A_{AP}R C H I T E C T FIFOURNAL



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contents

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

EWS and COMMENT

ragal's Notes and Topics

SECTION ECHNICAL

firmation Sheets ormation Centre ment Technique mking Details ustions and Answers

u Industry

URRENT BUILDING

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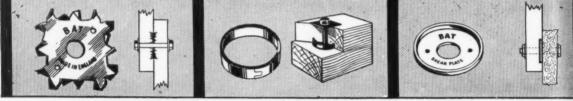
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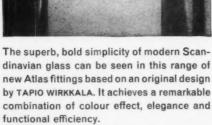
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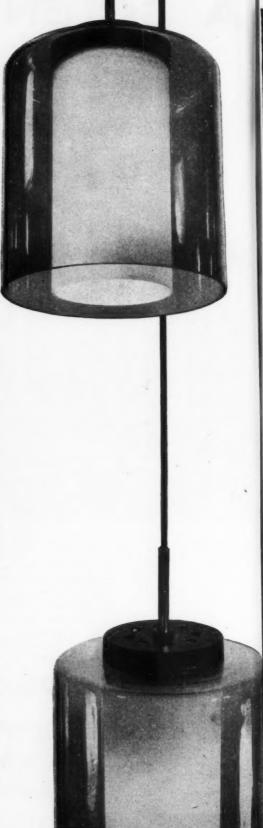


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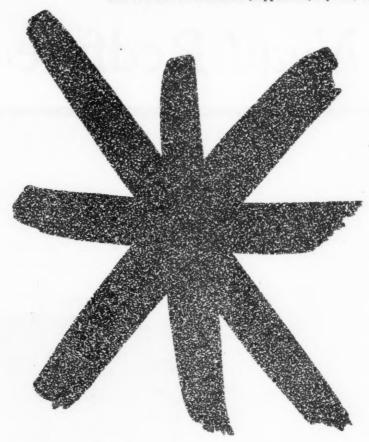
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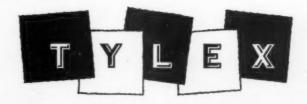
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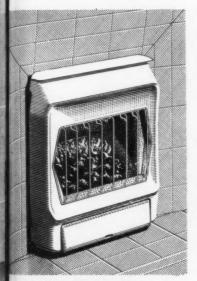
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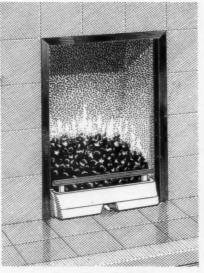
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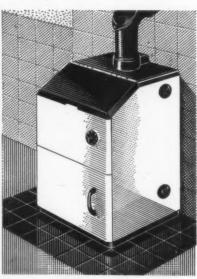
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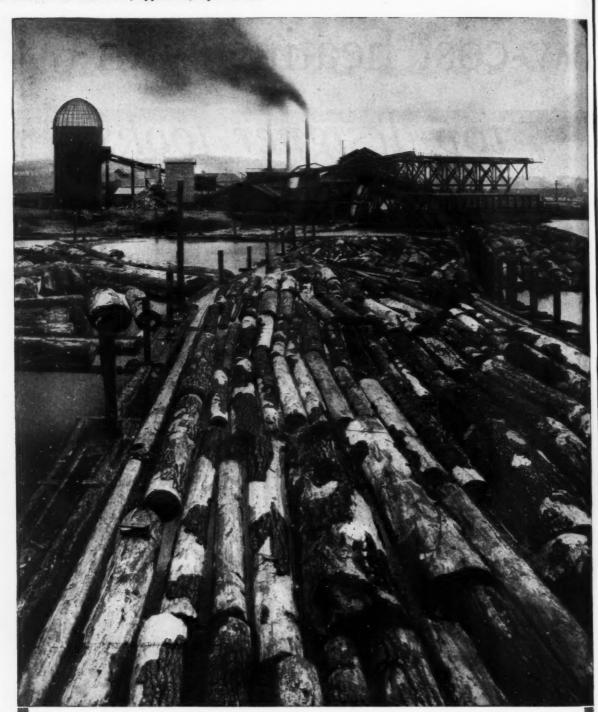
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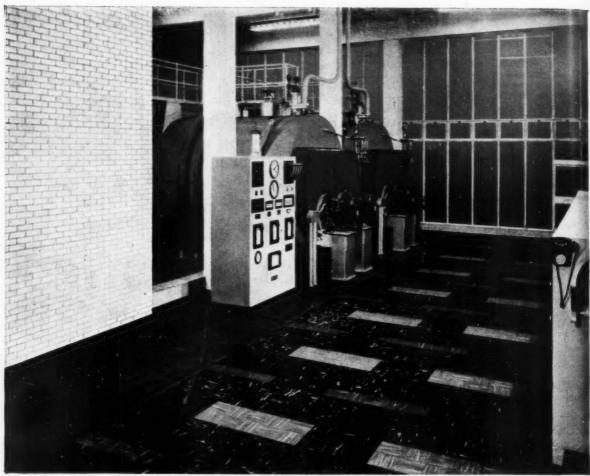
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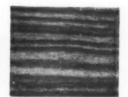


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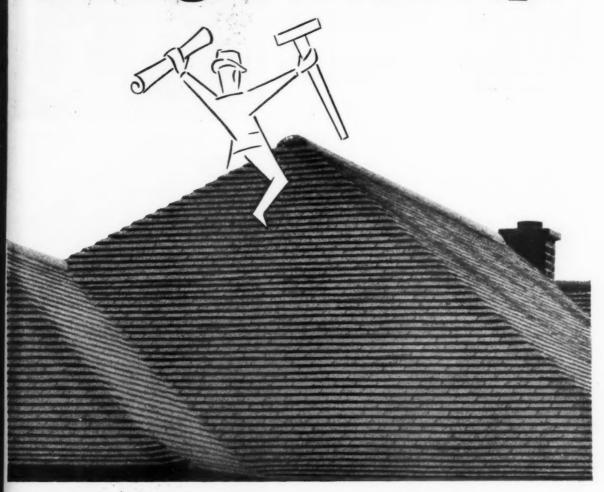
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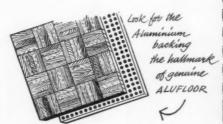
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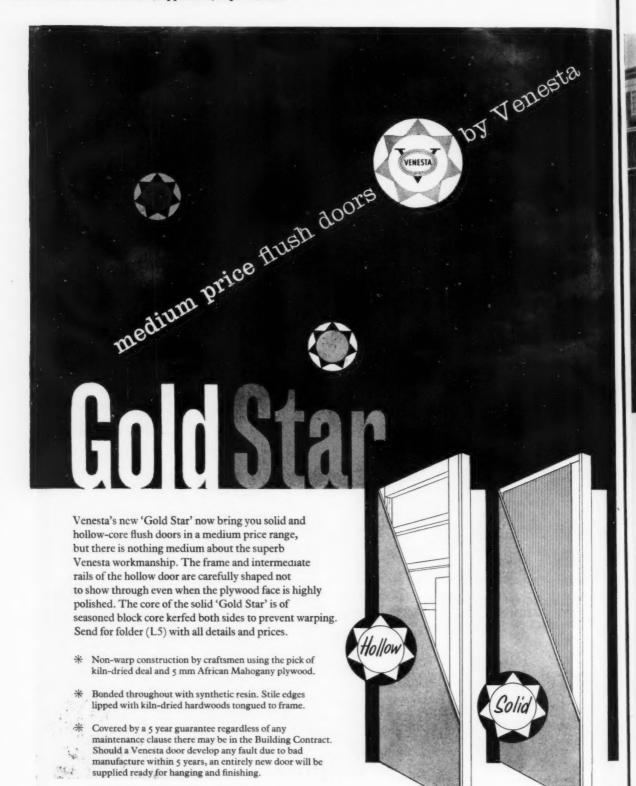


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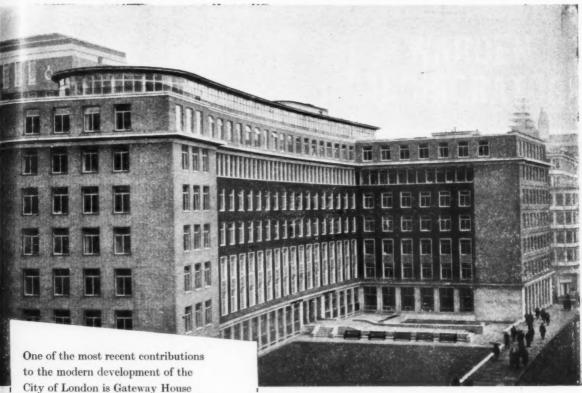
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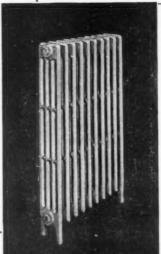


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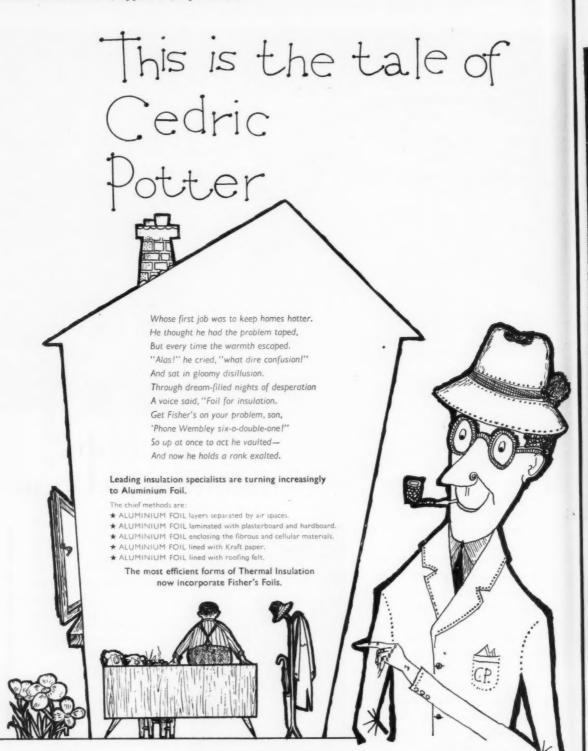
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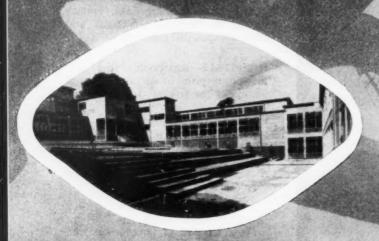
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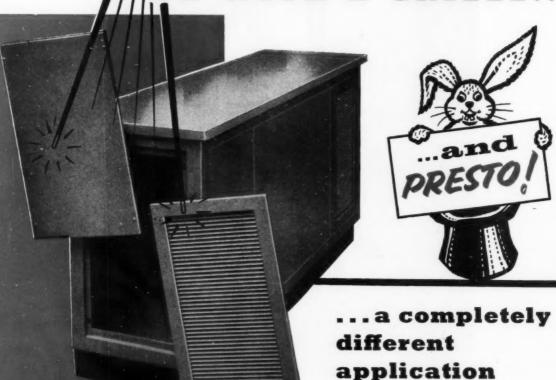
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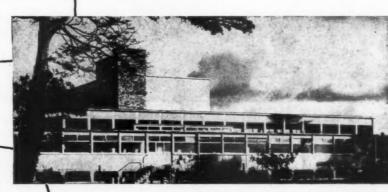
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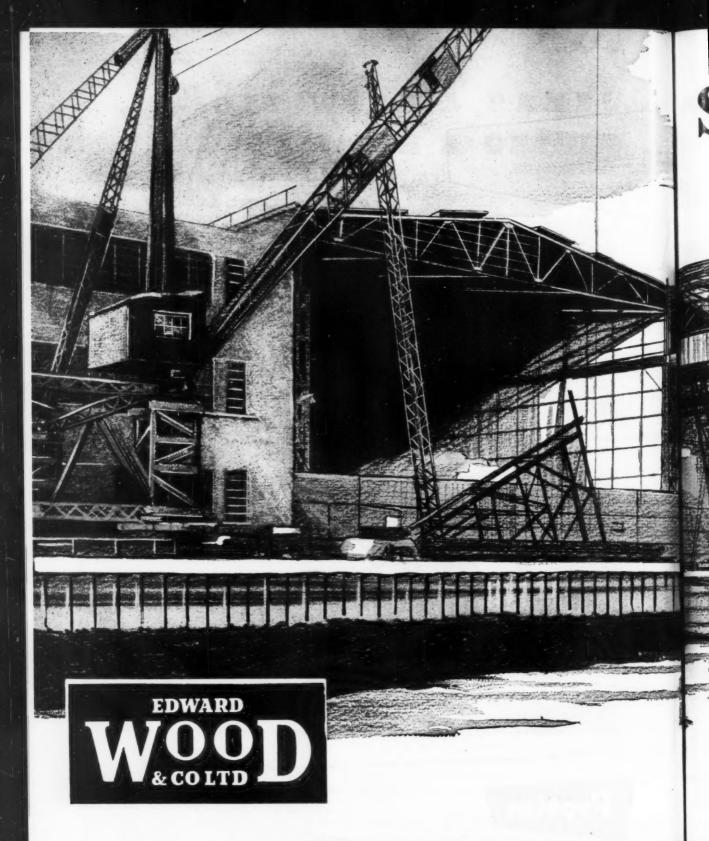
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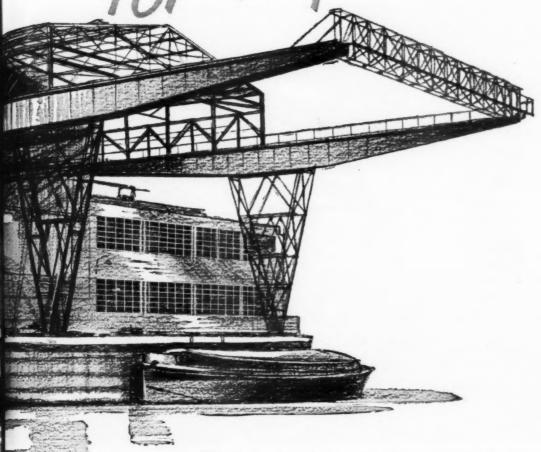
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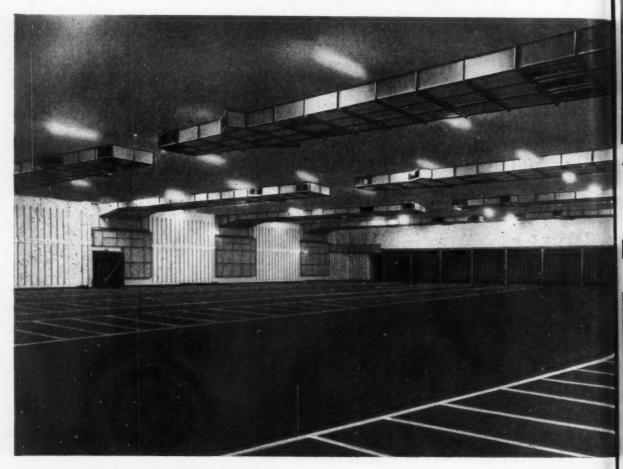
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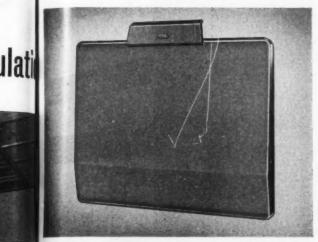
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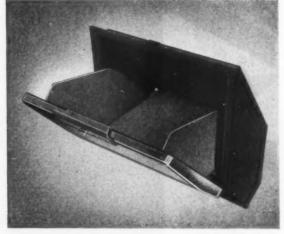
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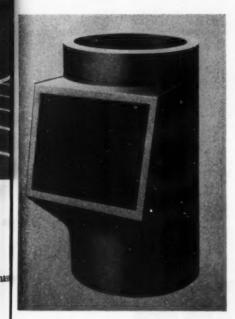
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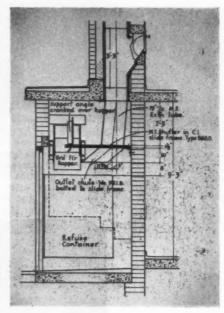


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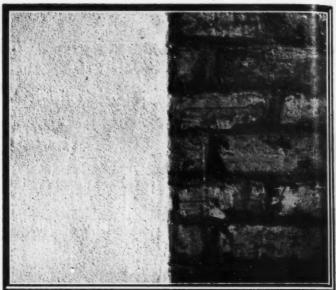
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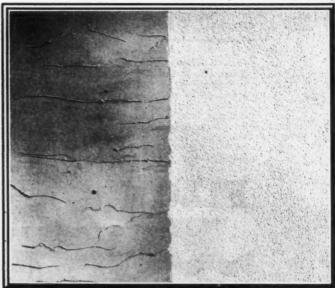




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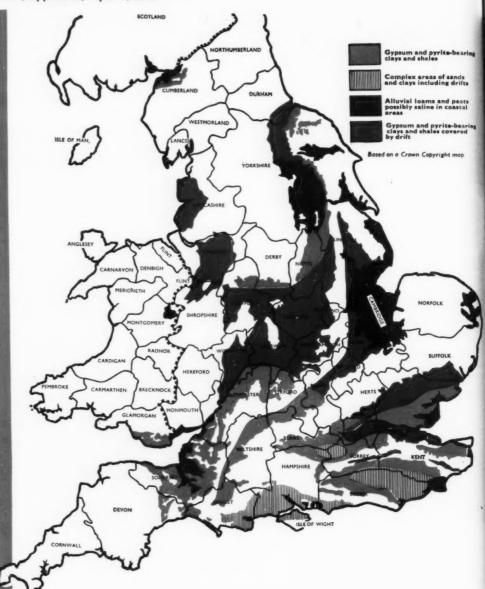


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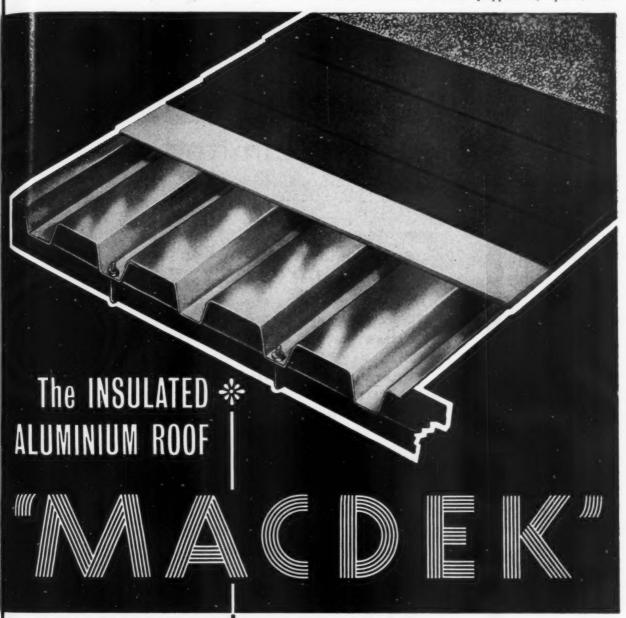
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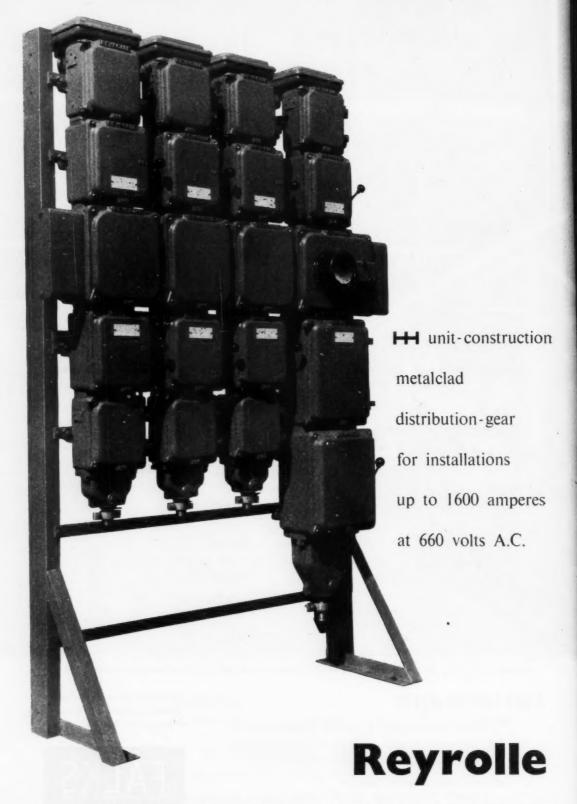
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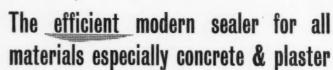
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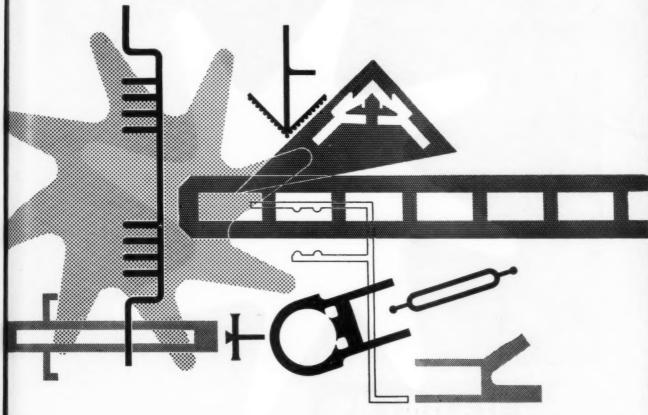
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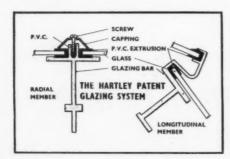
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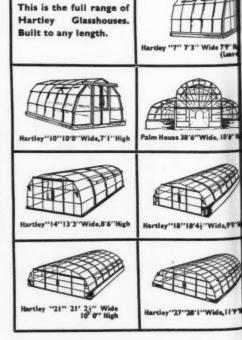


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Loadbearing insulating building blocks

members.

Load Bearing: Inner Leaf.

Here 4" Thermalite blocks are shown carrying the first floor joists. The inner leaf above the joists is continued in 3" Thermalite.

Load Bearing: Front Face.

This 6" Thermalite solid wall provides simple direct fixing without battens. The wall when tilehung will have a 'U' value of .16 B.T.U.'s. The end wall shown is in cavity construction using 3" Thermalite inner and 41" brick outer leaf with wall-ties spaced at 18" centres horizontally and vertically.

ment and the direct, positive fixing of joinery, plumbing and etc. are greatly simplified. Thermalite will

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This internal view shows the

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The Case for the Local Brick

IT HAS BEEN STATED that our island is built on coal. It may with greater truth be said to be built on clay or brick earth, for brickworks are far more evenly distributed geographically than are coal mines. Some of them follow the "coal measures" up and down the country, but many others are located either on the main clay beds which cross the country or on isolated pockets of clay or other materials which are highly suitable for brick making.

Apart from a few large producers, most of the works are small or medium-sized, and for centuries many of them have largely sustained building operations in their respective areas. They are a great convenience to the builder, enabling him to pick up small loads at any time and to arrange deliveries in accordance with site requirements.

The local brickworks is an asset to its locality. The bricks produced are of varied kinds, which both reflect and mould the character of the region's buildings. In normal times, the works provide steady and healthy employment, and contribute on a substantial scale to the local rates.

The spectacular rise in brick production, which enabled the country to carry out its vast building programme during the last decade, was only made possible by the ready co-operation of hundreds of these small and medium-sized producers. New brickworks were built, and the capacity of old works increased, both at the cost of considerable capital. The whole approach to post-war building development has been imaginative and energetic, and the smaller manufacturers of the country may rightly feel that they have played an important part in the development programme.

The present curtailment of building is producing serious repercussions on the smaller works. Large stocks of bricks are accumulating and if, as appears likely, the slackening in demand continues, its impact on the less well-endowed units of an industry geared to a high level of demand will be very serious indeed.

Competition for the reduced volume of business has become intense, and local manufacturers are vying with producers outside their area. It is widely asserted that competition is good for trade, but it is a question whether, in the ultimate interest of the building industry and the community, some preference should not be given to the local producer. A healthy industry contributing to local prosperity is only possible if regional demand is addressed to regional supply, and a healthy local brick industry is essential to the building industry.

Any large-scale closing of brickworks at the present time would not only seriously curtail future supplies; it might well place the building industry in a difficult position both as to supply and prices of bricks when the present building restrictions are removed.

(Reprinted from 'The Brick Bulletin')



MCHITECTS' JOURNAL ement) April 7, 1960



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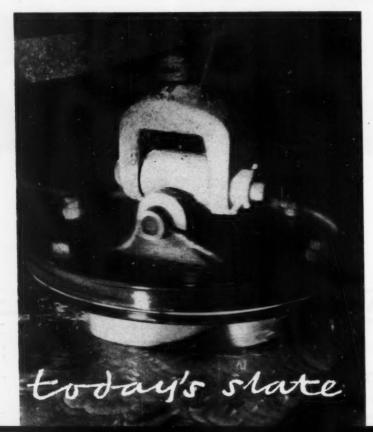
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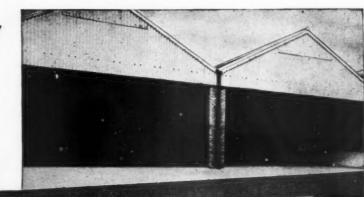
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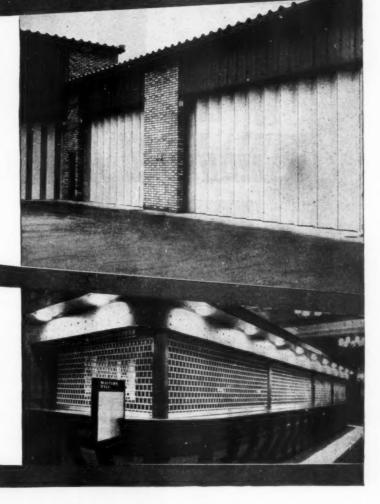
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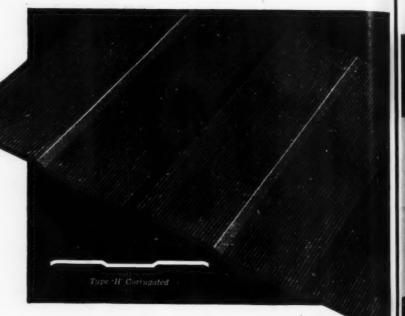
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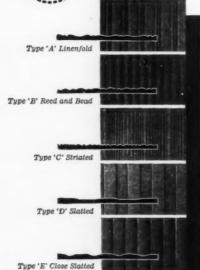
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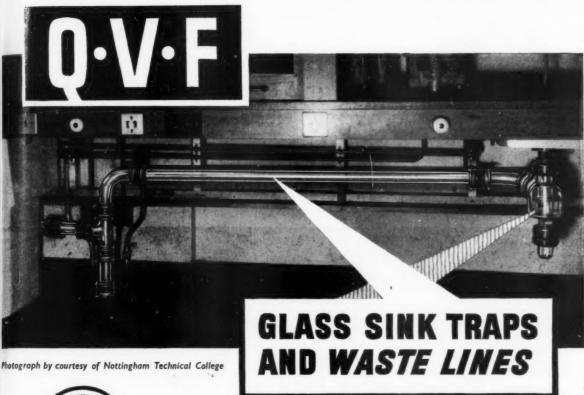
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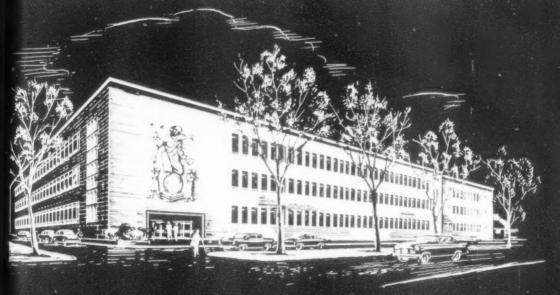
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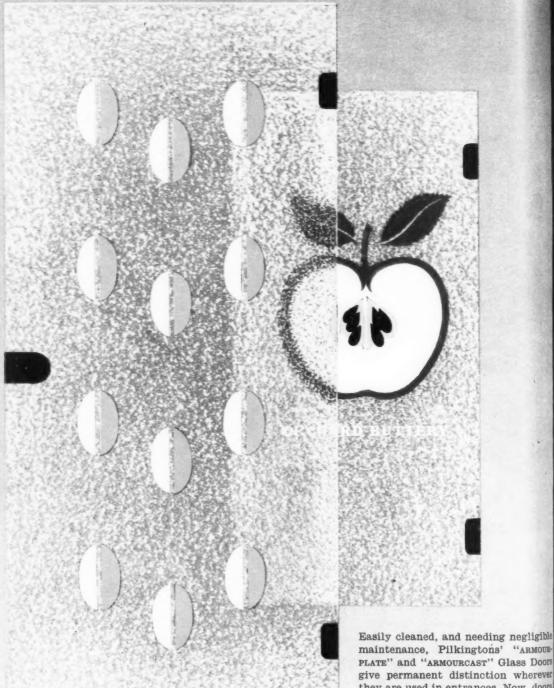
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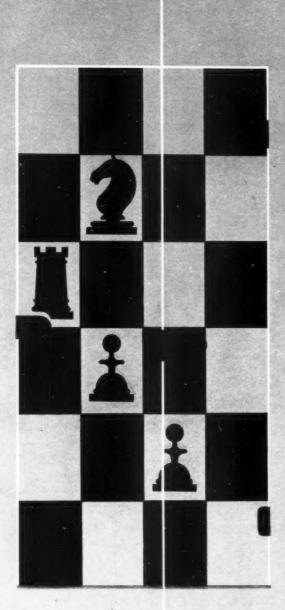
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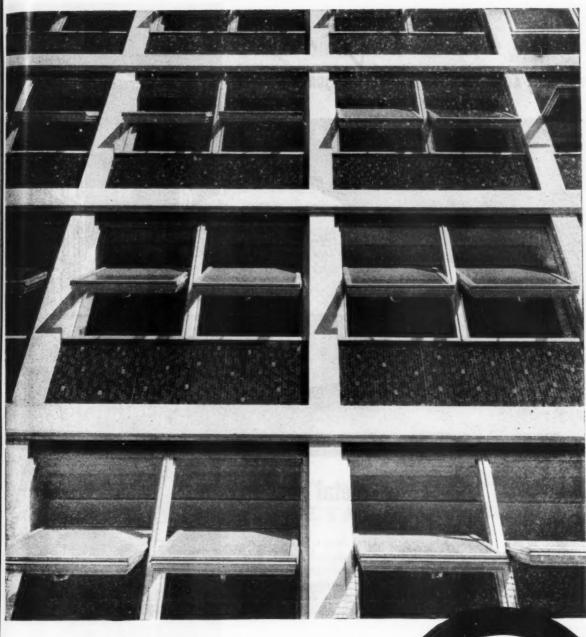
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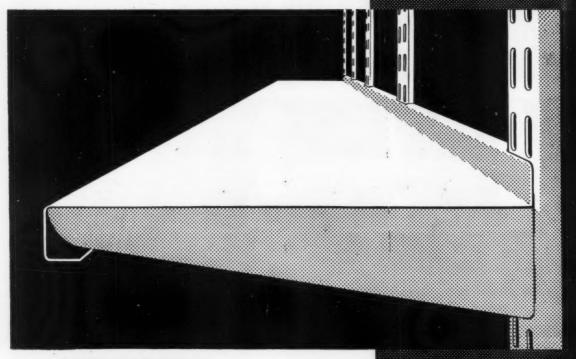
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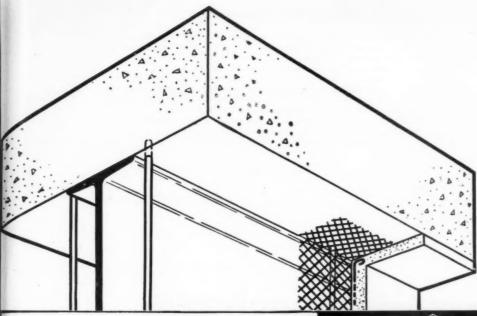
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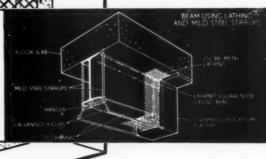
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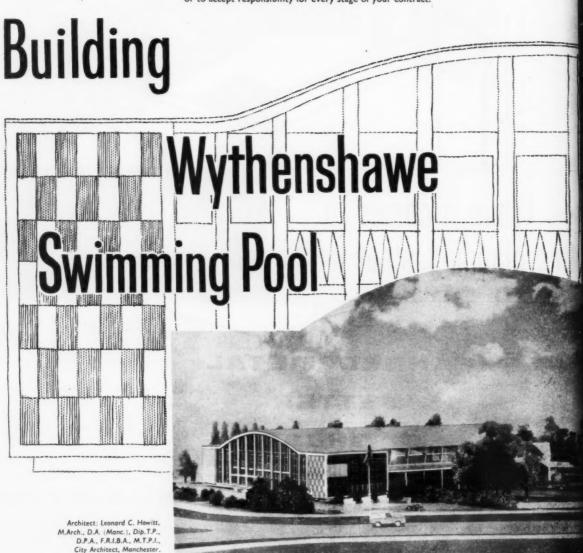
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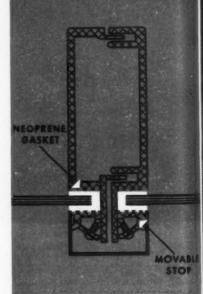
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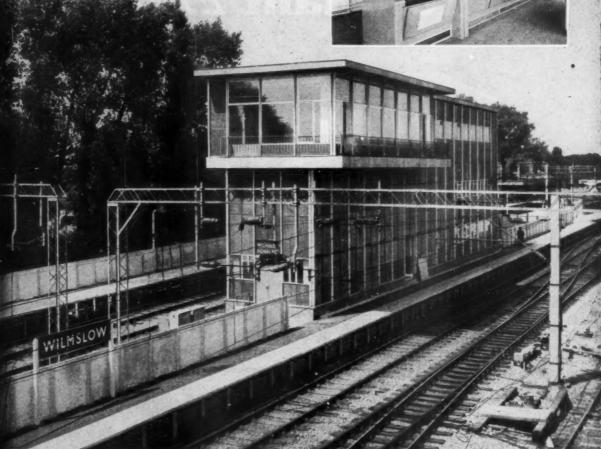
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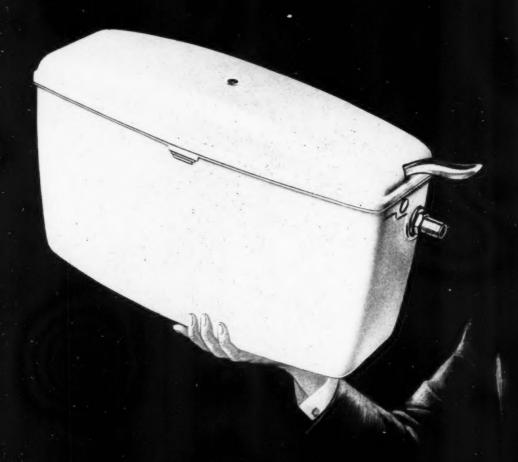
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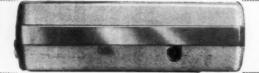
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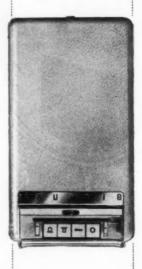
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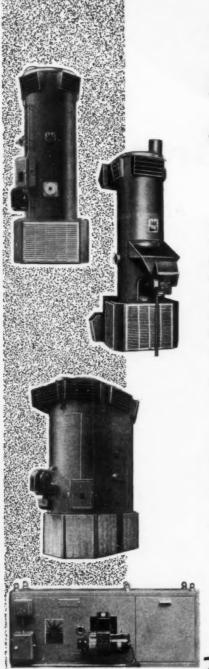


