ARCHITE



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contents

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

COMMENT VEWS

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

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Institution of Heating and Ventilating Engineers. 49, Cadogan Square. Sloane 8266 IHVE

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W.C.1. Euston 2450 IIBD

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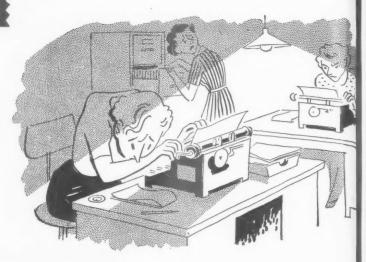
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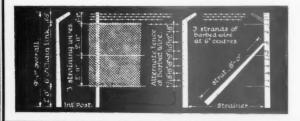
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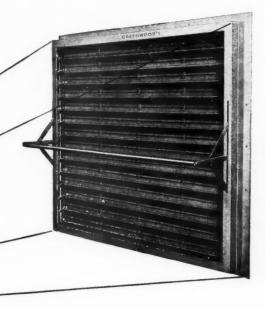
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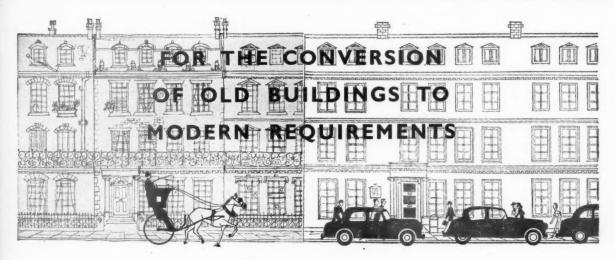


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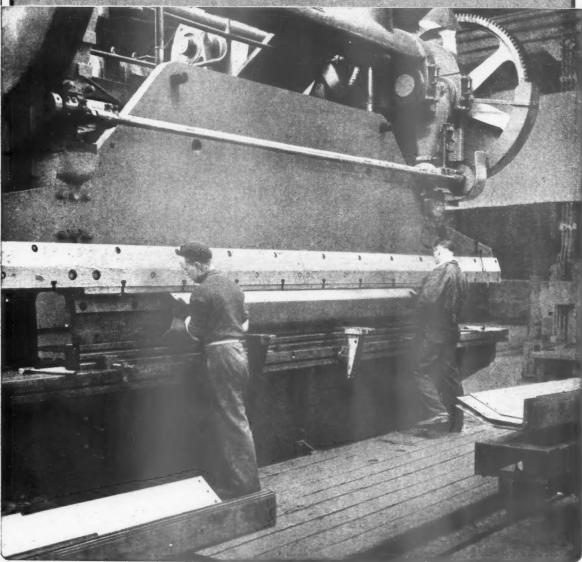
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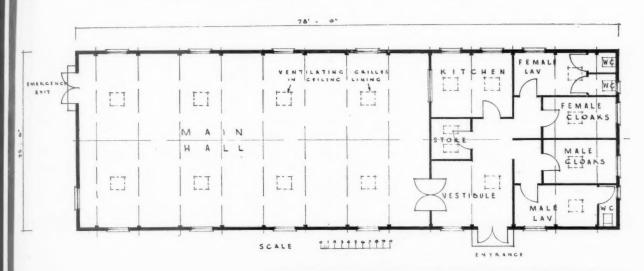
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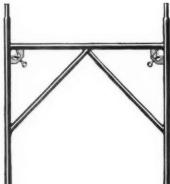
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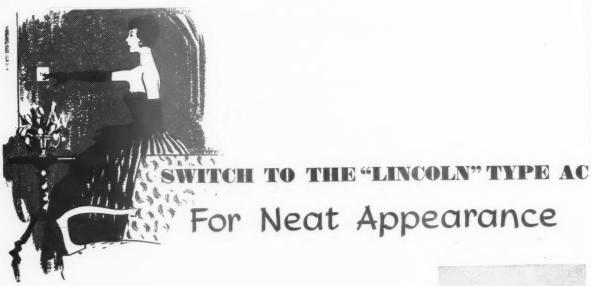
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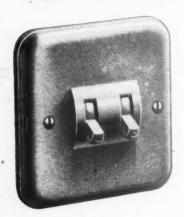


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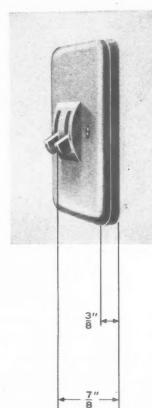
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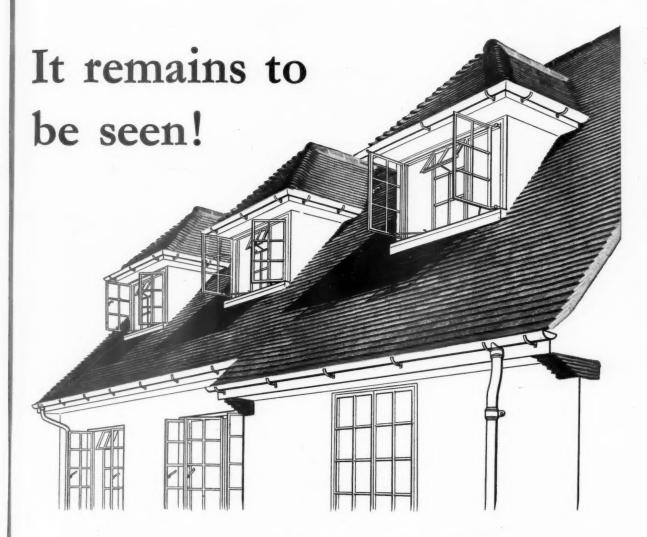
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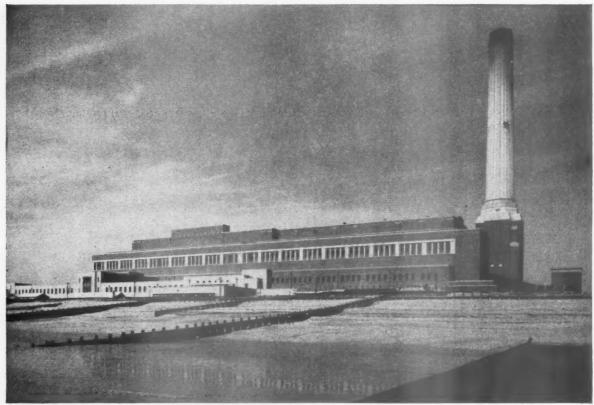
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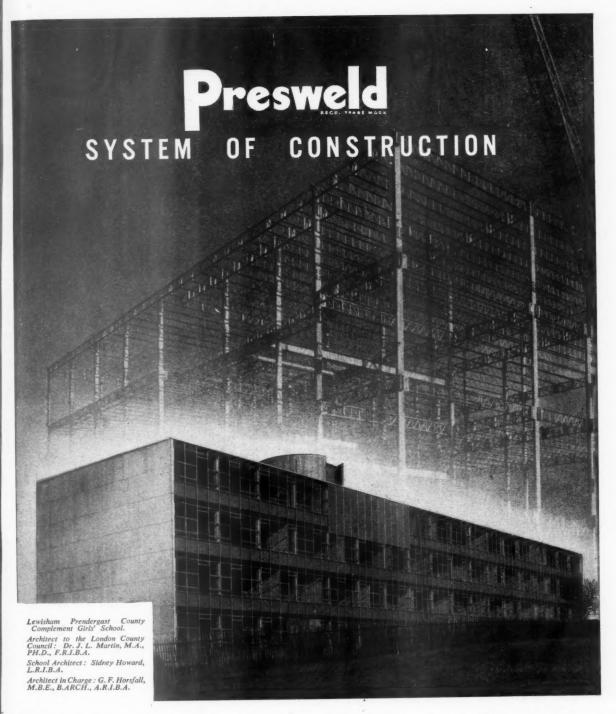
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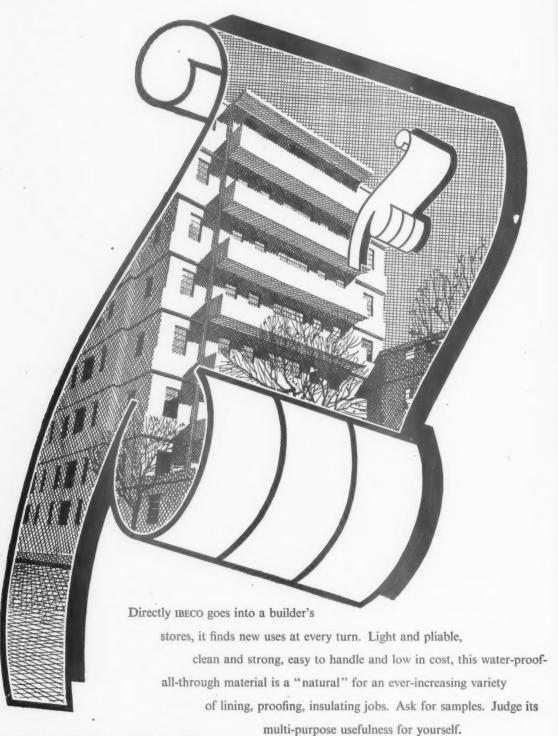
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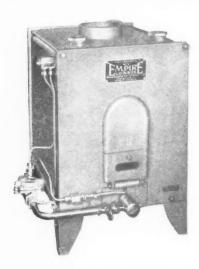


... these are some

These boilers are particularly suitable for direct hotwater supply systems where headroom is restricted, as the low return (7½ in. floor to centre) enables the cylinder to be fitted at a minimum height above the boiler. The two sizes (with rated outputs of 22,500 and 30,000 B.Th.U. per hour) can be supplied for installation in hard or soft water areas either in grey painted finish or in grey mottled vitreous enamel. A flame failure device and direct-acting thermostat are fitted as standard. Two central heating boilers with similar outputs are available in this range.









Designed for direct hot water supply in conjunction with an insulated storage cylinder, these boilers are available in three sizes with rated outputs of 22,500, 30,000 and 45,000 B.Th.U. per hour. The two smaller sizes are supplied with a bi-metal direct-acting thermostat and the No. 3 size has an immersion thermostat operating on a control valve. There is also another boiler in this range, the 3H, which is available for central heating. All boilers in this range are supplied in a grey painted finish.

These boilers are available in three sizes with rated outputs and capacities similar to the "Empire" boilers but have an insulated casing and are finished externally in grey mottled vitreous enamel. There is also a larger boiler in this range, the 3H, for central heating. Both "Empire" and "Emperor" boilers for use with soft water are bower-barffed and have non-ferrous pipe connections.



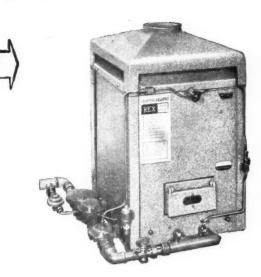


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No. 1 SERIES

The boilers in this series are for central heating and are of cast iron sectional construction with an insulated casing and are supplied with either a grey painted or grey mottled vitreous enamel finish. There are five sizes with rated outputs from 65,000 to 198,000 B.Th.U. per hour, and standard equipment includes gas pressure governor, adjustable thermostat and the "Perfecta" combined flame failure and pressure cut-off double duty device. Another range of boilers with similar outputs, known as D series, is available for direct hot water supply.



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No. 2 SERIES

These boilers are for central heating or indirect hot water supply and are available in five sizes giving outputs from 216,000 to 504,000 B.Th.U. per hour. The waterways are normally sent in two halves for assembly on site, the headers and platework being crated separately. Like all "Rex" boilers they have an insulated casing with removable front and rear panels and integral draught diverter, and are fitted with gas pressure governor, adjustable thermostat and the "Perfecta" combined flame failure and pressure cut off double duty device. The boilers are supplied with grey painted or grey mottled vitreous enamel finish.

No. 3 SERIES

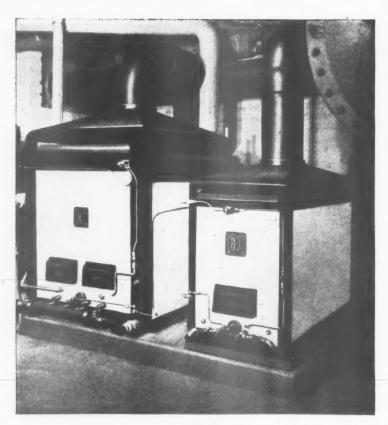
The design and construction of this series is similar to that of the No. 2 series boilers except that they are despatched unassembled and erected on site by our own skilled fitters. Six sizes are available with rated outputs from 625,000 to 1,250,000 B.Th.U. per hour. Standard equipment comprises gas pressure governor, adjustable thermostat and the "Perfecta" combined flame failure and pressure cut off double duty device. The boilers are available with grey painted or grey mottled vitreous enamel finish.





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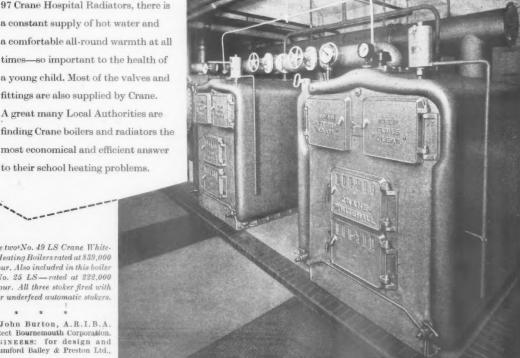


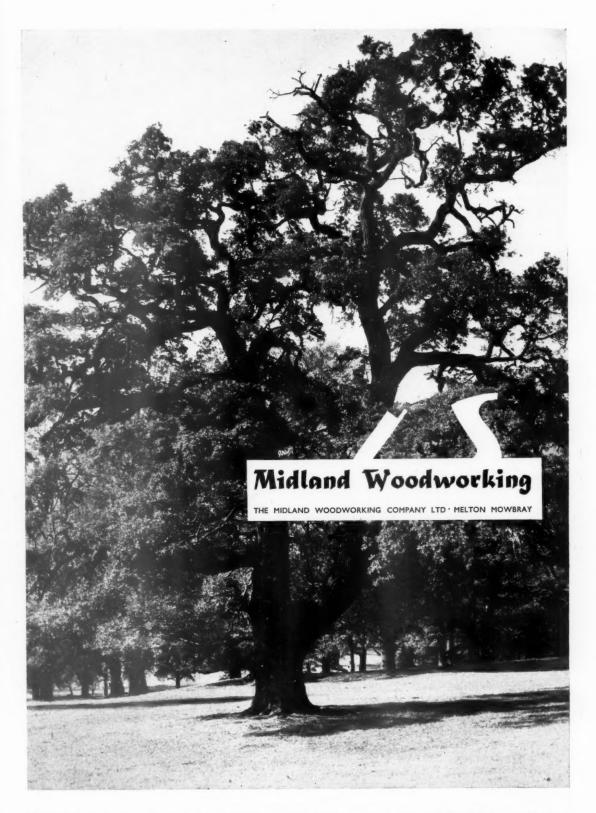
Photo shows the two No. 49 LS Crane Whitehall Sectional Heating Boilers rated at 839,000 B.T.U's per hour. Also included in this boiler house is the No. 25 LS-rated at 222,000 B.T.U's per hour. All three stoker fired with bunker to boiler underfeed automatic stokers.

