal Offices, Par Parkshot. Richmond, May. 1952.

May. 1952.

STAFFORDSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
APPOINTMENT OF ARCHITECTURAL
EXPERIENCE ARCHITECTURAL
EXPERIENCE ARCHITECTURAL ASSISTANTS
are invited to apply for the above, stating salary
required and giving full details of experience,
qualifications, age and present salary and position,
etc. Applications, together with copies of three
recent teatimonials should be forwarded, as soon
as possible, to C. M. Coombs, F.R.I.B.A., County
Architect, Martin Street, Stafford.

The Clerk of the County Council.
Sth May, 1952.

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WALTHAMSTOW COMMITTEE FOR EDUCATION.

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Applications are invited for the following permanent appointments in the office of the Architect to the Committee, Mr. Frank H. Heaven, A.R.I.B.A. A.R.I.C.S.

(a) ASSISTANT ARCHITECT at a salary of £570 rising by two increments of £15 and one of £20 to £620 per annum (Grade A.P.T. V of National Scales).

(b) ASSISTANT ARCHITECT at a salary of £530 rising by increments of £15 to £955 per annum (Grade A.P.T. V of National Scales).

In addition, a London Weighting of £30 rising by increments of £15 to £955 per annum (Grade A.P.T. IV of National Scales).

In addition, a London Weighting of £30 rising by increments of £15 and £15 years of age and over, or £20 age 21 to 25, is payable.

Applications by letter giving full particulars should be made to The Borough Education Officer. Town Hall, Forest Road, Waithamstow, £17, within three weeks of the appearance of this notice.

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

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT in the Borough Engineer's Department. The salary grade will be fixed in accordance with experience and qualifications, but the maximum salary offered is Grade V of the National Scales (£570 rising to £620 per annum).

Applicants for this appointment should at least have passed the Intermediate R.I.B.A. Examination and have had good general experience in a Municipal Architect's office.

Conditions of service are those formulated by the National Joint Council. The appointment is on the established staff and subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination.

Canvassing, either directly or indirectly, will disqualify the candidates, and any known relationship to a member or senior officer of the Council must be clearly stated in the application.

Forms of application may be obtained from the Borough Engineer and Surveyor, 22-24 Nicholas Street, Burnley, to whom applications should be returned not later than Wednesday, 4th June, 1952.

C. V. THORNLEY.

Town Clerk.

THE UNIVERSITY OF LEEDS. Applications are invited for the post of DEPUTY SURVEYOR of the Fabric. Candidates should possess a wide general knowledge of building construction and have had practical experience of supervision. Preference will be given to Registered Architects or Members of the Royal Institute of Chartered Surveyors. Commencing salary £600-£700, according to qualifications and experience. Applications, stating age, training experience, qualifications and other relative information, together with copies of three recent testimonials, should be addressed to The Bursar, The University of Leeds, Leeds, 2, and endorsed "Deputy Surveyor." 6807

BOROUGH OF BRIDGWATER.

APPOINTMENT OF BOROUGH ARCHITECT.
Applications for the above appointment are invited from qualified Architects, with wide Municipal experience, especially in housing. Salary £850 per annum, rising by increments of £50 per annum to a maximum of £1,000 per annum.

The person appointed will be responsible for the whole of the Council's architectural work, and the appointment will be subject to the recommendations of the Joint Negotiating Committee for Chief Officers of Local Authorities,

The appointment is also subject (a) to the provisions of the Local Government Superannuation Act, 1937, (b) to the passing of a medical examination, and will be terminable by three months' notice on either side.

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, must reach the undersigned not later than the 26th May, 1952.

Canvassing in any form will disqualify, and applicants must disclose whether they are related to any member or senior officer of the Council.

H. A. CLIDERO.

Town Hall, Bridgwater.

30th April, 1952.

6806

BOROUGH OF EALING.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
APPOINTMENT OF TOWN PLANNING
ASSISTANT.
Applications are invited for the permanent appointment of Town Planning Assistant, at a salary in accordance with Grade VI of the A.P.T. Division of the National Scheme of Conditions of Service, commencing at £675 per annum, rising by annual increments to £740 per annum, inclusive of London weighting.

Candidates must have had a wide practical experience of town planning and knowledge of the Town and Country Planning Act, 1947, and its Regulations, and possess a recognised planning qualification.

The Council is unable to provide housing accommodation for the successful candidate.

Forms of application, together with Conditions of Appointment, may be obtained from the Borough Engineer and Surveyor, Town Hall, Ealing, W.5, and must be returned to me not later than the 3rd June, 1952.

E. J. COPE-BROWN,

Town Hall, Ealing, W.5.

Town Hall, Ealing. W.5.

Town Hall, Ealing. W.5.

Town Hall, Ealing. W.5.

COUNTY BOROUGH OF BURY.

Applications are invited for the appointments of an ARCHITECTURAL ASSISTANT and a QUANTITY SURVEYOR in the Borough Engineer's Department. The salary for each of the appointments is up to Grade A.P.T. III (£500-£545) of the National Scales of Salaries.

The appointments are subject to the Local Government Superannuation Act, 1937, and to medical examination.

Applications, stating age, details of training, qualifications and experience, together with the names and addresses of two persons to whom reference may be made must be received by me not later than the 31st May, 1952.

EDWARD S. SMITH.

Town Clerk.

Town Hall, Bury. 9th May, 1952.

6833

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.

EXPERIENCED SENIOR required in Architect's Department in City. Qualified office trained man of about 35/40 preferred. Must be used to good class work and taking charge from cketch plan to final account for both new and maintenance works. Secure future for suitable applicant. State complete details of past work, also age and salary required. Box 6784.



just published

plastics in Building

by Joseph B. Singer, B.Sc. (Arch.), A.R.I.B.A.

HERE FOR THE FIRST TIME is a comprehensive text-book giving up-to-date information on the practical application of plastics in the building industry—information of the greatest importance not only to architects but also to builders and their operatives. The author, who is an architect and scientist and is recognised as a leading authority on his subject, has divided the book into four parts. Part I deals with the history and general outline of the plastics industry; part 2 with plastics for exterior work; part 3 with plastics for interior work; and part 4 with the future possibilities of plastics in building. Under these headings are discussed the uses of plastics for walls, roofs, glazing, floor coverings, heat and sound insulation, plumbing and sanitation, furniture, electrical equipment and lighting, etc. In addition there is a glossary of trade terms, a bibliography and general index.

> Bound in full cloth boards. Size 83in. by 5½in. 176 pages, including over 50 line diagrams and 30 half-tone illustrations. 18s net, postage 5d inland

THE ARCHITECTURAL PRESS

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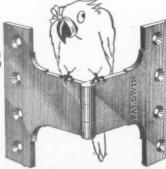
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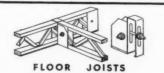
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