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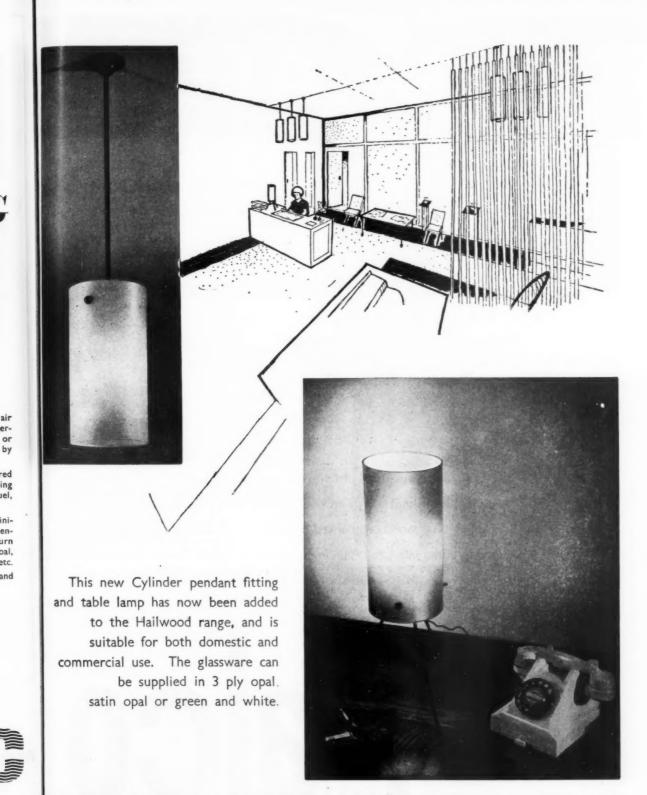
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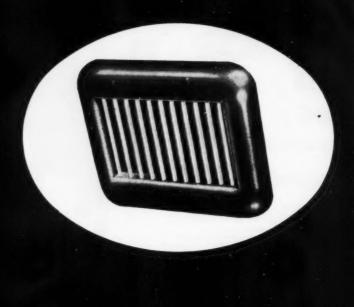
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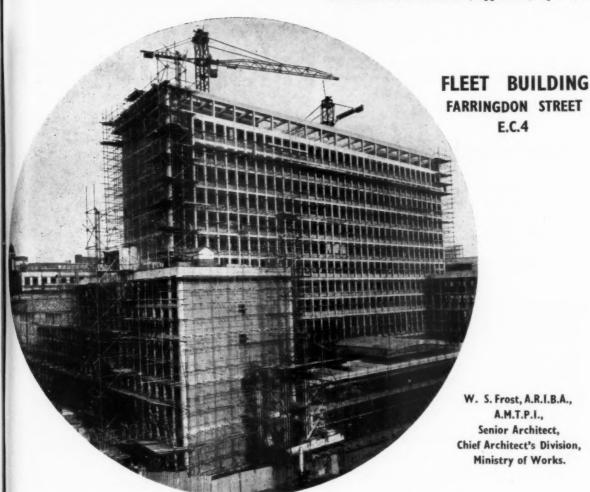
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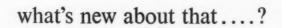
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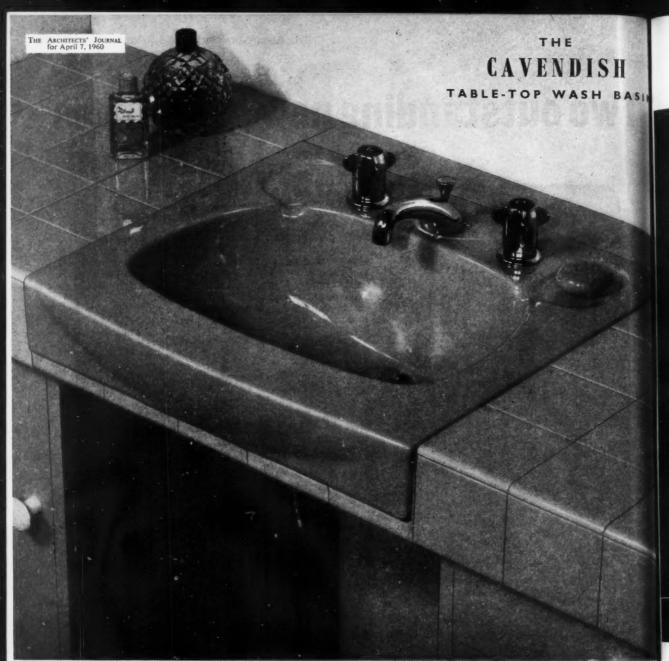
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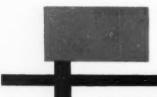
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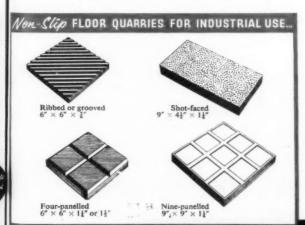
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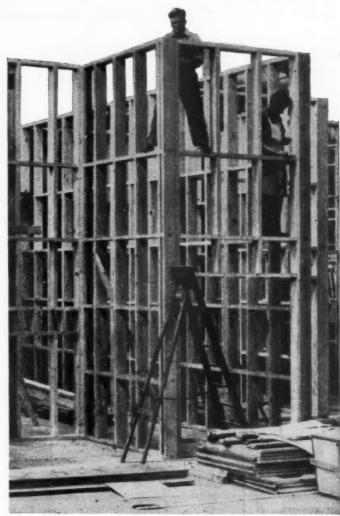
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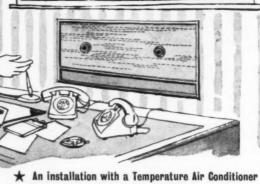
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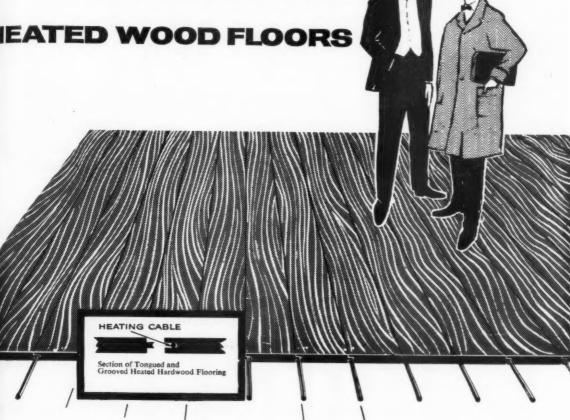


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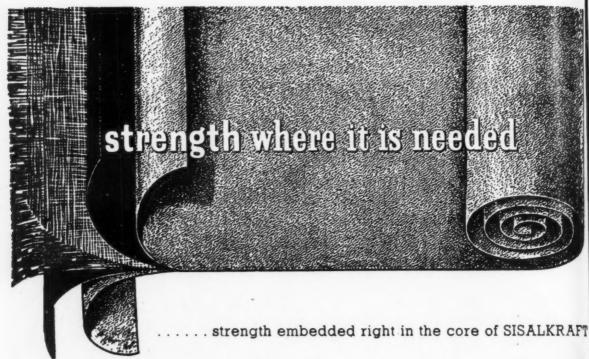


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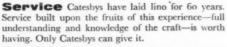
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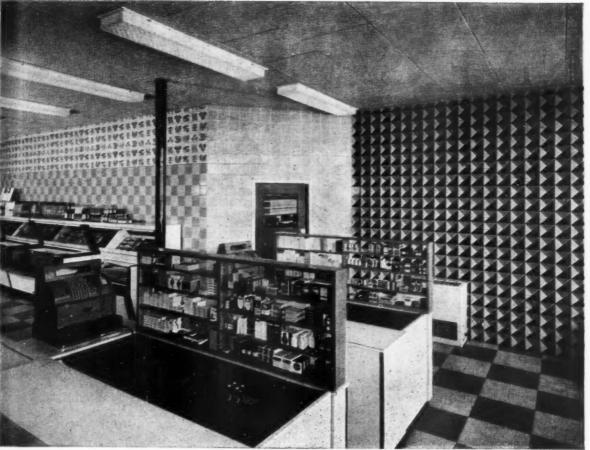
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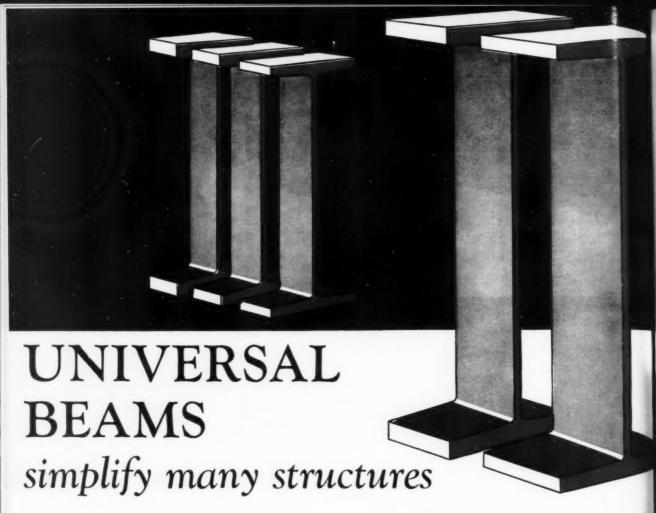








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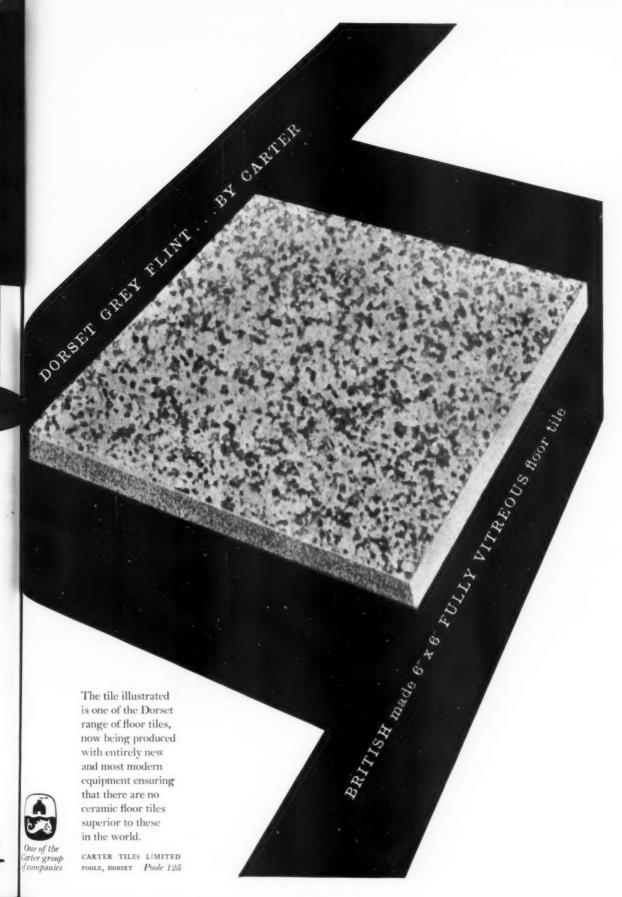


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The Architects' Journal

No. 3390. Vol. 131. April 7, 1960

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NOT QUITE ARCHITECTURE

The Sixties, they tell us, will be an age of enthusiasm. NQA hopes to do its best by the spirit of the times by publishing spasmodic gushers of enthusiasm about things people like, and thus embarrass everyone no end.

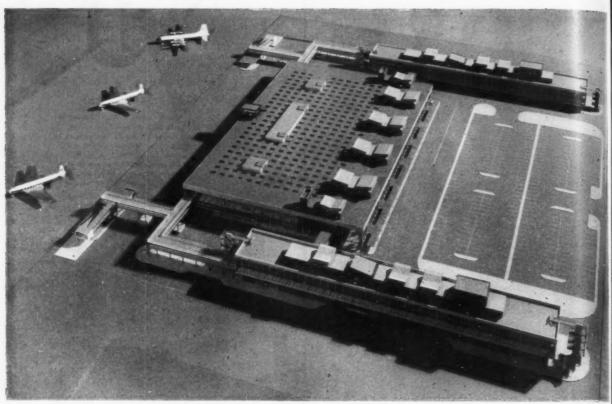
I'd Crawl a mile for... Playboy

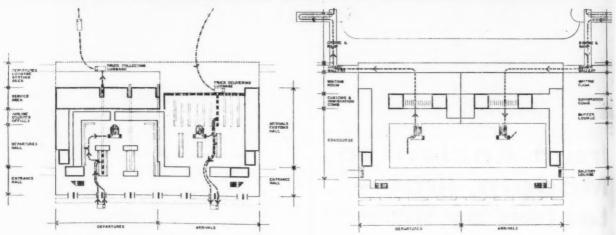
Of course I buy it for the giant fold-out full-colour pin ups—Playboy's "Playmates" are one of America's greatest gifts to Western culture, and you know how I go for culture. And a very distinguished body of women they are too—one I particularly remember, who added new dimensions to the vernacular term "Broad" was a Fuller from Boston, like R. Buckminster ditto—obviously a most talented family.

But if I was a working hypocrite I could find a dozen other reasons for keeping abreast of Playboy. Its interpretation of the "male interest field" is considerably wider than say Esquire's: while it keeps one foot firmly planted in the bedroom door—a stance that Esky has now abandoned—the other covers a lot of ground. For instance, Playboy handles some really hard stuff—quite a lot of Pentagon ears must still be humming after a Hit-them-where-they-live piece about radio-active fall-out and another must have hurt Washington dead-heads even with its title: "The Cult of the Aged Leader."

Item: it makes foul swipes at up-coming public idols; and recently took to pieces the much publicized reputation of Miss Shirley McLaine for repartee, with both scholarship and refreshingly ungentlemanly mockery. In fact its performance on the wit and scholarship kick is notable. Nice pieces they have on, e.g. writing on walls, including the Pompian founders of the art, the original Kilroy (the American Chad) and an interview with a slogan-writer of world championship class.

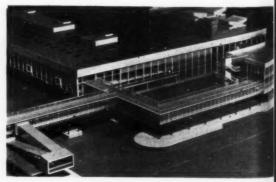
Item, visual funnies—Playboy is one of the basic platforms for Feiffer, but it has other strong cards, including Gahan Wilson, a real weirdie who deserves to be better known in sick circles over here, and Shel Silverstein who is, I figure, a plain nut with a fancy beard.





The new "Long Haul" building at London Airport, designed by Frederick Gibberd, marks time architecturally and functionally, for it has been designed at a time when the Ministry of Civil Aviation has been unable to make up its mind on the best way to move passengers from the terminal to the aircraft. Gatwick introduced the "finger plan," and the Ministry is studying other possible solutions, including the "mobile lounge" from which passengers can step right into the aircraft. The building is designed so that whichever solution is ultimately adopted can be incorporated. Passengers are assumed, however, to have legs. There will be no escalators to take them to the first floor lounges, and on arrival passengers may have to carry their bags 50 yards or so from customs to the exits. The main block is 430 ft. by 260 ft. Building has begun, and will be completed by mid-1962. It is designed to handle 2½ million passengers a year (there were 720,000 in 1958) and to replace the clutter of huts on the Bath Road. The main block has a steel frame and is enclosed by glass panels between aluminium vertical members. The cost will be about £3 million.

Marking Time at London Airport



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item, to read: though too much of Playboy's fiction is the male equivalent of 'women's reading" and wears the lineaments of slightly-too-easily-gratified desire, violence, etc.; there is also a distinctive line of Playhoy fiction, and near-fact, planted in the music-biz end of the beat generation (Playboy has its own jazz festival) and the Sheckley edge of science fiction.

liem, to look at: Playboy's typography and ayout is among the most ruthless and maginative that is commercially available, comparable British material just doesn't exist, but Bill Slack's cover for the Motropolis AJ lay a close second.

hem, architecture and interior design. (I will repeat that to show I am not kidding-archiecture and interior design.) Playboy has over the years discussed and illustrated quite a lot of furniture, culminating in a Mayboy Bed (where else did you expect it w culminate?) that makes most European tream beds look very thin and faint. It has also shown plans and perspectives (some perspectives!) of two projected buildingsthe Playboy Penthouse and Playboy's Weekand Hideaway, neither of them by any designers you have ever heard of, but none he worse for that, and considerably better than any equivalent projects that one can remember in the Home and Garden magames. Quite a lot of furnishing information is also transmitted (a) via features on Hi-fi and (b) in the backgrounds to the giant fullcolour fold-out pin-ups, one of whom was photographed recently in the Guggenheim



But chiefly what sends this consumer of Playboy is an institutional advertisement which begins "What sort of man reads Mayboy . . . ?" From this I have discovered quite a lot of very flattering information about myself. For instance I am one of hose "for whom a dinner date is a regular and important event," with a "beautiful girl "-Furthermore 1 don't care about the size of the bill—this is because I "enjoy an income higher than other man's magazine readers," or possibly because I "live in 168 important metropolitan areas." But best of all, and for this I am forever grateful to Playboy, my age has remained steady for some months now at 28.3 years.

REVNER BANHAM

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* To preserve freedom of criticism these editors, as leaders in their respective fields, remain anonymous.

The Editors

A SCANDALOUS PROCEDURE

THE extraordinary way in which the Inverness Town Council has handled the "competition by tender" for the development of a key site adjoining the river and the Castle hill shows how urgent it is for the RIBA to announce its policy on this kind of competition for the guidance both of local authorities and of its own members. What has happened in Inverness is, indeed, scarcely credible. Town Council did not consult its own planning committee, its planning officer, its architect, or its planning consultant before inviting developers to submit schemes and tenders, thus ensuring that proper consideration was given to none of the town planning and architectural problems involved.

Last week the competition was closed, and the Council met to decide how to pick the winner. The public and the press were excluded, on the plea that the subject (the development of publicly owned property) was "private"! The councillors have apparently decided to set about the job of picking the finalists themselves, without technical advice, and have allowed themselves a fortnight to study the models and the drawings. Having picked the finalists they then intend to invite their planning consultant to help them pick the winner. The public are not being allowed to see the designs.

This procedure, against which the Inverness Architectural Association, the Chamber of Commerce, and private citizens have protested in vain, is so outrageous as to call for intervention from two quarters. It raises the question whether the RIBA can permit any of its members to participate in a scandalous process which is so inimical to good planning and architecture, and to the interests of the people of Inverness. And the Secretary of State for Scotland will surely have to consider whether the local authority has shown itself unfit to exercise its town planning powers, leaving him with no alternative but to call in the planning application that will ultimately have to be made.

MAYFIELD REVISITED

The intention of the series of Building Illustrated articles has been to try to give as complete a picture of a new building as possible under the broad headings of planning aims and achievements, cost and specification and visual and physical quality. The buildings described have been of many types and have been chosen for a variety of reasons, some because they represented good value for money, some because they pioneered a new system or structure, some because they served a new function or contained an exciting answer to a difficult planning problem, or simply because they have been considered beautiful. In the early days some buildings were illustrated simply because their costs were available, at a time when a cost analysis was harder to obtain than it is today. A few of the buildings published have been successful and interesting from many aspects and in achieving this harmony of parts have been recognised as significant architecture.

We believe it is not enough in such a series, to concentrate upon current buildings. On the contrary, to revisit notable buildings which have been in use for a number of years can result in valuable lessons in planning and design generally as well as in discovering the success or failure of detailing. week, therefore, we publish the first of what will be a series of Buildings Revisited, making our first re-appraisal of one of London's earliest and still outstanding comprehensive schools, Mayfield in Putney, by Powell and Moya.



WHO CARES?

I'm not allowed to reveal just yet the RIBA's plans for interesting the public in architecture during and after Architecture Week (June 13). But I'm feeling more worried at the moment about how they can find a way of interesting architects in architecture. It is really appalling that the profession takes so little interest in discussions, at No. 66, on its own future. Hundreds roll up to hear Doxiadis doing a restatement of what we all know, but recent papers presented at the Institute by William Allen (on the profession), Frederick Gibberd (on motorways) and Peter Trench (on the building industry) have attracted very few architects. And even those who did turn up didn't have much to contribute. We really can't complain about the general indifference shown towards our profession if we are equally indifferent ourselves.

MAKE NO MYSTIQUE

It was particularly disturbing to find such a small audience turning out for the cost planning evening at the Institute last week. I was also disturbed by the answer given by Grenfell Baines and James Nisbet on this occasion to my question about the teaching of cost planning in schools of architecture. They said that the subject has not yet been "sufficiently perfected" for use in schools. But why wait for perfection? It is ridiculous that students leave school without having received a working knowledge of the subject. If, as Nisbet said, there are bills of quantities which architects can analyse, why can't the schools study them?

Has this something to do with what Geoffrey Powell described as "the architect's real fear "-the fear that if costs cease to be part of a design mystique everyone will know when the architect is "having fun" (as Grenfell Baines called it) at the client's expense.

WINDY ON TOP

Sometimes the cost man and the planner reach the same decisions for their own very different reasons. It was interesting to hear Graeme Shankland (LCC planner) and Cyril Sweett (surveyor) saying, in Network Three's "Building Matters," that comprehensive development was essential on large sites where tall buildings were proposed -the first for reasons of planning technique, the second for reasons of economy. "Very windy up there" said Basil Spence, speaking for all of us; and John O'Neill helped us to feel less windy by talking about problems encountered on the Shell building on the South Bank, such as how to pump concrete up 350 feet and to prevent contractors' equipment from blowing away.

This discussion on high building was the last programme in the present series of "Building Matters"-a series that has been well handled by Charles Crichton. I look forward to the second series, which begins in the autumn, but I hope the existence of a platform for architectural and building subjects won't mean that the BBC will give less attention to these subjects on other wavelengths. I'm afraid the audience for the Network Three series is restricted very much to people in the business.

HIGHER PURCHASE

If you're designing a retreat for a mountain top, a casino for a midstream island or something equally deal w improbable, you'll be glad to know that helicopters will soon be available on hire for two or three hundred pounds a day. The county architect of Somerset, Oliver Harris, has already seen purlins lifted into place (within a one inch tolerance) on one of his schools, where the contractors (Hoskings) worked with Concrete Ltd. and Westland Helicopters. There are still a few snags to be overcome, but by the end of the year you should be able to hire a machine capable of two-ton lifts-and later on you will probably get a 25-ton lifter. On sites where mud or flooding prevent access with cranes and lorries the hire of a helicopter will be money well spent.

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There are two new threats to the Solent: one is sewage pollution, the other horizon pollution—the building of a nuclear power station on the north shore of the Isle of Wight, where it would dominate the finest stretch of unspoiled and protected water on the south coast, from the Needles to The Central Electricity Cowes.* Board is keeping quiet about the second proposal, so we don't know if other sites are being considered (nowhere could be worse). In the circumstances it is difficult for protection societies to be constructive. But at

least they are active.

Condemnations have come from the RFAC, the National Parks Commission and the CPRE. And now the Solent Protection Society (recently victorious in securing an indefinite postponement of the Caltex Refinery scheme) has devoted its AGM to hearing three speakers (architects Lord Mottistone and Sir Hugh Casson, and Ewen Montagu, QC) describing new threats. After hearing a number of suggestions-including the selling of municipal compost and the flying of SOS (Save Our Solent) pennants by boat owners-the meeting backed the Society's pledge to fight to the last penny. If you want to make sure the last penny isn't spent too soon remember that the address of the Secrein the tary is 15, Cumberland Place, Southampton.

CURTAIN RAISER

As you may know, the RIBA's annual conference in Manchester in June will deal with the subject of city reconstruction. I must congratulate Manchester's ailable Professor of Building, Denis Harper, undred for getting something of a scoop as a chitect local curtain-raiser to the conference. He has asked Rudolf Hillebrecht, Hanover's city architect and town planner, to speak at a symposium at the College of Building and Technology on May 18. And to show how much better a job Hillebrecht has done than most other German planners, Mr. Harper has arranged for a Hanover exhibition to be shown at the college from May 17 to 24.

> This seems a good place to remind you that Otto Koenigsberger has ar-

'Sec Architectural Review, September, 1958.

ranged a study day on urbanization in the tropics at the London School of Economics on April 30. It is one of the series organized by the British Group of the International Centre for Regional Planning and Development.

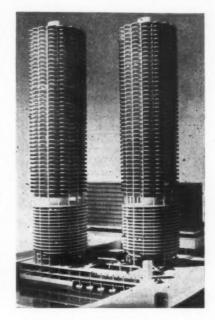
DRASTIC ULSTER

I've met a few of Ulster's architects and I must say I've been surprised that they have been so quiet about some of the dreary buildings put up around them. At last, however, a design has set off an explosive reaction from this taciturn race. A little corrugated tin hut used for bus control at Belfast's Castle Junction is to be replaced by a more permanent and much more pretentious structure of ceramic tiled walls and canopied roof, designed by the architect's section of the City Surveyor's Department.

One day recently, about 30 young architects gathered around the site and distributed leaflets to passers-by, protesting against the structure because it is dangerously sited and has little architectural merit. A black banner was hoisted bearing the one word "outrage" and shortly afterwards, watched by two policemen and a Belfast Telegraph reporter, the protest meeting adjourned. "The protest was quite orderly," said the Telegraph, rather sadly. Never mind. This is a welcome sign that the profession in Ulsterwhere there are no architectural students to fight complacency-is becoming aware of the need to make its views public.

FOR TOURISTS AND STUDENTS

Architects who venerate Rasmussen for his unsurpassed work on London the Unique City will probably be his by latest volume Experiencing Architecture.* written in an exasperating nursery style, and it ignores the vital cords (if that's the word I want) which tie architecture to practical affairs. It is, however, addressed not to architects, but to laymen; and as such it is to be welcomed as one of the most comprehensive and balanced introductions to architecture yet available. As far as I know it is the first book of its kind to give acoustics, lighting and colour their due as essential ingredients of architecture-and indeed these chap-

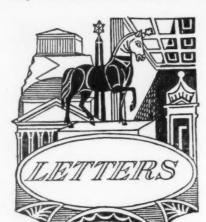


"Corn on the Cob" would be a suitably irreverent name for what will be Chicago's tallest building—" Marina City," designed by Bertrand Goldberg and financed by the American trade union of building employees as a speculative investment costing more than £12 million. The twin towers contain garages in the first 18 storeys (can one drive 18 times round without becoming dizzy, or at any rate bored?), flats from the 20th to 60th storeys, and a theatre in between. The low block contains offices.

ters (while contributing little original thought) contain much that will interest architects themselves. In a book for the layman it is a pity so little is said about the everyday environmentwhich is, after all, the architecture laymen most often experience, and are usually unaware of. But many of the famous buildings mentioned are within the orbit of the tourist, who will find the book useful. Recommended both to first year students and to bishops attending Allied Society banquets.

SO YOU SEE

A correspondent whose letter was published last week thought that the appointment of Fred Pooley, the Buckinghamshire County Architect, as the Planning Officer was a bad thing. Now another correspondent has written to remind me that in Radnor, Montgomery and Anglesey the County Architect is also the planning officer. The system, says my correspondent, works very well.



Derek H. Matthews, A.R.I.B.A.

R. J. A. Gazzard, A.R.I.B.A.

Ian Nairn

A. E. Ward,

Secretary, The Institute of Registered Architects.

Garages: Ramped or Mechanized?

SIR: You mention (AJ, March 24) that "informed opinion suggests that the ramped garage is likely to be the rule in this country and the mechanized garage the exception.' I believe that the "informed opinion" quoted is probably misinformed on the facts of mechanical parking, and that your exception will become the rule. Many municipal authorities are at present attempting to solve the "parking problem" by providing centralized car parks holding on an average 600 cars, and some are projected at 1,000, and over. These monsters will not help the motorist wishing to get to some part of the town distant from the car park, and the high capacity may cause congestion in surrounding streets. The 2,400 car garage on the edge of Venice is an exception, as it is in the nature if a terminus for wheeled traffic, before one enters the city.