ARCHITECT: John Burton, A.R.I.B.A. Borough Architect Bournemouth Corporation, HEATING ENGINEERS: for design and installation: Mumford Bailey & Preston Ltd.,

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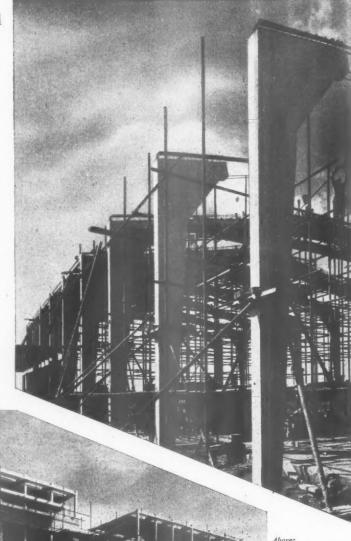
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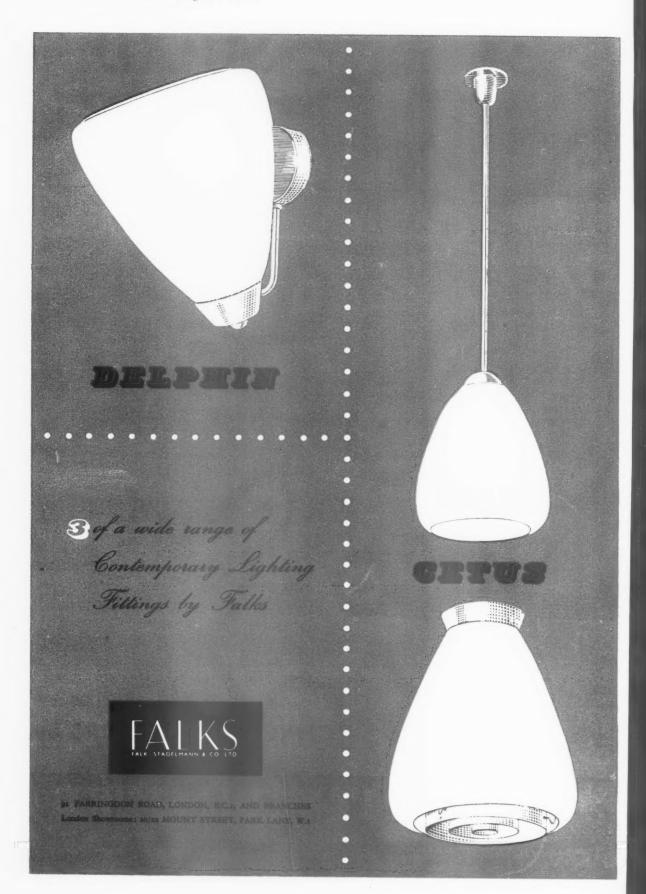
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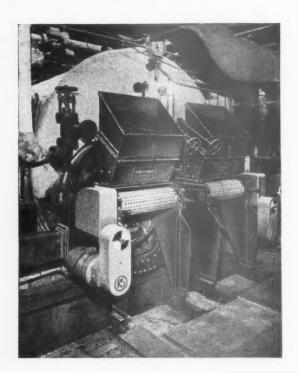




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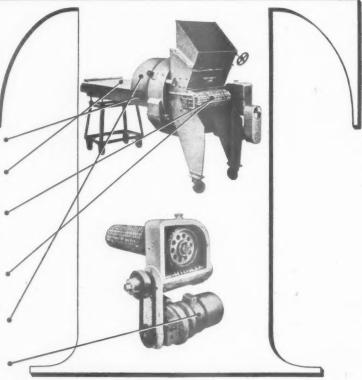
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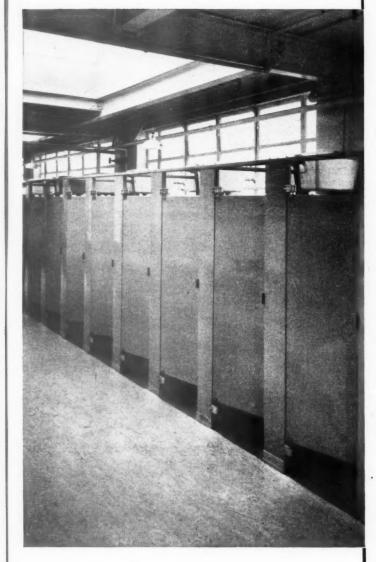
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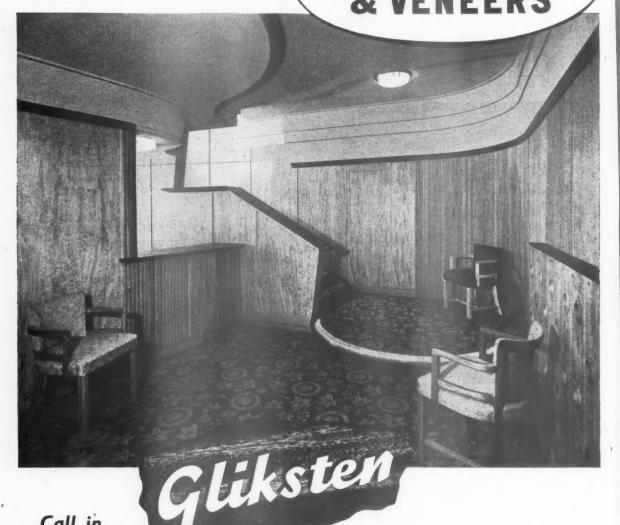
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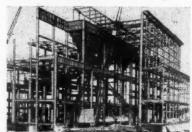
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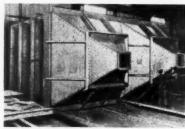
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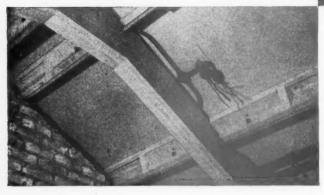
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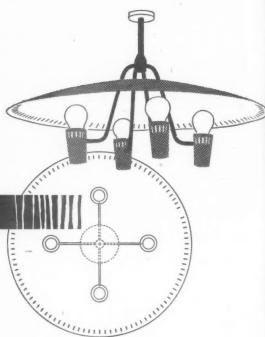
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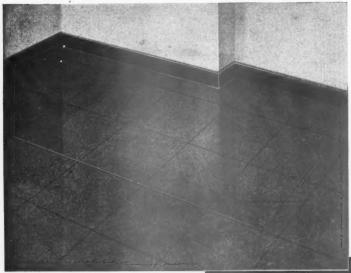
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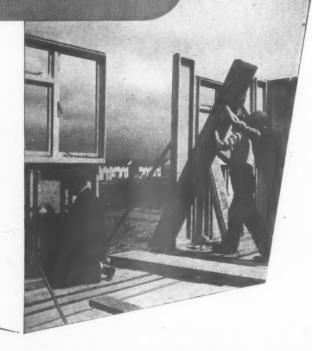
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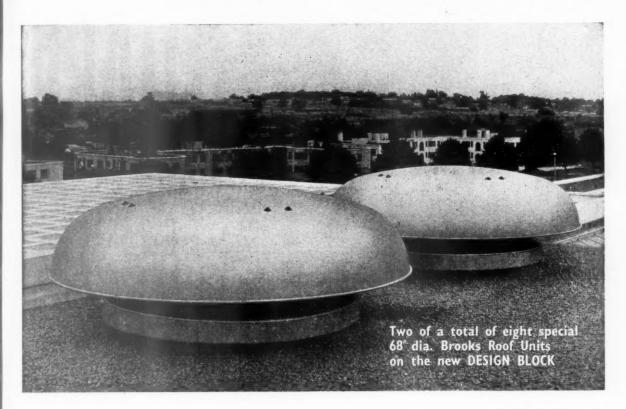
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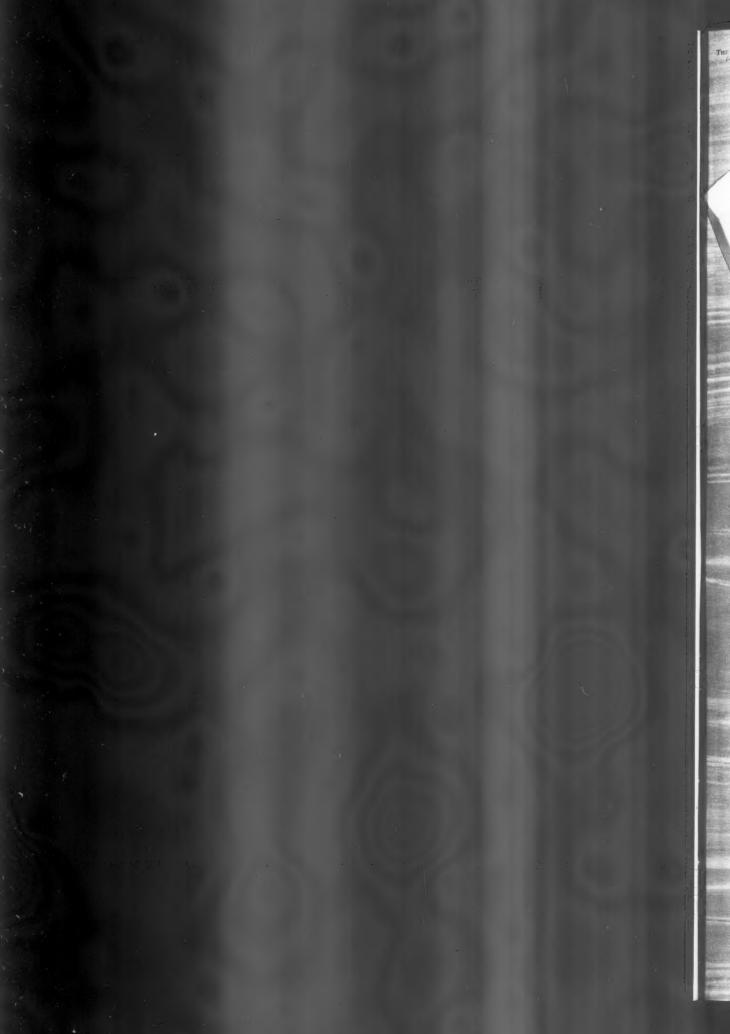
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THE ARCHITECTS' JOURNAL AUGUST 19, 1954

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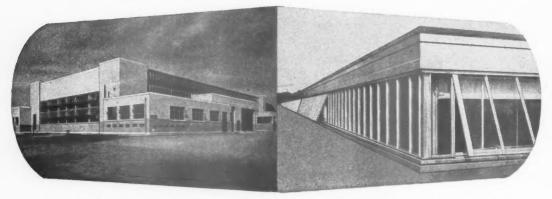
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FOOTNOTE: And here, in case you would like to read a complete book review is Vogue's, the whole of it. Short but

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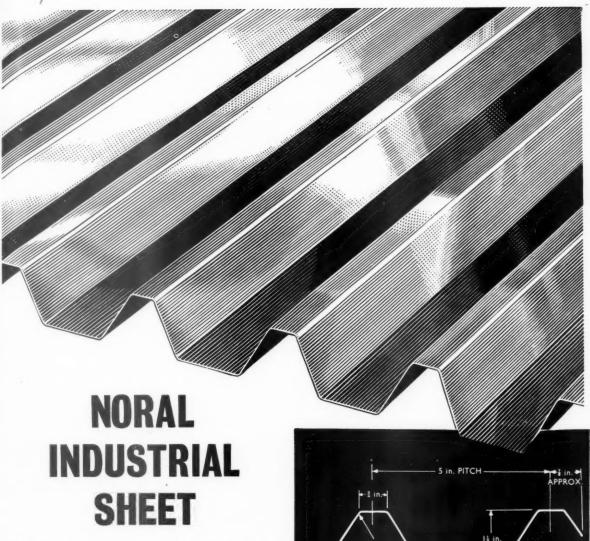
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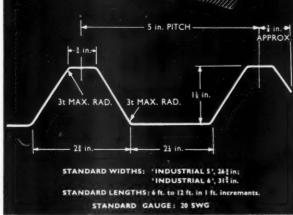


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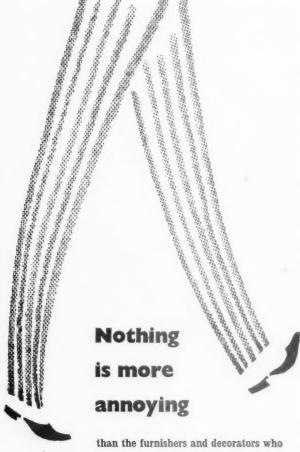


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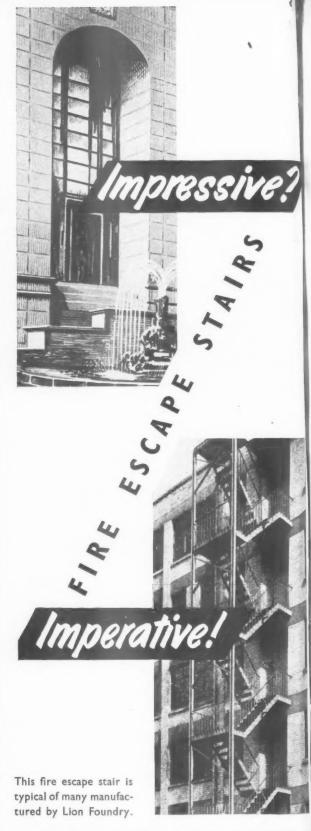
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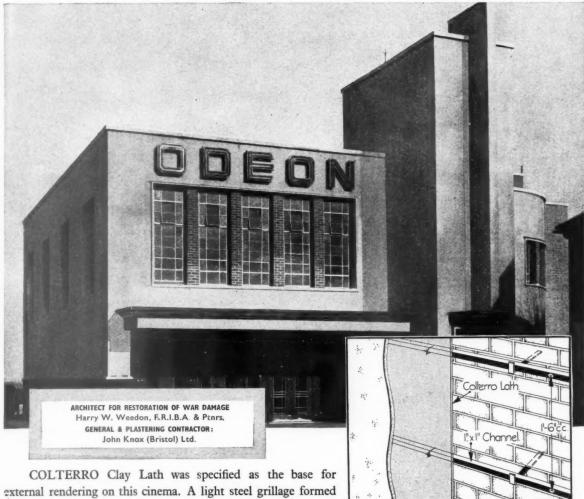
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ON NOT BEING " IN THE KNOW."

The news that the habitués—or should one say prisoners?—of London's new crop of coffee houses are now to have their own newspaper is curiously disturbing, for ASTRAGAL has yet to make up what passes for his mind on his entire mental attitude to these social phenomena which look like being even more of a rage than the yo-yo or mah jongg. Frankly he is uneasy about them.

'Pro,' so he argues, as he passes them sprouting like modish toadstools in every West End street, is their strong bid for European social habits—the late

hours, the open air (or semi-open air) eating, the endless conversation over a single cup of coffee—all admirable, and infinitely preferable (to ASTRAGAL's taste) to the sour-smelling gloom of the average public bar and the faut-bonhomie of the half-can type. 'Pro' too is the, generally speaking, lively—if derivative—décor of these establishments: gay colours, smart finishes, faintly raffish in their wholesale looting of the contemporary sources for decorative motifs.

They are, no doubt, just what London has always needed—somewhere to spend an hour in agreeable gossip over a coffee, somewhere to go after closing-time that isn't a night club, meeting a demand which has become vocal as well as urgent now that so many more people in this country have sampled the Continent.

'Con'? Well that's harder-almost impossible to define. Discomfort at seeing something sprout so quickly (it's almost sinister the way they hem one in on every side). Suspicion-or is it pity? -at seeing something good succeed too quickly and then hasten its own eventual doom. Middle-aged despair at being too old for the real habitués, the readers of the new newspaper. It's understandable that a local clientele will get to know each other, but how queer, how Paul-Jennings-and-Alfred-Hitchcock it is that they should come to know the clientele of other coffee houses, and thus be welded into some new society from which ASTRAGAL is inevitably excluded). And, finally, professional and totally unreasonable irritation at seeing so much good (or good enough) design being done so quickly, slickly and unaffectionately, so that it prevents one—almost—from using *that* sort of ceramic, *that* sort of lettering, *that* sort of photostat-wall ever, ever again.

THE END OF AN ERA

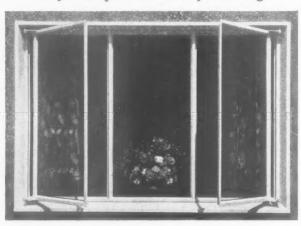
In recent years the boast "my car's a Cowley" has tended to emanate from two specific classes of persons; one bearded, in sweat-shirt and jeans, conjuring a picture of a broken-backed four-seater with bald tyres quietly dripping oil in Bedford Square; the other. with bristling moustache. flowered waistcoat and twelve-bore trousers, conjuring a picture of a wellpreserved drop-head with yellowpainted wheels, Regency-striped side panels and Maisie in ornate bargepainter's lettering across the lid of the dicky. The latest machinations of the British Motor Corporation, alas, have now put a term to these eminently postwar phenomena, and the remark, now coming from a quiet type in a dark suit and made-up bow tie, will simply designate ownership of an equally quiet motor-car, discreetly chrome-trimmed, and thoroughly "family" in appearance.

Sentimentality at the ending of an epoch—inevitable anyhow as these ancient monuments of automobilism slowly disintegrate—should be tempered with a welcome for what appears to ASTRAGAL to be the return of reason in motor-car design. Having ridden in one of the new Cowleys one can say that though their performance will not frighten many maiden aunts, one can stuff a vast number of persons, baggage and what-you-will into them without



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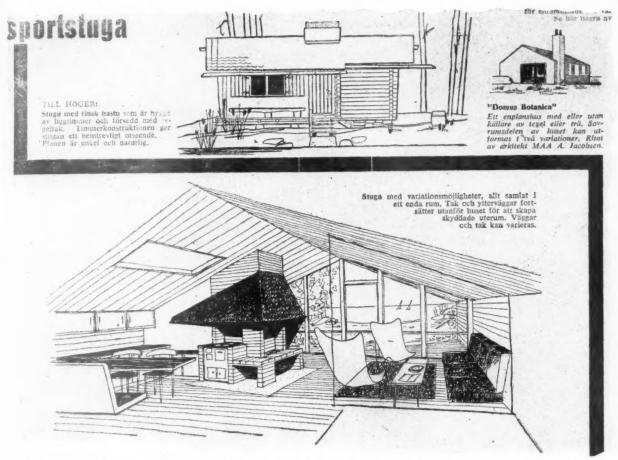
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This illustration from a Swedish newspaper shows part of an advertisement for a book of house-plans (architect-designed). This type of development, which is commonplace in Sweden, should make us all the more ashamed of the Government-approved, inferior type of private building which is now desecrating our countryside under the guidance (or dictatorship) of building societies and estate agents. (This week's editorial, on page 215, discusses the influence of building societies on house-design, and the frontispiece overleaf gives an indication of the power of the estate agent.)

internal conditions becoming too squalid, without breaking the springs, and without rendering the ensemble incapable of climbing main-road hills. Its exterior would not have earned it immortality in the pages of Towards a New Architecture, but there comes a time when one begins to care less about stylistic niceties than about the amount of transportation one gets for the money—supposing one has the money that is—and the Cowley offers a lot.