Our towns need a series of small parking units, holding about 100 to 150 cars, and scattered throughout the area, providing also the necessary services of lubrication and cleaning, within easy reach of each motorist's destination. I have such a project about to receive planning consent, for an original Pigeon-Hole car park for 100 cars, with petrol sales, car servicing and repair, all on a street site 40 ft. wide by 48 ft. deep, between other buildings. Only a mechanical car park can achieve this density, and no ramp garage could be built on such a site. The disadvantages of ramp garages are almost too numerous to list in this letter. They are extremely wasteful of space, re-

quiring the width of a car with its doors open, and ample circulating space. The space per car is 50 per cent more than with a mechanical park, and the cost of land and the construction cost per car is consequently far greater. Additional costs arise from the necessity for illuminating all parking floors and ramps, unnecessary with a mechanical system, and open-side ramp garages must have underfloor heating on ramps to prevent icing. Closed sided ramp garages need mechanical ventilation and the fire risk is higher, with the need for more expensive fire-precautions. There is a greater cost of maintenance, for the continuous circulation of vehicles moving under their own power inside the structure causes damage to walls, floors, ramps, and paintwork.

Less height is possible with a ramp garage for two reasons: there is a limit to the number of ramps that can be driven up without fatigue and accidents, as well as "customer resistance," and secondly the storey height has to be very much greater than with a mechanical system which is designed for the height of a car and not of a man. This is an important factor where town planning regulations limit height. With a ramp garage, cars are susceptible to denting, scratching, and theft. With Pigeon-Hole parking, the owner leaves his car locked, and with the brake on.

A further advantage of the space-saving technique of mechanical parking is in that, it is possible either to park more cars on a given site, or alternatively free part of the site for other revenue producing activities or uses, which can go towards a subsidy for the parking fee. A mechanical system can pack into the basement of a block of flats or offices a greater capacity than with conventional means.

DEREK H. MATTHEWS

Amersham

The Editors reply:

The costing of ramped and mechanical garages is still a very inexact science, and the costs per car place quoted in the catalogue of the British Road Federation's exhibition vary wildly. The cost per place, excluding land, of the Selfridges ramp garage is given as £1,000, and the cost of Mr. Matthews' mechanical Pigeon-hole garage is given as £450. On the other hand, the lowest figures quoted for ramp garages are £150, £200 and £215 a place, but the lowest figure quoted for a mechanical garage is £400, or approximately double. On these figures, which all exclude land, it seems that the mechanical garage is only cheaper where the saving in land outweighs the saving in constructional costs. It may be that on a balance of economy, taking into account the other factors mentioned by Mr. Matthews, that the sponsors of mechanical garages can prove them to be cheaper even on cheap land. But they have not done so yet.

Drive-in Banks

SIR: The "nasty and senseless" building you illustrated on March 24. 1960, is, in fact,

only an extension of the counter in the main banking hall and Head Office of the bank (a former royal residence) on the Place Royale. It occupies most of one side of a short one-way street with a wider footpath for pedestrians on the other side. The building is in an inconspicuous position away from the main road.

A centralized book-keeping system provides the Banque de Bruxelles with a catchment area of customers covering the whole city which justifies the cost of a building equipped with "closed circuit" television and pneumatic cash distribution systems from the first floor control to the cashiers in the "pilotis" below.

With cars entering and leaving at the rate of two per minute, no other bank in Europe provides a similar service or makes the same contribution to traffic flow and the relief of kerbside waiting. By comparison, the British "drive-in" installations are little more than prestige advertising.

However, similar electronic accounting machines are now being installed in a British bank and arrangements for the payment of wages by one means or another are under consideration. Inevitably the space occupied in branch premises by ledger clerks' desks will have to be used to provide longer counters and larger waiting areas in order to "dispense" money on an unprecedented

Branch bank design now requires a "filling station" approach with waiting, parking and circulating spaces for the vehicles of the "legless" as well as for those who still have their "legs" but who also may not wish to see the Manager, their statement or their securities box on every visit.

If only for reasons of security and personal. safety, the problem of cash transference in bulk and by the pocketful must be tackled more sensibly than your criticism of this far from "senseless" building.

R. J. A. GAZZARD

Bromsgrove

Life with Doxiadis

SIR: I don't know whether Dr. Doxiadis designed the living areas shown in the illustrations to the report of his discourse. If he did, has he ever really put himself in the position of the man living in the n'th house of the m'th row of his West Baghdad?

We must design areas for people, in their variety and nonconformity and need for identification with a recognizable place. Dr. Doxiadis has his view of the Parthenon from his office. It is his moral duty to provide the equivalent for Ali in house a row m. Otherwise he is one more false prophet like the rest of them.

This is Pope's "something previous e'en to taste-'tis sense." Is it too much to ask from a profesion which thinks too much and lives too little?

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sir: The following letter regarding development of a number of sites has been sent to number of members by a public Property company. This gives two sets of terms, ther of which the architect is "at liberty choose." The terms are:

(a) 4½ per cent. of full RIBA scale and their conditions of payment and employ-

(b) A nett 6 per cent. of the contract price if and when a building is erected.

Payment of fees would be deferred and would be made on the issue of certificates at a nett rate of 6 per cent. of the contract prices, and this would be the limit of the company's liability on any job.

fa scheme is not proceeded with, becomes bortive or is abandoned, or if the site is old at any stage, no fees at all are payable, and this, says the company, is a risk the architect must take. If a site is sold the company would try to persuade the new wners to retain the architect, without disclosing the aforementioned terms, but the ompany itself would not then be liable for any fees if they fail to do so. In any event the architect will only be fully instructed by the company if they intend to complete development.

The council of the institute deprecate such a letter, and all that it implies in offering tempting work at cut fees. Members of the institute have been advised not to accept these terms, as to do so would be a contravention of the Code of Professional Conduct by working for fees less than those defined in the accepted scale of fees.

A. E. WARD

Secretary, Institute of Registered Architects The Editors write: This matter is under consideration by ARCUK.

Symposium on Helicopters. At the Regent Street Polytechnic, 309, Regent Street, W.1. APRIL 8-9

Concert—The Strolling Players Orchestra. World Refugee Year British Architects' Appeal. At Duke's Hall, Royal Academy of Music, Marylebone Road, N.W.1. Admisson by programme only, available from the RIBA, AA, and IRA. 7.30 p.m

APRIL 9

An Training in a Technological Age. Conetence arranged by the Association of fachers in Technical Institutions (London Division) at the Central School of Arts & Cafts, Southampton Row, W.C.1.

APRIL 9

The Public Places. Talk by Sir William Holford. TCPA Planning Forum, 28, King Street, W.C.2. 6.30 p.m. APRIL 11

to ask Collaboration Between the Horticulturist much and the Landscape Architect. Talk by H. Taylor and Dargan Bullivant at the ILA, Park Crescent, Portland Place, W.1. 6.15 p.m. APRIL 12



At the RIBA on Tuesday, March 29, a panel consisting of James Nisbet, G. Grenfell Baines, A. J. Harris, R. Ward, E. Goldfinger and G. Powell, presided over by R. Baden Hellard, were asked to give their views on the question "Are cost control and aesthetics incompatible." Astragal comments on p. 530.

RIBA

Aesthetics and Costs. Are they compatible?

It would be as pleasant as it would be astonishing if one could report a hard and fast conclusion on this question. The fact that this is not possible does not at all mean that the meeting was fruitless. In his introduction Mr. Hellard made it clear that the purpose of the meeting was to get this subject of Cost Control into some perspective after its five-year life as a controversial subject. The oceans of jargon that had grown up to confuse the subject had tended to cause a number of reactions. Cost Control was regarded as being "all right for the other chap but nothing to do with me," "just another new-fangled overhead," or encountered the lifemanship reactions: "been doing it for years, old boy" or "nothing to do with architecture."

For the panel Mr. R. Ward, an industrial consultant, speaking from forty years' experience, said that he felt architects failed to give most clients much confidence in the profession. This was not only his own view but, more frighteningly, the view of thirty major industrialists who had been asked to recommend an architect who had given complete satisfaction and had been found unwilling to do so. Mr. Ward thought it would be a good idea if architects devised some way of giving a client more help in preparing his brief. Perhaps some pamphlet could be drawn up which told clients what sort of information the architect wanted. Getting back to the question under dis-

cussion ("Are Cost Control and Æsthetics Incompatible?"), Geoffrey Powell said that it was with great reluctance that he felt his answer could not be "No." He readily admitted that cost control seemed perfectly logical and good but he could not escape the feeling catching in the back of his mind that it amounted to a sort of conspiracy somewhere which would result in cost control becoming another rod to be beaten over the architect's back. He had a sneaking suspicion that it was all a plot so that the quantity surveyors could suddenly present clients with an explanation of where the architect had gone wrong. He also felt that this was going to add to the mountain of paper work that already existed. Nevertheless he was grateful to the quantity surveyors and thankful that they existed here (unlike on the Continent). Erno Goldfinger was also very pleased to have the help of quantity surveyors but strayed a little off the point in describing what he felt what was meant by the word æsthetic without relating it to costs. He gave the impression, however, that it was an important subject. The engineer on the panel, A. J. Harris, insisted he did not know what æsthetics were. He suggested that "æsthetic" might be one of those portmanteau words, born of bureaucracy, "amenity," and meaning anything that people like but which falls outside the plan. He had a feeling that it might be a term used to describe "the prestige of conspicuous expenditure." Generally, however, he gave the impression that a tight budget tended to enhance design by enforcing simplicity.

James Nisbet, the chief quantity surveyor for the War Office, once again found it necessary for him to make it clear that cost control does not mean cost cutting and he thought that the non-acceptance of cost control and cost planning techniques was largely due to the fact that people were frightened of costs because they did not know how to handle them. The quantity surveyor's job was to help the architect with this and Mr. Nisbet answered Mr. Powell's criticisms by saying that to gain a client's confidence a sensible cost analysis was far more helpful than damaging.

George Grenfell Baines put his finger right on the spot by pointing out that if an architect's æsthetics were accident-prone he could catch a dose of cost control with fatal results. And further, that no-one who wants to practise architecture in today's society could ignore the economic factor. Mr. Baines could not see why cost control should be any more incompatible with æsthetics than the accurate calculation of bending moments. The trouble today was that although buildings were not falling down all over the place because of wrong structural design, the designs were falling down all over the place on the economic factor.

After the panel had finished their answers the subject was thrown open to general discussion and the first question came from Basil Spence, although he was not actually present. He asked whether the panel thought it more stimulating to design within a limited budget or whether they preferred to have carte blanche. Mr. Harris immediately apologized for his temerity but suggested that the question be re-phrased to ask whether it was found more stimulating to design to a tight budget or to a generous but limited budget. He himself had never seen a blank cheque and didn't believe anyone else present had either. His answer to this question, with which the majority of the panel seemed to agree, was that he found the best designs resulted when money was scarce.

Two questions from ASTRAGAL (why were bills of quantities not prepared in a way to make them easily translatable into cost analyses, and why were cost analysis techniques not taught in schools?) were answered by Mr. Nisbet, who replied that all these techniques were still in an experimental stage. The introduction of an elemental bill might be useful but in general it would be foolish to give up an old and well tested form before the new one had proved itself. Similarly, it was impossible to teach students techniques that the profession had not yet accepted, although it was of course desirable to make students realize that economic considerations were going to play a large part in their lives. An even more practical answer to this question was that there is at present nobody who could teach the subject.

TCPA

The Declining Areas

At its recent meeting in Caxton Hall, the Town & Country Planning Association turned its attention away from the new towns towards what now appears to be a more fundamental problem in British planning—what can be done to revive and if possible rehabilitate the older and less prosperous industrial areas. For some time now London, the south-east and the midlands have continued to expand rapidly, while the older and less attractive regions are suffering from progressive decline.

Efforts have been made both by the Ministry of Housing and Local Government and the Board of Trade to create new jobs in these areas and steer new industries into them from the over-developed centres, but they have not proved sufficient to achieve the major objective. Recent studies have demonstrated that the pull of London and the Midlands is very powerful and growing fast.

New methods to act against this draw are needed. The Government's Local Employment Bill is intended to provide new and more effective incentives for industry to go where it is most needed. But, in spite of its direct relevance to planning at all levels, national, regional and local, the Bill is not a planning measure. It is concerned primarily with the prevention and cure of unemployment. The aim of the conference was to see what part planning policies were playing or could play in furthering the objectives.

A number of significant points emerged from the papers, and discussions. So far as industrial location policy is concerned the classic principle "work to the workers" remains unchallenged. In spite of its difficult implications no practicable alternatives to it have yet been devised. The methods adopted to bring employment in—persuasions and incentive rather than direction—have been shown to be effective when forcefully applied. Ignorance, prejudice and inertia seem to be the chief barriers to movement rather than increased costs, although in this respect the balance of advantage lies as usual with the larger and more highly organized firm. On incentives, direct subsidies towards the cost of movement and construction appeared to be a more effective technique than artificially low rentals.

The role of the planning authority in stimulating industrial development seemed less well developed. A planning authority can act effectively through its development control policy and many authorities do this. But it can also work much more positively, by selecting suitable sites, providing for proper services to them and efficient layouts for the buildings that develop there. In "less favoured" areas this type of activity would be a powerful adjunct to the Local Employment Bill and needs to be encouraged.

It seems abundantly clear, however, that the provision of employment is not of itself sufficient to revitalize a declining area. Drabness, dullness, and the absence or poor quality of its facilities may contribute as much to the decay of a town as lack of opportunities for work. It was strongly emphasized that bad housing, poor schools, inadequate shopping facilities and amenities (all typical of the old industrial areas as a whole) are a powerful factor in bringing about the movement away of younger, skilled people. The steady drain of its skilled population is the most serious loss that any area can sustain. These circumstances have prevailed for some time in a considerable number of the older and more remote industrial areas.

No doubt the Local Employment Bill will do a great deal to steer new industries into such places. But new industries alone cannot make an unattractive town attractive again. Comprehensive planning schemes for central area redevelopment, new housing and better communications will have to be provided along with the industrial expansion if the long-term objective of revitalization is to be achieved in real terms.

The cost of doing this will be very heavy. A planned programme of re-investment involving building and development of all kinds seems essential. The local planning authorities must play an important part in such a plan of re-investment, but there seems to be a strong case for special measures. In many of the declining areas the most severe problems are regional rather than local. Some form of regional development board might provide a means of tackling the problem on the necessary scale.

Such an agency might also help to overcome one of the most difficult problems of all—the fact that, to be effective, re-investment would have to be concentrated on a few potentially attractive locations within the region and not spread thinly in the form of general aid over the whole area. This would involve very difficult decisions, but it is hard to see how they can be avoided.

PAUL BRENIKOV

MOHLG

Chief Quantity Surveyor



D. W. Nunn has been appointed Chief Quantity Surveyor at the Ministry of Housing and Local Government. He will form a team of quantity surveyors to work in the development group now being formed under the Chief Architect, Cleeve Barr. The team is expected to undertake building projects in the housing field comparable with those undertaken by the Ministry of Education Mr. Nunn, who has a keen interest in modern thinking on cost planning and re search, and wide experience, is studying the possibility of applying to housing work cost yardsticks which will permit greater flexibility and initiative to the architect, while giving more positive and useful cost guidance at the early design stage.

NEWS IN BRIEF

The Town and Country Planning Association has awarded the Howard Memorial Medal to Clarence Stein, the American town planner and architect who was the author of the famous Radburn scheme in New Jersey. The presentation was made at a luncheon on March 28.

R. M. Wynne-Edwards, the joint managing director of Constructors, John Brown Ltd., has been appointed chairman of the Building Research and Road Research Boards for the period April 1, 1960, to March 31, 1965. This is the first time that the same person has been chairman of both boards, which advise the Department of Scientific and Industrial Research on the work of BRS and the Road Research Laboratory.

Basil Spence and C. D. Spragg have been elected Honorary Members of the Institute of Northern Rhodesian Architects.

Architects in private practice rarely operate pension schemes for their employees. But those who do are advised that, if they wish to contract out of the new graduated pension scheme, they must apply to the Registrar of Non-Participating Employments, Ministry of Labour, 10, John Adam Street, London. W.C.2.

Mayf progr Illust

COMPREHENSIVE SCHOOL

MAYFIELD, WEST HILL, LONDON, S.W.15. designed by POWELL AND MOYA FOR THE LONDON COUNTY COUNCIL assistants ROBERT HENLEY, PETER JONES, PETER STEWART OVE ARUP AND PARTNERS consultants, structural J. ROGER PRESTON AND heating PARTNERS

electrical CHIEF ENGINEER, LCC quantity surveyors DAVIS, BELFIELD AND EVEREST

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Mayfield was one of Britain's first comprehensive secondary schools, and was the subject of a series of progress articles in the AJ on January 7, 1954, August, 18, 1955, and April 5, 1956, and of a Building Illustrated article on August 2, 1956. This week we revisit the school after five years of hard use.



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building revisited

After five years' use the external materials show no sign of visual deterioration, often found when new constructional methods are used. This is due to the careful detailing and

the compatibility of the materials chosen. It can be seen that London's atmosphere has not destroyed the crispness or blurred the outlines apparent when the school was opened.

Block A

Completed in 1955, this building was fully described and cost analysed in the A.J. of August 2, 1956, and in preceding progress articles, so only a brief description is necessary here. The client required additional buildings to house 1,620 places, to convert an existing Edwardian grammar school for 500 girls into a girls' comprehensive school. On a nine-acre site, well wooded and comparatively flat, the new buildings were planned with three-storey classroom blocks radiating from a central single-storey hall and kitchen block. Three gymnasia, with changing rooms and boiler house occupy a separate block, joined by a covered way to the assembly hall.

The teaching blocks are of load-bearing brick cross-wall construction with pre-stressed plank floors, and the gymnasia also have load-bearing walls with trussed timber roofs. The assembly hall is steel framed with the roof supported on two welded steel space frames. The total area of the new buildings is 108,289 sq. ft. giving 67 sq. ft. per place with a net cost per sq. ft. of 53s. 4d. The cost per place worked out at £187 at a time when the M.O.E. ceiling was £250 per place. At the time it was considered that the clients could not but be pleased with a splendid building: five years of hard wear have not altered that judgment.

PLANNING ASSESSMENT

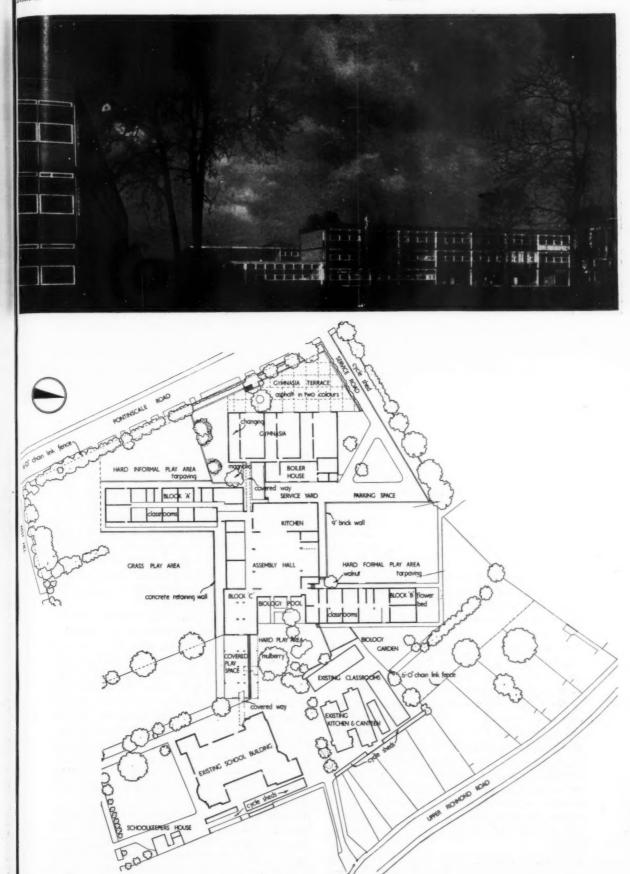
Communications: Of the general layout of the school there is little adverse criticism, the juxtaposition of rooms and groups of specialist accommodation in the teaching blocks works well. But a communications problem, unforeseen but now recognized at all large schools has arisen, and although it is a general problem and one that cannot easily be solved in the planning of a particular school, it may be worth discussing here.

The problem is that of getting many different groups of people from one place to another as quietly and quickly as possible; its solution depends almost on a national policy decision.

School timetables in this country take no account of the time required to sort out, say, 1,500 children at a class change, or for teachers to collect different books from a commonroom and speed to another class at the opposite end of a building in no time at all. In Sweden ten minutes is a normal time allowance for a class change and there would be less scurrying through the circulation spaces of our large schools if the same allowance were made here. However, good planning can also reduce to a minimum the amount of time wasted in such changes.

In all our large schools, after a period of experiment, it has now become reasonably established that the specialist rooms of a particular department, such as science, art or housecraft, shall be grouped together in the school, for ease of control by the department head, and also because the cost of services to such rooms is increased if they are dotted among ordinary teaching spaces. At the same time there has been a tendency to breaking down the scale of large schools, which implies a degree of decentralization of each department, as well as the addition of "houserooms" which are social centres and bases of administration. All this has further complicated circulation. It might help if, at the planning stage, architects discussed this problem with their clients and could then consider circulation problems in relation to probable timetables and room usage, which would give useful information about the necessary space-time relationship between groups of

A further communications problem which has arisen at





Mayfield and elsewhere has a simple, mechanical solution: at Mayfield a school broadcasting system has been provided and a talk-back system with individual transmitting posts at key points. However, in practice the headmistress does not want to broadcast to the whole school when she wishes to talk to one child or a member of the staff. And the talk-back system is not really successful because it does not put the individual who is wanted in touch with the caller immediately, if at all, and for the simple reason that people lose their operation keys. All members of the staff at Mayfield felt that a far more selective method is required, such as an internal telephone system with extensions in every room, and the headmistress referred to a secondary school of 900 children in Upsala, Sweden, which has a complete internal intercom system.

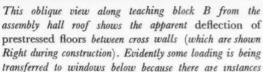
Orientation: This again is not a problem specific to Mayfield, where it is obvious that the orientation of the school is correct. Venetian blinds are provided on all south facing windows only (a normal requirement by the L.C.C.), but considerable trouble from solar glare occurs with low sun angles on the rooms facing east and west, which at times makes it impossible for chalkboards to be read, either through glare in the eyes or on the board. The venetian blinds on the south elevation are reasonably efficient at their job, but they are unpopular because of their fragility, which leads to constant maintenance troubles, because they are extremely difficult to clean, and because they are noisy. Nobody wants their use extended to the east and west

There may be planning solutions to help this problem, such as staggering rooms so that each block gave some protection to the next against low oblique angles, but this would of course tend to increase the ratio of floor to wall area. The school staff did not consider permanent sun breakers necessary but felt that some form of external awning such as shop window blinds with side protection might be considered. It is doubtful if these would be a sound solution in maintenance terms. Permanent sun breakers would cause difficulties with regard to natural daylighting levels and it seems as if some experimenting on the lines of the sun protection screens recently erected on the south façade of the Pavilion Suisse might be considered. These are in effect external venetian blinds but with heavier, robust steel louvres, held in guides and operated from inside the room.

Airborne noise: Sound insulation between rooms at Mayfield is very good and there are no complaints with regard to structure-borne noise, but there is a problem, especially in summer, with airborne noise passing through open windows to the rooms around. This does not apply only to rooms with such teaching aids as tape recorders, record players, etc., the use of which is increasing in normal classrooms, and it is difficult to suggest an answer except in terms of threedimensional planning, with set-backs and projections of blocks of rooms, or projection of cross walls and floor lines between rooms. Inevitably this would increase the ratio of external wall to floor area, with obvious effects on costs.

Assembly hall: This is the only space within the school which receives serious criticism from the users, and again much of the criticism is directed not at the building but at the architect's brief. This was planned as a multi-purpose area, the assembly hall linked by a





complicated series of sliding-folding screens to two auxiliary halls at the opposite end to the stage. With the screens open it was intended that there could be a seated audience of 1,800, but this never proved successful and is rarely done because, owing to the size of the hall it is virtually impossible to see the stage from the back, and impossible to hear without the use of the loudspeaker system, which is a severe limitation in theatrical and choral productions. The hall is therefore always used with all the screens closed, except during lunch. But even so, the size of audience that can comfortably use the hall is limited by difficult angles of vision, caused by the great width of the room, and the stage itself is considered too small and its use severely limited by the low-10 ft.-proscenium opening. There is criticism too of the ventilation: a mechanical extract plant is concealed within the framing of the steel roof trusses and designed to give 21/2 air changes per hour. Presumably this is insufficient when the hall is full, and the problem is made worse during the day by the considerable solar heat gain through the large area of fixed high-level clerestorey windows on all four sides.

Acoustics: Acoustics are reasonably good for most functions, and particularly successful during lunchtime, when noise levels are pleasantly low. However in any large multi-purpose area acoustic problems can rarely be solved for all functions without expensive moveable surfaces, and at Mayfield there is criticism of a deadening effect on choral work. The hall also suffers from the M.O.E. decision at the time when it was built that assembly halls must also be used for meals. On one side of the hall are the kitchens and servery, with a 30-ft. run of aluminium roller shutters. Noise from



of top hung projectors not closing properly. In the right foreground, lead flashings to the slate facing in front of the half landing have been damaged by a window cleaner's ladder—a frequently recurring maintenance item.

the kitchen through these shutters is considerable and the hall cannot be used between 11 a.m. and 3 p.m.most of the school day, in fact. It might be possible however to deal with this problem by re-designing the servery hatches in two separate thicknesses. Nor are the small auxiliary halls at the back considered successful: the sliding folding screens which separate them from the corridor do not exclude noise sufficiently and the rooms are difficult to work into a timetable because they must be used every day for dining. Opinion among school staff is equally divided on the kind of halls required for comprehensive schools. Four departmental heads would prefer more smaller spaces catering for specific purposes, while the other four consider that one large space offers greater possibilities.

MINOR CRITICISMS

Sanitary accommodation: No swill down gulleys have been provided, which makes thorough cleaning difficult, particularly as the floor finish levels are the same as in the corridors. The type of hand-basin selected has an overflow in the horizontal plane, so designed that it is easy for soap and other small objects to become lodged inside, which besides being unsightly, tends to produce smells. W.C. water waste preventers are concealed within a duct which is not ventilated and there has been quite a lot of trouble with condensation in these ducts so that ventilating grilles have had to be built in.

Gymnasia: The only entrance to the gymnasium block from the covered way is approximately 5 ft. wide, and this has proved totally inadequate for the amount of traffic passing through, leading to confusion and waste



GEOGRAPHY I

CLASSRM

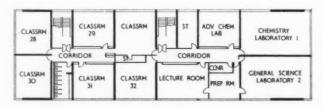


Left, top to bottom: Block A second, first and ground floors. Block B second, first an ground floors.

Right, top to bottom: Block C ground, first, and second floors.

Block D ground and basement floors. Gymnasia block

[Scale: $\frac{1}{48}$ in. = 1 ft.]



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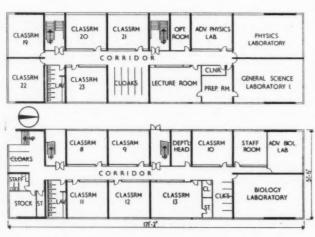
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of time. The glazed timber doors from the gyms to the outside play space (as well as in some other parts of the building) have no centre rail, and although glazing is in Georgian wired polished plate this is insufficient protection and one unpleasant accident has occurred. Removable crash rails have now been added. Administrative suite: No waiting space is provided for visitors except in the entrance hall downstairs, and it is considered that it would have been useful to have a waiting space nearer at hand. No cloakroom is provided near the staff room, and the small corridor which

leads to the general office, typing room and store is too narrow.

Service ducts: Maintenance staff complain—as they usually do—of the inaccessibility of control valves and branch drainage runs. They also complain about the shape of ducts, because in many cases the duct entrance is on the narrow side, so that the pipes nearest the entrance obstruct access to those behind. In the housecraft rooms, worktops pass over radiators with a flush grille let into the surface, so that food and other matter fell through onto the radiators, with consequent smells. These spaces have been boxed in, with grilles in the vertical plane.

MAINTENANCE ASSESSMENT

Maintenance costs: The London County Council's accounting arrangements do not provide for maintenance costs to be recorded against individual schools but against block allocations to services-primary, secondary, special, further education, etc. It is not necessary, therefore, for estimates to be prepared for the annual expenditure on each building, but it is possible when information is required specially for this to be extracted, and this has been done in respect of maintenance expenditure at Mayfield for the past two years. The maintenance architects said that in the light of their experience these figures were satisfactory. However, the figures did not include for a normal maintenance redecoration, which will take place this year at an estimated cost of £12,000. Redecoration normally takes place within four to five years of a new school being opened and thereafter a modified decoration after six years and full redecoration after another six, and so on. Also the figures did not include the cost of several important items upon which replacement is just started and which is described below. Toosts maimply the give a trare of it. Period froglazing Waste pin Minor jurecast of (intern Sundry see 1988)

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below. This does not imply that Mayfield maintenance costs may not still turn out to be low, but it does imply that a two-year period is quite insufficient to give a true picture and therefore the following figures are of little use:

Period from October 1, 1957 to September 31, 1959:

| I clice | Francisco |
|------------------------|-----------|
| Glazing | £364 |
| Waste pipe blockages | £151 |
| Minor joinery | £600 |
| Precast concrete sills | |
| (internal) | £45 |
| Sundry small items | £695 |
| | |

Total: £1,855, or £927 per annum

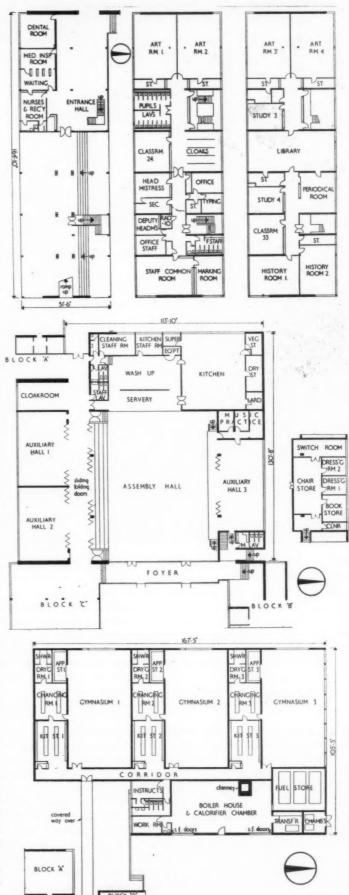
ASSESSMENT

Materials and Finishes: Materials and finishes must be judged by whether they have failed owing to inherent unforeseeable weaknesses, or whether they have failed through misuse, misapplication or faulty design, or a combination of all three. The first group has proved far the costliest at Mayfield.

Studded rubber floors: Used very extensively throughout circulation and teaching areas, the serious failure of this material can only be described as staggering. At the time it was heavily tipped and used by the M.O.E. Development Group, and it is a relatively expensive finish but one which the architect was entitled to consider would last for at least 20 years. In the heaviest circulation areas at Mayfield it has worn through completely and is now being replaced by linoleum tiles. Apart from the problem of wear there seems also to have been something defective about the adhesive, because in places with light use tiles showing no wear have come up and been torn. Maintenance staff expect to have to replace most of this finish over the next few years.

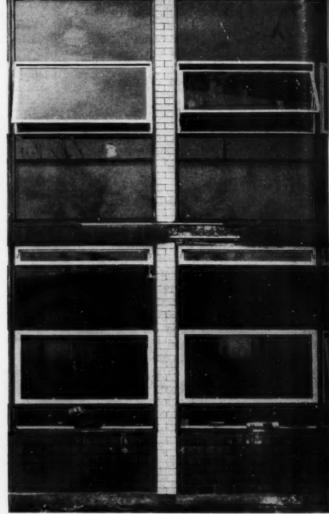
Ceiling finishes: Sprayed asbestos has been used extensively in all circulation areas, sprayed direct either on to concrete soffits or on to $\frac{3}{16}$ in, asbestos cement sheets. It has failed in two respects. Firstly, whereever it has been possible for the children to reach it has been badly scored and scraped (where out of reach by hand balls, hockey sticks, etc., have been used) and every indentation shows quite plainly. And there has been extensive and very bad pattern staining at the joints in the asbestos cement sheets. This would not be so serious if it were possible to clean or decorate this material frequently, but this is not possible because of its loose, fibrous, fragile nature. In the modified redecoration which will take place this year a provisional sum has been included of £2,000 to cover up or replace the worst areas of failure.