A MODEL GUIDE

What does one ask of a little guidebook to a group of ancient monuments? Clearly drawn plans; some good photographs; factual (rather than rhapsodic) descriptions with sufficient historical background; perhaps a glossary. these-and nothing superfluous-are provided in MOW's new little book* on castles, which can therefore be called a

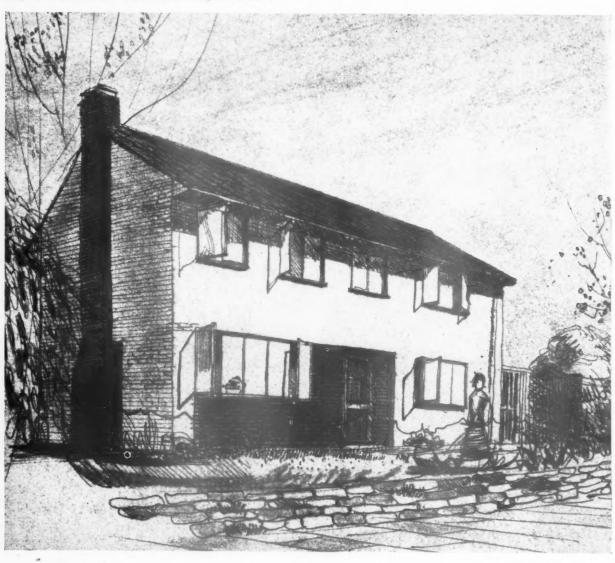
model of its kind, and its price is as modest as one could ask.

It is naturally particularly concerned with the many fine castles in England and Wales that are in the Ministry's care, but covers the whole field well, nevertheless, and includes a useful list of the best examples in the country (whether publicly or privately owned) of the various types of castle. ASTRAGAL recommends it to all tourists and travellers and since it is a book of historical fact, not antiquarian policy, refrains from discussing here the difficult question of the proper treatment of ruins and his disapproval of the Ministry's tendency in the past to spoil their romantic character by too much tidying

LSD FOR THE IIT

ASTRAGAL has received a little booklet containing the speech made by President Rettaliata, of Illinois Institute of Technology, at a luncheon given at the Chicago Club to collect funds for the new Mies van der Rohe building on the IIT campus (photograph, page 218). This building, which is to cost £250,000, is to contain the three departments of architecture, design and planning and will be built on the site of one of Chicago's most famous buildings "the Mecca" apartments. President Rettaliata's address is a little masterpiece of its kind. It quotes Toynbee and Defence Secretary Wilson on the future (" Midway in this 20th century Man finds himself at the end of the beginning of this industrial era."). It points to a future of promise and lofty aims . . . " broadening the facilities of the department of architecture, streng-

^{*}Castles: an introduction to the castles of England and Wales. By B. H. St. J. O'Neil, Chief Inspector of Ancient Monuments, Ministry of Works. London: HM Stationery Office. Price 3s. 6d.



Not to be Built-By Order



The house above is not to be built, although planning consents were received by the architect. Why? Because it is "far too modern"..." detrimental to the amenities of the neighbourhood"..." not the sort of thing local estate agents could re-sell or building societies happily finance." Who says so? The estate agents who are responsible for the sale of the site. The agents wished to see all elevations as a condition of sale of the site, and several attempts by the clients and the architect to convince them that the house was not unconventional in appearance led only to the agent's conclusion that "after careful consideration a house of modern style could on no account be built on the site." Consequently the site is now up for sale and will doubtless soon be marred by a bay-windowed horror with all the usual "architectural" treatments we associate with "spec" (short for "respectable") building. The really sad thing about this story is that the estate agents employed a qualified architect to advise them. In his letter on page 217, in which he tells the whole story, the rejected architect says that his experience weakens the argument that compulsory employment of an architect will result in higher aesthetic standards. There will always be the qualified man whose design standards are a disgrace to the profession. But we could not be persuaded to drop our reiterated request for legislation by the Housing Minister just because there are a handful of men in the architectural profession who can produce work almost as bad as the "spec." builder's worst. The Minister must make the architect's services compulsory to builders. Once that is done we can turn our attention to architects who are doing shameful work for the building societies and estate agents. One thing at a time.

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thening the distinctive Institute of Design ... creating a new department of urban and regional planning" The Chicago school is mentioned. The Bauhaus is dragged in, with all the trimmings, and then follow facts, figures, costs and approvals for the new building from solid architectural citizens. "From the first, Nat Owings, of Skidmore, Owings and Merrill, has been insistent that this plan is sound and should be put into operation"

All the stops are out, and if IIT doesn't get its new building very quickly it will not be for want of trying in the right way. ASTRAGAL recommends British fund-collectors to study President Rettaliata's methods carefully.

"DAMN-THE-EXPENSE" ARCHITECTURE ASTRAGAL has at last got round to skimming through Alva Johnston's "The Incredible Mizners," and has found it-in the words of . . . who-wasit?-a riot of fun. It is the story of Florida during the boom days of the 1920s, and of the men who made it; men like Addison Mizner and his patron, Paris Singer, sewing-machine heir and protector of Isadora Duncan, who had practically been raised in Buckingham Palace by Queen Alexandra. Mizner, like Singer, went to Palm Beach to die. Both men got bored with the idea and turned their energies to building. In a few years they had transformed it into a plaster-modern Venice, and had set Florida on the path to boom and bust.

It was Mizner who really introduced the so-called Spanish style into the USA. Yet his ideal building, as he explained it, was really "based on romanesque ruins that had been rebuilt by the Saracens, added to by a variety of conquerors, bringing in new styles from Gothic to the baroque and picturesquely cracked up by everything from battering rams to artillery duels between Wellington and Napoleon's marshals."

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When told by one contractor after ordering a major alteration that it would be expensive Mizner retorted: "these people can't stand the sight of anything that doesn't cost a lot of money." It is not surprising that even boom Florida called his architecture "damn-the-expense style."

ASTRAGAL

* Rupert Hart-Davies. 12s. 6d.

POINTS FROM THIS ISSUE

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Nuffield	Health	Ce	ntre,	Corby	7	. des	cribed	and	
illustrated									page 219

The Editors

BUILDING SOCIETIES: FIRST DOUBTS

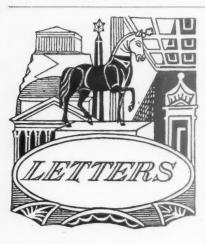
HEN a representative of the Building Societies Association was interviewed at the Association's exhibition (see AJ, May 13), he claimed the design of houses was not their business, and that they were only concerned with finance. However, as has since been shown in a leading article, in the Journal's correspondence columns, and in a recent editorial note in the Manchester Guardian, many building societies are not satisfied merely with ensuring a satisfactory standard of construction but dictate a standard of design as well. Their standards of construction are frequently, it would appear, very old-fashioned, so it is hardly surprising that their design sense is old-fashioned too. Even more regrettably, their design sense is often not only old-fashioned but downright bad, or non-existent.

That some of the building societies might not be engaged in creating architectural delights for next season's overseas tourists—and might even be driving some away—has occurred to the editor of The Building Societies Gazette. For in this month's leading article titled, "Building Britain's Beautiful Homes: Are Building Societies Helping or Hindering?" he asks whether "building societies should influence the design of new houses . . . if so, how that influence would be best employed to the public advantage." He decides that the "gravamen of the complaint against building societies is, surely, not that they take an interest in the design of houses "—(indeed it is not, their influence on good design could be immense)— "but that their judgment does not conform in particular cases with that of some architectural schools of thought." Now our complaint against the work of certain "spec." builders and housing societies is not due to our being a different " architectural school of thought." The buildings about which we complain are not the product of a designer from a different school-the designer, if he can be called such, belongs to no architectural school at all.

That is our complaint. It would be galling for us, as advocates of modern architecture, if prospective clients for houses insisted on their architects designing in period styles, but we know that, within the limitations of such anachronistic styling, the designs would be competently done. That is vastly preferable to having no qualified designer handling the houses at all, as is so often the case now. To the complaint that there are some very bad architects in the profession, one can only reply that the work of the profession's worst architect will be vastly preferable to that of the worst speculative builder.

It is to be hoped that this leading article in The Building

Societies Gazette will, with the following words, at least sow some seeds of doubt in the minds of those short-sighted builders and building societies who do not employ architects. The Gazette's editor says: "... every effort should ... be made on all sides to ensure that the greatly to be desired improvement in design and amenity should become standard. Certainly the building societies would not desire to oppose the aims of the architects "-which is fair enough.



C. A. V. Smith, A.R.I.B.A. D. R. Tong, Student R.I.B.A.

Thomas Peatfield John Bruckland, A.R.I.B.A.



"Spec." Building: More Letters

SIR,-In your issue of August 5 you publish a letter from Mr. Hewitt who gives the builders' point of view regarding the design of ers' point of view regarding the design of speculative houses, but in which he contends that the title "speculative" is a misnomer. The adjacent letter from Mr. Jeffrey Webb, published under the heading "The Dangers of Mixing," seeks advice on how the young architect may set about the acquisition of a few clients who might entrust him with more remunerative work than an extension to aunty's greenhouse. I suggest that such young architects might approach Mr. Hewitt for the purpose of obtaining a position in Mr. Hewitt's office.

Mr. Hewitt says that the houses his firm erect are built to the customers' own requirements and not those of his firm. He also says that the plans are passed and approved by the customer before a brick is laid. All this indicates that someone has to prepare plans and specifications, just as is done in an architect's office. Therefore it is reasonable to assume that Mr. Hewitt's firm employs one or more draughtsmen for this purpose. These draughtsmen may or may not be registered architects, and no doubt their counterparts are found in many architects' offices. Presumably Mr. Hewitt pays his draughtsmen, and since he contrives to sell his houses at

a profit he must include in his selling price a sum adequate to cover the cost of his drawing office, and that cost being an outgoing his firm presumably adds a profit to that item, along with all the other components of his buildings. Therefore the client is, in fact, paying for drawing office services, and although these services may not cost Mr. Hewitt as much as they would if he were to go to an architect in private practice, the fact that Mr. Hewitt is presumably adding a profit on those costs means that his customer is paying just about what he would pay an independent architect, but because he does not see a separate bill from the architect feels that he is saving the cost of the architect's fees.

However, if my argument so far is correct, the customer's position is that, while paying the equivalent of the architect's fees, hidden cost of the house, he is not receiving the independent advice and protection which the independent architect can and does pro-vide. No doubt Mr. Hewitt's firm is thoroughly reliable and none of his customers ever have any complaints, either in regard to workmanship or design, but if some less reputable firm should adopt a similar policy and the workmanship should prove unsatisfactory, the client would be faced with the attendant expenses of solicitor's fees and possibly those of technical consultants, in

order to obtain redress.
Furthermore, I suggest that any contractor providing the services of a drawing office staff must tend to require that that staff produce designs and use methods of construction most suitable to the convenience of the par-ticular contractor, and the customer does not therefore obtain the advantages of independent advice which would give him the oppor-tunity of learning about new materials, fittings and methods of construction. Because of this the customer's knowledge of housing possibilities remains at the level prescribed by the so-called speculative builders, and so naturally if he can learn of nothing better he is easily satisfied with what the speculative builder provides.

The practice of the speculative builder in employing his own drawing-office staff means that he is combining the offices of architect and builder, though by Act of Parliament he is not allowed to use this dual title, and so while remaining within the law he usurps the privelege of the architect by calling himself only builder or contractor. His clients who have mostly thought that an architect and a builder were one and the same thing, are content to let him play this dual role. As the tendency for contractors and also large organizations, such as the chain stores, to employ their own drawing office staff continues to grow, so the architectural profession will find it more and more difficult to make a living except by seeking employment with those concerns who are simply selling architecture as a sideline.

SIR,-In reply to the letter from Mr. G. S. Hewitt: I would like to bring to notice that whilst I deal mainly with speculative builders and their customers, I am usually able to convince them that the architect's ideas, properly carried out, are the best.

C. A. V. SMITH.

The thing to remember is that the average

builder or his customer can only appreciate those things with which they are familiar and are not, in fact, being given something they do not want, but are having presented to them something they had not previously

This will, without doubt, improve their appreciation for well-designed houses and their desire for better living.

D. R. TONG.

Reading.

SIR,-In blaming the "spec." builder for the return of all the architectural horrors of the pre-war housing boom, I do not think you reach the root of the problem. war semi-D, which is such a familiar feature of the suburbs and country, with its stock plan, bay windows and so on, has come to be accepted as the norm by the prospective puchaser, building societies, ground land-lords and very often even the town planning authority, as well as the much-maligned

Any architect who tries to get away from it and, by ringing the changes, endeavours to create a more varied and attractive suburban environment, will find that any attempt to depart from the norm will be blocked somewhere, especially if the proposed design is more economical than the standard semi-D. If one has an intelligent client who approves an unconventional proposal, it is sure to be squashed somewhere by the vendor's coven-ants on the sale of the land, or the ground landlord's estate surveyor, or the building society, or the town planner, or the local authority's building surveyor. Thus, the near-miracle of something like six separate lawyers, estate agents, town planners and other non-architects coinciding in passing your proposals is needed before the job can go through.

Even in the London County Council-in many ways the most enlightened of town senior planning authorities—there are senior officials like Mr. C. D. Barnard, who, speaking on Building Byelaws at the RIBA on June 15 said: "I am very strongly opposed to this idea of flexibility at all."

This opposition to all forms of experiment seems to be a national characteristic. In many other forms of activity as well as architecture, men with ideas seem to encounter obstruction. Too many timid men control part of our national life, and if an English architect wishes to put up a distinguished building, he has to emigrate.

It is one thing for an architect to give his

client what he wants, and quite another to be forced to take instructions from all sorts of forced to take instructions from all sorts of surveyors, estate agents and others, all of whom attempt to usurp his duty to design for his client the most suitable and economical building he can. Is it not preposterous that the director of a building society should presume to know better than the architect what are the most suitable materials. architect what are the most suitable materials for the construction of a roof, that a local government official who cannot be bothered to learn the new ways of building should insist on 9 in. walls in cases where other forms of construction may be cheaper and better, or that an estate agent's preference for Tudor or Georgian (or "Contemporary," for that matter) should stand between your client and the realisation of his reasonable requirements?

No doubt all these officials visualise themselves as the guardians of prudent standards of design and construction, but collectively they create the new suburban slums, rob your clients, and are so many stumbling-blocks on the path to national recovery. Until this clutter of timid and narrow-minded men is swept away, and every legal covenant which restricts the architect's prerogatives is declared void as being contrary to public policy, you will get the semi-D, the one design which can be relied on to pass every

hurdle.
The "spec." builder and his customers are almost as dissatisfied as you are, Sir, with a nev profe practi ing t better more get ri poor living

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the semi-D, and look to us architects to set a new and better standard. There is in our profession today no shortage of good and profession today no shortage of good and practical-minded designers capable of making the homes of the future cheaper and better in every way, set in layouts which are more economical and more varied and charming. But until we as a profession can get rid of the opinionated dullards who obstruct our plans, few of us will blame the poor builder, who would like to build good towns but in the meantime has to make his living as best he can. living as best he can.

THOMAS PEATFIELD.

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SIR,—In support of your plea for curbing the sad return to the inferior pre-war aesthetic standards in current private housing development, may I for a moment draw the fire from the speculative builder. Instead, may I direct it firstly at the numerous estate may I direct it firstly at the numerous estate and property companies from whom the developer of the single plot invariably has to obtain approval of elevations, and secondly at estate agents and surveyors who are at liberty to display prominently in their show windows comprehensive lists of professional services rendered, supported by coloured plans and "art work" of a quality on which I need not elaborate. Alas, the code of professional conduct prevents my application fessional conduct prevents my application for a stick of Jeffrey Webb's rock (A.J. August 5) accompanied by the suggestion to

adopt a similar expedient.