Concrete block partitions and hardwood frames: $2\frac{1}{2}$ -in. plastered concrete blockwork is used in conjunction with hardwood door frames between classrooms and corridors. The concrete block is an infill panel and there is obviously considerable movement between the door frame and the panel, resulting in cracking off of the surface plaster on the hanging side of every door. This has been repaired, but the process will continue unless some form of strengthening is introduced



building revisited





Some trouble has occurred with slate facings, several of which have fallen off. While in some cases this might be caused by the deflection already referred to, the two cases shown here are apparently due to a mechanical failure of the fixing method. The slate is held by a continuous aluminium angle grooved in and by dowels at the vertical joints which are grouted back into the floor. The space left behind the facing was then grouted up. It can be seen from the photographs of these failures (above and top left next page) that the grouting was not completely successful, and one view put forward is that window cleaners'

ladders, placed against the facings, have tilted them over at the top, so that the slate has pulled away from the continuous angle.

Faulty joints have occurred between the internal sills and the timber window units (next page, left below). This seems to be due to insufficient bedding for the precast concrete sills, many of which have been relayed. In two cases there is movement of the window units themselves, which seems to be caused by failure of the head and sill screw fixings. Generally, projecting top-hung windows are successful and easy to operate.

Book lockers: Top hung doors are subjected to considerable strain by being forced up against the handle of the locker door above. The problem is at its worst in the case of the lowest lockers.

Pressed aluminium coat pegs: As many, many schools architects have found out in the past few years, this type of fitting snaps quite easily without being subjected to heavy misuse.

Skirtings: These are generally part of the plastered wall, the last 6 in. of which is in Keene's cement. Consequently floor polishers have made a tide mark all round the walls, which would have been avoided

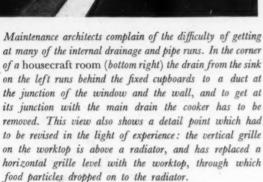
with a dark-painted skirting.

Pre-cast concrete internal sills: Many of these have come off and had to be rebedded. This could be due to an inadequate bedding on the block walls below sill level or could possibly be connected with the deflection problem referred to below.

External: Patent glazing to Assembly Hall: Large sheets of glass, approximately 2 ft. wide by 7 ft. high are held in position at the bottom by a small clip on either side of the sheet. Presumably constant movement of the glass, due to wind pressure, has slowly chipped away fragments of glass round the clips, so that the

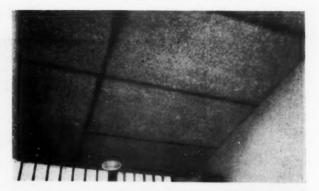






whole sheet begins to slide down the glazing bars, with the result that the glass ultimately cracks. Many sheets have been broken through this cause.

Deflection of timber roofs: The roof of the gymnasium block is carried by hardwood trusses, which have permanently deflected. There is no leakage through the felt finish as yet, although the water depth on the roofs is around 2-in. to 3-in. at centre span for most of the year, and ducks from a local park frequently use these roofs as a pond. As many as seven have been counted together swimming around quite happily. Maintenance architects are worried about the long term effect on the felt and fear that when a leak does occur very considerable quantities of water

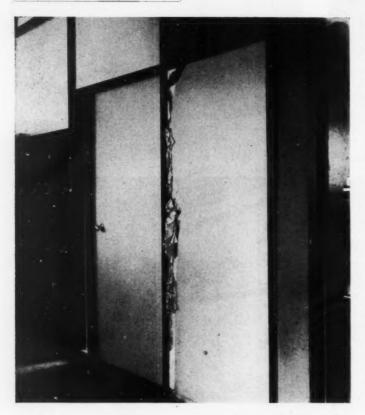




Two failures have occurred with the sprayed asbestos ceiling finish, used over the majority of circulation areas. In most cases this was sprayed on to asbestos-cement sheets, and apparently the joints were not taped, and pattern staining occurred at the joints (above right). The problem is aggravated as it has been found practically impossible to clean or redecorate this finish as it is so soft and fragile. The second failure, to be seen faintly at the far end of the ceiling, is that this softness has apparently attracted the children to scrape and score the surface.

will enter the gymnasia with danger to the hardwood strip floors and the equipment.

Prefabricated timber wall panels, string courses and floors: It is difficult to know whether or not these points arise from one underlying fault, or whether the connected problems are a series of coincidences. Looking obliquely down the long sides of the three teaching blocks, and most apparent in the case of Block C, one notices what appears to be a deflection of the floors between the cross walls. In some cases this is visibly transferred to windows below for in several rooms projecting windows cannot be shut and are bowing visibly under pressure. In other cases floors appearing to deflect have not affected the



Panels next to the classroom doors are of plastered 2½-in. concrete block, and obvious movement between the door frame and the panel has resulted in cracking in a good many cases. The melamine plastic-faced doors, however, show no sign of wear and look extremely well, as does the hardwood framing.

windows below and here it could be that the slate facings to the concrete floor beams have slipped: in fact, several of these have fallen off. Further, in two rooms some timber floor-to-ceiling window units 5 ft. 7 in. wide by 10 ft. high, which were prefabricated and joined on the site, have apparently come loose from the head and sill screw fixings and there is some movement when they are pushed. This could be due to the fixings failing because of movement due to deflection or could simply mean that the fixings were inadequate. Apart from replacing the slate facings, this problem is not yet serious, and may develop no further.

Lead flashings: These are dressed over the slate facings already referred to and have often had to be repaired due to the ravages of window cleaners' ladders.

Conclusion: A quite minor criticism may sometimes take quite an amount of space to make, and this is the case with most of these criticisms of Mayfield. To sum up, therefore, it should be said that Mayfield has not deteriorated visually and its compact planning has worked very well. When built it seemed to be splendid value for money and maintenance costs since have in no way disproved its true economy.

Visually the buildings are still sharp and clean without being ascetic and most of the materials look as well now as they will in twenty years time. There are failures, especially among the internal finishes, but generally the school is standing up well to hard and efficient use.

Having spotlit the minor failures, here is one of many areas of the school which has been greatly enhanced by its occupation by 1,600 children, the spacious entrance hall, in which pots, paintings, needlework and othe things made by them are permanently on view.



wvice

staff

Ground

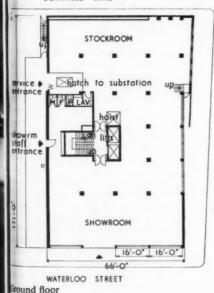
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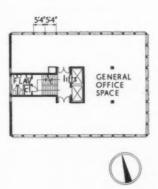


Bovis Ltd. have started work on this new nine-storey office and showroom block in Glasgow. The building will eventually be occupied by the Scottish headquarters of Philips Electric Ltd." to whom it has already been let by the developers, Highland Engineering Company. Michael Laird, the architect, has obviously gone all out to achieve for his client the maximum exploitation of the plot ratio (in this case 5: I at a reasonable first cost). The building is said to be costing £250,000 but it is regrettable that, once again, where a building by a speculative developer is concerned, no further cost figures are available for publication. It appears that the finishes are going to be fairly luxurious, as they have to be to attract the right sort of client. Aluminium framed double glazing is to be used throughout the upper floors, the spandrels are to be faced with mosaic (dark green, variegated) as is the in-situ concrete frame (off-white). Blue faced engineering bricks will be used for the flank walls on the ground and first floor levels. In spite of the expensive sound of some of these materials it is obvious that there must be an exceptional value in a building of such clearly articulated conception with almost column free lettable office area with the additional amenity of a car park. Highland House, as the building is to be called, should be finished by November this year.

BOTHWELL LANE



CAR PARK for 14 cars whatch to substation loading STOCKROOM holst STREET CAMPBELL ò WEST SHOWROOM 8-0 8-0



First floor

Tower floor

Monthly supplement

The BASA Editors
The Building Centre
Store Street
London W C 1

PROSPECTS

For the first time, as a result of the research carried out by the Royal Commission on Doctors' and Dentists' Remuneration, the earnings and status of the various professions have been compared. For students attending a five years' course at a school of architecture, or even a longer period of apprenticeship in an office, it is by no means gratifying to learn that the architectural profession receives the lowest financial rewards in almost every age group beteen 30 and 65.

Dr. Doxiadis, in his recent *Discourse* at the RIBA, estimated that the architectural profession controlled less than 4 per cent. of the total architectural creation. In an advanced economy such as ours this is obviously much higher and is on the increase, and there is little doubt the public is realizing the good value, financial and aesthetic, of the architect in terms of sound investment. Unfortunately, it is not willing to pay for it. Whatever the reasons for this parsimony—there must be many—the architect (and the student-architect) must face his social responsibility measured by his own yardstick, and not just the public's, and give of his best accordingly.

If any of us do hope to penetrate the surtax limits, we can console ourselves in possible failure by observing that only one quarter of the profession earned more than £1,570 in the 30-65 age group in 1955-56, 17 per thousand more than £6,000, and four per thousand more than £10,000. Generally speaking, the architectural profession is not a Klondike. Those students who are grinding away at their projects in the hope of later achieving a fat bank balance are advised to order a copy of the Report (H.M.S.O., price 15s.), or better still, get their libraries to purchase one, so that they can read and digest at leisure the first 50 pages of this 346 page publication. Afterwards, they might find themselves joining their local medical or dental schools.

On the positive side, the results of the Royal Commission's survey do provide a further prop to the new standard of entry into the schools of architecture. This undoubtedly will help reduce the marginal element which succeeds in gaining qualification to the detriment of the rest of the profession; and may cause society to value to a greater measure the good influence of well trained architectural talent.

STUDENT'S VIEW

The RIBA has now set up a committee to study the problem of technical assistants, their education and their form of qualification. BASA'S President, Hilary Chambers, has told me that he very much hopes the Association will be given the opportunity to present its views to the Committee before recommendations are made.

George Candilis visited the Architectural Association recently. He restated the CIAM philosophy, but the implementation of this theme in his explanation of his project at Bagnols-sur-Ceze was not very obvious. His answer to envious questioners as to how he got so much built so fast and so high was "Yes, we have bureaucracy but in every place there are some who know and some who do not know."

Sir Herbert Read in a later lecture also at the AA produced no new startling theories, but as happens in mos aesthetic discussions, this one finally wound up on consciousness. To clear up some confusion during question time over the problem of consciousness Sir Herbert drew the analogy of the proficient archer who was much mor conscious of his objective on the target board than he was of his "know-how or technique. To hit the bull's eye, he no longer seemed to take aim. Thi reminded me of some of those sixshooting Western films where bullets find their mark with no effort what soever.

A long letter from the School of Architecture at King's College, University of Durham, tells of their first society dinner. Invitations were extended to all staff members and students, most of whom attended. Speeches were made by Professor W. B. Edwards, Professor J. H. Napper, Past President of the Northern Architectural Association, D. W. Chalk, a lecturer in the School, and R. A. Allot, the President of the Student Association. Such was the success of the evening, rounded of with a full-scale dance, that the event is to be made an annual one.

Durham's idea of a permanent showcast for exhibiting students' extra curricular work on a weekly basis is something other schools might consider. Scheme like this can stimulate creative taken in affiliated fields such as furniture

design. Society lectures at the School have been fewer than usual, perhaps owing to the time devoted to organizing an exhibition at the King's Hall as part of the City's Arts Festival where examples of all aspects of work going on in the Architectural, Town Planning and Fine Arts Departments were displayed. Two lectures of special note were arranged, however, one given by Mr. Ward of Gollins, Melvin and Ward on "Architecture in the USA," and the other by Mr. Sternfeld of Pilkingtons who showed a large selection of slides of European buildings employing glass as a building material.

Congratulations to the Leicester Society of Architectural Students on the first issue of their magazine Agora which I have just received. This publication caters not only for architectural students, but also addresses other like-minded people within and outside the architectural profession. In this first issue, articles range from architecture to jazz. A good practical standard of presentation has been achieved through student co-operation with the School of Printing, Leicester College of Art and Technology. The magazine's unpretentious format cannot cause too much of a drain on funds which should ensure that it will not fail for financial reasons. We hope Leicester will send their magazine to the libraries in other schools for all students to see. What one school can do, surely other schools can manage also. Good luck to Leicester for their next issue in the summer.

Nottingham report that their staff have wholeheartedly endorsed the resolutions of the Bristol Conference; and have added a word of welcome for the programme of student research that is proposed in the field of architectural education. Nottingham students seem to have been keenly provoked by Danilo Dolci who is presently devoting all his talents in an effort to help overcome the poverty, dirt, crime and misery of Western Sicily instead of skimming the cream of professional briefs in prosperous Northern Italy. As a man with a deep feeling for those around him, he left his lecture audience wondering whether they would have the courage to go to such lengths to effect similar convictions.

Disappointingly, Anti-Ugly's planned protest at the Ideal Home Exhibition had to be cancelled. The exhibition, as usual, is largely a commercial gimmick to be swallowed by an eager public actually queueing to be shown what is right and good. In fact it is difficult to attack the idea of such an exhibition since the demonstration of ideal homes is perfectly commendable in theory. Some things at Olympia are good, but I suppose even if you tried to fill the hall throughout with first-rate material it would be difficult as there is not that much available.

STUDENT

BASA INTERVIEWS DOXIADIS



Foreign architects invited to speak in this country have a habit of beginning at the beginning, thereby considerably disconcerting their English audiences. One feels that there is here some sort of unspoken agreement that, as the actual problems are so complex and the solutions so hard to implement, another set of problems should be tacitly substituted to create the sort of elaborate game that almost everyone is now busy playing. This is decadent and could be disastrous. It was therefore most courageous and valuable that Dr.

Doxiadis chose to speak as he did last month at the RIBA, not about Ekistics or Dynopolis per se, but about Architecture in Evolution as a restatement of the principles that should motivate architects today. Until the function of architecture is completely comprehended with respect to its being generated by the creation of a total environment through the study of the science of human settlement, it will remain impossible to create specific buildings.

Accepting then Dr. Doxiadis's premises. as discourses, the BASA representatives who met him the following day decided to discuss principally the education required to create the sort of men he believes to be necessary to produce the human environment of now and onwards. He used military organisations as his point of departure, the aim of education being to enable the formation of a hierarchy of functions with a unity of purpose. He was not adversely critical of the general staff as the AJ summary seems to indicate, but on the contrary, regarded it as absolutely essential that there should be some closely co-ordinated team of strategists from all disciplines and sciences concerned in the creation of environment. Co-ordination is in fact the keyword in Dr. Doxiadis's vocabulary, as it has to be when considering all the complex processes of synthesis. When questioned about politics he said he was non-party. He believed one could establish the sort of ekistical system required whatever the political framework happened to be. (Greece is obviously a much more dicey business than Britain, so what are we bitching about anyhow?)

To produce his hierarchy, Dr. Doxiadis found the existing schooling totally inadequate and suggested what he calls a three-cycle system. This would start with three years studying the habitat of the village environment in its entirety economics, sociology, the lot-in close co-operation with all disciplines involved. Then, after say two years' practice, the student would be qualified to work either as a complete tactician at platoon level or as assistant at more complex levels. To move higher up the hierarchy would mean a further five years at college and probably two more as post-grad. This I like as it seems to spring from the feeling that all men are

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capable of understanding the principles and *relevance* of what they and everybody else are doing. Without this, humanity and Humanity are lost.

With regard to universal architecture, Dr. Doxiadis's views seem to parallel the CIAM application of mass-production to fulfil mass needs with the application of international solutions to internationally common problems, individual and local, being one-off jobs in, again, a hierarchy. This would be facilitated by some universal educational co-operation, much needed anyhow from the Mankind angle.

To conclude this too-short report (Doxiadis as a synthesiser is one of the most important around, synthesisers generally being probably the mostneeded type nowadays), I can only excuse myself on account of the enormous amount written by Dr. Doxiadis himself both in his magazine Ekistics and in his book to be published this year. The complete RIBA Discourse (for he only gave half during the evening lecture) is to be published in the RIBA Journal in full, his lecture to the TPI Summer School at Southampton last September is already in print, and he is organising an international congress on Ekistics in 1961. See you there.

MICHAEL MACRAE

BASA ACTIVITIES

POOL OF LECTURERS

A need has been long felt for a national organisation to provide visiting lecturers of high quality to the schools.

It was decided at the Leicester Conference that BASA should run this scheme; and in due course tentative steps were made. Owing to the system, rather than the unwillingness of the lecturers to participate, little headway was made. In November last year this project was reorganised and the system outlined below was produced by Portsmouth students. This system is simply based on a send and reply card method which entails the minimum of writing; consequently it has less chance of running to a standstill owing to too much correspondence.

The success of this system depends on the schools participating, as its actual running is shared equally by them and BASA, and thus is in line with the present BASA policy of decentralisation. All schools have equal opportunity of participating.

Lecturers.—Firstly a central lecture pool is chosen by BASA. This is compiled from lists of past lecturers supplied from the Schools. Top members of the profession* are then invited to participate in the scheme.

In the past much duplication of lectures has taken place. We propose that schools and allied societies in an area should participate in this scheme, thus preventing duplication. It is hoped that the schools and allied societies will co-operate in choosing a lecturer, and to share the payment of the lecture.

Regions.—For simple geographical reasons the country has been divided into several lecturing areas. This is designed so one school in an area would invite all neighbouring schools and allied societies to its lecture, thus providing lectures for the smaller, listed and facility schools. The system of regions need not be adhered to strictly. The system will make use of the national architect visiting his sites around the country.

System of Correspondence.—BASA will create the lecturers' pool.

The schools will act as distribution centres for BASA by: (a) Notifying students in their areas. (b) Notifying allied societies.

The correspondence is based on a triangle between BASA, schools, and Lecturers.

For ease of correspondence a printed card system is proposed.

In detail the scheme will work as follows:

A A lecturer is invited by BASA and enclosed in his letter will be: (i) An explanation of the scheme. (ii) Regional map. (iii) A return card on which he will indicate: (a) If he is willing to lecture and on what subjects; (b) in which areas he is willing to lecture.

B Lists will then be issued to all the schools in the appropriate areas giving the names of lecturers willing to visit that area. These lists will be renewed every six months. With the lists BASA will send batches of correspondence cards to be used by the schools.

C At this point the schools assume the correspondence. A two-part card is sent to the lecturer containing: (a) The school's half, on which a series of potential lecture dates are suggested: (b) the lecturer's return half containing confirmation of one of these dates, or if inconvenient suggesting further dates. Obviously two schools in one area cannot be host to the same lecturer and it is decided by the lecturer at his own discretion which school he will attend. D When a final date has been confirmed, information cards are sent by the host school to: (a) neighbouring schools and allied societies; (b) BASA editor for possible publication in the AJ BASA Supplement; (c) BASA organising sub-committee for reference purposes. With this card will be sent the lecture fee by crossed cheque or postal order made payable to the Honorary Treasurer, BASA. Settlement of the lecture fee is between BASA and the lecturer.

The above card is identical in all three cases, giving the lecture subject, its author, time and place.

As stated above all the correspondence is executed on three printed cards, one distributed by BASA and two by the schools.

This ensures participation of the schools in the actual running of BASA, closer co-operation between neighbouring schools, fostering exchange of idea; to the mutual good of each other, and a link with the profession by contact with the lecturer and the allied societies.

KENNETH CLAXTON MARTIN HARVEY

Portsmouth

VACATION WORK

At the Bristol Conference in January I was asked to organise what is loosely called "Vacation Work" during next summer in the British Isles.

This short article will, I hope, serve a twofold purpose. Firstly to publicise to all students that something is being done; and secondly to show any practising architects who may read this that BASA is taking practical steps to improve educational facilities. Some architects will receive more concrete evidence in the near future.

The main idea is to turn Brighton into a clearing house for information. Schools will be informed of possibilities, probabilities and jobs definitely available in their particular regional areas, and also in offices further afield. This will be effected by:

I Sending this programme and explanatory letter to all schools, whether they

[•] The profession in its widest sense.

are BASA members or not. (This has already been done.)

2 This article will be followed shortly by circulars sent from Brighton to offices, Councils, local Chapters and Societies to find jobs.

3 Regional lists will then be compiled at Brighton.

4 These will then be sent to respective schools where BASA representatives can deal with individual enquiries.

The object of this scheme is to give a much wider range of choice within the regions than has hitherto been available. Any student who wishes to work further afield will receive the list of the appropriate region on application to Brighton. Next year, as the lists grow, the range of selection will be greater and we shall be able to start combating the "forced labour" offices where, in exchange for a pound a week for every year of experience, students slog out simple working drawings, never leaving the office and seldom seeing the principal.

Those offices which would like to help and take advantage of the scheme should write to me at the Brighton College of Arts and Crafts, giving details of the numbers of students they are willing to employ.

It is patently obvious that this scheme will founder without the active support of students, BASA representatives and the profession as a whole. I can only ask for your co-operation to make this scheme work for it is designed in your

interest to fulfil a real need.

STUART FISHER

BASA DIARY

ARCHITECTURAL ASSOCIATION April 7. Annual Reception.

SCHOOL OF ARCHITECTURE,
COLLEGE OF TECHNOLOGY, DUBLIN
March 31 to April 15
(Dublin Building Centre).
Exhibition of Students' Work.

BASA REPRESENTATIVES

Will all BASA representatives send their names and addresses to the BASA Permanent Secretary, The Building Centre, 26 Store Street, London, W.C. I. Already three requests have been sent out to you for this information, but co-operation is not forthcoming. BASA cannot keep in touch with your school effectively unless it knows how to reach you; so please treat this notice as urgent.

LETTERS TO THE BASA EDITORS

BASIC NEEDS

sir: In the Editorial of last month's issue you pointed out that students developed a specialized means of communication through their training in project and working drawings; and that this was at the cost of practice in the normal means of communication, namely speech and writing. In the same issue, the Welsh School of Architecture's survey of architectural education made the point that architectural students tended to form themselves into isolationist groups even when they were part of a university.

It has occurred to me that these two points may be closely linked. Since architectural students develop their specialized form of communication which lay people cannot enjoy to the same extent, they are inevitably forced to make close ties within their own fraternity to the exclusion of other groups. This, of course, must aggravate the phenomenon that the Welsh School have recorded and might even be the cause of it.

JAMES CHAPEL.

London, N.W.3.

APOLOGY

In February STUDENT mentioned that Mr. J. Gordon Woolatt had recently qualified at the Nottingham School of Architecture and that he had been the immediate past president of the student organization there. In fact, Mr. Woolatt was the immediate past president of the Nottingham, Derby and Lincoln Society of Architects and is, of course, by no means newly qualified into the profession. The editors apologise to Mr. Woolatt for misreading a letter from Nottingham and hope that this error has not upset the very good relationship we understand exists between the students and members of the profession in Nottingham.

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THE INDUSTRY

From the industry this week Brian Grant describes paint and sprayed asbestos finishes, a fireproof board, a humidity-proof door, duct formers for concrete, a plastic seal for expansion joints, and steel storage cupboards.

Paint finishes

Leyland Paint & Varnish have evolved a wet on wet" decorative process, known as Sprelux, which allows painting to be completed with a minimum of delay. The different coats involved in the painting schedule are applied by spray gun, and they go on without waiting for the previous coats to dry. Assuming that the job has to start from the beginning and needs a primer the whole work can be completed in the day and all coats dry out overnight to give a hard and usable decoration the following day. The paints used are highly alkali resistant and are therefore very suitable for use in new buildings. (Leyland Paint & Varnish Co. Ltd., 75, Newman Street, Oxford Street, London, W.1.)

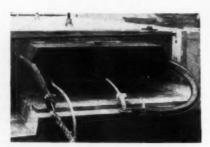
Fireproof board

A member of the Turner & Newall organization has recently introduced Limpet board, a compressed material with a high asbestos content. The board is strong, dense, and flexible enough to be bent to a radius of about 12 in., and can be worked with ordinary woodworking tools. It is made with a standard thickness of \(\frac{1}{2}\) in. and in 8 and 10 ft. lengths, both with a width of 4 ft., but it can be cut to size if required. Owing to its high asbestos content the board is incombustible and is in BS 476 class 1, surfaces of very low flame spread, and when under test the surface supported no flame whatever. The board is easy to prime and can be

painted any colour: suitable proprietary brands of alkali resisting primers and paints are recommended on request. (J. W. Roberts Ltd., Chorley New Road, Horwich, Bolton, Lancs.)

Forming ducts in concrete

Oval and rectangular as well as circular ducts can be cast in concrete with Ovacore formers. A core of the required cross section is formed from steel sheet with a slot down one side, and is sprung open to accept a shaped rubber fillet, to which is attached a length of cord which is brought back through the length of the core. The Ovacore is then placed in the mould and is held down at intervals to prevent movement while the concrete is being placed. When the concrete has set the cord is withdrawn, pulling away the rubber fillet and allowing the two edges of the longitudinal slit to snap back into the closed position, breaking the bond with the concrete so that the core can be withdrawn. Rectangular section cores



Ovacore duct formers.

generally made in halves, with two rubber fillets, and should be somewhat easier to remove from the concrete. The cores are oiled before use, and while the oval versions have a guaranteed life of 150 uses, the two part cores last about four times as long. Standard core lengths may be up to 30 feet, but greater lengths must be welded together on site. The cores can be supplied in any reasonable shape and have already been supplied in sizes up to 24 by 12 inches. P.v.c. cores, needing no lubrication and having a guaranteed life of 50 uses, are recommended for circular ducts with diameters between 4 and 12 inches. (P.C. Floors Ltd., 64/66, Battersea High Street, London, S.W.11.)

Doors for humid atmospheres

For use in pithead baths where there is permanently humid atmosphere and a ten perature in the middle 70's twenty for hours a day, the Scottish division of the



Permaply doors at pithead baths.

National Coal Board needed plywood of facings which would not delaminate. Per aply, a phenol impregnated ply, was chose The ply was bonded to the cores with Aerolite thermo-setting resin, and about doors have been used in baths, cantee and kitchens, apparently with succe (Venesta Ltd., Vintry House, Queen Str. Place, London, E.C.4.)

Expansion joints

Compri-Strip is a bitumen impregna foamed plastic which has great elastic but which regains its shape quite quid after compression. It is fixed with an hesive, supplied by the makers, and can used to seal expansion joints in cond slabs, curtain walling, patent glazing, round window frames. Where the strip be exposed to severe weather conditi it is recommended that it should be o pressed to about 20 per cent of its original size. The elasticity of the strip makes suitable for sealing uneven surfaces an is made in a range of nine sizes, from \$ to 1 9 by 31. (Thomas W. Ward Albion Works, Sheffield.)

Storage cupboards

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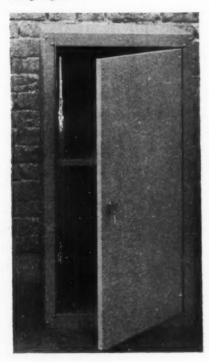
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The illustration above shows the Helmsman steel cupboard, which measures 36 by 18, with a depth of 15 in., and which is intended for small scale storage in factory or office. There is an internal shelf and the door has a box section stiffener. There is a 6-lever lock and master keys can be supplied if a quantity of cubboards is ordered. The whole unit is very rigid and is finished in mid-grey stove enamel. Price is £4 5s. including delivery and the cupboard is easy to assemble. (W. B. Bawn & Co. Ltd., Byron Works, Blackhorse Lane, London, E.17.)

Sprayed asbestos

Chancery Insulations have recently become members of the U.A.M. Group and have issued a leaflet setting out the advantages of their Seel sprayed asbestos. The density of the coating varies between 7 and 9 lb. per cubic foot and it has a thermal conductivity (K) of 0-32. Sprayed on 3 in. corrugated asbestos cement or metal sheeting a thickness of ½ in. will improve the U factor from 1.6 to 0.26, or to 0.18 with a thickness of 1 in. Apart from thermal insulation, the material is also used for fire protection, to prevent condensation and corrosion, as well as for sound insulation and dust exclusion. Spraying makes the material easy to apply in any thickness, particularly to uneven surfaces. Decoration of the finished surface is possible but not normally necessary, and the makers claim that the material adheres strongly to the base and so will not crack, flake, or be otherwise affected by vibration. The leaflet is clearly set out and is to A4 size. (U.A.M. Group Advisory Service, Tolpits, Watford, Herts.) E.17.)

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ESTIMATING

current wage rates, market prices and measured rates

It is important to note that the prices feature this quarter has been revised to include the increase in wage rates which will come into force on April 18. It is too early yet for the wage increase to have affected the cost of materials but, obviously, there will be a tendency towards a general all round rise boosted, of course, by any increase in haulage rates as a result of the Guillebaud Report. The prices are prepared by Davis, Belfield and Everest, Chartered Quantity Surveyors.

Rates of wages as from April 18, 1960, will be as follows:

| | Cr | aftsmen | Lo | bourer | 3 |
|---|--------------|---------------|-------------|--------------|---|
| London District Within 12 miles radius From 12 to 15 miles radius | \$ 5 5 | d 1 0 ½ | s 4 4 | d 5¥ 5 | |
| Liverpool and District | 5 | 1 | 4 | 51/2 | |
| Grade classifications | 4 4 | 111 | 4 | 4 34 | |

Market prices

Prices are given for the major items in each trade, they are intended as average prices and include delivery in the outer London area. They do not include overhead charges and profit.

Measured rates

Prices are for work carried out in the Outer London area and include 10% to cover overhead charges and profit except in the case of work which would be carried out by specialists when 5% has been allowed.

The prices given in italics represent the total value of the materials included in the measured rates, including an allowance for waste and 10% for overhead charges and profit.

The cost of labour included in the measured rates including an allowance for waste and so were (including its proportion of overhead charges and profit) can be ascertained by subtracting the prices in italics from the prices in heavier type.

Abbreviations

Inches: in. Feet: ft. Yards: Y. Yards cube: YC. Yards super YS. Feet cube: FC. Feet super: FS. Ton: T. Feet run: FR. Thousand: M. Square: Sq. Number: No. Hundredweight: C. Pound: Ib. Gallon: Gal.

Preliminaries

To all estimates based on prices for measured rates add, If required, for Preliminaries, water, insurances etc. depending on the nature of the ob

Price changes

* Shows changes in market prices and measured rates since the last issue (December 24, 1959.)

Excavating for surface

excavation and removing,

YC *39 11

₫-in.