My present remarks, however, relate to the first category, with which I have recently had

first category, with which I have recently had personal experience, which other members of the profession may not find unique. I have recently had a design for a small private house rejected by an estate company, on the advice of their staff architect (an F.R.L.B.A.) despite the fact that during the course of rather protracted negotiations with the estate company. I obtained town planning the estate company I obtained town planning consents without question (one up for Mr Macmillan this time!). As my clients required a very conventional house of traditional appearance it seemed unnecessary to make a preliminary approach to the estate company, who required to approve all elevations as a condition of sale of the site, one of several on a tract of land in the Surrey suburbs. My drawings were therefore well advanced in all drawings were therefore well advanced in all stages when I arranged an interview with the staff architect. With scarcely a moment's consideration my professional senior informed me, to my astonishment, that the design was "far too modern...hardly to the liking of his directors...good of its kind but discordant with its surroundings... detrimental to the amenities of the neighbourhood...not the sort of thing "people" like, local estate agents could re-sell or building societies happily finance." Furthermore, prospective adjoining owners would building societies happily finance." Furthermore, prospective adjoining owners would apparently be repelled by the idea of having to build near it. My attempt at raising architectural considerations was casually dismissed. Had I been prepared to introduce bay windows, leaded lights, hipped roofs and similar "architectural" treatments consciouses on designs for adjoining ments conspicuous on designs for adjoining sites shown me to illustrate the acceptable criteria (some by "architects of repute" for their own occupation) no doubt I would have fared well. I was unwilling to compromise so my scheme was to be referred to the directors when the staff architect would "do what he could" for me.

A few days elapsed when I learned that, without further reference to me, my clients had been informed direct that the company were not in a position to approve a design

"were not in a position to approve a design of modern elevation" but invited my clients to talk things over with the director. My clients proved to be equally uncompromising and gave me fullest support by refusing to concede any variation to the elevation. All possible arguments in favour of the design were advanced, by which the director seemed favourably impressed, if not willing to make a final decision. Optimistically I decided to

submit my Town Planning and Bye-law applications. Over a fortnight elapsed before my clients received a further letter stating that "after careful consideration a house of that "after careful consideration a house of a modern style could on no account be built on the site "and the company would be glad to find my clients a customer for the site if they wished. A few days after this I received my Town Planning consents—but as it appears we have no redress, on the initiative of my clients the site is now up

for sale.

I enclose a sketch of the house (see page 214: Eps.), for which I make no special claims to architectural merit excepting an application of fundamental principles to the assembly of simple elements and traditional materials. For such exception to have been taken by a company employing a have been taken by a company employing a senior member of the profession seems quite incomprehensible. It further weakens the argument which insists that the compulsory employment of an architect will result in much higher aesthetic standards but it is difficult to establish a method of ensuring that the most discriminating persons can be selected for the onerous duty of vetting other architects' work sympathetically.

JOHN BRUCKLAND.

N E W

Building Research Proposals

At the invitation of the MOW the Royal Sanitary Institute has suggested a number of problems to which the former might give consideration in connection with its programme of building research to be undertaken during 1954-55.

The RSI says that complaints have been made of condensation, particularly where solid walls are necessary, such as in blocks of four-storey flats. It recommends advice on this matter from the Building Research

on this matter from the Building Research Station, as to what can be done to obviate condensation troubles on wall and ceiling

It also raises the question of sound insula-tion in blocks of flats, and mentions the need tion in blocks of flats, and mentions the need for data concerning the effective use of light weight blocks, insulating board and similar material, which could be added to one or both sides of the wall.

On the subject of smoky chimneys, it recommends further investigations in respect of blocks of dwellings of differing heights.

The Institute considers that the question of condensation in regard to houses is an urgent matter, warranting some priority in investigation.

gation.

Other matters to which the Ministry's attention is drawn are heat conservation in buildings used for livestock, paints and other preservative treatments for agricultural machinery, and research into the efficient ventilation of small dwellings.

PADDINGTON

High Flats Opposed

Paddington borough council, who want to erect three 15-storey blocks of flats have been refused planning permission for the scheme by the LCC on the grounds that the council want to reserve the major part of the site for a county college and consider that the proposed flats would have a population of excessive density.

The borough council are determined to continue with their scheme, if possible, and the Minister of Housing and Local Government will decide, after a public inquiry to be held on October 12, which of the two projects shall go forward.

go forward.

The flats, which would have shops and store

rooms on the ground floor of each block, would house a total of 253 families. They have been designed by R. A. Jensen, Padding-

have been designed by R. A. Jensen, Paddington borough architect and housing director, and could be built in about three years.

The LCC's objections to the scheme are based on its lack of conformity with the London development plan, now before the Minister. Under that plan, a greater part of the site has been earmarked for a county college, and a population density for the area of 136 persons an acre is envisaged. The proposed flats, it is claimed, would give a density of 320 persons an acre, and would be "out of scale" with buildings in the surrounding area.

Paddington council, on the other hand, argue that, with housing accommodation so scarce, it would be unjustifiable to hold up further it would be unjustifiable to hold up further development of the site, possibly until 1974, since the proposed county college is scheduled to be built some time within the next 20 years. The council claim that although the proposed height of the flats is 138 ft., there would be no overshadowing as the site is largely surrounded by public open spaces, such as Paddington Green and St. Mary's Churchyard. Churchyard.

Taking into account these open spaces, add the council, the scheme would entail a gross density of only 124 people an acre. One of the major advantages claimed for the scheme is that it would replace the derelict buildings now on the site and provide new accommoda-tion not only for the 70 families occupying those premises but for 183 others as well.

HOLLAND

Dudok Celebrations

Willem Marinus Dudok, the Dutch architect, who reached the age of 70 in July, was given an official birthday celebration at Hilversum on August 5. The celebration was organized by a Committee headed by the Burgomeester and took the form of a meeting in the Council Chamber of the Hilversum Town Hall.

Burgomeester J. J. G. Boot, who presided, read an address and presented Dudok with a specially-bound copy of a new book of

read an address and presented Dudok with a specially-bound copy of a new book of his works which had been compiled as a tribute to him. Speeches were made by various delegates; Monsieur Marc Bitterlin President, of the Academy of Architecture of Paris, presented Dudok with the Academy's Gold Medal, Francis Keally, of New York, represented the American Insti-tute of Architects, and Eric Bird, editor of the RIBA Journal, read a message from the President of the RIBA, and also presented an autographed and inscribed copy of the Architectural Press publication, "Town Design," by Frederick Gibberd. F. R. Yerbury, director of the Building Centre, Yerbury, director of the Building Centre, was there by invitation as a personal friend and also represented the Architectural Association, who charged him with the presentation of a parchment scroll of greetings. H. W. Wyllie represented The Royal Incorporated Institute of Architects of Scotland. Other speakers represented official departments and organizations in Holland.

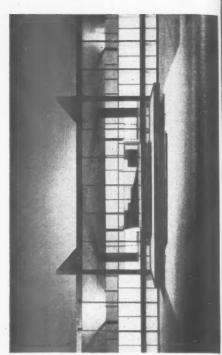
DIABY

New Life for Older Houses. Conversion of early nineteenth century houses to modern flats by the MOHLG. At Holles Street, off Oxford Street, W.1. UNTIL END OF AUGUST LCC Open-Air Sculpture Exhibition. Holland Park. Daily, including Sundayr. 10 a.m. until dusk. UNTIL SEPTEMBER Current, Apprican Practices in Heating. Holland Park. Dany, Month of the line of the limit of the line of



T BUILDING DESIGNED BY MIES VAN DER ROHE

This is a model of a building which is to house the department of architecture and industrial design of the Illinois Institute of Technology, in Chicago. The building, designed by Mies van der Rohe, who is head of the Institute's architectural department, will also house a new department of urban and regional planning. It will be the wentieth building to be put up during the past ten years on the Institute's new campus. (Most of these have been designed by Mies van der Rohe). The concrete roof of this welded steel structure (of more than 52,000 square feet) will be suspended from exposed steel girders. The floor of the central main hall will be raised froe workshops, storage rooms, lecture rooms, toilets and "mechanical facilities." Each side of the main hall will feet above the ground to permit natural light and ventilation in a basement which will comprise enclosed studios, The all-glass walls will have opaque lower sections. (ASTRAGAL writes on page 213 about a campaign to raise funds for the building.) be a drafting area.



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HEALTH CENTRE

at CORBY, NORTHAMPTONSHIRE

designed by R. LLEWELYN DAVIES, director, Division of Architectural Studies, the Nuffield Foundation, chief assistant: J. WEEKS; senior assistant: WALTER GODDARD,

associated architects and surveyors: GOTCH, SAUNDERS and SURRIDGE

The Nuffield Diagnostic Centre, in the new town of Corby, has three blocks; one for consultation and reatment, a second for chest clinic and X-rays, and a third for physiotherapy. Some of the consulting rooms are rented by local doctors; others will be used by the Oxford Regional Hospital Board, which has provided and staffed the chest clinic and X-ray departments. The Centre was built as an experiment to demonstrate that the essential requirements for a diagnostic centre can be provided at a reasonable cost. Economy was, therefore, an important consideration, both in the design and in the choice of materials and finishes.

The main entrance.



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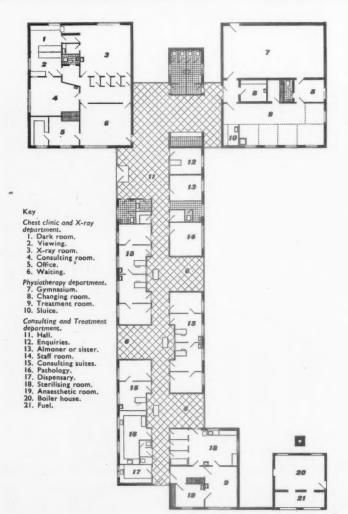
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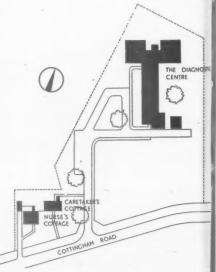




Above: another view showing the main entrance. The block jutting out to the left of the entrana contains the X-ray department. Beyond it is the sloping roof of the gymnasium, Extreme left: the gymnasium, from the west. The small block in the foreground contains lavatories. Left: the gymnasium.

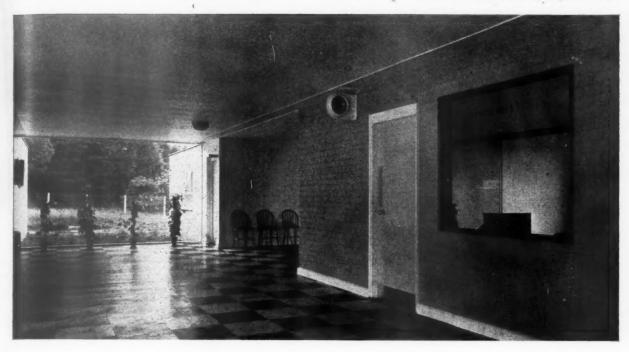


GENERAL.—This Diagnostic Centre is not a "health centre" in the accepted sense: it is not provided by a local authority, it does not include all the facilities laid down by Section 21 of the National Health Service Act, 1946, and the general practitioners concerned will not work as a group in the centre. The family doctors of Corby will retain their existing surgeries, but patients needing more complete examination or investigation will be given appointments at the Diagnostic Centre, where the general practitioners will rent some of the



Site plan

Above.
main e
page.
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Below:
other
centre
Beyonu
sister's



Above: a view looking to the left just inside the main entrance doors, which are seen on the opposite page. Beyond the chairs in the background is a small lavatory block, which is also shown opposite. Below: a view of the entrance hall looking the other way. On the right of the corridor in the centre of the picture is a row of consulting suites. Beyond the enquiries window on the left is the sister's room, and beyond that is the staff room.

HEALTH CENTRE at CORBY, NORTHAMPTONSHIRE designed by R. LLEWELYN DAVIES



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HEALTH CENTRE

at CORBY, NORTHAMPTONSHIRE designed by R. LLEWELYN DAVIES

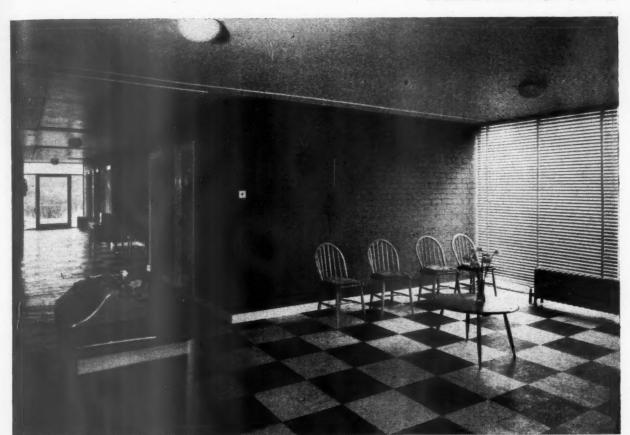
A view from the south-east. On the extreme right is the boiler-room. The X-ray department on the extreme left is also seen in the left of the photo below, which shows, in the foreground, the window of a waiting room. Opposite page: two views of this waiting room. The corridor on the left of the top picture is flanked on the right by consulting suites, the pathology department and, at the far end, the sterilising room.

consulting-rooms. Here the doctors will be able to examine their patients, away from the rush of the surgery, and can consult any of their colleagues or arrange consultations with the visiting specialists. The Oxford Regional Hospital Board is providing and staffing the chest clinic and X-ray and physiotherapy departments; and its consultants and specialists will use some of the consulting-rooms, for which use the Board will pay. The Corby UDC has no statutory position in the Centre; but the council wanted to make its contribution, and is therefore providing £2,750 towards two cottages

for the resident staff of the Centre—a caretaker, a sister-in-charge, and a radiographer—and is looking after the lawns and flower-beds. Messrs. Stewart and Lloyds, Ltd., who have a steelworks nearby, have given an assurance of financial support towards the running costs of the Centre during the early years of the experiment. The Nuffield Provincial Hospitals Trust has provided the capital for building and equipping the consulting and minor-treatment rooms of the Centre, and, in addition, it is making a contribution towards running costs during the first experimental five years.







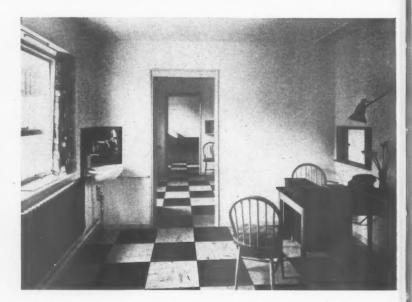
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Top: sterilising room and treatment room. Above: physiotherapy department. Above right: a suite of consulting rooms.

CONSTRUCTION.—The construction of the building is very simple; walls are of 11-in. cavity brickwork and support a timber roof. The facing bricks are light buff rustics, and in the waiting spaces and corridors the internal walls are of fair-face brickwork, painted. In the X-ray and physio-

therapy departments top lighting is employed "to facilitate concentration in planning."

FINISHES.—The floor finish is thermo-plastic tiles, except in the treatment wing, where the floors are terrazzo, and in the gymnasium, where they are

wood blo finishes le used to pr to help vis of the Cer

A view of end. The Opposite i is a waiti a similar

[225

wood block. The simplicity of the design and finishes lent itself to a boldness of colour, which is used to provide interest throughout the building and to help visitors to identify the different departments of the Centre. Each block of rooms has been given a different colour in contrast to the white ceiling and the black-and-white chequered floor used throughout the Centre. The walls of the consulting, examination and treatment rooms, and of some other rooms within the blocks, are painted a very light

HEALTH CENTRE

at CORBY,

 $\begin{array}{c} \text{NORTHAMPTONSHIRE} \\ \text{designed by } \text{ R. LLEWELYN} \end{array}$

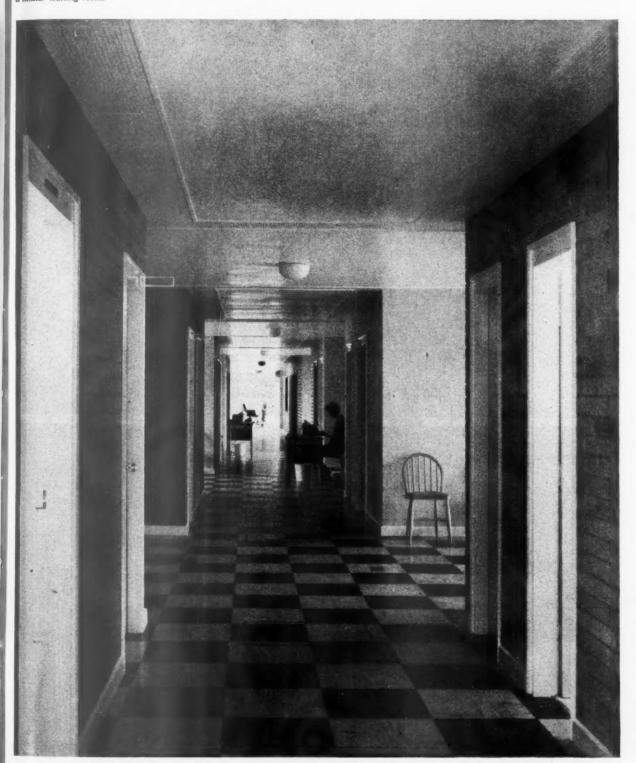
DAVIES

A view of the corridor, leading to the entrance hall at the far end. The door on the right leads to the sterilising room. Opposite it is the pathology department. Set back on the right is a waiting room. Each typist's desk in the corridor faces a similar waiting room.