C *82

55 11

Columns over 144 sq .inches YC *31 11

technical section

s d 21 4

18 8

*1 4

1 1

2 8

*2 8

| Concretor continued s d | 8 | d | | 4 |
|--|---|--|-----|------|
| -in. C *96 4 | Managed mater | Partitions | | |
| 60 8 | Measured rates | Clinker concrete solid | | |
| eel wire mesh fabric | Reduced brickwork in | partition blocks and setting | | |
| eighing 4-32 lb. per yd. sper and laying in concrete | cement lime mortar, Lingfields in cement mortar | in cement lime mortar YS | | |
| YS 4 1 | YS | 2½-in. | 6 | |
| 3 5 | | 3-in. | *15 | 0 |
| itto weighing 6.57 lb. per | Second stocks *56 | 4±-in. | | 8 |
| d. super YS 6 0 5 3 | | 6 | 11 | 5 |
| 3 3 | 34 | 0 - | | |
| itto weighing 9-32 lb. per | Helf beids well disse. YS | Thermalite ditto YS 2½-in. | 12 | 11 |
| d. super YS *8 6 7 4 | Half brick wall ditto YS Flettons *19 | 0 | 8 | 6 |
| | | 3-in. ' | 10 | 3 47 |
| recast concrete | Second stocks *29 I | 4-in. 1 | 19 | 5 |
| recast concrete (1:2:4) | Lingfield Grade B *29 | 2 | 13 | 4 |
| nished fair on exposed faces | 16 | Hollow clay ditto YS | | |
| nd hoisting setting and binting: | I I-in. hollow wall with 2-in. | 2 <u>1</u> -in. | *10 | |
| Lie volte Beach este | cavity and wall ties YS Flettons *41 | (6 cavity) 3-in. | | 6 |
| 1-in. × 6-in. lintols rein- orced with one 1-in. rod FR *2 II | riettons 41 | | 6 | 9 |
| 2 5 | | (ditto) 4-in. | 8 | 6 |
| 1-in. × 9-in. ditto with two | Second stocks *63 | 7 | - | - |
| in. rods FR *4 5 | | Wood wool slabs ditto YS 2-in. | +14 | 3 |
| 3 7 | One brick wall built fair and pointed both sides. | 2-111. | 10 | 4 |
| iling | | 3 2½-in. 1 | | 6 |
| | | 3-in. | 12 | 9 |
| leinforced pre-cast concrete iles, approximate prices for | | 0 / | 13 | 9 |
| upplying, unloading, pitching | Lingfield Grade B *59 | 4 DRAINIAVED | | |
| nd driving 2-in. × 12-in. up to 30 ft. | 34 | 0 | | |
| ong FR 35 0 | Sundries | Market prices | | |
| 4-in. × 14-in. up to 50 ft. | | Salt glazed stoneware pipes | | |
| ong FR 41 0 heet steel piling, ditto T 1165 0 | Extra over common brick- work for internal fair face | and fittings. " Best " quality: | | |
| to | and flush pointing YS *1 | 6 Ordinary pipes FR | | |
| 1230 0 | | 4-In. | 1 | 5 |
| BRICKLAYER | Horizontal damp proof course of two courses of slates and | 6-in. 9-in. | 3 | 10 |
| deutent autona | bedding and pointing FS *4 | 3 Bends No. | | |
| Market prices | 2 | 4-in. 6-in. | 4 | 3 |
| oft sand YC 18 0 | Horizontal damp proof course | 9-in. | 17 | 2 |
| Hydrated lime T 110 0 | of hessian base bitumen FS *1 | 9 Pitch fibre pipe FR | | |
| | | 3-in. | - | 10 |
| Plain Flettons M II8 0 | Facings | 4-in. | 2 | |
| Second hard stocks M 320 0 | Every aven andinany brick | Cast iron s. and s. pipe to | 5 | U |
| in-field Engineering wire | Extra over ordinary brick- work with bricks P.C. 118s. | BS 437 YR | | _ |
| Lingfield Engineering wire cuts Grade B M*267 6 | per 1,000 for facings as | 4-in. 6-in. | 28 | 3 |
| | described | 9-in. | 77 | |
| dessian base damp-course o BS 743 YS 5 8 | To solid wall in Flemish | Sava lasa a and a size to | | |
| | bond YS Facings P.C. 250s per M *16 | Spun iron s. and s. pipe to BS 1211, Class B YR | | |
| Damp course slates, 14"x 9"100 76 3 | | 7 4-in. | 13 | 3 |
| Wall ties, galvanised 100 *15 8 | Facings P.C. 350s per M *23 | | 35 | |
| Partitions | | 9 | 33 | |
| dittions | 24 | Measured rates | | |
| Clinker concrete, solid YS 24-in. *5 7 | To south well to seemble | Trenches and beds | | |
| 2 1 -in. *5 7 3-in. *7 1 | To cavity wall in stretcher bond YS | Excavate trenches by hand in | | |
| 4¼-in. *9 4 | | heavy soil, including planking | | |
| hermalite YS | 7 Facings P.C. 350s per M *18 I | and structing, part returning, | | |
| 2½-in. 7 0 | 12 1 | wheeling and spreading | | |
| 3-in. 8 5 4-in. 11 0 | Facings P.C. 450s per M *24 | surplus, for pipes 4-in., 6-in. | | |
| | 10 | and 7-in. dia. | *17 | |
| Hollow clay YS | Half brick well in facing | Average depth of trench 3-ft. | *23 | 7 |
| 24-in. 4 5 (6 cavity) 3-in. 5 5 | Half brick wall in facings built fair and pointed on | 6-ft. | +40 | 7 |
| (ditto) 4-in. 6 10 | one side YS | | | |
| | Facings P.C. 250s per M *31 | 0 Excavate trench as last but 0 by mechanical trencher YR | | |
| Normal quality wood wool slabs YS | Facings P.C. 350s per M *36 | 7 Average depth of trench 3-ft. | •13 | - |
| 2-in. 8 10 | 21 | 6 4-fe. | *18 | 7 |
| 2 - in. 10 2 | Facings P.C. 450s per M *42 | 2 6-ft. | -33 | 7 |

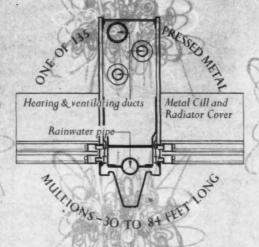
SANDERSON

NEW BUILDING, BERNERS STREET, LONDON, W.I

Slater and Uren, FF.R.I.B.A., Architects

HOPE'S WINDOW WALL

with aluminium double hung sliding sash



HENRY HOPE & SONS LTD Smethwick, Birmingham & 17 Berners St., London, W.1

BACKGROUND BASED ON SANDERSON FABRIC DESIGN H346/1



| technical section | | | | | | |
|---|---------------------|------------|--------------|---|-------------|-----|
| Drainlayer continued | | 5 | d | s d | 3 | d |
| 6-in. concrete bed and benching for 4-in. pipes | YR | | 3 | BS1418 | 17 26 | 4 3 |
| As above, for 6-in. pipes | YR | *10 | 9 3 | Pitch fibre drain pipes and laying and jointing in trench FR Roofing | | |
| 6-in. concrete bed and surround for 4-in. pipes | YR | *15 | 0 | 3-in. 2 3 3-in. flat laid to falls in two thicknesses on and including 4-in. 2 114 feet underlay | | |
| As above, for 6-in. pipes | YR | *18 | 8 | 6-in. 5 10 BS988 | 12 | 1 8 |
| Stoneware drains "Seconds" quality salt glazed stoneware drain p | | | | Extra over pitch fibre pipe for 45° sweep bend No 3-in. *10 0 groove FR | | |
| and laying and jointing in trench | FR 4-in. | 2 | 3 | 9 1 4-in. *14 6 BS1162 | 2 | 7 |
| | 6-in. | 3 | 6 2 | 6-in. *27 8 6-in. fascia with solid water | | • |
| | 9-in. | 5 4 | | 26 7 check roll at top and under- cut drip at bottom FR BS988 | 4 | 2 |
| "Best" quality salt glaze stoneware drain pipes ar laying and jointing in | | 7 | U | Cast iron spigot and socket drain pipes and laying and jointing in trench | 4 | 9 |
| trench | FR 4-in. | | 6 | 4-in. *13 2 PAVIOR | | |
| | 6-in. | | 7 | 6-in. *19 2 16 3 Market prices | | |
| | 9-in. | | 7 11 8 | 9-in. *36 6 30 4 Granite chippings, $\frac{1}{4}$ in. to dust | 45 | ı |
| Extra over " Seconds " | | 7 | 0 | Extra over cast iron pipes for bend Red quarry tiles, 6 in. × 6 in. × ₹ in. YS | 13 | |
| quality pipes for: | | | | 4-in. *31 2-in. Noelite paving YS | 13 | 11 |
| Bend | No. | *3 | 5 | 6-in. *72 6 Measured rates | | |
| | 6-in | . *4 | 10 | 9-in.*185 2 168 5 Cement and sand floated screed to receive pavings YS | 4 | ı |
| | 9-in | . *14 | 2 | Spun cast iron spigot and socket drain pipes and laying | 5 | 0 |
| Single junction | No | | | and jointing in trench FR 4-in. *7 5 5 3 | 5 | 7 |
| | 4-in 6-in | 4 | | 6-in. *11 4 Cement and sand paving | | |
| | | . *18 | 7 | 9-in. *20 4 14 6 trowelled hard and smooth YS 3-in. | 4 | 7 |
| Double investor | Al- | | 5 9 | Cast iron gullies | 2 5 | 3 |
| Double junction | No 4-in | . *9 | 7 3 | Cast iron gully trap with high invert and setting on and surrounding with concrete | 2 6 3 | 11 |
| | | | 0 | and jointing to drain No. | | |
| | | 2. | 3 8 | 36 5 concrete YS 6 in.*108 1 | *7 | |
| Stoneware gullies | | | | 9 in.*242 11 14-in. | *9 | 4 |
| Salt glazed trapped gull with galvanized grating including setting gully of | | | | ASPHALTER 228 2 | 16 | |
| and surrounding with c and jointing to drain | | | | Measured rates -in. terrazzo paving laid on | | |
| 6 in. × 6 in. gratin | ng 4 in outle | t 2 | 3 11 | Damp proof course and tanking prepared screed YS | 38 | 4 |
| 9 in. $	imes$ 9 in. gratin | ng 6 ir outle | 1. et 4 | | 1/2-in. vertical damp proof course in two thicknesses on | 39 | 5 |
| Grease and mud gully S | -in. | 3 | 8 2 | brick or concrete YS BS 1097 17 4 BS 1418 22 0 | 63 | 0 |
| diameter with 4-in, out galvanized bucket and g and setting gully on an surrounding with conci | let grating d | 3 | | ↓-in. horizontal damp proof course in one thickness on brick or concrete YS -3-in. cork tile flooring, 12 in. × 12 in. and fixing with mastic and including polishing YS | 35 | 5 |
| and jointing to drain | No | o. *8 | 2 6 | BS1097 *0 6 BS1416 14 2 6-in. thermoplastic tile | - | |
| Road gully with 6-in. o including setting on an | d | | | Vertical tanking in three thicknesses YS | | |
| surrounding with conc and jointing to drain 15-in. dia, 30-in | No | | 2 10 | thicknesses YS BS1097 24 8 B31418 30 5 | 2 | 3 |
| 18-in. dia. 48-in | | *22 | 9 4 | 4.5mm coloured linoleum and fixing with mastic to cement | *25 | 5 3 |
| | | 16 | 0 0 | 13 screed or boards 13 | - Z | . 3 |

A Bilston ATLANTA will be perfect... 60 NOW WHICH SIZE It's no problem! Whether the plan allows for a small or large bathroom, there is a Bilston Atlanta that will fit. Selected for the Design Centre, the Atlanta is made in five sizes. Every home owner will enjoy the bath that has the famous Bilston finish and durability, and the skilful design that makes the Atlanta the safest, most comfortable bath of all. The Atlanta costs no more than an ordinary bath. All this with the ATLANTA Flat bottom Fittings the Atlanta flat bottom helps to the Atlanta is supplied with or prevent slipping . . . ensures comfort. Particularly suitable where a shower is to be fitted. without overflow . . . with or without hand grip. The feet can be adjusted to accommodate all types of trap, Atianta Safety including the Bilston "Wasteflo" pre Magna fabricated waste, trap and overflow unit. the low sides make the Atlanta safer Also available with the Bilston O.P. for young and old. It can be fitted to give an overall height of only 16°. Hand Grip specially designed to meet the Marina BILSTON-the bath needs of the elderly or infirm. Taps Mermald can be fitted centrally, or on Colours **SPECIALISTS** either corner to facilitate installation and maintenance. the Bilston range includes: white or the exact Bermuda colour required for any decorative scheme.

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technical section

| avior continued | | s | d I | s d Measured rates | s | |
|--|--------------------|-----------|-----|---|-------------------------------|---|
| ·2 mm. coloured lin | | | | 2-in. Broughton Moor slate lining FS 23 I Softwood and fixing | | |
| ixing with mastic to creed or boards | | *20 | 5 | SLATER, TILER AND ROOFER In floor and ceiling | - 11 | 1 |
| -in. red quarry tiles repared screed | laid on | *25 | 1 | Market prices In stud partitions, | purlins | |
| -in. red quarry tiles aid on prepared scre | | *28 | 3 | Welsh slates, best quality M 16-in, × 10-in, 1116 0 In hip and valley r | FC *18 // afters FC *21 | 1 |
| in. Noelite paving l | | | | 20-in. × 10-in. 2050 0 Battening and board | 11 | |
| repared bed, in rand and mixed colours | dom sizes | *20 16 | | Best hand made sand faced plain tiles, 10½-in. × 6½-in. M*340 0 Slate or tile batter 3/4 in. and nailing to | ns 1½ in. × | |
|) in 12 in analy | n seesal | | 1 | Grey corrugated asbestos cement sheets YS 7 0 | Sq. | |
| l in. × 12 in. ancho ates laid complete | | *60 | 0 | Measured rates 16-in. × 10-in. sla 6\frac{1}{2}-in. gauge | ting to | |
| ASON | | | | 16-in. × 10-in. best Welsh 20-in. × 10-in. sla | iting to | |
| arket prices | | | | slates laid 3-in. lap Sq. 300 0 8½-in. gauge | 32 | |
| one in blocks in tre stations in the Lor | | | | 20-in. × 10-in. best Welsh slates, 3-in. lap Sq. 400 0 10½-in. × 6½-in. sto 4-in. gauge | 58 | 1 |
| eer | FC | *9 | 2 | Westmorland green slates in random sizes laid 3-in. lap Sq. 550 0 12-in. gauge | antiles to | 1 |
| ortland | FC | *9 | 4 | Best hand made sand faced S.E. boarding in bar plain tiles, 10½ in. ×6½ in. laid close jointed and f | | |
| oodkirk Blue build | | 18 | 7 | to a 4-in. gauge Sq.*216 0 flat or sloping roo | | |
| oughton Moor slat | e in | | | Best hand made sand faced plain tiles, 10½ in. × 6½ in. | 75 I-in.*13 5 | 5 |
| ocks at stations in endon area | the | 55 | 0 | hung vertically to 4½-in gauge Sq.*241 0 | 99 | |
| arble in blocks at v | works: | 70 | 0 | Berkshire hand made sand faced red pantiles, 14½ in. × | ed and fixing | |
| oman stone | FC | 65 | 0 | 10 in. laid 2½-in. head and 1½-in. side lap Sq.*210 0 | 3-in.*145 | |
| easured rates | | | | Grey corrugated asbestos | I-in.*177 | 7 |
| one and all labours | in | | | roofs Sq. 123 0 2-in. wrot and cro | ss tongued | |
| lasters and quoins | FC Portland | *55 | 2 | Grey corrugated asbestos | FS 2 | |
| | Beer | *52 | 6 | cement sheets fixed vertically Sq. 133 0 $\frac{3}{4}$ -in. × 6-in. wrot | | |
| mbs | Portland Beer | | 9 | Cedarwood shingles laid 5-in. gauge Sq. 240 0 | .ia p.o. 13 | |
| ntels | FC | . 33 | | Wall and ceiling bo | oards fixed | |
| nteis | Portland | | | Metal roof decking and fixing to softwood with hook bolts, finished | YS | |
| rches | Beer | *56 | 0 | with \(\frac{1}{2}\)-in. insulation board and three layers self finish | *6 | |
| Circs | Portland Beer | | | felt roofing YS | *5 | |
| | | .00 | | 18 gauge for spans up to 10 ft. 62 0 | 4 | |
| shlar average 7-in. ith plain dressed fa | | | | 20 gauge for gin. insulating gy spans up to 8 ft. 6 in. 54 6 wallboard | psum *5 | |
| , | Portland | | | | 3 | |
| | Beer | *31 | 0 | Two layer one ply bitumen $\frac{3}{6}$ -in. asbestos cer felt and fixing with bitumen sheeting | ment flat | 3 |
| ctra for each additi | | | | to concrete or boarding YS 9 6 | 4 | - |
| ickness | Portland | *4 | | Three layer bitumen felt YS 12 7 sheeting | *10 | |
| te v 4 te ettless | Beer | *4 | 1 | Patent ribbed aluminium 2-in, Stramit, show | | 5 |
| f in. × 4 in. sill su eathered, throated rooved for water b | and | | | roofing and fixing to purlins Sq. 297 6 quality fixed to jo butt joints | *16 | |
| inted in cement m | | | 9 | CARPENTER JOINER | | |
| | Beer Artificial | | 11 | Market prices Measured rates | | |
| in. × 12 in. coping the coping th | | | | Softwood, carcassing quality Std. 1640 0 | 5 | |
| | Portland Beer | *21 | | Softwood, joinery quality Tongued and grow wood flooring and | nailing to | - |
| | A | -17 | 0 | Std. 2100 0 joists | Sq. | 2 |
| taskia and sint | Artificial | 12 | | Lin Ghee heave | ₹-in.*162 | |
| Marble and slate | | 12 | | I-in, fibre board Sq. 46 6 I-in, standard hardboard Sq. 40 0 | %-in.*102 121 1-in.*179 | 9 |



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ASSOCIATED LEAD MANUFACTURERS LIMITED

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Softwood

*3

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technical section s d Joiner continued s d 5 block flooring set in mastic Oak *5 9 3-in. steel butts Pr. and polished YS 29 5 to softwood #4 9 *6 4 to hardwood YS 31 6 European beech Double ac ion floor springs No. Shelving and fittings African Muhuhu YS 34 8 1-in. shelving of 2-in. slats *23 11 to softwood spaced I-in. apare (measured separately) FS Softwood spaced 1-in. apart on bearers Burma teak YS 36 9 to hardwood *31 11 *2 Moulded skirtings, 3-in. to 6-in. barrel bolts 6-in, sectional area planted to softwood on (per inch in sectional *2 11 to hardwood 2-in. solid shelving on FR FS bearers Cupboard locks 2 5 Softwood 3 Softwood to softwood *4 21 0 *6 to hardwood 4 10 Oak Oak 8 Cylinder night latch to softwood *7 2-in. shelf bearers plugged Extra for grounds plugged to to hardwood *10 0 FR FR to wall brickwork Softwood *10 Softwood Mortice latch 54 to softwood *6 +1 Oak Windows *8 to hardwood 2-in. rebated and moulded Mortice lock sashes divided into squares **Staircases** to softwood *7 I-in. treads and 1-in. risers tongued together on and to hardwood *10 Softwood Extra for side hanging Each Softwood Oak 11 7 including framed carriages FS Casement fastener Softwood *4 II to softwood *1 10 *3 *2 5 to hardwood Oak *14 12 10 Casement stays Doors I i-in. × II-in. wall string to softwood *1 10 to hardwood *2 5 2-in. framed, ledged and braced doors, filled in with plugged to brickwork Softwood I-in. t. and g. and V jointed boarding and hanging FS Softwood 3 Oak *12 STEEL & IRONWORKER 10 Market prices $1\frac{1}{4}$ -in. \times 9-in. outer string Four panelled door square Four panelled door both sides and hanging Fo Softwood FR Structural steel joist *3 8 Softwood sections, basis sizes, 7 0 0 ex mills T*792 6 Oak *7 8 Oak 20 Extras for other than basis sizes vary between 10s. and 70s. per ton Ends of treads and risers 14-in. Standard flush door, hardboard faced size 2 ft. 6 in. No. housed to strings Softwood Measured rates × 6 ft. 6 in. and hanging No. *44 Oak 32 5 Rsi in steel framed 24-in. × 3-in. moulded structures hoisted and Linings and frames FR fixed complete T 1625 0 *3 4 Softwood Riveted compound girders Window and door linings, 6-in. to 12-in. sectional area including plates and rivets T 1915 0 Oak Rs stanchions including caps, (per inch sectional area) 5 11 FR Softwood 11-in. × 11-in. square balusters FR Metal windows including Oak 10 cutting and pinning lugs to brickwork and bedding +9 Softwood 64 Oak frames in cement mortar No. Frames wrot all round and 2 framed (per inch sectional Domestic type 4 ft. high FR Framed ends to balusters No. Softwood 34 7 Type ND2F 3 ft. 31 in. wide *95 Softwood Type HD2F 3 ft. 31 in. wide*102 Oak *10 Mullions, transomes and sills FR (per inch sectional area) Type NDIIF 6 ft. 61 in. wide*163 Softwood Oak 10 IRONMONGER "Z" range, 4 ft. high Type ZNDI 2 ft. 03 in. wide Mouldings, architraves, etc. 4-in. to 6-in. sectional area *64 Market prices 53 FR (per inch sectional area) Type ZND4F 6 ft. 04 in. wide *164 As prices for ironmongery vary so greatly depending upon the type and quality Softwood Oak 11 10 required, no prices are quoted **PLASTERER** 6-in. window boards, I-in. thick with rounded nosing Measured rates Market prices tongued at back and includ-FR ing bearers The rates which follow are Plastering sand YC *19 6

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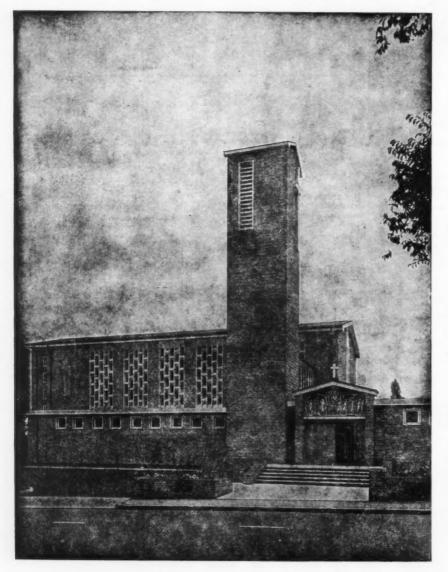
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5

Plaster to BS 1191

The ROMAN CATHOLIC CHURCH

OF ST. THOMAS OF CANTERBURY
Rainham, Kent



Architects:

E. G. Dodds and

K.C. White, A.A./R.I.B.A.

Bricks:

25" Buff Multi Rustice

Supplied through

R. Passmore & Co. Ltd.

General Contractor:

J. H. Durrant & Son.

Ibstock Buff Multi facing bricks were used for this new Roman Catholic Church because of their pleasant appearance and durability. Ibstock Facing Bricks are particularly suitable when it is desired to blend with the existing surroundings and are produced in a large range of colours.

Photograph: "The Builder" Newspaper

Send for Sample and full details

Ibstock

FACING BRICKS

IBSTOCK BRICK & TILE COMPANY LIMITED, Ibstock, near Leicester. Telephone: Ibstock 591 (3 lines)
London: L.M.R. Goods Depot, Wright's Lane, Kensington, W.8. Telephone: Western 1281 (2 lines)

technical section

RY

I.B.A.

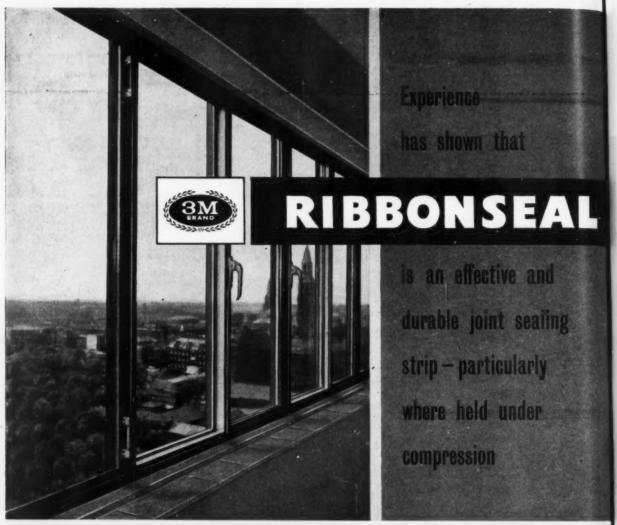
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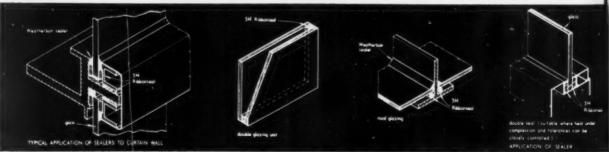
Ltd.

facing s new hurch easant bility. are en It h the and range

lines)

| Plasterer continued | | S | d | s d | 8 | d |
|--|------------------|--------|-----|---|------|------|
| Class B in loads of 2 tons to 3 tons 19 cwt. | Т | | | Sprayed "Limpet" asbestos Gutters and flashings Approximate prices for sprayed | *5 | 4 |
| Browni Fibred browni | | | 9 | "Limpet" asbestos on the 20 SWG commercial quality following surfaces to the aluminium FS | | |
| Board fini | ish l | 68 | 9 | thickness shown for Flat roofs quantities of 1,000 yds. super. Gutters and flashings | *4 | |
| in. plaster lath, over 600 yds. | YS | 2 | 3‡ | Normal pressed finish. New concrete soffits and beams YS Rainwater gutters and pipes beams | | |
| in. \times 6 in. \times 6 in. white lazed wall tiles | YS | 17 | 0 | 1-in. 14 5 la-in. cast iron half round eaves gutter jointed and fixed to fascia with brackets FR | | |
| | | | | New structural steelwork | 3 | 6 |
| Measured rates | | | | YS 4-in. 16 6 | 5 3 | 7 |
| Metal lathing | | | | 1-in. 21 9 18 gauge pressed steel half | | • |
| No. 24 gauge expanded med athing and fixing | | | | Extra over the above prices 4-in. | | 11 |
| To softwood sof | | *6 | | for coloured texture finish YS 3 5 6-in. | 4 2 | |
| | | 4 | 3 | Wall tiling | 2 | 0 |
| To me | etal | *7 | 8 | 6 in. × 6 in. × ½ in. standard Asbestos cement half round eaves gutter FR | | |
| | | 4 | 3 | quality white glazed wall tiles set and jointed on 4-in. | | 11 |
| Lime plaster | | | | prepared screed YS *42 0 6-in. | 4 | 2 |
| Render float and set on bri | ick YS | *7 | 5 | Egg shell matt or glossy Aluminium half round | 2 | 7 |
| walls and partitions | 13 | 2 | 3 | glazed enamelled tiles YS *59 4 eaves gutter FR 4-in. | 3 | 11 |
| R.F. and S. on concrete | | | | 7-10. | | 8 |
| including hacking | YS | *9 | 3 | EXTERNAL PLUMBER Cast iron medium section | | |
| R.F. and S. on expanded | | _ | | Market prices rain water pipes jointed and fixed to walls with pipe nails | | |
| metal lathing | YS | *7 | | Sheet lead, 3½ lb. and 3-in. | *5 | 11 |
| | | 2 | 4 | upwards, in quantities of 5 cwt. to 1 ton C*114 9 4-in. | 4 | 5 |
| Gypsum plaster | | | | Copper sheeting, 23 gauge, | 5 | 7 |
| Render in cement-lime-san (I: I: 6) and set in gypsur | | | | in i-ton lots C*350 0 Pressed steel FR | 4 | 6 |
| plaster on brick walls and partitions | YS | *5 | 11 | Zinc sheeting, 14 gauge, in 1-ton lots C*128 0 4-in. | 3 | 0 |
| | | | 11 | Aluminium sheeting 20 SWG C | 4 | |
| Render in gypsum fibred | | | | Super purity*522 8 Asbestos cement FR | | |
| browning-sand (1: 1½) and set in gypsum on concrete | | | | 5-III. | 2 | 10 |
| soffits including bonding coat | YS | *9 | 7 | Cast iron rainwater and soil goods 4-in. | *4 | 111 |
| | | | 7 | Medium weight pipe to Aluminium FR | | , |
| Render and set on expand | led | | | BS 416 and BS 460 in 6 ft. lengths No. | | |
| metal lathing including pricking up coat | YS | *9 | .1 | 2½-in. 18 10 4-in. | . 7 | 1 2 |
| | | 3 | 11 | 4-in. 26 10 | | 5 5 |
| Plaster board | | | | Half round gutter in 6 ft. lengths No. Soil and ventilating pipes | | |
| | | | | 31-in. 7 11½ 4-in. 10 4 Lead soil, waste and ventilat- | | |
| in. gypsum plaster lath fixed to softwood soffits | | | | 6-in. 16 11 ing pipes (15 lb. per yd. for | | |
| finished to receive plaster | YS | | 10 | prices plus 221%. 4-in. diameter) fixed to walls | | |
| Gypsum board finish setti | ing | | | Measured rates with lead tacks FR | . *1 | |
| coat on last | YS | *4 | 5 2 | Milled sheet lead C 4-in | . *1 | |
| N | | , | 2 | Flat roofs*201 0 | | 0 3 |
| Plain face | | | | Gutters and flashings*201 0 Cast iron soil, waste and ventilating pipes with caulked | | |
| | 1 | | | Flat roofs *6 joints fixed to walls with pipe | | |
| 1-in. Portland cement and sand (1:3) plain face | | | | Gutters and flashings *6 I nails Fi | - | 7 3 |
| sand (1:3) plain face trowelled smooth on brid | | 1 11/4 | | 23 SWG copper sheet FS | v 4 | 5 2 |
| sand (1:3) plain face | YS | | 10 | | / | 8 10 |
| sand (1:3) plain face trowelled smooth on bric walls | | | | | , | 6 |
| sand (1:3) plain face trowelled smooth on brid walls | YS | | | Flat roofs *6 II Gutters and flashings *6 II 14 gauge zinc FS Asbestos cement soil and | | |
| sand (1:3) plain face trowelled smooth on bric walls Tyrolean rendering Render in cement, lime s (1:1:6) and finishing wi | YS and ith | , | | Flat roofs *6 II Gutters and flashings *6 II I4 gauge zinc FS Flat roofs *3 8 Gutters and flashings *3 8 With holder bats Fi | R | 6 |
| sand (1 : 3) plain face trowelled smooth on brid walls Tyrolean rendering Render in cement, lime s | YS and ith | , | | Flat roofs *6 II Gutters and flashings *6 II I4 gauge zinc FS Flat roofs *3 8 Flat roofs *3 8 | R | |





RIBBONSEAL is one
of the range of 3M
adhesives and sealers for
the building industry

3M Brand RIBBONSEAL Joint Sealing Strip is a synthetic rubber sealer which provides an effective and durable waterproof seal where it can be held under compression and tolerances closely controlled.