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HEALTH CENTRE

at CORBY, NORTHAMPTONSHIRE

designed by

R. LLEWELYN DAVIES

The other walls are buff, white, blue, or Veridian green. Door frames throughout are white. Radiators are matt black. Terrazzo floors are white. COSTS.—Including all services, site work, fixed equipment, and boiler house, the contract price

grey, with a darker grey on door-frames and skirtings. for the Centre works out at 4s. 61d. a cu. ft., o £3 10s. 8åd. a sq. ft. of floor area.

> General contractors: Tailby and Son. Subcontractors names appear on page 240.

Below: a tea bar (just above number 12 on plan, page 220). Bottom: view from the main gate.





·ASBESTOLUX · INCOMBUSTIBLE ASBESTOS INSULATION BOARD: GENERAL DATA

This Sheet is the first of a series on Asbestolux insulation board. It describes the composition of the material, its properties, and the sizes in which it is obtainable, and gives a brief summary of its uses and working qualities. Asbestolux conforms to BS 1785: 1951 Thermal insulating materials for buildings.

Material

a plan

Asbestolux is made from amosite asbestos fibres, which are of greater than usual length and resilience, chemically bonded with high-grade silica in a high-pressure steam oven. It is therefore less brittle and has a lower alkaline content than asbestos boards that are bonded in the normal way with cement. The manufacturing process, combined with the inorganic and chemically inert nature of the ingredients, gives the material its special properties. The formation of amosite asbestos fibres, with their numerous air-cells, makes it an ideal material for thermal insulation.

Properties

Fire resistance: Asbestolux is 100% incombustible and has been tested in accordance with BS. 476: 1932. It will not crack or shatter at furnace heat and does not melt until it reaches approximately 2,300° F. The tests, carried out by the DSIR and FOC, revealed that a suspended ceiling of $\frac{1}{2}$ in. Asbestolux can be designed to give up to two hours' (Grade C) fire protection to r.s.j's and a casing of $\frac{1}{2}$ in. Asbestolux at least 1 hour's (Grade D) protection to steel stanchions under load. (In a recent JFRO test, a casing of $\frac{1}{2}$ in. Asbestolux gave protection for 1 hr. 40 min. to an 8 in. by 6 in. by 10 ft. stanchion under load.) It thus assists compliance with the new Model Byelaws on fire resistance.

Durability: Although very light in weight, Asbestolux is extremely durable, with a high strength/weight ratio. Its tensile strength is 900 lb./sq. in. in the direction of the grain and 650 lb./sq. in. across the grain. Its modulus of rupture is 1,350 lb./sq. in. in the direction of the grain and 2,000 lb./sq. in. across the grain. It will not swell, warp or rot, and is immune from attack by vermin or fungoid growths.

Moisture absorption: The boards are unaffected structurally by moisture absorption, expanding less than 0.01% after 16 hours' immersion in water. They are very porous and will absorb their own weight in water. When saturated, they lose approximately 30% of their strength but regain it completely when they dry out. Constant wetting and drying causes no deterioration in the material. In practice, therefore, the boards will not sag, swell, warp or buckle and will withstand the effect of continual contact with steam.

Chemical reactions: Asbestolux contains less than 0.2% of free non-caustic alkali, which is not sufficient to cause corrosion, to affect bituminous products, or to saponify even the most sensitive pigment. The boards are highly resistant to acids and alkalis.

Thermal insulation: The thermal conductivity of Asbestolux boards is 0.75 B.Th.U./sq. ft./hr./°F./1 in. thickness. When Asbestolux is combined with a backing of rock wool and fixed below a corrugated asbestos-cement roof, with an air-gap between, a U value of 0.16 B.Th.U./sq. ft./hr./°F. can be obtained.

Density: The density of the material is 42 to 44 lb./cu. ft. or 14 oz./sq. ft. of ½ in. thick board.

Sizes

The boards are 8 ft., 9 ft. and 10 ft. long by 2 ft. or 4 ft. wide and may be obtained in four thicknesses, $\frac{3}{16}$ in., $\frac{1}{4}$ in., $\frac{3}{8}$ in. and $\frac{1}{2}$ in.

Fixing

Asbestolux is easy to cut with a fine-toothed saw and can be punched, drilled, nailed or screwed without difficulty. It can also be filed and glass-papered. Nails should be placed ½ in. from the edge of the board: drive-nails (with a spiral grooved shank) give the best grip, panel pins being liable to pull through. It is not necessary to drill Asbestolux to take screws: for fixing ½ in. material p.k. screws give the tightest hold, but care must be taken to ensure that they are not over-tightened as this will strip the thread and the fixing will fail. Where timber fillets are used to fix the Asbestolux to concrete, there is a danger that, during a fire, the screws will char the timber and cause the boards to pull away. This can be overcome by the use of Asbestolux fillets (1 in. thickness, made up from two $\frac{1}{2}$ in. strips). For a fire-resisting fixing to steel, allowance must be made for the expansion of the latter. This may be done either by providing a slotted fixing or by drilling a hole in the Asbestolux larger than the shank of the screw or bolt, which should have a head at least twice the diameter of the shank. It is not necessary to leave a gap between boards when fixing as they are completely stable. The maximum centres recommended for fixings are given below, precise dimensions depending on the method of fixing:

Walls: 1 ft. 0 in. max. for $\frac{3}{16}$ in. boards
2 ft. 0 in. ,, ,, $\frac{1}{4}$ in. ,,
(reduced to 1 ft. 4 in. where impact liable to

be heavy)
2 ft. 8 in. max. for $\frac{3}{8}$ in. boards
4 ft. 0 in. ,, ,, $\frac{1}{2}$ in. ,,

Flat ceilings: 1 ft. 4 in. max. for \(\frac{3}{16} \) in. boards

2 ft. 0 in. ,, ,, ½ in. ,, 2 ft. 8 in. ,, ,, ¾ in. ,, 4 ft. 0 in. ,, ,, ½ in. ,,

Pitched ceilings: Centres slightly wider than those given for flat ceilings may be used for $\frac{1}{8}$ in. and $\frac{3}{8}$ in. boards under certain circumstances.

15.B4 ·ASBESTOLUX· INCOMBUSTIBLE ASBESTOS INSULATION BOARD: GENERAL DATA

Finishing

Asbestolux may be painted or distempered, papered or plastered, and the following notes serve as a general guide as to how these finishes should be applied and also to the type of filler which should be used with Asbestolux.

Painting: As the board is very porous it is advisable to apply a sealing coat first. A tung oil type of sealer is recommended, preferably pigmented as this gives greater viscosity. Two coats of paint should follow the sealer.

Where plastic emulsion paints are used, the first coat often needs considerable dilution with water.

Stove enamelling: An excellent stoved finish can be given to Asbestolux, but it is essential to dry all moisture out of the board before enamelling, or blistering will result.

Distempering: A coat of petrifying liquid pigmented with a little distemper should be followed by a coat of oil-bound distemper thinned according to the paint manufacturer's instructions.

Papering: Boards should first be sized and a fairly heavy paste applied to the paper.

Plastering: The manufacturer should be consulted for details of special plastering specification.

Fillers: Mastic, putty or plaster are satisfactory. Owing to the extremely porous nature of Asbestolux, edges round screw-holes and joints should be painted with oil-bound sealer or sized before the filler is applied. A filler can be made from Asbestolux saw-dust mixed with paint. Very fine grade vermiculite plaster can also be used as an alternative if the edges are sealed. Where joints are scrimmed, the edges of the boards should be sized to prevent the paste from being absorbed and a fairly heavy paste used.

Veneers: Asbestolux will take all kinds of veneer: any of the proprietary laminated plastic facings available are suitable.

Adhesives: Any type of adhesive may be used with Asbestolux. For best results the manufacturer of Asbestolux should be consulted.

Applications

The properties of Asbestolux make it very suitable for wall and ceiling linings where fire resistance is important or where steam or fumes are to be encountered, and in any situation where a lightweight, hygienic thermal-insulating board, which is also incombustible, is required. Thus it is well suited for light-framed prefabricated structures and for timber buildings. It may be used effectively for fire-resisting casing of stanchions and for fire-resisting curtain walls. Since it neither harbours insects nor promotes mould growths, and is unaffected structurally by humid conditions, it is especially suited for use for all classes of work in the tropics; these same qualities suit it as a lining material for bakeries and breweries, as well as for a number of agricultural uses such as piggeries, stores and cowsheds. In addition, it has a large variety of industrial uses such as acid-resisting duct cladding, fume-cupboard linings, heat protective screens in foundries, oven linings, floor insulation between hot tanks and furnaces, and back panels for radiant apparatus.

Asbestolux is a white board with a naturally smooth finish.

Further Information

The manufacturer maintains a technical advisory department which is available to answer questions and advise on problems relating to this subject generally. Data sheets are available from the manufacturer showing designs for Modulux fire-resisting ceilings, specifications for lining in factories and a number of curtain-walling methods.

Compiled from information supplied by:

The Cape Asbestos Co., Ltd.

Head Office: 114-116, Park Street, London, W.1.

Telephone: Grosvenor 6022.

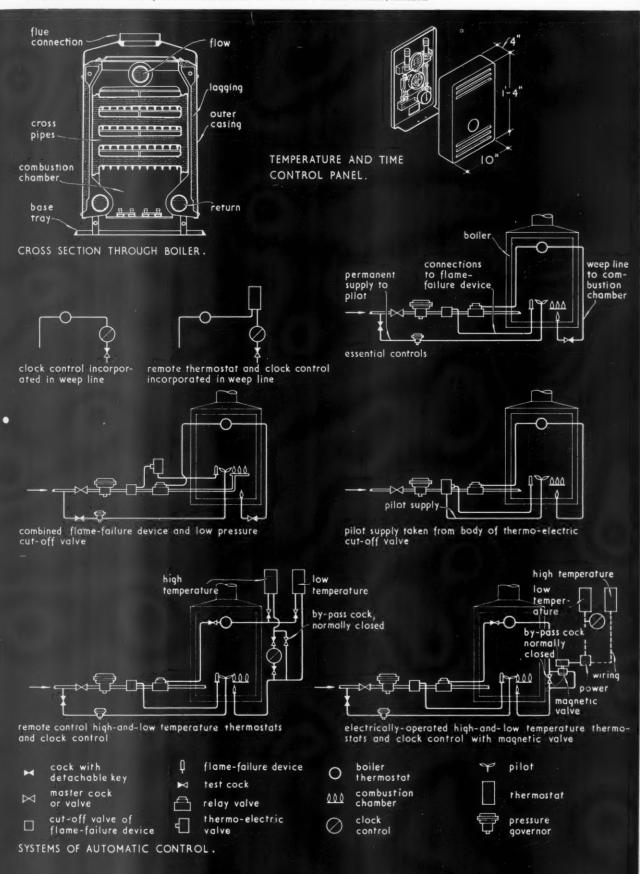
Telegrams: Incorrupt, London.

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The Architects' Journal Library of Information Sheets 482. Editor: Cotterell Butler, A.R.I.B.A.



29.F1 GAS-FIRED BOILERS

This Sheet gives general information on gas-fired boilers used for the space heating of buildings by hot water. The drawings on the face show a section through a typical boiler, a control panel and diagrammatic illustrations of the various systems of automatic control that may be introduced to meet particular requirements. For detailed information on gas controls generally, reference should be made to Sheet 37.D4.

Gas-fired boilers are available in a range of sizes to meet any central heating requirements. They occupy the minimum space for a given output, do not require fuel storage space, and are easily controlled to give any degree of automatic operation. They are clean, labour-saving and reliable.

Capacity of boiler: The boiler should never be operated in excess of the makers' rating and the size should be based on the maximum rate of emission needed from the heating installation in severe weather. Where the installation also provides domestic hot water, consideration should be given to supplying two boilers, an arrangement which also ensures continuity of supply during servicing. Where a single boiler is used for the dual purpose, the domestic hot water should be supplied through a calorifier.

Isolation of space heating: Where the boiler also provides domestic hot water, suitable valves should be fitted in the space-heating circulating pipes to enable this part of the system to

Design Considerations

The proportions of width to depth of a boiler can vary for the same heat input, and it is therefore possible to select one which best suits the available space. There should be sufficient space on all sides of the boiler to facilitate servicing; the minimum clearance on those sides of the boiler where there are doors or access plates should be:

Base area	of boile	er	Clearance
Up to 4 sq. ft.			 1 ft. 3 in.
-20 sq. ft. ·			 1 ft. 6 in.
Over 20 sq. ft.			 2 ft. 0 in.

Special attention should be given to providing access for servicing of controls.

Adequate ventilation of the place where the boiler is to be housed is essential; air inlets should be in positions where they are unlikely to be obstructed and they should have a free area of at least twice the cross-sectional area of the flue. Where a boiler is below ground level, it is advisable to arrange an independent air inlet duct entering the boiler house at low level. Provision should be made for the removal of water when the system is drained for servicing.

Most small boilers are provided with base plates and do not

require a special foundation, except for the provision of fire protection where there is a wooden floor. Large boilers should stand on a solid base or floor of fire-resisting material.

Flues: The design and construction of flues for gas appliances are dealt with on Sheets 30.B1 and 30.B2.

Gas supply: The size of the gas supply pipe should be in accordance with British Standard Code of Practice C.P.331:103 (1947), Gas Installation Pipes. For the laying and fixing of gas installation pipes, see Sheet 37.D2.

Insulation: All parts of the system which are not being employed as heating surfaces should be adequately insulated for economy in gas consumption.

Controls are fitted to ensure safety when lighting, to enable the boiler to operate without attention and to give varying degrees of automatic temperature control. The controls which give protection are essential, the others optional. It is

recommended that the gas undertaking should be consulted as to the suitability of controls for any required function.

Essential controls: The following controls must be incorporated in all boilers:

Pilot: This consists of a small gas supply pipe taken from the inlet gas supply and terminating inside the boiler. The small jet can be safely ignited in an enclosed space before the main burners are lit; it also relights the main burners where there are "on-off" controls.

Flame-failure device: This is a device to prevent gas from passing to the main burner unless the pilot flame is established and positioned correctly.

Governor: A device to maintain a constant gas pressure to the boiler irrespective of fluctuations of pressure in the supply.

Limit thermostat: This prevents the flow temperature of the water from rising above a preset figure. It may be fitted directly into the gas supply pipe to the burner or operate a relay valve in the supply.

Optional controls: The use of the limit thermostat alone has the advantage of simplicity, but some manual operation is needed to control room temperature. This personal attention can be obviated by the use of additional equipment.

Room thermostat: Improved comfort and economy are room, which should be one where favourable conditions are most constantly desired. The thermostat must be out of range of the sun and draughts. The boiler is controlled by a valve in the gas supply pipe to the burner, either by means of a controlled weep of gas or electrically.

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Anticipator control: With this type of control the device is placed outside the building, so that changes in weather conditions vary the gas supply to the boiler in anticipation of their effect on room temperature.

Time control: A clock control can be arranged to shut down the boiler when the building is unoccupied, or, if two clocks are used, the temperature can be reduced to a predetermined level at these times.

Testing

Boilers should be flushed out with water before the flow and return pipes are connected. Afterwards they should be tested to see whether they are watertight under the full head of water. This test should be repeated at the maximum operating temperature after the gas equipment has been adjusted and checked for correct working. It is preferable to make these tests before insulation is applied to the pipes.

Maintenance

Arrangements should be made for the installation to be checked and serviced by a competent engineer at least once a

Codes of Practice

More detailed information will be found in British Standard Code of Practice C.P.332:303 (1951), Installation of Gas Fired Boilers for Central Heating by Hot Water and C.P. 331:103 (1947), Gas Installation Pipes.

Compiled from information supplied by:

The Gas Council.

Address: Gas Industry House, 1, Grosvenor Place,
London, S.W.1.

Telephone: Sloane 4554.
Telegrams: Gascil, Knights, London.