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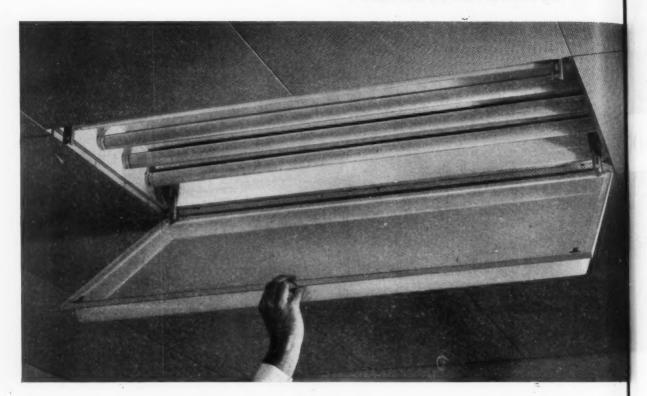
iter 5

technical section

| s d | | s d | | | , |
|---|---|----------|--|-----|-------|
| INTERNAL PLUMBER | Flushing and warning pipes | 3 U | Medium mateta a trace | | d |
| Market prices | fixed to softwood FR | | Medium weight tubing fixed to walls FR | | |
| Lead pipe in quantities of | ‡-in. 4 | 3 7 | ⅓-in. | 2 | 10 |
| 5 cwt. to 1 ton C BS 602*117 0 | I-in. 5 | 2 0 | ₫-in. | 3 | 0 |
| BS 1085*124 0 | 14-in. 6 | 5 7 2 6 | I-in. | *3 | |
| Polythene tubing, heavy gauge, in quantities of 500 | 1½-in. 7 | 6 1 2 10 | 1 ½-in. | | 10 |
| to 999 ft. per 100 ft. | \M/a | | I ½-in. | *5 | 0 |
| 1-in.*152 6 | Waste pipes and fixing to softwood FR | | Europe Comments and a second | 2 | U |
| Ĩ-in.*194 6 | 14-in. 6 | 5 7 2 7 | Extra for malleable iron: Bend No. | | |
| Steel tubes to BS 1387 medium weight galvanised FR | 1 1 -in. 7 | 3 0 | I-in. | *5 | 1 |
| 3-in. 0 9 1-in. 1 1 | Joints to fittings No. | | 1 <u>1</u> -in. | *7 | |
| I | | 6 3 | l ⅓-in. | *9 | 4 |
| The above are Standard List prices less 363%. | ∳-in. | 1 5 | 1-111. | 6 | 5 |
| Galvanised malleable fittings. | ₫-in. | 7 1 2 2 | Tee No. | | |
| Bend No. | I-in. | 7 6 2 10 | | | |
| -in. *2 8½ -in. *4 | I‡-in. | 8 3 7 | 1-in. | *3 | 0 |
| Tee No. *5 10 | l <u>‡</u> -in. | 9 0 | ₹-in. | *3 | 4 |
| ‡-in. *0 113 2-in. *1 44 | Eveter form | , , | I-in. | *4 | 0 |
| Î-in. *1 11⅓ 1⅓-in. *2 8∜\$ | Extra for: Bend No. | | I ‡-in. | *5 | 6 |
| The above are Standard List | l ⅓-in. l ⅓-in. | 2 9 3 10 | I ½-in. | *6 | |
| rrices less 26%, less 64% plus | | | | 4 | 3 |
| 40%. Copper tubes to BS 659 FR | Branch joints No. | | Copper tube | | |
| ½-in. *i 0½ 2-in. *i 5½ 1-in. *2 3 | <u></u> -in. | 7 11 | Copper tube to BS 1386 as | | |
| 11-in. *2 81/2 | ₹-in. | 9 1 | supply pipe laid in trench (measured separately) to the | | |
| The above are calculated on a basic price of 2s. 7½d. per lb. | I-in. | 2 2 9 6 | following size and gauges FR | 2 | 2 |
| plus C.T.A. extras. | I ½-in. I | 2 10 | <u>₹</u> -in. 17 | 3 | 4 |
| Measured rates | | 3 7 | I-in. 16 | 2 | 2 2 2 |
| Lead pipe to BS 602 | 1 T-111. | 4 3 | 11-in. 16 | 3 | 2 |
| Main supply and laying in trench (measured separately) | Polythene tubing to BS 1972 | | | 4 7 | 3 |
| at the following sizes and weights in lbs. | Heavy gauge as supply pipe | | 14-in. 15 | 5 | 6 |
| ½-in. 7 *3 II 2 10 | separately) FR | | Copper tube to BS 659 as | | |
| 4-in. 11 *5 9 | | 1 8 | distributing pipe fixed to walls FR | | |
| 1-in. 16 *8 0 | ₹-in. * | 2 2 | ½-in. 19 | 2 | 3 |
| 14-in. 28 *13 7 | I-in. * | 2 8 | 3-in. 19 | 2 | 9 |
| 14-in. 35 *17 5 | | 2 3 | 1-in. 18 | 3 | 8 |
| 14 0 | Heavy gauge as supply or distributing pipe fixed to | | 14-in. 18 | 2 | 7 |
| Main supply fixed to walls and ceilings FR | walls FR | 2 6 | 1 1 -in. 18 | 3 | 0 |
| 1-in. 7 *4 6 2 11 | | 1 4 | | 3 | 7 |
| 1-in. 11 *6 5 | • | 1 10 | Extra for brass compression | | |
| I-in. 16 *8 9 | | 3 6 2 4 | fittings joining copper to | | |
| 11-in. 28 *14 4 | Galvanised steel tubing to BS 1387 | | copper No. | | |
| 1±in. 35 *18 9 | Heavy weight with screwed red | | Coupling 1-in. | 5 | 3 |
| Distribution pines fixed as | lead joints as supply pipe | | 3-in. | 6 | 4 |
| Distributing pipes fixed to walls and ceitings FR | laid in trench (measured separately) FR | | I-in. | | 0 |
| 1-in. 4 *3 3 | | 2 9 | I ‡-in. | 11 | 10 |
| 3-in. 5 *3 9 2 2 | | 3 2 | I‡-in. | 7 | 7 |
| I-in. 7 *4 11 | I-in. | 3 4 | | 11 | O |
| 14-in. 9 *5 9 | 1 4-in. * | 3 11 | Bend ‡-in. | 6 | 4 |
| 1±-in. 12 *7 6 | 1 1 -in. *. | | ₫-in | 7 | 11 |
| 5 3 | | 2 2 | | , | 6 |

A L L O M H E F F E R

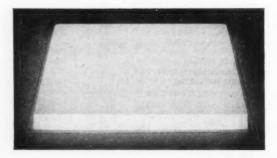
AND COMPANY LIMITED



The recessed fittings illustrated are made in various sizes and incorporate a completely new method of securing simple maintenance by means of the Allom Heffer patent locking device (Patent Application No. 32933/59) which provides:

- A positive method of opening and shutting on a pull-push principle.
- Hinging on either side of the fitting when fully clear of the ceiling.
- Complete detachment of the diffuser when required.

Apply for Brochure series 707



technical section

| nternal plumber continued | s | d | and glazing with mastic for | 2 | d | | 8 | d |
|--|------|------|--|-----|---------------|--|----|-----|
| I-in. | 8 | 3 | beads (supplied). In panels 16 to 40 ft. super FS | | | Add for each additional coat | | 3 |
| 14-in. | 10 | 6 | 32 oz. sheet | 0 1 | | Prepare, prime and apply one | | |
| l ⅓-in. | 23 | 11 | Patent glazing | | | coat heat-resisting paint on heating surfaces of radiators | | |
| Tee $\frac{1}{2}$ -in. | 9 | 4 | | | | YS | *4 | 2 |
| ₹-in. | 10 | 10 | Patent glazing with rolled steel lead capped bars for | | | Basis price | 1 | 4 |
| 1-in. | 15 | | 8-ft. spans and glazing with 1-in. Georgian wired cast FS | 4 | 10 | Add for each additional coat | *1 | 8 |
| 14-in. | 21 | 6 | Aluminium alloy patent | | | On wood | | |
| ! <u>↓</u> -in. | 32 | | glazing FS ⁴ | 4 | 9 | Knot, prime, stop and apply | | |
| | 26 | 5 | PAINTER | | | one coat oil colour on general surfaces YS | | |
| LAZIER | | | Market prices | | | Basis price | *4 | 8 |
| Market prices | | | Washable distemper C 1 | 20 | 0 | Add for each additional coat | í | 8 |
| | | | | | 0 | | | 10 |
| heet glass cut to size FS 24 oz. | | 111 | | 13 | 0 | On work not exceeding 3-in. girth YR | | |
| 32 oz. | *1 | 61 | Hard gloss paint: Gal. Undercoat | | 0 | Basis price | | 6 |
| -in. Polished plate glass, lazing quality in plates | | | Finishing | 46 | 0 | Add for each additional coat | | 2 |
| ot exceeding: FS 2 ft. super | | | Measured rates | | | For each additional 3-in. | | |
| 5 ft. super 45 ft. super | 5 | 7 | On walls and ceilings YS | | | girth YR Basis price | | |
| 100 ft. super | | | Twice whiten plastered ceilings | *1 | 6 | | | 1 |
| olled plate glass FS | . *1 | 21/2 | | | 3 | Add for each additional coat | | 2 |
| 1/4-in. rolled plate | 6 | | Two coats distemper on | +2 | - | Stain and varnish | | |
| ttention is drawn to | | | plastered walls or ceilings | *2 | 0 | Prepare, size, stain and twice | | |
| eduction in certain glass rices offered by manufac- | | | Two coats distemper on | | | varnish on general surfaces of woodwork YS | *4 | |
| urers for acceptance of pecified minimum quantities | | | fair-faced brick or concrete walls | *2 | 9 | | Ī | 5 |
| of one size and substance delivered to one address at | | | | 1 | 3 | On work not exceeding 3-in. | | 7 |
| one time | | | Two coats emulsion paint on walls or ceilings | *2 | 11 | girth YR | | i |
| Measured rates | | | wans of centings | | 8 | For each additional 3-in. | | |
| Glazing to wood | | | Prepare, prime and apply one | | | girth YR | | 6 |
| Ordinary quality sheet glass | | | coat oil colour on plastered walls | | 11 | Oiling and polishing | | |
| and glazing with putty in | S | | 4416 | 1 | | Twice oiling general surfaces | | |
| 24 oz. O.Q | . 1 | 6 | Add for each additional coat | *1 | 10 | of hardwood with linseed oll YS | 2 | 2 7 |
| 32 oz. O.Q | . 2 | 1 | On metal | | | | 1 | 1 |
| in. rolled plate glass | | 8 | | | | On work not exceeding 3-in. | | |
| f-in. rough cast glass | 1 | 2 1 | Prepare, prime and apply one coat oil colour on general | | | girth YR | | 1 |
| Prismatic glass | 1 | 2 9 | surfaces YS Basis price | *3 | 8 | For each additional 3-in. | | |
| 1-in. wired glass | | 2 5 | Add for each additional coat | 1 | 6 | girth YR | | |
| 1-in. Georgian wired | | | | | 10 | Staining and wax polishing | | |
| plate glass | | B 4 | On metal casements YS | ** | 11 | general surfaces of hardwood FS | 1 | 1 |
| 4-in. Polished plate glass | | | Basis price | - 1 | 6 | Carlalan kadalan ta adalah | | |
| (glazing quality) in plates 5 to 45 ft. super | | 8 7 | Add for each additional coat | -1 | 10 | Staining bodying-in and fully French polishing on general | | |
| Glazing to metal | | | On bars, angles etc., not | | | surfaces of hardwood FS | | 2 |
| Add to above rates 1d. | | | exceeding 6-in. girth YR Basis price | * | | Papering | | |
| per ft. super | | | Add for each additional coat | | 3 5 | Preparing and sizing walls | | |
| Sundries | | | | | 2 | and hanging plain lining | *1 | 1 |
| Hacking out broken sheet glass | 2 | 1 3 | On small pipes YR Basis price | * | 1 0 | | | 3 |
| Black ribbon velvet and bedding to edge of glass | R | 8 | Add for each additional coat | | 5 2 | Hanging wall paper, p.c. 10s. per piece Piece | | 2 |
| Double glazing | | | On large pipes YR | | | Hanging border p.c. Is. per | | |
| Insulight units of two skins | | | Basis price | * | 2 0 | yd. Yf | 1 | 1 |

The Brandon Estate at Southwark, where FF Joints have been used to complete the plumbing installation for this 18-storey block of L.C.C. flats.



The | Joint

accepted by over 100 Local Authorities
The established development
for all plumbing systems

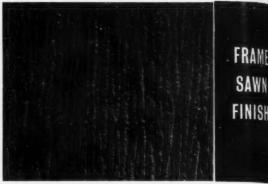
Literature is available showing the FF Joint's many applications in all types of plumbing layouts for multi-storey flats and two-storey houses including the Single Stack System.

The FF Joint is a Federated Foundries product.

Please write direct to the Technical Advisory Department at any of the following suppliers, and order through your normal trade channels:

Thomas Allan & Sons Ltd., Thornaby-on-Tees. Grange-Camelon Iron Co. Ltd., Falkirk. Cameron & Robertson Ltd., Kirkintilloch, Glasgow. David King & Sons Ltd., Skipton, Yorks. Walter Macfarlane & Co. Ltd., Glasgow, N.2. Southern Foundries Ltd., Waddon, Croydon.

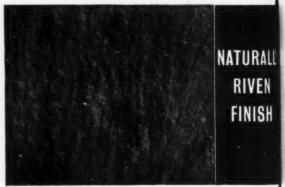
Lasting beauty



in Broughton Moor



Green Slate



Technical pamphlets showing typical methods of fixing are available on application:

Flooring 2. Facings. 3. Coping. 4. Cills
 Riven Face Slabs.

In three distinct colours: Light Sea Green, Olive Green and Pale Green

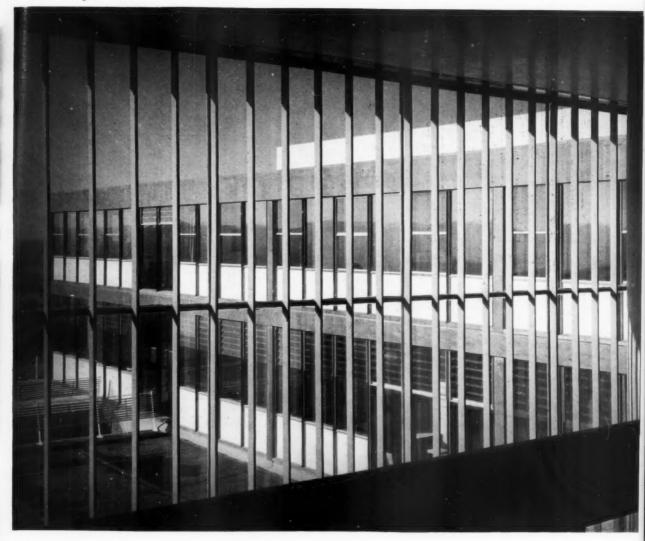
Broughton Moor

CONISTON, THE LAKE DISTRICT, LANCS. Tel: CONISTON 225

working detail

WINDOW: HOSPITAL IN SWINDON

Powell and Moya, architects



The original purpose of the fin-like mullions of this window was to direct the gaze of those inside towards the magnificent distant view. This purpose has not been perfectly fulfilled, but the window remains an interesting example of detailing in steel. The steel members are sufficiently slight to give the open-air sense which comes from structure-to-structure glazing, yet they are sufficiently frequent and substantial to make an architectural plane and not merely a void.

ty

FRAME SAWN FINISH

-001

URALI IVEN Nish

ods ation: Cills

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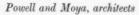
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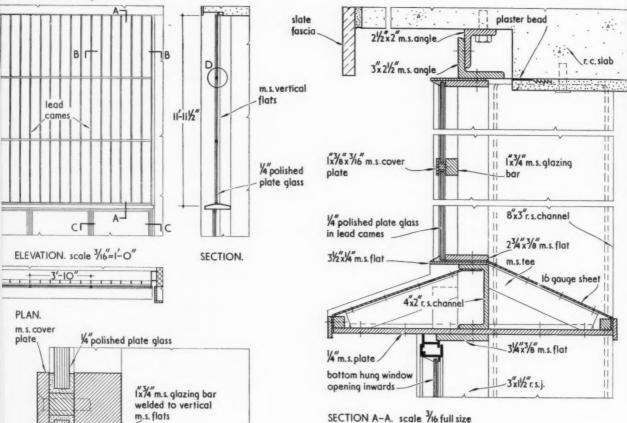
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working detail

WINDOW: HOSPITAL IN SWINDON

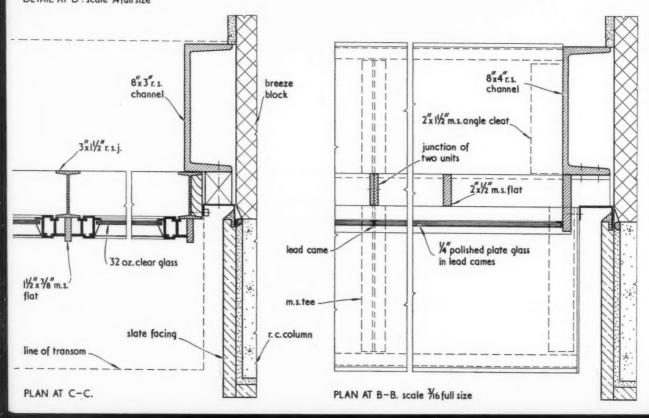




DETAIL AT D . scale 34 full size

2"x1/2" m.s. vertical

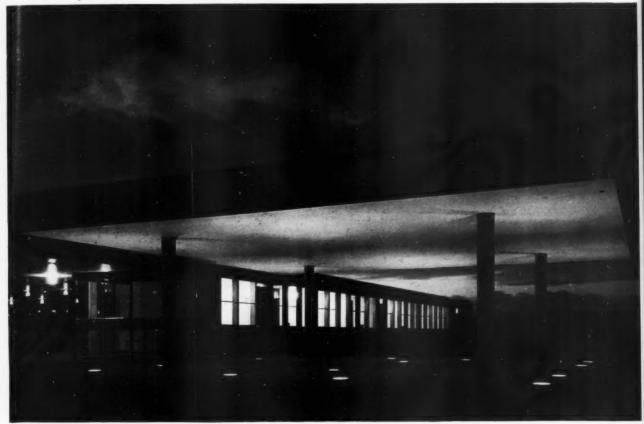
flat



working detail

FLOOR LIGHTS: HOSPITAL IN SWINDON

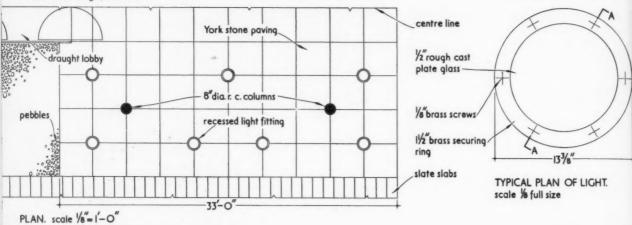
Powell and Moya, architects

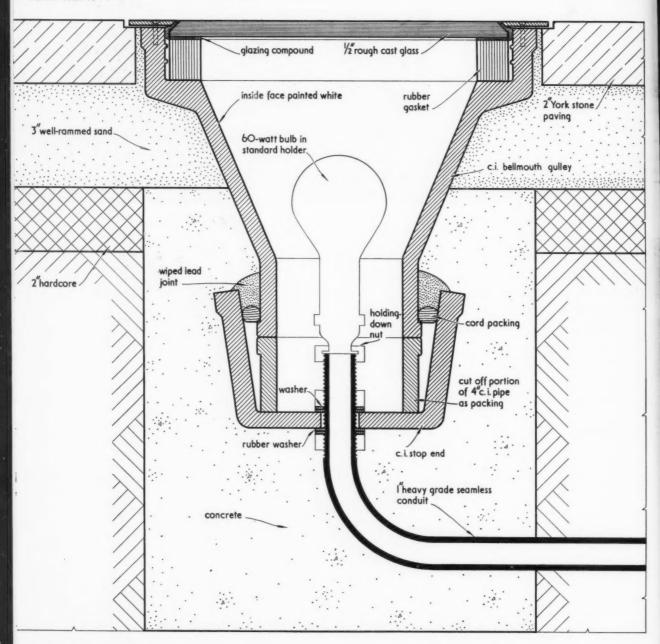


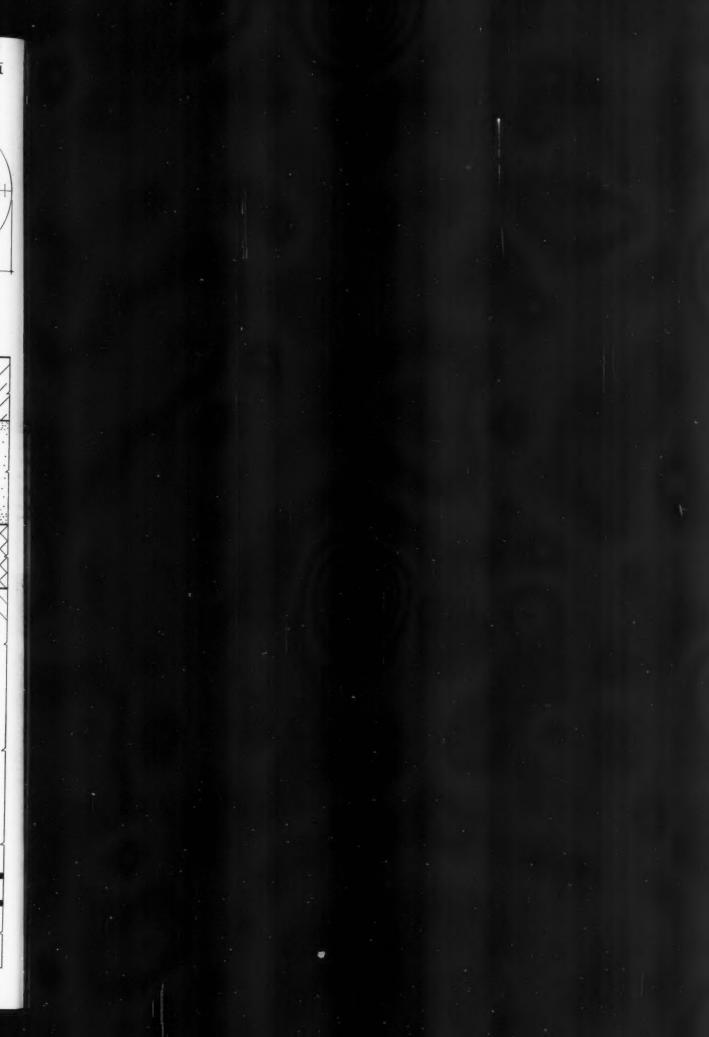
This ingenious adaptation of standard cast-iron drainware enables an exceedingly sophisticated lighting effect to be obtained at modest cost. Though the fact is of no practical and only slight visual importance, most of the ½-in. rough cast glass covers have cracked and some stronger material in this position is called for. working detail

FLOOR LIGHTS: HOSPITAL IN SWINDON

Powell and Moya, architects



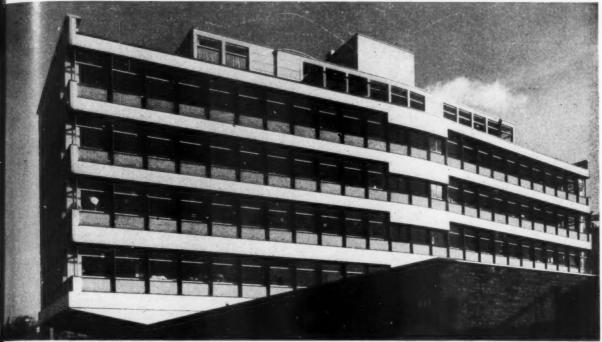




Ford M Portland Corpora Hackne Tydfil Box Co of Wale

SRON

SCHOOL EQUIPMENT CENTRE LAMBETH



won's new School Equipment Centre in Kennington Lane, Lambeth, replaces premises scattered all over London, and provides all nds of equipment for the schools. It has been designed by Hubert Bennett, architect to the LCC, on a "propped-cantilever" system construction in reinforced post-stressed concrete, so that it could accommodate 60-ft. long display galleries showing the best prize ks, films, pictures and apparatus to teachers coming to select their requirements. The building contains offices, workshops and kilns, ol maintenance facilities and stockrooms.

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relations. Specifications which include this personalised, money-saving equipment will earn for any architect the appreciation of managements and

employees alike.



CABINET SYSTEM

teamed with toilet tissue

Locking steel cabinets in green or white, each holding 150 large, strong, absorbent paper towels.



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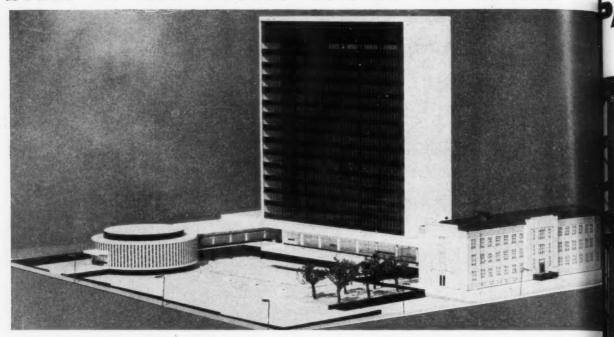
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Hackney Borough Council · Hoover (Washing Machines) Ltd., Merthy
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MODEL OF NEW COUNTY OFFICES FOR LANARK



Lanark will have the most up-to-date county buildings in Scotland when these new buildings, designed by D. G. Bannerman, consarchitect, (consultant engineer, W. V. Zinn), are completed. Clearance of the 3.7-acre site starts in June, apart from the block of our offices built in 1936 seen on the right. The scheme consists of a 17-storey office block with extended ground and first floors are 2-storey wing at right angles to the tower, linking it with the circular council chamber on the left. The tower will provide 93,000 sq. of office accommodation, designed for sub-division by movable unit partitions; its north and south elevations will consist of another aluminium curtain walls with glass infill panels—all fixed as the building will be air conditioned throughout.



Wherever the sign of Howard Far appears, there is work in progress. This photograph illustrates the

factory and office buildings, engineer services, external roads and other wo for Corocraft Ltd., at Crawley Indust Estate.

Work in progress includes sewer tunnelling, concrete structures, factor and domestic buildings.

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PROJECT The photograph shows a view of the Soaking Pit Building in course of erection. This is one of several buildings which were designed, fabricated and erected by Joseph Parks and Son Ltd. for the Durgapur Steel Project in India.



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Until there is a British Standard for lorries, the loading dock itself must move to fit varying heights—and that means a Hunter counterbalanced loading ramp. Lewis Berger (Great Britain) Ltd., like most big manufacturers, run a mixed fleet of transport, and so in their new Chadwell Heath Warehouse they have incorporated Hunter ramps in the loading dock. The famous 'Bergermaster' paints, in pallet loads of 15 cwt to 1 ton, are trolleyed straight on to road vehicles—whatever their height.

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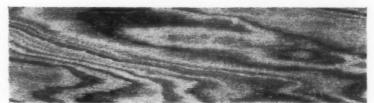


Tiama



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IN



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The construction of this plywood panelling has not only produced strength, but an effect of deep rich graining which could only be expected from solid planking. The eight species now available have such a wide range of tone and colour that one or more may be used in any pre-planned scheme of decoration. The problem of obtaining a satisfactory finish when the panels have been fixed does not arise as these genuine hardwoods come already pre-finished. Another special feature is the unique tongued and grooved fixing technique, which eliminates all face milling and facilitates application.

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All panelling is 8ft. long, \(\frac{1}{2}\) in. thick and of random widths.

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AT4a Technical details, N.P.L. Report, and extract

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ATH2 Radiantly heated by hot water.

ETH1 Radiantly heated by electricity.

AT7 Module sizes, introduction to Motif Tile.

This notice from

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AT8 Fire report on Radiantly heated ceiling.

FILE Introduction to the new Burgess Ribtile.

SHEETS 1 TO 4 Details of Burgess suspension system.

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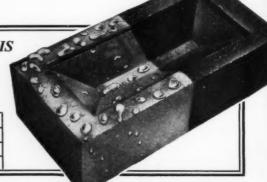
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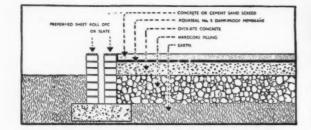
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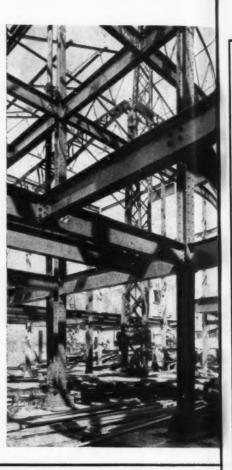


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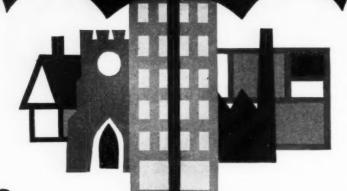
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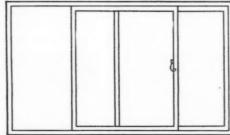
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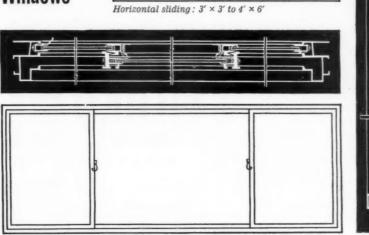
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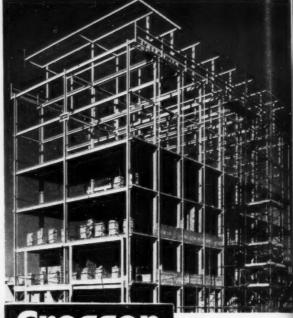
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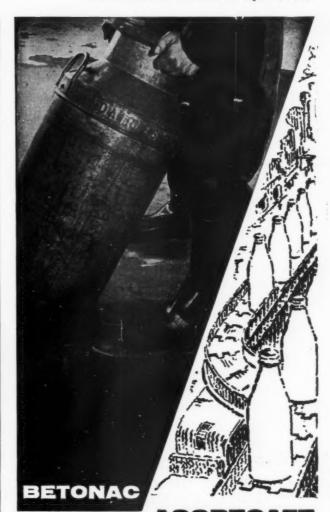




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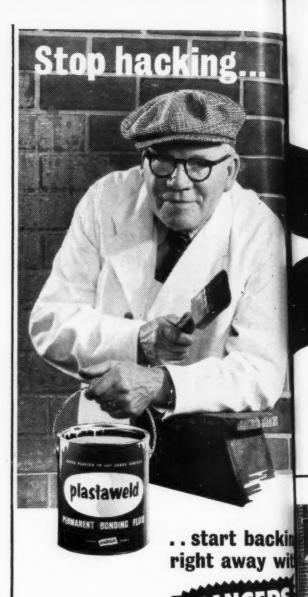
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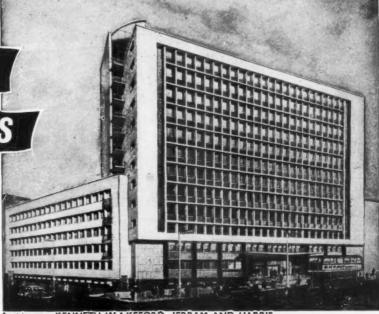
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THE ARCHITECTS' JOURNAL for April 7, 1960



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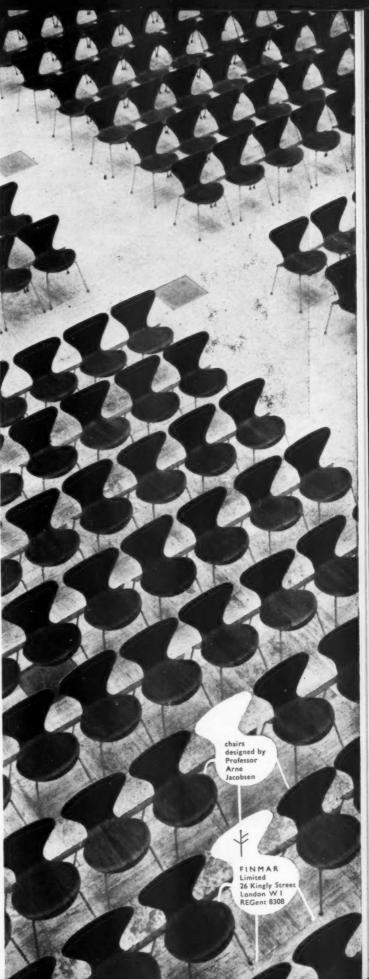
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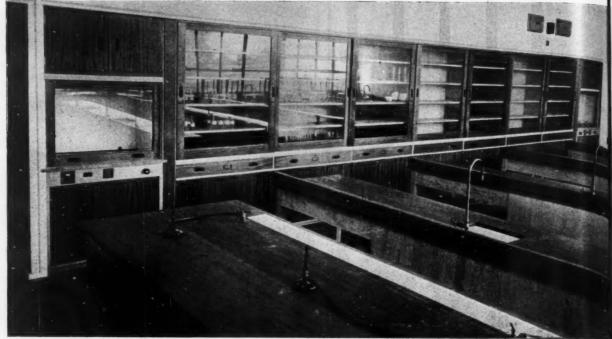
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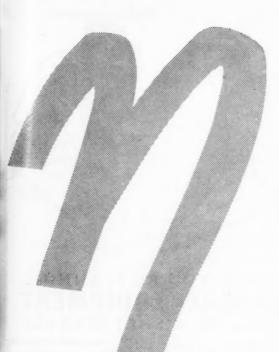
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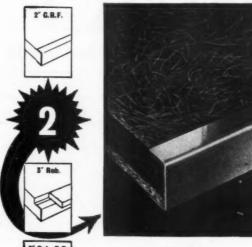
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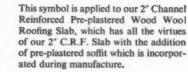


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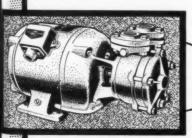
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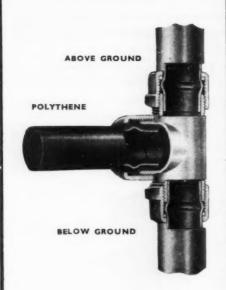
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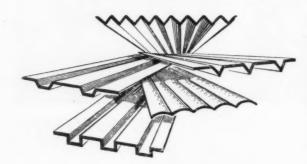
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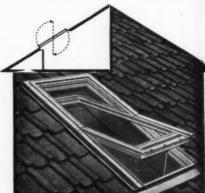
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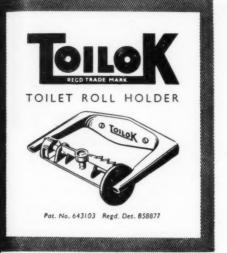
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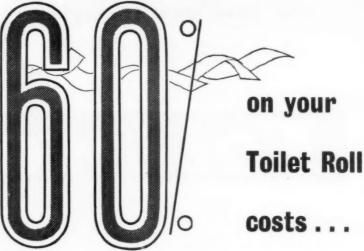
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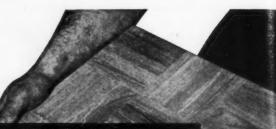
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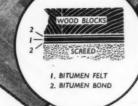
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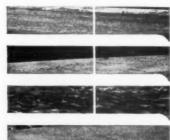
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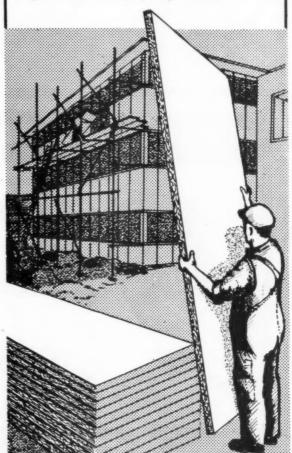
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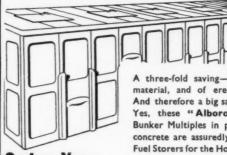
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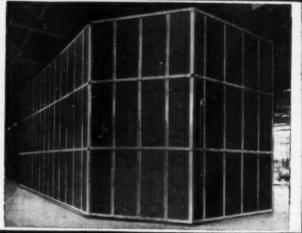
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CLASSIFIED ADVERTISEMENTS

pertisements should be addressed to the Advt. mager. The Architects' Journal," 9, 11 and 13, sen Anne's Gate, Westminster, S.W.1. Normal nting arrangements have been altered to allow the Easter holiday. The latest dates for eight advertisements for the April issues as follows:—

, as joutous:— | 11 | 4 issue—Thursday, April 7. | 12 issue—Tuesday, April 22. | 12 issue—Friday, April 22. | 12 issue—Friday, April 22. | 12 issue—Friday, April 22. | 13 issue—Friday, April 22. of "T

intendable.

IR.MAII. SERVICE available on request. Is response to requests from a number of Overseas wherehers for air-mail delivery of Public and Official Appointment details and Other Appointment Secant, we have been pleased to arrange that cuttings of all such classified advertisements opporting in the A.J., shall be despatched by air-sail on Wednesday of each week (one day prior b.J. publication date). The cost of this special grice to Overseas subscribers will be S. for low weeks (1s. 3d. for each additional week) and appayment should be sent by subscribers wishing in take advantage of this service. The charge we amaking represents only the actual cost of the value involved.

Public and Official Announcements

BOROUGH OF ENFIELD
BOROUGH OF ENFIELD
BOROUGH ENGINEER & SURVEYOR'S
DEPARTMENT
Applications are invited for the post of 180HTECTURAL ASSISTANT, Grade A.P.T. I (300-2756 per annum, plus a London Weighting 410wance of £10-£30 per annum according to 420.

illowance of £10—£39 per annum decoration (at the control of the c

Architect's Department, L.C.C., has vacancies a Building Regulation Division and District Surveyors Service for work in connection with applications under London Building Acts and yelaws. District Surveyors' Offices are located a Metropolitan Boroughs and work involves negotiations with developers and supervision of works in progress.

hallons with developers discommending according to qualifications and experience. Application mm and particulars from Hubert Bennett, FR.I.B.A., Architect to Council (EK/AJ/494/4a), county Hall. S.E.I. 9076

mits Hall. S.E.1.

CORPORATION OF GLASGOW
ARCHITECTURAL AND PLANNING
DEPARTMENT
ASSISTANT ARCHITECTS

ASSISTANT QUANTITY SURVEYORS
Vacancies exist for a number of qualified assistants as above. Salary scale £795—£1,240 with placing according to experience.
Applications should be addressed to the City therefore and Planning Officer. 20, Trongate, Glasgow. C.I. Those who have submitted applications during the past 12 months should not reply to this advertisement.

A. G. JURY.

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A. G. JURY.
City Architect and Planning Officer.

RCHITECTS AND BUILDING SURVEYORS
Vacancies in Architect's Department, L.C.C.
for Architects or Building Surveyors experienced
is surveying existing buildings, preparing sketch
shemes, working drawings and specifications
and supervising works in progress, for the comblete internal replanning and modernisation of
the older blocks of Council flats (jobs up to
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and supervising side internal replanning and modernisation in the older blocks of Council flats (jobs up to \$50,000).

Applicants should have initiative, a real interest in this type of work and ability to act on their own judgment since the maximum opportantly will be afforded for each to carry his many job through from survey to completion. Staries range \$700-£1,135\$ (under review). Promotion by merit. \$700-£1,135\$ (under review). Promotion by merit. \$1.135\$ (under review). Application to from from Hubert Rennett. \$1.18.A. Architect to Council (EK/AJ/620/4a). Omnty Hall. S.E.1.

RETROPOLITAN BOROUGH OF BATTERSEA Applications are invited for the following remanent annointments:—

A.P.T. Grade III \$280-£1.065 per annum. (i) ARCHITECTURAL ASSISTANT—

A.P.T. Grade III \$280-£1.065 per annum. London Weighting \$10-£30 per annum. according to age, also navable. For appointment (i) applicants should be registered architects or have passed the final R.L.B.A. Examination and have had several years thorough affice experience. Previous Local Government experience is not essential. The commencing slary will be according to qualifications and experience.

Further particulars and application forms.

Entrience.
Further particulars and application obtainable from the Borough Engineer and reyor. Town Hall, S.W.11. Closing date

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Applications are invited for:—
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Plus appropriate London weighting in all cases, 21-25 years, £20 p.a.; 25 years and over, £30 p.a. Preference will be given to candidates for (a) who have passed the examination for Associateship of the R.I.B.A. and who must be capable of preparing sketch designs, full working drawings, specifications, supervision of building contracts, etc. Applicants for (b) should have passed the Internediate examination of the R.I.B.A. and must have good general architectural experience. Fiveday week. Housing accommodation if required will be made available for (a) and for one of the appointments (b). Further particulars and conditions of service and form of application obtainable from the undersigned, which when completed must be returned by 19th April, 1960.

GEORGE HOOPER, Clerk and Solicitor.

Town Hall, Plus appropriate London weighting in all cases

Town Hall, Hayes, Middlesex.

COUNTY BOROUGH OF DUDLEY
ASSISTANT ARCHITECT
A.P.T. SPECIAL GRADE (2795-£1,075)
Applications are invited for the above peranent appointment in the Borough Architect's

manent appointment in the bovens
Department.

Applicants must be A.R.I.B.A., and the commencing salary will be according to qualifications and experience.

The successful applicant will be required to
pass a medical examination.

Applications, stating age, details of training,
qualifications and experience, present and previous appointments and salary, together with the
names and addresses of two referees, must be
received by me by Thursday, 21st April, 1960.

P. D. WADSWORTH.

Town Clerk.

The Council House, Dudley, Worcs. 24th March, 1960.

9329

Worcs.

CITY OF HALIFAX.

NOVA SCOTIA. CANADA

PLANNING ASSISTANT

Urgently required to assist in work on an extensive redevelopment programme and master plan for the City. Candidates to this new post should be qualified planners or have experience in planning work. Additional qualification in architecture would be an advantage.

Salary range \$4.455 to \$5.632, plus 5% per annum depending on qualifications and experience. Help in defraying travelling expenses from overseas a strong possibility for the successful candidate. The work will include design for commercial and residential renewal of the central areas and preparation of master plan for the whole of Halifax. It will offer excellent opportunities to the successful candidate for progressive planning work and professional advancement.

Apply by Air Mail enclosing a recent photograph and stating age, marital status, education, training, details of experience, names and addresses of three references and when available to K. M. Munnich, D.A., S.P.Dip, A.R.I.B.A., A.M.T.P.I., Director of Planning, City Hali, Halifax, Nova Scotia, Canada. Persons who have already replied to previous advertisements need not apply again. Their applications will be automatically reconsidered.

THE BURAL DISTRICT COUNCIL OF

THE RURAL DISTRICT COUNCIL OF GODSTONE

CHIEF ARCHITECTURAL ASSISTANT
Applications are invited for the above appointment in the Engineer & Surveyor's Department at a salary in accordance with A.P.T. Grade V of the National Scales (£1.220-£1.375 p.a.). A car allowance on the essential user basis (not exceeding 10 h.p. or 1.199 c.c.) is payable.
The Council have a varied and interesting building programme on hand, including blocks of 3-storey shops and flats, aged persons' flats, and various other building projects, including a community centre.
The appointment will be subject to: (i) the provisions of the Local Government Superannuation Acts, (ii) The National Scheme of Conditions of Service, (iii) one month's notice in writing on either side.
The Council will assist in the provision of housing accommodation, if required.
Applications stating age, qualifications and experience, together with the names and addresses of two persons to whom reference may be made should reach the under-signed not later than the 13th April, 1960.

M. HAWORTH, Clerk of the Council.

LONDON COUNTY COUNCIL
ARCHITECTURAL DRAUGHTSMEN
Unqualified ARCHITECTURAL ASSISTANTS
required in Housing Division, Architect's
Department. Candidates must have drawing
board experience in an architect's office. Preference to those proposing to qualify by evening study though others will be considered. Full
programme of new work. Promotion opportunities, Starting salaries according to age and experience. Form and particulars from Hubert
Bennett. F.R.I.B.A., Architect to Council
(EK/AJ/619/4a), County Hall, S.E.1. 9154

CITY OF LEEDS
CITY ARCHITECT'S DEPARTMENT
Applications are invited for vacancies in the following grades:—

Applications are invited for vacancies in the following grades:—

1. SENIOR ASSISTANT ARCHITECTS Grade APT.V (£1,620—£1,375).

2. SENIOR ASSISTANT ARCHITECTS Grade APT.V (£1,050—£1,220).

3. ASSISTANT ARCHITECTS Grade APT.II (£306—£1,220).

4. ASSISTANT ARCHITECTS Grade APT.III (£306—£1,065).

4. ASSISTANT ARCHITECTS Grade APT.II (£765—£380).

5. ARCHITECTURAL ASSISTANTS Grade APT.II (£765—£380).

4. ASSISTANT ARCHITECTS Grade APT.II (£765—£380).

5. ARCHITECTURAL ASSISTANTS Grade APT.II (£765—£380).

4. APPLICATE ASSISTANTS Grade APT.II (£760—£765).

Applicants for Posts Nos. 3 and 2 should be fully qualified and members of the R.I.B.A. Applicants for posts Nos. 3 and 4 should preferably have passed the intermediate R.I.B.A. examination. The properties are likely to be carried out in the near future, £6, public baths, abbatoir and meat markets, frait and vegetable markets, civic hall extensions, branch colleges and hostels.

The recently appointed City Architect, Mr. J. R. Sheridan-Shedden, Dip.Arch., F.R.I.B.A., will be taking up his appointment in the near future and, as groups of architects are being formed to deal with these projects, applicants will be considered on their capability for design, experience, contemporary outlook and suitability for inclusion in such groups.

The appointments are superannuable and the successful applicants will be required to pass a medical examination.

Application forms may be obtained from the Acting City Architect Privatley House Operative Privatley House Opera

successful applicants with be required to pass a medical examination.

Application forms may be obtained from the Acting City Architect, Priestley House, Quarry Hill, Leeds 9, to whom they must be returned not later than 12 noon on Friday, 22nd April.

1960.

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

P. B. HASWELL.

Acting City Architect.

Priestley House. Quarry Hill, Leeds, 9.

BOROUGH OF SOLIHULL

APPOINTMENT OF LANDSCAPE ARCHITECT
Applications are invited from members of the
Institute of Landscape Architects who have had
considerable experience, for appointment as
Landscape Architect in the Borough Engineer
Surveyor's Department at a salary in accordance with A.P.T. Grade IV—£1,065×£55(1)×
The rapid growth of the Borough has necessitated the development of public open spaces and
playing fields, as well as the landscaping of
housing estates, etc.
Half the reasonable cost of removal expenses
will be paid and where applicable housing
accommodation made available as soon as possible.

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The appointment is subject to the provisions of the Local Government Superannuation Acts; the National Scheme of Conditions of Service, a medical examination and to one month's notice

on either side.

Applications, giving full particulars as to present and past experience, together with the names and addresses of two referees, should be submitted to the Borough Surveyor, 90, Station Road, Solihull, not later than 26th April, 1960.

W. MAURICE MELL.

W. MAURICE MELL,

Town Clerk.

The Council House, Solihull. 30th March, 1960.

GLENROTHES DEVELOPMENT

ARCHITECT/PLANNER required on grade e1,220/£1,375 with placing according to qualifications and experience. Applicants must hold the Final examination of the Town Planning Institute. An additional architectural or engineering qualification would be advantageous. Candidates should have sound planning experience including the layout of large residential developments, central and industrial areas. Medical examination for Superannuation Scheme. House to rent available if required. Application forms from Secretary and Legal Adviser, Glenrothes Development Corporation, Glenrothes, Fife, to be returned by 16th April. 1960.

ARCHITECT'S required by Director General

relopment Corporation, Glenrothes, File, to be returned by 16th Anril. 1960.

ARCHITECTS required by Director General Navy Works Department of Admiralty at Head-quarters (Pinner. Middlesex). Portsmonth and Devonport. Duties embrace design of sleeping, messing and recreation buildings of sleeping, instructional buildings, office blocks, hospitals and industrial buildings. Candidates work under superintendence of Senior Architect and expected to take charge of group of architectural assistants. Quals, A.E.I.B.A., British subjects with first class design ability and sound working knowledge of up-to-date forms of construction, materials and costs. Scope for development and application of new ideas in design of Naval buildings. Posts are main grade, inclusive salary range of £1.235 to £1,730 (slight variations depending on location), non-pensionable, but long term nossibilities. Entry normally at minimum but higher starting salary may be offered to outstanding candidates. Five-day week and five weeks annual leave. Forms quoting reference J103/OA from Ministry of Labour, Technical and Scientific Register (K), Almack House, 26 King Street, London, S.W.1.

LONDON TRANSPORT EXECUTIVE INVITES APPLICATIONS FROM ARCHITECTS for the following vacancies in the office of the Asphitect

for the following vacancies in the salary range £1,020 Architect. ASSISTANT ARCHITECTS. Salary range £1,020 p.a.—£1,185 p.a. Ref. F/EV 784/A.
Candidates must be fully qualified and capable of supervising staff.
ARCHITECTURAL ASSISTANTS. Salary range £355 p.a.—£1,028 p.a. Ref. F/EV 784/B.
Candidates should be qualified to R.I.B.A. Intermediate standard with previous office experience.

Appointments are subject to medical examination. Successful applicants will qualify for free travel and will be required to join a contributory superanuation fund after a probationary period. No Saturdays.

Applications quoting reference number of post applied for and giving age, qualifications and full details of previous experience should be sent to:

Staff and Welfare Officer,
London Transport Executive,

55 Broadway,
London, S.W.1.

9402

London, S.W.1.

COUNTY BOROUGH OF BARNSLEY
EDUCATION COMMITTEE
COLLEGE OF TECHNOLOGY
Required for 1st September, 1960, LECTURER
IN BUILDING with degree or equivalent qualifications such as A.I.O.B., A.R.I.B.A., A.R.I.C.S.,
A.M.I.C.E., A.M.I.Struct.E., with good industrial or professional experience.
Salary: £1,370 by £25 to £1,550, in accordance
with the Burnham Technical Report.
Further particulars and application forms from
the Principal, College of Technology, Church
Street, Barnsley, to whom completed forms should
be returned within 14 days of the advertisement.
H. A. REDBURN,
Director of Education.

9499

CITY OF MANCHESTER
HOUSING COMMITTEE
Applications invited from suitably qualified persons for the following appointments.
DEPUTY CHIEF ASSISTANT ARCHITECT.
SENIOR SCALE 'A. 2.250-21.420 per annum.
SENIOR ASSISTANT ARCHITECT, A.P.T. V.
£1,220-21.375 per annum.
SENIOR ASSISTANT ARCHITECT, A.P.T. IV.
£1,055-41.220 per annum.
Details from the Director of Housing, Town
Hall, Manchester, 2, to whom applications should
be returned not later than the 23rd April, 1960.
9266

CUMBERLAND COUNTY COUNCIL
COUNTY ARCHITECTS' DEPARTMENT
Applications are invited for the appointment of a
SENIOR ASSISTANT ARCHITECT within
A.P.T. Grade V (21,220-21,375). Commencing
salary according to experience. Essential User
Grade D travelling allowance. Housing accommodation may be available.
Applicants must be A.R.I.B.A. with experience of handling large contracts, and supervision
of other staff. N.J.C. Service Conditions. Post
pensionable. Subject to medical examination.
Application forms and further particulars
obtainable from A. Lumb, A.R.I.B.A., Deputy
County Architect, 15 Portiand Square, Carlisle,
to whom completed applications should be
returned not later than FRIDAY, 22nd APRIL,
1960.

Clerk of the County Council.

BOROUGH OF TAUNTON
ASSISTANT ARCHITECT
Applications are invited for appointment of Assistant Architect in the Borough Architect's Department, Special Grade, Salary £785—£1,070 per annum.
Superannuable post, subject to medical examination, and to National Conditions of Service. Applications stating age, present position and salary, qualifications, experience and names of two referees to be sent to C. Bacon, F.R.I.B.A., Borough Architect, Flook House, Station Road, Taunton, by Monday, 25th April, 1960.

K. A. HORNE, Town Clerk, 9494

COUNTY BOROUGH OF STOCKPORT BOROUGH ARCHITECT'S DEPARTMENT. acancies for:
(1) ARCHITECTS, A.P.T. IV (£1,065—£1,220).
Candidates must be members of the

Candidates must be members of the R.I.B.A.

(2) ASSISTANT ARCHITECTS. Special Grade (£785-£1,070) or A.P.T. III (£880-£1,065) and A.P.T. III (£880-£1,065) and A.P.T. III (£785-£880) depending on qualifications.

Commencing salaries according to experience. Large programme of modern buildings-design ability more important than Local Government experience, which is not essential.

Full particulars (age, experience, two referees) to Borough Architect, Town Hall, Stockport, by 14th April, 1960.

The Corporation have a scheme for advancing, in approved cases, loans for house purchase up to 100 per cent. Posts pensionable, subject to medical examination. Canvassing disqualifies. Applicants must disclose whether related to any member/senior officer of Council.

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRB

OFFICE OF THE COUNTY ARCHITECT The Council require SENIOR ARCHITECT in salary grades A.P.T. IV (£1,065-£1,229) and Special Grade (£785-£1,707) for their extensive and interesting building programme which is cludes schools, colleges, old people's and children's homes, clinics, ambulance, fire and police stations, and other public buildings. Architects appointed will be employed at the Central Office in Wakefield solely upon capital works dealing with building projects from sketch plans to completion.

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Applications are also invited for the undermentioned posts at the Central Office:
JUNIOR ARCHITECTURAL ASSISTANTS
Grade A.P.T. I (#2765—#2881)
Grade A.P.T. I (#266—#2765).
Applications to be submitted as soon as possible
on forms to be obtained from and returned to the
undersigned.

A. W. GLOVER, F.R.L.R.A.

A. W. GLOVER, F.R.I.B.A., County Architect.

Bishopgarth.

Westfield Road,
Wakefield.

JUNIOR ARCHITECTURAL ASSISTANT Catering Services, located London. Applicants should have completed their National Services and have some architectural training either in an approved Architectural School or Architectural Office. Salary according to age and experience. Apply in writing, giving full personal details to Officer for Personnel, British Transport Hotels and Catering Services, St. Pancras Chambea, London, N.W.1.

4827

ASSISTANT ARCHITECTS required for

London, N.W.1.

ASSISTANT ARCHITECTS required for British Transport Hotels and Catering Services, located London. R.I.B.A. qualifications or equivalent degree preferable. Apply in writing, giving full personal details to Officer for Personnel, Hotels and Catering Services, St. Pancras Chambers, London, N.W.1.

Pancras Chambers, London, N.W.1.

COUNTY ARCHITECT'S DEPARTMENT,
CUPAR—Qualified ARCHITECT DEPARTMENT,
CUPAR—Qualified ARCHITECT required. Salaey
per annum. Applicants must be associates of
the R.I.B.A. and have contemporary outlook in
design and use of modern materials and texture of the confugues and experience of school work (both new
buildings and large extensions and modernials tons). Superannuation Scheme. Applications,
stating age, qualifications, post held, and privous experience, with details of present salary
and accompanied by copies of recent testimonials by 19th April, 1960, to the County Clerk,
County Buildings, Cupar, Fife.

Felix Walter F.R.I.B.A.



THE FIRST comprehensive illustrated book on the subject of the conversion and improvement of all kinds of house property. It is designed to help architects, local housing authorities and private owners. Mr. Walterthoroughly illustrates and describes a large variety of successful conversions, from luxury Belgravia terrace houses to remote rural cottages, giving full details of building costs, rent and rates for most of them. And specialist authors contribute chapters on law, finance, management and town planning.

HOUSE CONVERSION ANDIMPROVEMENT

Size 9\frac{1}{2} by 7\frac{1}{2} in. 258 pages including over 420 illustrations. 42s. net, postage 1s.9d.

THE ARCHITECTURAL PRESS 9-13 QUEEN ANNE'S GATE WESTMINSTER S.W.I

THE MONTAGUE GROUP OF COMPANIES

WISH TO RETAIN ARCHITECTS

Who submit suitable schemes for Development and Redevelopment of Shop and Office Property FULL SCALE FEES OR SUBSTANTIAL INTRODUCTORY BONUS

Architects are invited to send full details in confidence to the Chairman, Mr. M. Phillips

THE MONTAGUE GROUP OF COMPANIES

FAIR GREEN, MITCHAM, SURREY

MITcham 8206/7

guantiti Surveying Assistants.

and III, required by Air Ministry in the
govinces. Duties include abstracting and
ling, site measurement and preparation of
similar condidates must hold O.N.C. (Buildgroof experience under Quantity Surveyor or
align Contractor. Knowledge W.D. Schedule
advantage. Financial assistance and time off
off precognised courses of study. Promotion
of pension prospects. Five-day week with 18
asy leave a year initially. Overseas tours for
high special allowances granted.
Salary ranges from £680 (at age 26) to £856.
Ammencing salary dependent upon age, qualifisions and experience. Applicants, who must be
stural born British subjects, should write
uning age, qualifications and previous appointsuly including type of work done, to Manager
pE2 Professional and Executive Register,
mistry of Labour, Atlantic House, Farringdon
head be sent. Candidates selected will normally
interviewed in London and certain expenses
embursed. Only applicants selected for interwe will be advised.

BOROUGH OF EPSOM AND EWELL

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BOROUGH OF EPSOM AND EWELL

BOROUGH ENGINEER AND SURVEYOR'S

DEPARTMENT

SENIOR PLANNING ASSISTANT.

SENIOR PLANNI

Servations or a writing, fficer for vices, St. 9418

Epsom. Surrey COUNTY OF ESSEX
COUNTY PLANNING DEPARTMENT
pplications are invited for the following

applications are invited for the following legit.

PRINCIPAL PLANNING OFFICER, J.N.C. Scale "D" (£1,520-£1,755). The successful applicant for this important ladquarters executive post will be required to the charge of the Development Plan and Connis Section, He will be responsible for the work onnection with the production and progresse, through all stages, of review of the County Pelopment Plan, with additional Town Maps of Comprehensive Development Areas, together the Headquarters work on Development Control, and many minerals and liaison with the New Section Maps of Comprehensive Development Areas, together the Headquarters work on Development Control, and on foot-substand amenities generally.

Candidates must be Corporate Members of the Department of the Development Control, They must also have had tensive experience in both Development Plan of Control work of a large local planning thority, and be capable administrators.

ARCHITECT (PLANNER, J.N.C. Scale "C" (£1,385-£1,620).

MRCHITECT (PLANNER, J.N.C. Scale "C" (II,856-£1,620). The successful applicant for this Headquarters at will be required to take charge of the successful applicant for this Headquarters at will be required to take charge of the successful applicant for this Headquarters at will be required to take charge of the successful applicant of the will responsible for advising upon third-dimensial design and grouping of buildings, in mate scale, in central redevelopment and in the design projects and the care and improvent of buildings under preservation orders; and mesthetic considerations generally. Andidates must be competent, experienced and diffied designers, capable of original thought initiating design of central area proposals be able to give guidance to Area Officers course of development control. They must be morate Members of the Royal Institute of sourse of development control. They must be morate Members of the Royal Institute of inshirtent of Landscape Architects. They also have had extensive allied architectural togs.

all planning experience and be capable adminimiors.

Figure P. LANNING OFFICER, A.P.T.

Grade V (£1,220-£1,375).

The successful candidate will be required to
the fice of a large local planning authority.

BENIOR PLANNING OFFICER, A.P.T.

Grade V (£1,220-£1,375).

Grade V (£1,220-£1,375).

Grade V (£1,220-£1,375).

Grade V (£1,220-£1,375).

The successful candidate will be required to
the charge of a small section in an Area Office
Romford to deal mainly with redevelopment
smes for central areas, including civic design
thets. Candidates should be Corporate Memof the Royal Institution of British Archithe and the Town Planning Institute, and have
densiderable allied architectural and plantral area schemes.

(e) SENIOR PLANNING OFFICER, A.P.T. Grade V (£1,220—£1,375).
Applicants must be Corporate Members of the Town Planning Institute and should possess another appropriate professional qualification. They should have had considerable experience in the preparation of development plans in highly urbanised areas and be capable of organising and analysing the various surveys in connection therewith.

(f) SENIOR PLANNING ASSISTANTS, A.P.T. Grade IV (£1,065—£1,220).
Vacancies as Section Heads either in the Development Plan or Control Sections at Area Offices at Chelmsford, Colchester, Romford and Wanstead.
Candidates must be Corporate Members of the Town Planning Institute or other appropriate professional institution and have had considerable experience in either development plan or control work in the office of a large local planning authority.

(g) SENIOR PLANNING ASSISTANT, Special Grade (£785—£1,070), in the Detailed Design Section at Headquarters.
Candidates should be Corporate Members of the Town Planning Institute or Royal Institution of British Architects, or be well advanced in their studies towards this end.
Candidates should have experience in, and will be required to assist with, the work mentioned under post (b).

(h) SENIOR PLANNING ASSISTANTS, Special Grade (£785—£1,070).
Vacancies exist in various Area Offices in the Development Plan or Control Sections.
Candidates should have experience in, and will be required to assist with, the work mentioned under post (b).

(h) SENIOR PLANNING ASSISTANT (RE-SEARCH), Special Grade (£785—£1,070).
Candidates should be Corporate Members of the Town Planning Institute or other recognised professional institution, or be well advanced in their studies to this end.
They must have had experience in Plan or Control work in the office of a large local planning authority.

(f) SENIOR PLANNING ASSISTANT (RE-SEARCH), Special Grade (£785—£1,070).
Candidates should be seed to a large local planning authority.
Five-day week; medical examination of the Town Planning Institute or the

cases. Canvassing directly or mulicet, qualifies.

Applications, with names of three referees, to the County Planning Adviser, at Broomfield Place, Broomfield, Chelmsford, Essex, by 25th April, 1960.

Applications are invited for this appointment within Salary Scale A.P.T. I (£610-£765 per annum). The appointment is superannuable and subject to a medical examination.

Housing accommodation will be offered if necessary, and the Corporation are prepared to make a contribution towards removal expenses. Casual User's Car Allowance will be applicable. Applications, stating age, present and previous appointments and experience, are to be sent to the City Engineer and Surveyor, 22. Bridge Street, Worcester, by Wednesday, 20th April, 1964. BERTRAM WEBSTER, Town Clerk.

Guildhall,

Worcester.

Worcester.

WETROPOLITAN WATER BOARD
ASSISTANT ARCHITECT
required for permanent appointment in Surveyor's
Department.
Salary scale £1,090—£1,210 per annum. Commencing point according to age and experience.
Applicants must be corporate members of the
Royal Institute of British Architects and should
have had experience in the design, preparation
of plans and working drawings and specifications
for the erection of houses and offices.
Forms of application obtainable from the
undersigned (quote reference AI) must be
returned by Tuesday, 19th April 1960.

S. D. ASKEW
Clerk of the Board.

Readers Askers, E.C. 1964.

New River Head.
Rosebery Avenue. E.C.1.

MERIONETH COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT
Applications are invited for the appointment
of JUNIOR ARCHITECTURAL ASSISTANT,
Grade A.P.T. I (£610—£765). Preference will be
given to applicants who have passed the Internediate Examination of the R.I.B.A. or its
equivalent.
Full particulars of the appointment, together
with application form, may be obtained from
the County Clerk, County Offices, Penarlag,
Dolgellau, by whom applications must be received
by not later than 18th April, 1960.

LONDON COUNTY COUNCIL
ARCHITECT'S DEPARTMENT
ARCHITE

BBC requires ARCHITECTURAL STAFF in London for work in connection with studios, office blocks, transmitting stations, etc. Candidates should have an interest in contemporary design and a sound knowledge of construction.

(a) ARCHITECTURAL ASSISTANT. Salary in scale £935-£1.85 p.a. Applicants should have Final R.I.B.A. with two years' office experience.

(b) ARCHITECTURAL ASSISTANT. Salary in scale £800-£1.025 p.a. Applicants should be students R.I.B.A. with two years' office experience. Requests for application forms to Engineerience. Requests for application forms to Engineering Recentiment Officer, Broadcasting House, London, W.I., quoting ref. 60.E.45.AJ. 9442

HEREFORDSHIRE COUNTY COUNCIL
ARCHITECTURAL ASSISTANT required on
Special Scale (£785 to £1,070 per annum). Prospects of immediate promotion to Grade IV (£1,065
to £1,220) on election A.R.I.B.A. in approved

ases.
Superannuated post, subject to medical examintion and one month's notice either side,
eparation allowance to married men for limited
eriod in certain cases (25s. per week and fare
ome every two months).
Interesting and varied programme. Five-day

Hereford is situated in the beautiful Wye

alley. Application forms from County Architect, Bath treet, Hereford, to be submitted by 19th April, 9454

Street, Hereford, to be submitted by 19th April. 1960. 9454

COUNTY BOROUGH OF MERTHYR TYDFIL BOROUGH ARCHITECT'S DEPARTMENT Applications are invited for the following appointments on the permanent staff of the Borough Architect.

1. CHIEF ASSISTANT ARCHITECT Grade A.P.T. IV (£1,20-£1,375).

2. SENIOR ARCHITECT Grade AP.T. IV (£1,065-£1,220).

3. ASSISTANT ARCHITECT Special Grade (£785-£1,207).

4. TWO ARCHITECTURAL ASSISTANTS (Grade A.P.T. II (£765-£880).

There is to be a large programme of redevelopment, and all types of municipal buildings are to be erected. Every facility will be given for design and contract experience. Appointments will be made within the grades according to qualifications and experience. Applications, stating age, experience, particulars of present and past appointments, together with the names of two referees, should be received by the Town Clerk not later than 20th April, 1960. Housing accommodation will be provided within a reasonable time if required.

The appointments are subject to the provisions of the Local Government Superannuation Acts 1937/53 and to the passing of a medical examination, and are terminable by one month's notice on either side.

Canvassing in any form will disqualify.