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TECHNICAL COLLEGE

in SHEEPEN ROAD, COLCHESTER, ESSEX,

designed by H. CONOLLY, county architect; D. SENIOR, deputy county architect

W. C. B. SMITH, assistant county architect (education)

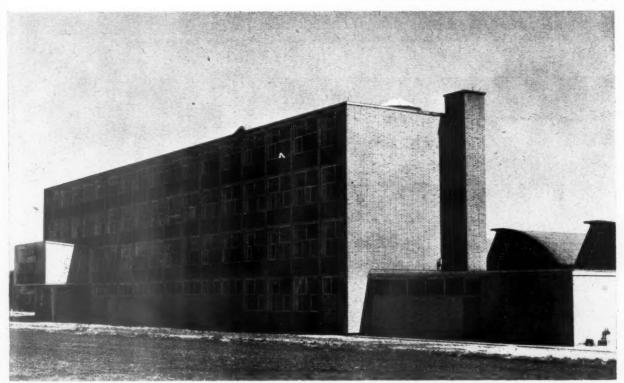
N. P. ASTINS, section assistant architect; D. M. NICHOLLS and P. R. CANSDALE, assistant architects

consulting engineers, W. S. ATKINS and PARTNERS

quantity surveyors, E. C. HARRIS and PARTNERS

The first stage of the North-East Essex Technical College, illustrated here, comprises workshops, laboratories and drawing offices for the engineering and building departments, and the printing section of the school of art. The site lies north of the town and within reasonable distance of the town centre. It is also near the railway station and by-pass, and it is proposed to erect a bus station on an adjoining site.

The 4-storey block which contains laboratories and drawing offices.









PLAN.—Further stages of the college will include departments of science and commerce, women's subjects, and the remaining departments of the college of art. In addition, there will be lecture rooms, a gymnasium, swimming bath, assembly hall, dining room and administration wing. The first stage is planned as a self-contained unit and consists of 32,000 sq. ft. of single-storey workshops and 20,000 sq. ft. of laboratories and drawing offices in a four-storey block. There is vertical access in the tall block to minimise the circulation area and allow daylighting on two sides of most rooms. The administration area is placed over the main entrance on the first floor and is cantilevered from the west elevation to form a covered waiting space.

CONSTRUCTION.—At the time this building was designed it was necessary to use the minimum amount of steel and softwoods; therefore it was decided to use reinforced concrete for the general framing. In the workshop block the frame is in precast r.c. units which were hoisted into position by crane over a 2-in. thick concrete slab, above which 6-in. thick r.c. was added later. The roof units, which are 2-ft. wide and 5-in. deep, and span 16-ft. longitudinally, were

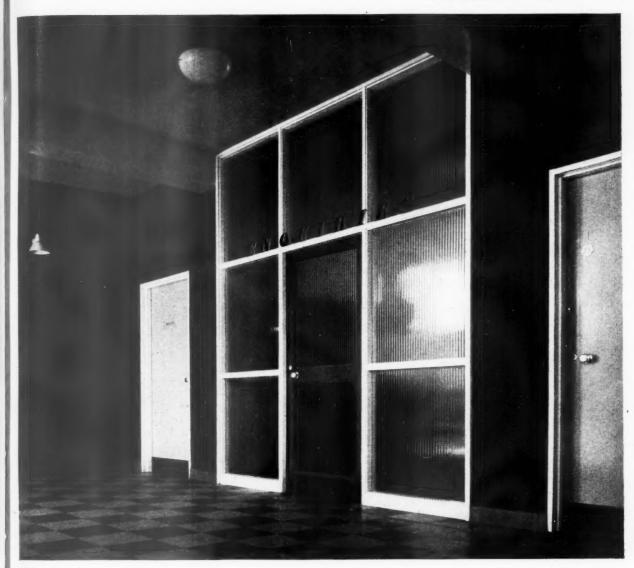
Above, left, the main entrance at the north-west corner of the 4-storey block. The two tapering columns are non-load bearing. Left, the 4-storey block on the left and the workshops on the right, seen from the south-west. Below, looking south-east from the roof of the 4-storey block. Below left, south-east facade of 4-storey block and roof of workshops.



Above, over the the waits

storey by thick so walls are staircase

FINISH skin of white sa frame is thick wo mould a



Above, doors to first floor offices over the main entrance, seen from the waiting space.

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TECHNICAL COLLEGE

at COLCHESTER, ESSEX designed by H. CONOLLY, county architect

precast and hoisted in the same way. The fourstorey block has an in situ r.c. frame with 5-in. thick solid floors. The workshop block external walls are cavity brick and in the tall block gable and staircase walls are 14½-in. load-bearing brick.

FINISHES.—In the workshop block the internal skin of external walls and internal partitions are of white sand-lime bricks with a flush joint. The r.c. frame is left exposed and the roof units have 2-in. thick wood-wool slabs which are placed in the concrete mould and cast in. They are exposed on the under-

side and have an external finish of three layers of roofing felt with a mineral finish. These ceiling slabs are intended as an acoustic absorbent and for thermal insulation and are sprayed white. Floors are finished with either granolithic paving or hardwood blocks. Corridor walls are finished with cement glaze on cement rendering. The doors to each shop are designed in two leaves, one 3-ft. wide opening inwards for normal access and the other 4-ft. wide opening outwards through 180 deg. to give a combined opening of 7 ft. for the movement of equipment. Bright colours are used only on doors

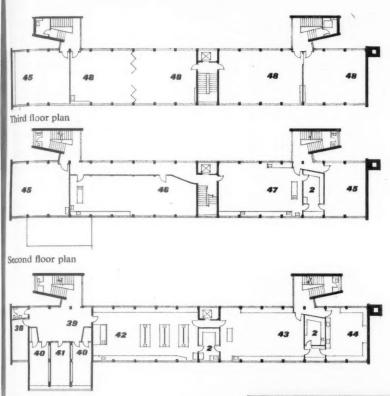


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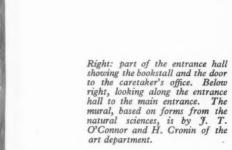
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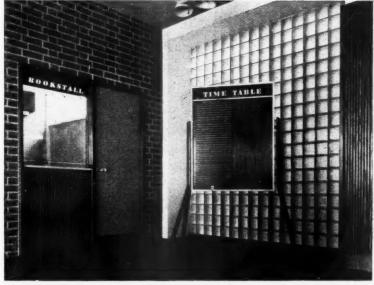


TECHNICAL COLLEGE

at COLCHESTER, ESSEX
designed by H. CONOLLY,
county architect



First floor plan



and service pipes, which are left exposed. In the four-storey block there are panel walls under windows on the main elevations consisting externally of varnished hardwood vertical boarding, secured through felt to a pressure-creosoted softwood frame and plastered internally on 2-in. wood-wool slabs. These slabs are secured through spacing pieces and aluminium foil to the frame. The roof is finished with three layers of mineral-finished felt on 1-in. vermiculite screed. Ceilings are sprayed with \(\frac{1}{2}\)-in.





TECHNICAL COLLEGE

at COLCHESTER, ESSEX designed by H. CONOLLY,

county architect





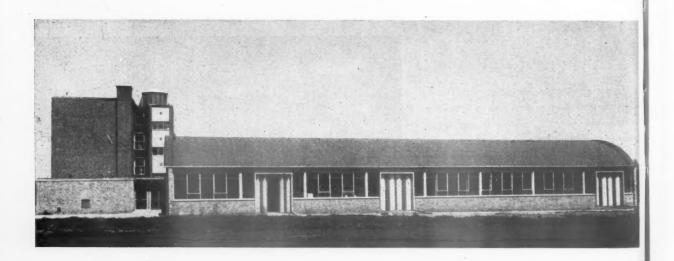
on the ground floor of the 4-storey block. Top right, lift door in the 4storey block. Above, staircase landing on the east side of the tall block. Below, south-east facade of single-storey workshop block.

Top left, entrance to lavatories

asbestos left natural finish. Floors in laboratories are of hardwood blocks on vermiculite screed, in drawing offices there are thermoplastic tiles on a floating floor of 2-in. reinforced screed on glass fibre blanket. Partitions are of plastered brickwork The side walls of the entrance hall are of fair-faced brickwork and columns; bookstall and door frames are of polished hardwood. The floor is covered with heather-brown quarry tiles. The corridor adjoining the entrance hall has a mural the length of one wall, which is based upon forms from natural sciences and was designed and painted by J. T. O'Connor and H. Cronin of the Art School. The teaching rooms are painted in two tones of grey and white, with panels in subdued colours. The colour scheme is based on the "Archrome" range and the mural is painted in emulsion paints in the same colours as those used elsewhere in the building.

SERVICES .- The heating is by low pressure hot water from three oil-fired boilers. There are radiators in the teaching rooms and unit heaters in the workshops. The domestic hot water is from two small gas boilers with storage heater serving the main supply needs, and with small gas or electric unit heaters elsewhere. This system saves the considerable cost of piping around the area of the workshops. There are mechanical air extract systems in some of the workshops.

The general contractors were Joseph Moss & Son, Ltd., and Hutton (Builders), Ltd. For subcontractors, see page 240.



TECHNICAL SECTION

In June, the Joint Consultative Committee of Architects, Quantity Surveyors and Builders held their first meeting. This body was charged with the task of reviewing periodically matters discussed by the Joint Committee on Tendering Procedure, whose report was commented on in the JOURNAL of April 8. Readers may remember that the tendering procedure report arose out of a letter from Sir David Eccles to Sir Howard Robertson (in 1952) which suggested that there "... was every reason for developing contracting arrangements which ... will encourage the proper pre-planning and organization of (building) work ..." The resulting recommendations were unfortunately confined to minor adjustments to the orthodox contractual procedure. No attention was given to the growing need for a type of contractual relationship appropriate to industrialized methods of construction. It could be inferred from the Tendering Report that this was a matter for the Joint Consultative Committee, and it is earnestly to be hoped that this question occupies a prominent place on their agenda.

This week's special feature

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8 ESTIMATING materials' prices

Current prices for measured work will appear on September 2.

Prices of materials and measured work last appeared in the JOURNAL on June 10 and June 24, 1954, respectively.

Current rates of wages and market prices of materials prepared by Davis, Belfield and Everest, Chartered Quantity Surveyors. Rates for measured work will be published in the JOURNAL for September 2.

Rates of Wages last rose on May 24, 1954 and are now as follows:— LONDON DISTRICT Craftsmen. Labourers. Within 12 miles radius ... 3s. $10\frac{1}{2}$ d. 3s. 5d. 3s. 10d. 3s. 4½d. From 12-15 ,, 3s. 101d. 3s. 5d. LIVERPOOL and DISTRICT A^1 A2 A^3 GRADE CLASSIFICATIONS A Craftsmen .. 3s. 9d. 3s. 8½d. 3s. 8d. 3s. 7½d. 3s. 3d. 3s. 2½d. Labourers .. 3s. 3½d. 3s. 2d.

Prices vary according to quality and the quantity ordered.

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

CONCRETOR

C				

Portland to B.S. 12, 6 tons and over	per ton	96/6
	per ton	
Rapid hardening to B.S. 12, 6 tons and over	99	104/6
Aquacrete water repellant, 6 tons and over	99	129/-
Aluminous to B.S. 915, 1 ton lots	99	299/6
Sulphate resisting cement, 6 tons and over	29	129/-
Snowcrete, 1 ton lots	22	257/-

Above prices include for delivery to Charing Cross in non-returnable paper bags or cotton sacks.

Aggregate and Sands, etc. (Full Loads)

l" (Down) Wash	ned, cru	she	d and gra	ded sh	ingle		
to B.S. 882						per yard cube	
11" Ditto					****	99	18/4
A Sharp wash		to	B.S. 882,	Table	3	9.9	22/4
Vermiculite, 3"	down					per ton	640/-
Brick hardcore		****	****	***		per yard cube	
Ashes						9.9	8/6

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

Floor Blocks

						4"	6"	7"
Floor blocks,	12"	×	12"	****	per 1,000	693/-	936/-	1,081/-

Reinforcement

Home trade maximum basis price for rods to B.S. 785, §" diameter and umills delivered to station or siding	pward	ls, ex	per ton	£3 3	0	6
Extras for :						
Under §" to 7 diameter	****	****	22	£1	7	0
Ditto de and over diameter	****	****	9.9	£1	14	6

Under &" to	diameter	****	****	****	22	£1	7	0
	over 3" diame	ter		****	99	£1	14	6
and over	diameter				9.9	£2	2	0
H" and over	&" diameter		****	****	29	£2	9	6
and over	& diameter	****	****	****	22	£2	17	0
32" and over	1" diameter		****	****	22	£3	4	6
1" diameter			****	****	32	£3	12	0
Under 1" to		****	****		99	£5	2	0

Fabric Reinforcement

	16.35 lb.	9.32 lb.	4.71 lb.	1.83 lb.
Steel wire mesh fabric to B.S.				
1221 Part A, per yd. super	8/11	4/9	2/43	1/48

BRICKLAYER

	4		Com	mon Bi	1C/Cd			
Third stocks	****	****	****				per 1,000	130/4
Rough stocks		****	****	****	****		99	169/4
Mild stocks	****	****	****	****	****	****	33	210/10
Sand limes	****	****	****	2000			99	110/6
Phorpres pres	sed	Flettons		****	****	****	99	113/-
Poloion								919/

Facing Bricks

Hand-selected sand limes	****	****	****		per	1,000	145/9
Phorpres rustic Flettons	****	****		0.00		22	138/-
Stocks, first hard		****	****	****		2.2	261/4
Stocks, second hard			****	4000		99	245/4
Southwater pressed sandfa	ced re	ds	****	****		27	297/6
Dorking pressed sandfaced	multi	coloured	l facir	ngs		29	242/-

Engineering Bricks

Lingfield eng Southwater						per 1,000	221/-
pressed)					****	99	285/-
Blue pressed	bricks to	B.S. 130)1	****			509/6

Glazed Bricks

Best	mal	620
2000	your	119

White, Ivory	or B	rown.	9" × 2	7" × 41"	deliv	ered		Di	-00 Y	000001	ну
London s				8 // -2		0104			£	8.	d
Headers	****	****	****	****	****	****	per	1,000	67	14	6
Stretchers	****	****	****	****	****		_	22	68	16	0
Seconds qu	ality	above	prices	less 10°	/00						

BRICKLAYER (continued)

Limes and Sands

†Lime, greystone, to B.S. 890	****	4++4	per ton	1 ton lot 114/6	8
†Lime, chalk, ditto		****	***	114/6	
*Lime, hydrated, ditto	****		99	127/-	
Washed pit sand to B.S. 1200	****		per yard cube	22/4	
* Including paper bags.	o4 1 /0	and.	andital at 1/8	TCI-C	-1

 \dagger Hire of jute sacks charged at 1/6 and credited at 1/6. If left, charged at 1/9.

Sundries

10 s.w. gauge galvanized butterfly type wall ties to	
B.S. 1243 per 1,00	0 76/-
Wall ties, galvanized, 8" × \frac{3}{4}" × \frac{1}{4}", to B.S. 1243 per cwt.	85/-
Damp proof course slates : Imported V Size $14'' \times 9''$ per $100 43/-$	Velsh
Size 14" × 9" per 100 43/-	78/3
, 14" × 4½" 21/-	34/9
Hessian base bitumen damp course to B.S.	
743 per yard super 9" × 3" 9" × 6"	5/1
Terra-cotta airbricks each 1/3 2/6	
Galvanized cast-iron airbricks , 3/2 5/4	8/-
Galvanized cast-iron hit-and-miss	-/
ventilators ,, 3/2 6/2	8/-
Wall reinforcement supplied in standard rolls containing 25 y	ards lineal
2" wide black japanned per ro	11 3/4½ 4/21
Greater widths pro rata 21" price, carriage paid on ord	lers of £7
Discount for quantities.	VI #1.

		Partitions,	etc.				
Oliv 1	***	T) (1 + 10 0	2"	$2\frac{1}{2}''$	3"	4"	
Clinker concrete, s		B.S. 492 er yard super	3/7	4/2	5/-	6/2	
	B.S.		4.10	4.70	w 1		
1190 (keyed)	****	99	4/3	4/6	5/-	_	41"
Moler (keyed)	****	99	13/-	13/9	14/6	17/6	18/-
Leca blocks							
Solid		9.9	6/-	- 7/-	8/- 9/6	10/-	
Hollow		7.9	7/6	8/6	9/6	_	
Building blocks (ke	eyed):-						4"
6 cavity	****	****		per	yard su	per	6/7
Normal quality wo	odwool	slabs	****	1" 11	" 2"	21"	3"
Minimum delivery,	square	yards,	1	500 40			250
per yd. super				5/- 6	6 8/-	9/2	10/3

PAVIOR

2" coarse gravel for paths		per yard cube	
3" fine ditto		99	23/9
Clean granite chippings to	B.S. 1201, Tal	ble 4	
(in 5-ton loads)		per ton	44/9
Red quarry tiles 6" × 6" ×	1", to B.S. 1286	per yard supe	r 13/3
	#", to B.S. 1286	3 ,,	11/-
Buff quarry tiles, $6'' \times 6'' \times$			16/6
Ditto $6'' \times 6'' \times$		B	14/-
Hard red paving bricks, 2"	****	per 1,000	464/3
Ditto 11	<i>"</i>	99	438/3

DRAINLAYER

Clay Land Drain Pipes to B.S. 1196

				3"	4"
Pipes in 12" lengths	****	****	per 1,000	208/6	274/6

Salt Glazed Stoneware Pipes and Fittings

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

	Orders for 2 tons and over	Orders under 2 tons 100 pieces upwards	Orders under 2 tons less than 100 pieces
Seconds Quality Best Quality British Standard Quality Tested Quality British Standard Tested	$67\frac{1}{2}\%$ $767\frac{1}{2}\% + 10\%$ $67\frac{1}{2}\% + 37\frac{1}{2}\%$	$97\frac{1}{2}\%$ $97\frac{1}{2}\% + 10\%$ $97\frac{1}{2}\% + 37\frac{1}{2}\%$	$107\frac{1}{2}\% + 10\%$ $107\frac{1}{2}\% + 37\frac{1}{2}\%$

Cast Iron Drain Pipes and Fittings

ocket	and a	pigot p	pipes to	B.S. 437	7:			
			Size		6 fts.	4 fts.	3 fts.	2 fts.
				each	each	each	each	each
1	1	17	4"	61/3	44/6	34/11	26/9	21/5
2	0	1	6"	91/-	70/-	55/1	43/11	32/11
2	3	21	9"	167/-	139/6	117/2	90/-	

Pre-war quality for Post-war work

arged

9"

ineal 4½ 2½ f £7.