T. S. EVANS.

Town Clerk.

Town Hall, Merthyr Tydfil. 31st March, 1960.

Merthyr Tydfil.

31st March, 1960.

12st March, 1960.

13st March, 1960.

14st March, 1960.

15st March March

Box 26, County Hall, Preston, to be returned by 18th April. 1960, quoting reference A/AJ. 9493

WILTSHIRE COUNTY COUNCIL ARCHITECTS DEPARTMENT APPLICATIONS IN THE PROPERTY OF THE PROPERTY OF

CITY OF SALFORD

Applications are invited for the following appointments in the office of the City Engineer & Surveyor (G. A. McWilliam, B.Sc., A.M.I.C.E., A.R.I.C.S., M.I.Mun.E.).

(a) JUNIOR ASSISTANT ARCHITECT APT. I.—III (£610—£1,065 per annum). Duties will comprise the development of designs and working drawings for and supervision of erection of new building projects.

(b) ARCHITECTIBAL ASSISTANT APT. I.—II (£610—£380 per annum). Duties will comprise assisting in the development of designs and working drawings.

A five-day week is operated in the Department, and the work affords experience in a wide variety of architectural projects carried out for all Committees of the Council. Facilities for completion of professional training may be given to successful candidates, and housing accommodation will be provided in approved cases.

The commencing salary will be dependent upon qualifications and experience. The posts are subject to the provisions of the Local Government Superannuation Acts, the National Schemes of Conditions of Service, the Standing Orders of the City Council, the passing of a medical examination, and are terminable by one calendar month's notice.

Applications stating age, education, qualifica-

notice.

Applications stating age, education, qualifications, and details of experience, together with the names and addresses of two referees, should be sent to the City Engineer & Surveyor, Town Hall, Salford, 5, Lancs., to arrive not later than 19th April, 1960.

R. RIBBLESDALE THORNTON,

Town Clerk.

COUNTY COUNCIL OF DUNBARTON

APPLICATIONS are invited for the following posts in the COUNTY ARCHITECT'S DEPARTMENT of the COUNTY ARCHITECT'S DEPARTMENT of the COUNTY ARCHITECT£1.310×(3) £35.13.4 to £1.480 per annum.
SENIOR ASSISTANT ARCHITECT£1.150×(3) £35.6.8 to £1.310 per annum.
ASSISTANT ARCHITECTS£795×£35 to £1.075.
Applicants for the posts of Chief and Senior Assistant must be A.R.I.B.A. preferably with considerable experience in housing, schools, and other local authority work. The posts are superannuable under the Local Government Superannuable on the Scale will be given to Assistant Architects according to experience and qualifications. Canvassing in any form will disqualify and relationship to any member or senior officer of the County Council must be disclosed. A house will be available on a fairly early date.
Applications stating age, experience and qualifications, along with the names and addresses of two referees, should be lodged with the County Architect, Ferry Road, Old Kilpatrick, on or before 13th April, 1960.

JOHN F. MILLER, County Clerk.

County Buildings. Dumbarton. 30th March, 1960.

Dumbarton.

30th March, 1960.

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AP.T. Grade III-IV (£880—£1.220).

(c) ARSINTANT OLANTITY SURVEYORS, A.P.T. Grade III-IV (£880—£1.220).

(c) ARCHITECTRAL LEARNER—Gen. Div. £210—£465 (£430 at age 22).

The Authority has a large building programme, including Schools. Technical College, Civic Buildings, etc.

For (a) and (b) preference will be given to candidates with experience in Local Government, and holding professional qualifications, Starting salary by negotiation. Housing accommodation available, Applications, of candidates, starting alary by negotiation. Housing accommodation available, Applicants for (c) should be about 21 years of age.

Aptical application, stating age, experience, qualifications, oresent salary, and nominating two referees, should be received by E. A. Tornbohn, A.R.I.B.A. A.M.T.P.I. Borough Architect, Central Buildings, Darlington, by 21st April. 1960, 9330

CITY AND COUNTY OF BRISTOL
EDUCATION COMMITTEE
BRISTOL TECHNICAL COLLEGE
The Governors invite applications for a
LECTURER in the Department of Building to
teach BUILDING CONSTRUCTION and
associated subjects in Senior and Advanced
Courses. Suitable academic and technical qualifications and sound industrial and teaching
experience essential.
Burnham Technical Scale salary—£1,370 to
£1,550.

555. Forms of application and details from the egistrar, College of Technology, Ashley Down, 9394

Bristol, 7.

BIRMINGHAM REGIONAL HOSPITAL BOARD

ARCHITECT'S DEPARTMENT

(a) ASSISTANT ARCHITECTS (ref. Arch. 1).
Salary scale £730-£1,055 per annum. Starting salary according to age and experience. Applicants must be registered architects having passed the requisite examinations. Experience of hospital planning and construction an advantage. Sound knowledge of architectural design, working drawings, surveying and specifications essential.

(b) ARCHITECTIPAL ASSOCIATION sential.
) ARCHITECTURAL ASSISTANTS (ref. Arch.

cesential.

(b) ARCHITECTURAL ASSISTANTS (ref. Arch. 2).

Salary £545 (at age 21 years or over)—£765 per annum. Point of entry according to experience. Intermediate-R.I.B.A. essential.

(c) ASSISTANT QUANTITY SURVEYORS (ref. Arch. 3).

Salary scale £730—£1,055 per annum. Starting salary according to age and experience. Final R.I.C.S. and experience in taking off and preparing bills of quantities and settlement of final accounts essential.

(d) SURVEYING ASSISTANT (BUILDING) (ref. Arch. 4).

Salary scale £545—£765. To assist in survey of existing hospital buildings and preparation of record plans. Intermediate R.I.C.S. (Buildings Division) essential. Must be a neat draughtsman with experience in measurement and plotting of surveys to all scales.

All salary scales now under review.

All posts superannuable. Five-day week. Written applications, quoting reference of post desired and naming two referees to Secretary. RHB, 10. Augustus Road, Birmingham, 15, by \$938.

BOROUGH OF EDMONTON

RHB. 10. Augustus Road. Birmingham, 15, by 25th April. 1960.

ROROUGH OF EDMONTON

BOROUGH ARCHITECUS DEPARTMENT Applications are invited for the appointment of a TOWN PLANNING ASSISTANT. Salary Grade A.P.T. I (£610-£765) plus London weighting according to age.

Preference will be given to candidates who have passed the Intermediate Examination of the Town Planning Institute and Joint Examination Board or equivalent examinations recognised by the Town Planning Institute, Applications on forms obtainable from the Town Clerk, Town Hall, Edmonton, must be delivered by the 16th April, 1960.

STAFFORDSHIRE COUNTY COUNCIL COUNTY ARCHITECT'S DEPARTMENT Applications are invited from suitably qualified candidates for the following posts:—

ASSISTANT ARCHITECT'S. These posts are particularly suitable for recently qualified Architects.

Grade A.P.T. IV (£1,065-£1,220). Candidates must be Associates of R.I.B.A., and be suitably experienced.

The appointments will be subject to:—
(a) The National Scheme of Conditions of Service.
(b) The Local Government Superannuation Acts

(a) The National Scheme of Conditions of Service.

(b) The Local Government Superannuation Acts and the passing of a medical examination. The County Council are prepared to grant a lodging allowance of 35s. per week to married applicants maintaining a home outside the geographical County for a period of six months. also second-class rail travel home every second month during the initial six months. The Council are also prepared to give consideration to the granting of financial assistance in appropriate cases towards removal expenses. There is a possibility that housing may be made available in special circumstances. Forms of application, which must be returned by the 22nd April. 1960, may be obtained from the County Architect, Green Hall, Lichfield Road, Stafford.

Clerk of the County Council.

Clerk of the County Council.

9401

BRACKNELL DEVELOPMENT CORPORATION
Applications are invited for the post of ASSISTANT ARCHITECT, salary range £1,065-£1,220.
Applicants must be Corporate Members of the
R.I.B.A. Superannation schemes, medical
examination. Housing available. Apply by 23rd
April, 1960, giving age, education and qualifications, experience and appointments held (with
dates and salaries), and names of two referees,
to General Manager (A), Bracknell Development
Corporation, Farley Hall, Bracknell, Berks. 9495

GLASGOW SCHOOL OF ART
DEPARTMENT OF ARCHITECTURE
Applications are invited for the post of ASSISTANT Grade I. Applicants should be registered
architects and have teaching experience, particularly in the subject of History of Architecture.
Particulars of the appointment cam be obtained
from—The Secretary, Glasgow School of Art.
167 Renfrew Street, Glasgow, C.3.

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SENIOR QUANTITY SURVEYORS (Referent 101 AJ). Salary range £1,055—£1,200. Must A.R.I.C.S. with wide experience in all braid of quantity surveying and capable of supervisin staff.

Applications in which are and stating age, qualifications and operience, to:—

W. R. HEADLEY, A.R.I.B.A., A.A.Dipl., Regional Architect, Chief Civil Engineer's Office, British Railways (L.M.R.), 5a, Euston Grove, London, N.W.I. 93

CITY OF SHEFFIELD EDUCATION COMMITTEE COLLEGE OF TECHNOLOGY DEPARTMENT OF BUILDING Applications are invited for the following posts, which arise mainly from the developmen of full-time and sandwich courses:—

(a) LECTURER to feach Ruilding Construction, Quantities, Centracts and Specific ions in the sandwich and part-time course in Civil and Structural Engineering, and assist in the teaching of Theory of Structures.

assist in the caching of Aministration and Management in the sandwich and partime courses in Building and Cir Engineering, and to assist in the teachin of Civil Engineering subjects.

Candidates for the above posts should be embers of an appropriate professional bound have had suitable industrial and teaching turner and the course of the caching of

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WEDNESFIELD URBAN DISTRICT COUNCENGINEER AND SURVEYOR'S
DEPARTMENT
Applications are invited for the position
CHIEF ASSISTANT ARCHITECT at a sala
in accordance with A.P.T. Grade IV (£1,065

in accordance with the gualified and have he considerable experience in the appointment which they make application.

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tion scheme and a several commodation will be provided, mecessary, and reasonable removal expenses who paid.

Applications, stating age, qualifications, eperience, with the names of two referees, much than 25th April, 1960.

J. HENWOOD JONES, Clerk of the Council Officers.

Council Offices, Alfred Squire Road, Wednesfield, Staffs.

Staffs.

COUNTY LONDONDERRY EDUCATION COMMITTEE

ARCHITECTURAL ASSISTANTS

Applications are invited for the appointment of Two Architectural Assistants in the Committee's Offices in Coleraine. Applicants should the Intermediate R.I.B.A. Certificate have had a minimum of six years' experience an Architect's Office.

Salary will be within the range £585-£905 annum according to qualifications and experience. Applicants holding the Intermediance. I.B.A. Certificate will enter the Scale at £905 annum.

per annum.

Application forms and Conditions of Application forms and Conditions of Application forms and from the Educal Office, New Row, Coleraine, and completed formust be returned not later than 12 noon 22nd April, 1960.

22nd April. 1960.

ROXRURGH COUNTY COUNCIL

NEW COUNTY OFFICES AT NEWTOW 27 decorer resident in Scotland. Assessor: Mr. W. bid over Kininmonth, R.S.A., F.R.I.B.A., F.R.I.B. (Sissional Premiums: 500 gns., 300 gns., 200 gns., Last of 100 gns. 180 gns. 200 gns. Last of 100 gns. 180 gns. 200 gns. Cast of 180 gns. 200 gns. 200

BOROUGH OF LEYTON

Junicipal Borough in the County of Essex.

Population approximately 100,000.)

BOROUGH ENGINEER'S DEPARTMENT

Populations and the provisions of the National Scheme of against the provisions of the National Scheme of additions of Service for Local Authority Staffs secial Classes). [Bossing accommodation will be made available to successful applicants if required. Fively week is operated. [Apply by letter to Borough Engineer, Town Clerk. B. J. OSBORRE. D. J. OSBORRE. D. J. OSBORRE. Town Clerk. Referen ce 102 AJ ntermedia of "Takin te measur

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BUCKS COUNTY COUNCIL
Applications are invited for the following
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mty Offices, Aylesbury, Bucks.

aylesbury, Bucks.

BOROUGH OF WORTHING
APPOINTMENT OF ARCHITECTURAL
ASSISTANT
Ipplications are invited for the appointment
Architectural Assistant on the permanent
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ERNEST G. TOWNSEND,
Town Clerk.
9429

BOROUGH OF LEYTON
(in the County of Essex)
COMMITTEE FOR EDUCATION
APPOINTMENT OF ARCHITECTURAL
ASSISTANT

wn Hall, Leyton, E.10.

Leyton, E.10.

KINGSTON UPON HULL EDUCATION
COMMITTEE
BGIONAL COLLEGE OF ART AND CRAFTS
Pucipal: A. D. S. SUGBEN, A.R.E., A.R.C.A., F.I.B.D.
Applications are invited for the following post,
fulles to commence in September, 1960:
SCHOOL OF INDUSTRIAL DESIGN
ASISTANT (Grade B) for display and exhibifund design to N.D.D. Special level and interior
fewration to Intermediate and Final standard
in the School of Architecture.
Sahry: Burnham Technical Scale—2700 ×
27 Bs—21,121 10s 'x e37 10s,—21,150 for men,
and orresponding scale for women with appromate equal pay increments. (Increments will
pad in respect of suitable teaching, promessional and/or Industrial experience, plus addimuss by training and graduate qualifications.)
Furtler particulars and application forms, to
be retirned as soon as possible, may be
defined from the Chief Education Officer,
Guildhal, Kingston upon Hull.

9378 WTOW! practisi Ir. W. F.R.I.A Last di ber, 19 rk, Cont ourghshi

A SENIOR ASSISTANT is required in the Architect's Department of the Milk Marketing Board. Applicants should be capable of preparing working drawings and details of factory and office buildings. The appointment will be for at least 12 months in the first instance, and the salary will be in accordance with qualifications and experience. Applications, giving brief details of qualifications and experience, should be sent to the Personnel Officer, Milk Marketing Board, Thames Ditton, Surrey, Ref. 279. 9376
BRACKNELL DEVELOPMENT CORPORATION Applications are invited for the post of QUANTITY SURVEYOR. Salary range £1,066-£1,220, according to age and experience. Candidates must be Corporate Members of the E.I.C.S. Duties embrace Housing, Town Centre and Industrial Buildings. Superannuation scheme and Industrial Buildings. Superannuation scheme (Q.S.). Bracknell Development (Will dates) and names of two referees, to center and Manager (Q.S.). Bracknell Development Corporation, Farley Hall, Bracknell, Berks. 9430 Corporation, Farley Hall, Bracknell, Berks. 9430

JARED E. DIXON. Town Clerk.

SURREY COUNTY COUNCIL
Applications invited for the following appoint-

ments:—
GRADE IV (£1,065—£1,220 p.a. plus £30 p.a.
London Allowance).
ARCHITECTS: Must be Assoc. Mem. R.I.B.A.
aud have had experience in preparation of
drawings and specifications, and be capable of
assuming responsibility for medium to large-

assuming responsibility for medium to large-scale contracts.

GRADE II (£765-£880 p.a, plus up to £30 p.a. London Allowance, according to age). ARCHITECTURAL ASSISTANTS: Must be of good general training. Preference given those who have passed Intermediate R.I.B.A. Candidates will be appointed at the appropriate point within the scale according to age and ability.

Full details, present salary and three copy testimonals to County Architect, County Hall, Kingston, as soon as possible.

Architectural Appointments Vacant

per line: minimum 12s. Box No including forwarding replies 2s. extra.

TWO ARCHITECTURAL ASSISTANTS required—Intermediate R.I.B.A. standard—who have had good office experience. Salary £600—£1,000 according to experience. Housing accommodation could be provided. Reply, giving particulars of age and experience and salary required, to: Francis W. Keyworth, L.B.I.B.A., 20, Park Road, Melton Mowbray, and 31, Friar Lane, Leicester.

Lane, Leicester.

ARCHITECTURAL ASSISTANT required, intermediate Final standard. Varied and interesting work. Good draughtsmanship, sound knowledge of construction and ability to manage jobs, essential. Five-day week. Apply, stating age, experience and salary required, to George Lowe & Partner, 79, George Street, CROydon 2604

A RCHITECTURAL ASSISTANTS required.
Starting salary £915 per annum, Glasgow office, five-day week. Schools, Offices, etc. State experience. D. Harvey & A. Scott, 2, Lynedoch Place, Glasgow, C.3.

A RCHITECTURAL ASSISTANTS required.
Starting salary £750 per annum. Glasgow office, five-day week, State experience. D. Harvey & A. Scott, 2, Lynedoch Place, Glasgow, C.3.

ENIOR and Intermediate Standard ARCHI-TECTURAL ASSISTANTS required for London and Weston-super-Mare. Write full par-ticulars including salary required. B. H. Gallanneugh, L.E.I.B.A., 54, Queen Anne Street. London. W.1.

MORRISON, ROSE & PARTNERS have immediate vacancies for First Class ASSISTANTS, Final and Intermediate standard. Salary by arrangement. Tel.: LAN. 8061, 4, Wimpole Street, W.I.

QUALIFIED ARCHITECTS and ASSISTANTS of Intermediate standard requiring highly paid positions, with an interesting variety of work, please telephone AMB. 8189 for an appointment.

A SSISTANT ARCHITECT required by Hasker & Hall, L/F.R.I.B.A., for responsible position in their London office, 13, Welbeck Street, W.I. (WBL, 9061.) 9061

KENNETH LINDY & PARTNERS' City Office requires experienced ASSISTANT ARCHITECT. Varied practice. Salary to £1,100. AVEnue 5629 or 4430. 9057

AVERUE 5029 or 4430.

A RCHITECTURAL ASSISTANTS required in busy Bloomsbury office with varied practice. Good salary and prospects for suitable applicants. Five-day week. Write giving particulars of age, qualifications, experience, etc., to Box 918, co 7, coptic Street, W.C.1.

Coptic Street, W.C.1.

SENIOR ARCHITECTURAL ASSISTANTS required in salary range £700—£1,000 to take control of varied and interesting jobs of all sizes. Experience in colour and design of interiors and fittings and good presentation draughtsmanship an advantage. Five-day week, excellent working conditions and holidays. Please write, giving full details of experience and qualifications, to Deacon and Laing, 65, Goldington Road, Bedford.

A SSISTANT ARCHITECTS required in busy Nottingham Office. Intermediate or Final A.R.I.B.A. Salary 2750—21,000 p.a. dependent on experience. Reply, stating age, qualifications and experience, etc., to Box 8986.

A SSISTANT ARCHITECTS required in busy Manchester Office. Intermediate or Final A.R.I.B.A. Salary 2750—21,000 p.a. dependent on experience. Reply, stating age, qualifications and experience, etc., to Box 8985.

SEVERAL ARCHITECTURAL and SURVEY-ING ASSISTANTS required in progressive office. Quick draughtsmen. Good salary and prospects. B. Newton, 307, Finchley Road, N.W.3. 9981.

YOUNG ASSISTANT required. Good draughteman, Intermediate standard. Five-day week. Bernard Gold & Partners, 4/6, Savile Row, W.1. Phone: REGent 7551. 8970

ASSISTANT ARCHITECTS required by firm with offices in Middlesbrough and Billingham-on-Tees. The work is interesting and of considerable variety. Salary according to experience and ability. Elder and Lester, A./A.R.I.B.A., Grosvenor Buildings, 65, Albert Road, Middlesbrough. 8820

A SSISTANTS required capable of taking responsibility for the preparation of working drawings and supervision of contracts. Interesting projects with opportunity to gain worthwhile experience. Telephone Mayfair 3111 for appointment or write giving details of experience to Box 8930.

Box 8930.

A RCHITECTURAL ASSISTANTS required by Hasker & Hall, L. /F.R.I.B.A., in their offices in London and Warwickshire. Good salary, with scope for initiative and responsibility. Write to 15, Welbeck Street, W.1. or telephone WEL 0061 or Knowle (Birmingham) 3502.

DEVERBUX & DAVIES require capable and enthusiastic ASSISTANT ARCHITECTS salary £1,000 ner annum or according to experience and ability. 3, Gower St., Bedford Sq., London, W.C.1.

W. H. WATKINS, GRAY & PARTNERS and Final standard, Pension scheme and luncheon vouchers. Salary range £700 to £900. Apply 57. Catherine Place, London, S.W.1.

Catherine Place, London, S.W.1.

RONALD WARD & PARTNERS have immediate vacancy for ASSISTANT ARCHITECTS with initiative and some experience, for interesting, commercial, industrial and civic projects. Salaries commensurate with ability. Apoly, 29, Chesham Place, S.W.1. BELgravia 3361.

TREHEARNE & NORMAN, PRESTON & PARTNERS have vacancies for ARCHI-TECTS and ASSISTANTS with imagination and designing ability to assist with important new developments in the London area. Apply in confidence to 83, Kingsway, London, W.C.2. (4001. 4071).

PLIE MAYORCAS requires SENIOR ASSIS-TANTS with minimum of three years, office experience in this country Write, giving narticulars of architectural education and ex-perience, and salary required, to: 13. David Mews. Baker Street. W.I.

TARGE SCALE Development in London and Industrial Buildings in Home Counties. High office blocks and residential flats. Four ASSISTANT ARCHITECTS required. Senior and Intermediate standard. West End Office. Fiveday week. Good salaries and honuses. Box 8085.

LEWIS SOLOMON, KAYE & PARTNERS, rapidly expanding practice require ARCHITECTS and ASSISTANTS with initiative and competence to work on major design prolects in the London area. These projects include Comprehensive Development Schemes, Hotels, Schools, Offices, and Luxury Flats, Good galaries according to ability and experience, luncheon vouchers, five-day week, and excellent working conditions. Write 5. Holborn Circus, Thavies Inn House, E.C.1. or telephone CITy 8811. quoting SLB in hoth instances.

A RCHITECTURAL ASSISTANT required, with at least two years' office experience. Apply in writing to Thomas Mitchell & Partners. 20, Bedford Square, London, W.C.1.

TWO ASSISTANTS required: one at Intermediate standard and one qualified with some years office experience, for small busy office. Salary according to experience. Eing LANgham 1732 or write to F. G. Frizzell, A.E.I.B.A., 80, Fortland Place, W.1.

VACANCIES exist for ASSISTANTS of Pre-Lintermediate to Final Grades. Salary Range 200—2900 per annum. Interesting work and good prospects. Apply in writing to: H. Hubbard Ford, F.R.I.B.A., 35 South Audley Street, London, W.1.

A BCHITECTURAL ASSISTANT (Intermediate standard) required, capable of making site surveys, preparing sketch plans, working drawings and specifications. Please apply, stating age, experience and salary required, to R. E. AKERMAN, F. B. I. B. A., Chief Architect, United Dairies Ltd., 31, St. Petersburgh Place, W.2.

MONRO AND PARTNERS require ARCHI-TECTURAL ASSISTANTS of Intermediate/ Final R.I.B.A. standard in their London, Watford, and Glasgow offices for work on interesting indus-trial and commercial projects. Salary range £800 —£1,000 p.a. Non-contributory Pension Scheme. Five-day week. Apply in writing to 32, Claren-don Road, Watford. 8609

SENIOR ASSISTANT urgently required for pleasant office in Gray's Inn. Interesting and varied practice. Salary up to £1,100. Telephone Chancery 837

Chancery 8387.

CHIEF ARCHITECTURAL ASSISTANT required immediately for established firm on the South Coast. Excellent opportunity for the right man who will be expected to take charge of and be responsible for various large contracts. Must be an Associate of the R.I.B.A. Salary bracket £1,200/£1,500 p.a., dependent upon experience and ability. White: Thomas, Jolly, Grant & Kelsey, 26, Kent Boad, Southsea, Hants. 9165

SIR ROBERT TASKER & PARTNERS require ARCHITECTURAL ASSISTANTS (Final and Intermediate) in office with varied practice. Write to No. 3. Field Court. Gray's Inn. W.C.I. or telephone Chancery 5957 stating salary required.

SEATH SMALL REGISTER FEMALES.

EELY & PAGET have immediate vacancy in their City office, Standard near Final R.I.B.A. with office experience. Holiday arrangements respected. Salary range £842 × £82 (4)—21.050 plus luncheon vouchers. Write 41, Cloth Fair, E.C.1, or telephone MET 8511.

WARWICK—ARCHITECTURAL ASSISTANT of Intermediate standard required immediately for varied practice. Reply stating experience and salary required to Tropess, Harley-Smith and Steel, 1 Church Street, Warwick. Tel Warwick 19

ENIOR ASSISTANT required to work on a Variety of large and interesting projects. Modern approach essential, with an ability to take complete charge of jobs from planning stage to completion. Salary £990—£1,000 p.a. Apply to R. Mountford Pigott & Partners, 3, Cromwell Place. S.W.7. KENsington 1244.

A RCHITECTUBAL ASSISTANTS, senior and junior, required by firm in High Wycombe for commercial and industrial schemes. Scope for responsibility and experience. Five-day week. Box 9143.

Responsibility and experience. Five-day week. Box 9143.

A N Experienced ARCHITECTURAL ASSISTRANT, holding Intermediate R.I.B.A., required immediately for established firm on the South Coast. Opportunity presented to obtain further experience on various large contracts. Salary bracket £760/£850 p.a. Write stating age and experience: Thomas, Jolly, Grant & Kelsey, 26, Kent Road, Southsea, Hants.

O PPORTUNITY for first-class ARCHITECTS with initiative to take responsibility for a variety of contemporary work. South Yorkshire area. Salary according to ability. Bonus, Pension and Life Assurance Schemes. Travelling, Removal and Interview expenses paid. Box 9148

COTT, BROWNRIGG & TURNER, at Guildford. London and Woking, require ARCHITECTS and ASSISTANTS. Qualifications: Design ability and experience in modern constructional techniques. Work in hand: Large and small contracts including Theatres, Hotels, Shops, Offices, Schools, Houses, Laboratories and Factories. Salary based on ability as well as experience. Apply in writing to: 32, London Road, Guildford.

MORRIS DE METZ, F.R.I.B.A., requires an assistant for interesting work. Salary from £950 according to ability and experience. 29, Gloucester Place, W.I. Telephone HUNter 2581/3.

TOUR-FIGURE SALARY. SENIOR ASSISTANT required in Architects' West End office. Varied interesting work. Applicants must be capable of taking responsibility and controling drawing office team. Box 9096.

TOUR-DAY WEEK. Opportunity for Juniors and/or post Intermediate Students to keep abreast with their school work and undertake interesting and varied office work including Schools, Hospitals, and Public Houses, Good salary according to qualifications and experience. Five-day working and overtime when desired, luncheon vouchers. Appointment by telephone ROYAL 6216. Stewart Hendry & Smith, F.F.B.I.B.A. A.M.T.P.I., 90, Fenchurch Street, London, E.C.3.

London, E.C.3.

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details, age, experience and salary required to Box 9213.

IN January I recommended a London firm of Architects and as a result several senior assistants have joined the staff. There are still vacancies in this First Rate Practice. I invite anyone interested to visit us by appointment for an informal discussion when I will give opportunities to see work in progress and the general method of working. This invitation is open to all grades of assistants and to final year students who think of starting work this Summer. Profit sharing and Pension schemes are available. Salaries are realistic and regularly revised. Write Box 9202 or 'phone Hunter 1711.

SIR ALFRED MCALPINE & SON LIMITED ARCHITECTURAL STAFF. Vacancies for Intermediate and qualified ARCHITECTURAL ASSISTANTS and experienced ARCHITECTURAL ASSISTANTS and experienced and commercial and industrial works. Salary according to experience. Hours 9.00 a.m. to 5.30 p.m. and 9.00 a.m. to 12.00 noon alternate Saturdays. Staff Canteen. Apply by post to—F. H. Marvan, A.R.I.B.A., Six Alfred McAlpine & Son Ltd., Hooton, Little Sutton, Wirral, Cheshire.

WELL known London and Provincial firm of architects urgently require a number of ASSISTANT ARCHITECTER, chiefly for commercial and flat development schemes. Salary us to 21,100 according to ability and experience. Reply Box No. 9199.

EXPERIENCED ARCHITECTURAL ASSISTANT and the global properties of the plant of the plan

BOX No. 9109.

XPERIENCED ARCHITECTURAL ASSISTANT, capable of handling job from design stage to completion of working drawings. Reply stating age and salary required, Architects' Department, Sir Lindsay Parkinson & Co., Ltd., 6, Lambeth Road, London, S.E.I. 9370

A SMALL EXPANDING PRACTICE in Hampstead carrying out varied and interesting projects require the services of a QUALIFIED ARCHITECT, also an intermediate standard ASSISTANT, aged 25/30, with drive and initiative, willing and able to accept responsibility, in return for the fitting rewards of a progressive practice. Will applicants kindly write details of age, experience and salary required to Kenneth C. Saunders, Lymington House, 341, Finchley Road, London, N.W.3.

Road. London. N.W.3.

ARCHITECTS and Students interested in schemes for new hospitals, offices, a university library, high flats, windmills, ships' ballrooms, a prestige restaurant, and amusing details such as lavatory pans, are still desperately required. All work is done from our new offices in High Paddington. Please write or telephone for a meeting to GEORGE, TREW & DUNN, 50, Eastbourne Terrace, W.2. PADdington 6611.

EXCELLENT opportunity for a senior top associated with three of the largest architectural projects in the country giving opportunity for designing almost every type of building. Accommodation provided in Georgiam house in Edgbaston. Apply John H. D. Madin, A.R.I.B.A., Chartered Architect. 83/85, Hagley Boad, Edgbaston, Birmingham.

BIRMINGHAM OFFICE of Ebery & Partage require ASSISTANT in Design Group spec-alising in modern housing. Salary up to 21.00 p.a. according to qualifications. 'Phone Victoria 4724 or write 24, Wordsworth Road. Birmingham

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A FIRM of Industrial Consultants have vacuaties for the following staff in their Architectural Dept. These appointments offer opportunities to work on a varied and expanding pregramme of Industrial Work in close co-operation with the Civil, Structural and Services Engineering Departments of the Company.

(a) SENIOR ARCHITECTURAL ASSISTANTS, Qualifications: Students R.I.B.A. Able to produce rapidly and accurately, under minimum supervision, working drawings and details. Salary: Related to ability and experience within the range £950—£1,100.

(b) ARCHITECTURAL ASSISTANTS, Qualifications: Able to produce under supervision accurate working drawings and details. Salary: Related to ability and experience within the range £750—£950 p.a.

The company offer, in addition to salaries optional pension scheme, payment for overtime five-day week, annual salary review.

Detailed applications for the appointments which are available in London, Bristol and Reading, should be sent to the Chief Architect, Bot 9284. REDS fully qua of for wor iscis. Exce

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COUNTRY practice with varied work including age restorations; restoration of historic bouses; on school work including or restorations; restoration of historic bouses; on school work including or restorations; restoration of historic bouses; on school work including or restorations. The private estates, shops and small industrial jobs of Garden ASSISTANT required of R.I.B.A. Intermediate to Final Standard, interested in accepting full good of responsibility from sketch plan stage to made accounts, including correspondence and site super which is the property of the pr

A RCHITECTS and ASSISTANT ARCHITECTS required for interesting commetcial, industrial and civic projects. Responsibly and initiative encouraged. Five-day week, god salary commensurate with ability and experience Ronald Ward & Partners, 29, Chesham Place S.W.1. BELgravia 3361.

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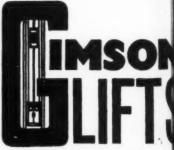
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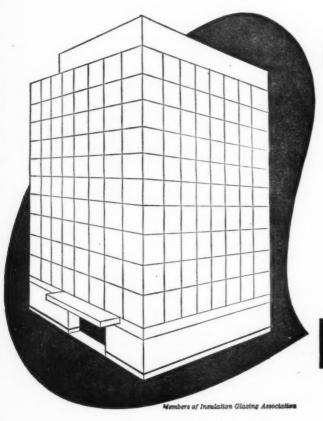
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