4½" 18/-

4" 6/7 3"

10/3

22/3 23/9

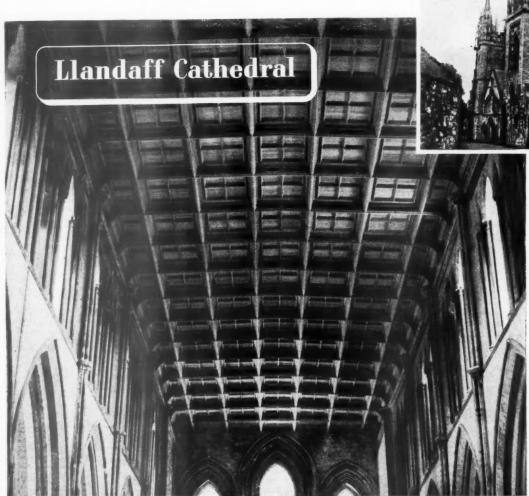
13/3 11/-16/6 14/-64/3

38/3

der 88

15%. 10%. 7½%. 7½%.

ch



Architects: The late Sir Charles A. Nicholson T. J. Rushton, F.R.I.B.A., (Nicholson & Rushton) George C. Pace, F.R.I.B.A.

Contractor: William Clarke.

We have been privileged to supply the Home Grown Oak and the imported hardwoods which have been used in the restoration.

WILLIAM

MALLINSON

& SONS LTD.

TIMBER AND VENEER MERCHANTS AND PLYWOOD MANUFACTURERS

130-150 HACKNEY ROAD LONDON, E.2

Telegrams: "Almoner," London

Telephone: Shoreditch 7654 (10 lines)

lxi

F

19th August 1954

Floors that are not free from risk of dry rot or woodworm attacks, from sub-floor draughts and cold air currents, are out-dated.

Marley thermoplastic tiles on a solid concrete sub-floor suffer from none of these risks and help the balance of payment by cutting unnecessary imports.

IN FACT Marley tiles on a concrete sub-floor represent a fine investment that can be made in any type of building.



Cock o' the walk

MARLEY

The Marley Tile Company Ltd., Riverhead, London Road, Sevenoaks, Kent. Tel: Sevenoaks 2251
London Showrooms (Floor Tiles) at Alfred Goslett & Co. Ltd., 127-131 Charing Cross Road W.C.I. Tel: Gerrard 7890

DRAINLA

Tonnag

*Bends (sho *Single jund *Interceptin *Gullies ord *Extra for *Grease gul

Standard liware pipes.

• These

Orders un

C.I. coated and fram 497, Grad C.I. coated frame, 22 Grade B

Coated ma B.S. 497, Galvanised Coated ma B.S. 497, Galvanised

MASON

Buil Blocks sera Add for blo

Templates
to 4 ft. s
Templates
Price f.o.r.
per ton.

Monk's Par St. Aldheln Delivered o

Whitbed Delivered o

Doulting

4½" × 4" Si grooved 9" × 3" Dit 2" × 12" throated 3" × 12" D 5" × 12" Se

5" × 12" Se 6" × 12" D

SLATER.

16" × 10"] 20" × 10"]

DRAINLAYER (continued)

Tonnage Allowances :-

Orders up to 2 tons nett.

4"	6"	9"
6/3	13/-	40/-
11/-	22/6	69/-
30/-	50/-	123/-
14/6		
4/3		
121/-		
	11/- 30/- 14/6 4/3	11/- 22/6 30/- 50/- 14/6 4/3

[•] These prices are subject to 1271% plusage.

Channels in Brown Glazed Ware.

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

White Glazed Channels

Orders under £30, makers list value. Standard list + 25%.

Manhole covers and frames

	Size of load	Unit price
C.I. coated double triangular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade A	35 tons	175/5
Grade B each	5 tons	93/5
Size of load		Double seal Flat type
Coated manhole cover and frame to		
B.S. 497, Grade C, 24" × 18" each 1 ton	32/-	45/8
Galvanised ditto, $24'' \times 18''$ each 1 ton	57/6	80/9
Coated manhole cover and frame, to		
B.S. 497, Grade C, 24" × 24" each 1 ton	48/11	73/-
Galvanised ditto, $24'' \times 24''$ each 1 ton	89/2	126/6

MASON

Doulting

Yorkstone

Yorkstone	
Building quality Robin Hood and Woodkirk Blue St	one.
Blocks scrappled, random sizes per foot cube	11/4
Add for blocks to dimension sizes ,,	1/4 (each dimension
Templates with sawn beds, edges rough (up to 4 ft. super and not over 2' 6" long) ,,	12/8
Templates with sawn beds, sawn one edge, ,,	14/8
Price f.o.r. Yorkshire, railway rate to London Station per ton. (Minimum 4-ton loads)	62/11
Bath stone in random blocks	
Monk's Park per foot cube	7/10
St. Aldhelm Box Ground ,,	8/10
Delivered on rail at South Lambeth station.	
Portland stone in random blocks, average 20 feet cui	be
Whitbed per foot cube Delivered on rail at Nine Elms Station.	8/11

Somerset stone in random blocks

... ... per foot cube 8/7

Artificial Stone to B.S. 1217

1	41" × 4" Sill, sunk, v	veathe	red, tl	hroate	d and		
I	grooved		****	****	****	per foot run	3/2
1	grooved 9" × 3" Ditto 2" × 12" Coping, throated 3" × 12" Ditto			****		99	4/9
-	throated	weat.	nerea	and	twice		4/2
1	3" × 12" Ditto	****	****	****	****	27	6/4
	$5'' \times 12''$ Saddleback	copin	g, twi	ce thr	oated	93	9/5
	6" × 12" Ditto						10/6

SLATER, TILER AND ROOFER

						Slate	18		£	8.	d.
16"	X	10"	Best	Bangor	Slates	to B.S.	680	per 1,000 actu	al 50	17	9
20"	X	10"	Ditto					99		10	

SLATER, TILER AND ROOFER (continued)

Tiles

Hand-made sandfaced 101" × 61" red roofing	tiles	
	per 1,000	328/6
Machine-made sandfaced best red tiles		
with continuous nibs, $10\frac{1}{2}'' \times 6\frac{1}{2}''$	99	294/3
Bridgwater hand made red sandfaced		
pantiles, in 6 ton loads	99	818/-
Bridgwater hand made red sandfaced		
Double Roman tiles, in 6 ton loads	21	1,126/6
Concrete plain tiles, $10\frac{1}{4}'' \times 6\frac{1}{4}''$	**	159/-
Ditto interlocking tiles, 15" × 9"	22	457/-
Ditto Double Roman Tiles	99	800/-

Asbestos-cement

					01100100		
*6"	corrugated	sheets,	grey	****	****	per yard super	5/9

*Prices are for minimum two-ton loads, and are subject to $5\,\%$ trade discount.

Felt

Reinforced roofing felt to B.S. 747 p	er yard sup.	1/7
Roofing felt (1-ply bitumen) to B.S. 747, Part I	,,	1/6
Bituminous hair felt to B.S. 747, Part II	29	2/9

CARPENTER AND JOINER

				Wall boards	
1" Imported Fibre board	****	****	****	5,000 to 15,000 sq. ft.	
(per 100 sq. ft.)	****	****		41/6	
1" Imported Hardboard (per			****	45/-	
"Imported Hardboard (pe	er 100	sq. ft.)	****	68/-	
* 3 " Semi compressed asb	estos	cement	flat		
building sheets, grey, size	8' X	4'		per yard super 3/1	
* 1" Ditto		***		,, 4/1	
4D.: C	0 4	3		0.11.4 4 20/ 4 3	١.

*Prices are for orders of 2 tons and over. Subject to 5% trade

Sundries

"Sisalkraft" standard grade	****	****	ре	r yard sup.	$-/10\frac{1}{8}$
"Sisalkraft" subsoil grade	****	****	****	99	-/6 1
"Sisalation" single sided	****	****	****	29	1/101
"Sisalation" double sided	****	****	****	,,	2/10

^{*} Price is for orders value £5 and over.

Timber

	ood for (age p	rice)	****	per s	td.		£90
	ood for J			****	****		99		-	£100
Tongu	ed and C	rooved	Softwo	od Flo	oring		93			£100
*First	Quality	Europe	an Oak			per ft.	cube	25/- 1	to d	40/-
*Teak			****	****	****	99		40/-	to !	80/-

^{*} Prices vary considerably depending on specification.

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

Type 4	size 2' 6"	× 6' 6" ×	11"	each	34/3
Type $2 \times G$	size 2' 6"	× 6' 6" ×	2"	**** 99	41/6
Type $4 \times G$	size 2' 6"	× 6' 6" ×	2"	99	47/6
In lots of f	rom 1 to 11	linclusive			

Wood Windows

N	26	\mathbf{v} .	size	1' 5\\ " × 2' 6\\ "	****			each	21/-
2	26	V	size	4' 0\frac{1}" × 2' 6\frac{1}"	****	****	****	99	42/-
N	40	V	size	1' 5\\ '' \times 4' 0\\ ''	****	****	****	99	23/11
3	40	V	size	5' 11\frac{1}{4}" × 4' 0\frac{1}{4}"	****	9009	****	99	74/4
4	40	V	size	7' 10\frac{1}" × 4' 0\frac{1}"	****	****	****	9.0	93/5
	In	lots of	from 1	to 20 inclusive					

Kitchen Units

	Muchen Unite	
No. 1	size 3' 6" × 2' 8" × 1' 7" ea	nch 161/5
No. 2	size 3' 6" × 2' 8" × 1' 7"	,, 112/-
No. 4	size 2' 8" × 1' 9" × 1' 7"	,, 99/-
No. 5	size 3' 10" × 1' 9" × 1' 7"	. 86/-
No. 7	size 6' 6" × 1' 9" × 1' 7"	,, 129/6

Prices include for tops and plinths.

In lots of from 1 to 15 inclusive.

FINE BUILDINGS

Everywhere these days you can see really fine buildings—attractively designed and really well-built. Such a building is illustrated below—"Four Gables" at Bure Lane, Friars Cliff, Christchurch, Hants.

Architect: P. H. Rose, A.R.I.B.A., A.R.I.C.S., Chartered Architect and Surveyor, Matthews & Rose, Priory Chambers,

6, Church Street, Christchurch, Hants.

Builders: Messrs. Taylor & Son, 104, Bargates, Christchurch, Hants.

... and of course, with FINLOCK GUTTERS -chosen from the viewpoint of efficiency, attractive appearance and economy. Modern Architects specify FINLOCK—there are so many reasons for doing so. SERVICE

Free assistance available on any site.

ESTIMATING

We take off quantities and are completely responsible for seeing that correct goods arrive on site at stated time.

DELIVERIES

Our transport covers the British Isles with a 24-hour service.



FINLOCK GUTTERS LTD.

Head Office: FINLOCK HOUSE, 25, FRANT ROAD,

TUNBRIDGE WELLS, KENT.

Tunbridge Wells 3396-9

WE DELIVER TO ALL PARTS OF ENGLAND, SCOTLAND, WALES AND NORTHERN IRELAND

Works at: Crewkerne, Somerset; Leeds, Yorks.; Edinburgh, Scotland; Cwmbran, South Wales; Royston, Herts.; Tunbridge Wells, Kent; Belfast, N. Ireland; Wakefield, Yorks.

Rustproof ty Type ND: ,, ZNI Prices vary

STEEL A

Basis price fe Extra for siz

9" × 7"
5" × 4½",
14" × 8",
18" × 8
10" × 4½",
4" × 2½",
3" × 3",
4" × 4",
6
4½" × 1½"
4" × 1½"
2" × 1½"

4" × 13" 3" × 1½"

Basis price fo

22

PLASTER

Thistle (brow Gypstone to Paristone (ha Ditto (unh Sirapite (coa Ditto (fine Keene's Pinl Keene's Whi Cullamix (T and upwa

Sharp washe Cow Hair Expanded 1 mesh × 2

Plasterbo f" Insulating

Galvanized 1 Hessian Scri 3½" wide

The followin Standard qu Cream glaze Eggshell or

PLUMBEI

31 lb. and v of 5 cwts. Hot rolled lots (4' ×

Ditto Zinc sheetin Per

CONCRETE

GUTTERS

Rainwater (Soil goods (

Gutters Pipes and F

The follow Orders ov Rainwater F

6' 0" lengt 10'0" ,,

	•
STEEL AND IRONWORKER	
Basis price for rolled steel joist sections, in 10 ft. to 50 ft. lengths e	\mathfrak{L} s. d. x mills per ton 30 5 6
Extra for sizes : 9" × 7"	Add per ton 5 0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	and per our
	,, ,, 10 0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$,, ,, 15 0
M AF 9" 91" V 91" A" V 9" 5" V 91"	1 5 0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	" " 1 10 0 " " 2 0 0
4' × 13"	3 0 0
Basis price for angles e	x mills per ton 30 4 6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$,, 30 4 6
All delivered Station or	,, ,, 32 4 0 Siding.
Standard Metal Windo	
Rustproof type	
Type ND2F, 4' 0" \times 3' 3\frac{1}{2}" ZND2F, 4' 0" \times 4' 0"	each 43/- to 57/4 46/3 to 61/8
Prices vary with size of order, those given are	maximum and minimum.
DI ACTEDED	
PLASTERER Plaster and Cement	
	1-ton 4-ton to 5 ton 19 cwt
Land to the posterior of the	loads
Thistle (browning) to B.S.1191, Class B per ton Gypstone to B.S.1191, Class B	152/6 135/- 152/6 135/-
Paristone (haired) to B.S.1191, Class B	155/- 137/6
Ditto (unhaired) ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	152/6 149/- 133/-
Ditto (fine) to B.S.1191, Class C	157/- 141/-
Keene's Pink to B.S.1191, Class D ,, Keene's White to B.S.1191, Class D ,,	198/6 204/-
Cullamix (Tyrolean Finish), 1-ton lots	
	m 184/3 to 217/9
Sundries	non-moral cube 20/4
Sharp washed sand to B.S.1198	per yard cube 22/4 per cwt 97/6
Expanded metal lathing, 9' 0" × 2' 0" >	2/71
25 to 149 150-	per yd. sup. $2/7\frac{1}{2}$ 299 300–599 Over 600
Plasterboard (base board) yards yard per yard super 2/9 2/4	ds yards yards
I Insulating wallboard.	
per yard super — 3/' Galvanized lath nails 14 G	7 3/5 3/3 per ewt. 118/-
nessian Scrim cloth in 100-yard rolls,	
	per roll 7/9
Wall Tiles	4 - 11/4'
The following prices are subject to 22½ per cen Standard quality white glazed 6" × 6" × ‡"	per yard super 18/6
cream glazed o" × o" × g"	,, 20/6
Eggshell or glossy glazed $6'' \times 6'' \times \frac{3}{8}''$,, 26/3
PLUMBER	
Lead and Copper	titios
31 lb. and upwards milled sheet lead in quant of 5 cwts. to under 1 ton in sheets to B.S.117	
Hot rolled copper sheeting in 1-ton	£ s. d. gauge, per ton 323 5 0
lots (4' × 2' sheets), to B.S.899 23 wire a Ditto 24 wire a	gauge, per ton 325 5 0
Ditto 24 wire a Zinc sheeting in 1-ton lots 14 gaug	e " 105 5 0
Cast Iron Goods	
Percentage Adjustment on List No. 33	
Rainwater Goods (painted or unpainted) Soil goods (coated or uncoated)	Plus 10%
Mild Steel Rainwater God	ods Standard List
Gutters (under 100 lengths)	Less 25%
Pipes and Fittings (,, ,,)	Less 25%
Asbestos-Cement Rainwater	
The following prices are subject to $12\frac{1}{2}\%$ traded orders over £30 are subject to $17\frac{1}{2}\%$ traded	de discount.
Rainwater Pipes.	
Diameter	4" 6"
6'0" lengths 7/6 8/- 9/8	4" 6" 12/10 25/9 each
10'0" ,, 11/10 12/10 15/-	21/6 43/- ,,

S

ti

PLUMBER (continued)

			ge.	

Half round gutters		3"	4"	41"	5"	6"	8"
6ft. lengths	each	5/-	5/11	6/1	7/2	10/-	12/4

INTERNAL PLUMBER

Lead pipe (basis, weight up to 4" bore to B.S.			cwts.	to unde	r 1 ton	per cwt.	134/e
Light lead pipe ditto		****					
Lead pipe to B.S. 1085			***		***		
Polythene tubing, nor	mal		in			_	,
quantities of 500 ft.				67/6	138/6	1" 173/6	250/6
Ditto, heavy gauge ditt per 100 ft	0			140/6		248/-	_
Drawn lead traps with					- 1	,	
to B.S.504				11"-6lb.	14	"-6lb.	2"-7lb.
S. trap 14" seal		€	ach	6/6	7	7/10	13/3
" 3" deep seal			**	7/9	9	9/4	15/2
Drawn copper traps	to I	B.S. 1	184	11"		11"	15/2
S. trap 11" seal		ea	ach	20/9		3/-	-
" 3" deep seal	***		.,	22/5	24	/10	39/9

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

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

Tubes:	1" to 4"	Fittings:			
Class B	163%	Lightweight	****	plus	6%
" C	41%	Heavyweight		plus	131%
Galvanized Class B	plus 21%	Galvanized:		-	270
" " C	plus 183%	Lightweight	****	plus	181%
Galvanized malleabl	e fittings	Heavyweight	****		251%
Less 46	1% plus 35%			•	470
Copper tubing to B.		Basic price per lb.			2/33

GLAZIER

Sheet G	lass,	cut t	to size	(ordinary	glazing	quality),	to	B.S.952,	Section .	A
2.0									100	

18 oz.		****	****	****	****	****	per foot super	$-/5\frac{1}{2}$
24 oz.	****	***	****	****	****	****	99	-/71
32 oz.	****	****	****	****		****	99	1/-

Polished Plate Glass, ordinary substance, approximately ¼", to B.S.952, Section A.

In plates not	exceed	ling:		Glazing	Selected glazing	Silvering quality
2 ft. super	****		per foot super	3/7	4/3	5/1
5 ft. super		****	22	4/5	5/2	6/2
*45 ft. super	****	****	97	5/1	5/9	6/11
*100 ft. super	****	****	99	5/6	6/9	8/10
* T7		-1-4-	dimm 16	00 6	100 t	

* Extra sizes, i.e., plates exceeding 100 ft. super or 160 in. one way, or 96 in., both ways at higher prices.

per foot super	-/9
99	1/-
99	1/-
	2 (0)
99	1/21
99	4/10
99	1/2
	2) 2) 2) 2) 2)

Attention is drawn to reductions in certain glass prices offered by manufacturers for acceptance of specified minimum quantities of one size and substance delivered to one address at one time.

PAINTER

White ceiling di	stemper		****		****	per	cwt.	29/-
Washable dister	nper	****			****		cwt. from	112/-
Primer, general	purpose			****	****	per	gallon	33/6
Ready mixed w	hite lead	l paint	,	****			99	60/-
Flat oil paint	****			***			99	39/-
Emulsion paint	****	****	****	4000	****		**	44/-
Hard gloss paint	t :							
Undercoat	****		****	****	****		99	42/-
Finishing	****		****	****	****		99	44/-
White Portland	cement	paint	****		****	per	cwt.	71/-

Jawain

F.R.I.C.S., F.I.Arb.

OUTSIDE



Outside painting is quite a different proposition from inside painting. Outside painting has to do a protective job, and if that job is ever neglected the very soundness of the building may be endangered. It's as simple as that, and as serious. What kind of paint can protect a door, a window frame, a cement-rendered or stucco front from the

ceaseless attack of British weather? What kind of paint needs fewer repaints, and less expensive repaints because it doesn't crack or flake? The answer has been proved good over centuries.

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White Lead Paint Lasts.

Magnet White Lead Base HARD GLOSS Paint is the up-to-date version of this trusty friend. Hard Gloss. Lasting Protection. A range of 32 intermixable colours.



ASSOCIATED LEAD MANUFACTURERS LIMITED



LONDON . NEWCASTLE . CHESTER

THE INDUSTRY

From the Industry this week Brian Grant reports on a new bus shelter, a finish for fluorescent fittings, rubber doors, a new refrigerator and a re-designed water heater case, and glass ventilators.

STANDARDIZED BUS SHELTERS

Messrs. Crittall have just introduced a new bus shelter made from mild steel rolled secbus shelter made from mild steel rolled sections and 14 gauge panel fillings, all steelwork being hot dip galvanised. As the photograph shows, the basic units employed are very like the standard panels which have been used for a long time as internal partitions in offices and factories. The units are coupled with 2½ in. diameter steel tubes which extend for 12 in. below the bottom of the units and are embedded in a 6 in. of the units and are embedded in a 6 in. concrete kerb: rear corner posts are square section. The dimensions of the type shown are 14 ft. 3½ in. by 4 ft. 11½ in. and extra length can be provided by adding further units, though an internal partition or supporting post will be necessary. Quarter inch polished wired glass is used for the side units, cast wired for the rest. In general, these shelters seem quite straightforward and inoffensive, though they will probably be disfigured with posters. It might, perhaps, be worth providing display space for time tables, and this could easily be done by running some of the lower

be done by running some of the lower panels to the full height. (The Crittall Manufacturing Co. Ltd., Braintree, Essex.)

MATERIALS FOR EXHIBITIONS

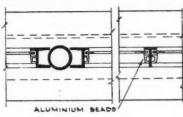
All exhibition designers are familiar with the regulations about fire resistance and the materials which may or may not be used. Those who wish to make use of transparent plastic sheeting of various kinds will therefore be interested to know that Cobex plastics have been tested by the LCC and found to possess a degree of non-inflammability which makes them permissible for exhibition stand construction. tion stand construction.

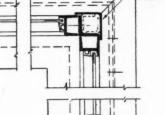
The material is produced in sheets up to 55 in. by 24 in. in transparent colours or in clear, and in thicknesses suitable for vacuum or other forming techniques. Opaque colours are also produced in sizes up to 72 in. by 36 in. (BX Plastics Ltd., Higham Station Avenue, Chingford, London, E.4.)

REPAIRING CONCRETE FLOORS

The patching of odd holes and cracks in The patching of odd holes and cracks in concrete floors is an old problem, and a successful repair generally involves a good deal of cutting away, particularly with shallow holes where the patch tapers out to a thin edge. The Ruberoid Company have now evolved a plastic compound (No. 100) which should be used in the proportions of 1½ parts compound, 1 cement and 2 of sand. It is claimed that even shallow holes need no more than cleaning off and primneed no more than cleaning off and primneed no more than cleaning off and priming, and that the mix need only be trowelled on. The Ruberoid compound is an emulsified bitumen which retains a certain amount of flexibility. (The Ruberoid Co. Ltd., 103 Commonwealth House, New Oxford Street, London, W.C.1.)







COENER

2 8 DIA

CONCRETE CURB

(NOT BY CRITTALL)

Messrs. Crittall's standardized bus shelter.

FLUORESCENT FITTINGS

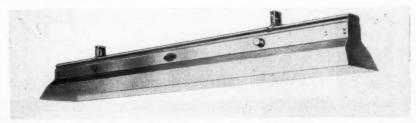
The Benjamin Electric Ltd. have intro-duced a new type of finish for some of their fluorescent fittings. This finish, known as "Peropal" is a high temperature stove enamelling embodying a synthetic resin. The new finish has been especially developed for light industrial needs where the conditions light industrial needs where the conditions are reasonably clean and dry. For severe conditions vitreous enamel should always be specified. The new Peropal range provides a variety of installation facilities which can be arranged as separate units or in continuous runs. A number of fittings are standardized, and include types for one or two 80 watt 5 ft. or 40 watt 4 ft. lamps. These can be supplied either with closed These can be supplied either with closed tops, or open for upward lighting, distribution is at 35 degrees to the vertical. The top channel accommodates the wiring and con-(The Benjamin Electric Ltd., Road, Tottenham, London, trol gear. Brantwood London. N.17.)

RUBBER DOORS

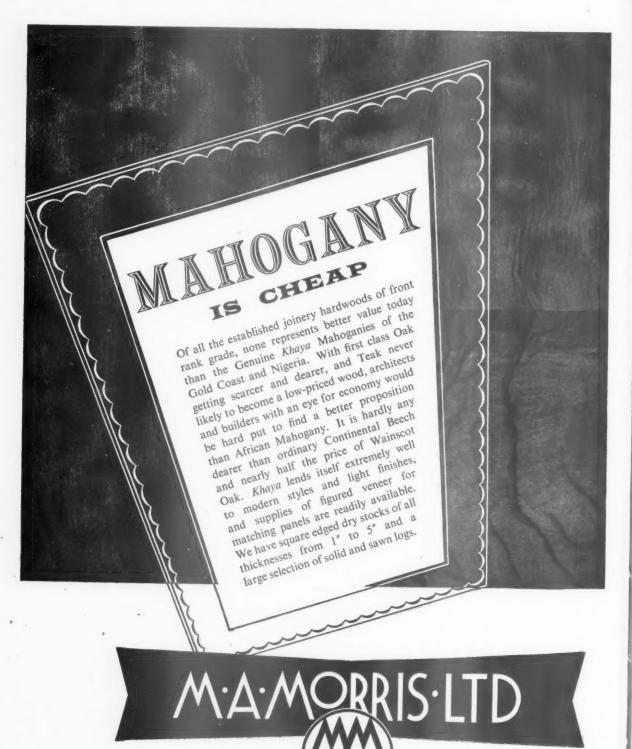
There are now two or three makes of rubber swing door on the market, one of the latest being the Mancuna, which is made

in sizes up to 15 ft. sq. The doors all have Perspex windows and are hung from inverted L shaped frames. Standard doors start at a size of 6 ft. by 5 ft. rising in 1-ft. start at a size of 6 ft. by 5 ft. rising in 1-ft. increases to 10 ft. by 10 ft. Up to this size $\frac{1}{16}$ in. 5 ply laminated rubber sheet is used, normally in black, though other colours are available. The heavy duty doors, suitable for road vehicles and lorries, have a far stronger framework, and the rubber is from $\frac{1}{2}$ in. thick. Other types of rubber door are produced for process ovens and conveyor ways. (Mancuna Engineering Ltd., Denton, Manchester.)

OVER



Benjamin Electric "Flurolier" fitting, closed top model for one 80 watt 5 ft. lamp.





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> NEW LO From th existing 709 and bath wa cases. tachable top and fixed. piece, si there are same tir mechanis that it is to some manufact Heaters, den, Lon



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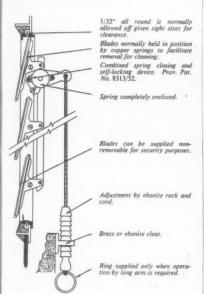
GLASS V A new le illustrates This firm type in tw shaped ho the circle other being tained in existing wi hole has be type are st diameters.

8 CU. FT. REFRIGERATOR

The G.E.C. have recently announced a new 8·1 cu. ft. refrigerator known as the D.E.81. The inside of the door has storage racks for eggs and bottles, and at the top of the cabinet there is a full width stainless steel freezer which will hold up to 40 lb. of frozen food of the kind now so widely sold, and which also has an ice shelf holding two rays each containing 1½ lb. of ice. There is a quick chiller drawer which is several degrees colder than the main food compartment. The refrigerator door has a lock stop over-eager youngsters sampling their party food" or for any other reason you may care to think up. Price (including purchase tax) is £144 18s. Od. (The General Electric Co. Ltd., Magnet House, Kingsway, London, W.C.2.)

NEW LOOKS FOR ASCOTS

From the end of this month three of the existing range of Ascot water heaters, the 709 and 709B multipoints and the SG 32/1 bath water heater, will have re-designed cases. Normally these heaters have a detachable front panel, held in metal channels top and bottom, the sides being permanently fixed. The new casings are made in one nxed. The new casings are made in one piece, sides, top, bottom and front, and there are thus fewer edges where the vitreous enamel finish may chip, while at the same time the heating body and valve mechanism (unchanged) is far more accessible. The new casing has the advantage that it is slightly cheaper to make, offsetting to some extent the steady upward trend in manufacturing costs. (Ascot Gas Water Heaters, 255 North Circular Road, Neasden, London, N.W.10.)



A lowred type ventilator with glass blades which can be detached for cleaning.

GLASS VENTILATORS

A new leaflet from H. W. Cooper & Co. illustrates various types of glass ventilator. This firm makes the circular hit and miss type in two forms, one in which the pear shaped holes are cut in the window glazing, the circle being detachable for cleaning, the other being produced as a complete unit contained in a double brass ring for fixing to existing windows after the necessary circular hole has been cut. Two sizes of the latter type are standardized 14½ and 12 in. outside

This firm also produces a number of





Left: The GEC refrigerator DE 81. This has 8 · 1 cu. ft. capacity and is provided with a lock. Price, £144 18s. Right: New casing for Ascot types 709, 709B, and SG 32/1. The heating mechanism remains unchanged but is now more accessible.

louvred type ventilators which are fully adjustable to suit all weather conditions. The glass blades are detachable for cleaning, but can, if necessary, be permanently fixed if security reasons make it necessary, and the louvres are automatically locked when closed. In normal louvres the blades are hinged about their horizontal centres, but if there are obstructions such as an inside sunblind or an outside grille there are two types of offset glass holder which give reduced inside or outside overhang. (H. W. Cooper & Co. Ltd., 3/5, Plympton Street, Church Street, London, N.W.8.)



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Buildings Illustrated

Health Centre at Corby, Northants. (Pages 219-226). Architect: R. Llewelyn Davies, M.A., A.R.I.B.A. Chief assistant: J. Weeks, A.R.I.B.A. Senior assistant: Walter Goddard. Associated architects and surveyors, Gotch, Saunders and Surridge. General contractor, Alfred Tailby & Son Ltd.; subcontractors: felt roofing, William Briggs & Sons Ltd.; wooden windows, Boulton & Paul Ltd.; heating and plumbing, G. N. Haden & Sons Ltd.; electrical installation, Troughton & Young Ltd.; flooring, Horsley Smith & Co. Ltd.; sanitary ware and fittings, Dent & Hellyer Ltd.; ironmongery, Alfred G. Roberts Ltd.; blinds and curtain contractors, J. Avery & Co. Ltd.; X-ray apparatus, A. E. Dean & Co.; curtains, Hemmings Bros, Hilling & Co.; furniture, Finmar Ltd., Furniture Industries Ltd.

North-East Essex Technical College, Sheepen Road, Colchester, Essex, for the County Education Committee. (Pages 227-32), Architect: H. Conolly, F.R.I.B.A., County Architect; D. Senior, F.R.I.B.A., Deputy County Architect; W. C. B. Smith, A.R.I.B.A., Assistant County Architect (Education); N. P. Astins, A.R.I.B.A., Section Assistant Architect; Mrs. D. M. Nicholls, A.R.I.B.A., and P. R. Cansdale, Assistant Architects. Consulting Engineers: W. S. Atkins & Partners. Quantity Surveyors; E. C. Harris & Partners. Sculpture: F. Belsky. General Contractors: (contract 1, RC frame, foundations, roads and drains) Joseph Moss & Son Ltd.; (contract 2, superstructure and finishes) Hutton (Builders) Ltd.; Clerk of Works, B. W. Mortlock; general foremen (contract 1) C. Biggins, (contract 2) W. H. Martin; precast concrete frame to workshops, London Ferro-Concrete Co. Ltd.; bricks, Procter & Lavender Ltd., Eastwoods Ltd.; windows, The Crittall Mfg. Co. Ltd.; patent glazing, Faulkner Greene & Co.

Ltd.; roofing felt, Melis Asphalte Co. Ltd., heating and ventilation, Corton & Bergin Ltd.; electrical work, M. G. (Colchester) Ltd.; flush doors, Walter Lawrence & Son Ltd.; locks and door furniture, Lockerbie & Wilkinson Ltd.; sliding, folding partition, Esavian Ltd.; floor finishes (woodblock), Hollis Bros. Ltd.; (terrazzo) Marriott & Price Ltd.; (tiles, glazed tiling) Carter & Co. (London) Ltd.; (granolithic) Stuart's Granolithic Co. Ltd.; (accotile) Rowan & Boden Ltd.; (cork) E. J. Elgood Ltd.; acoustic spray, Turners Asbestos Cement Co. Ltd.; sliding, folding metal gates, Bolton Gate Co. Ltd.; rolling shutters, Shutter Contractors Ltd.; sanitary fittings, B. Finch & Co. Ltd.; staircase balustrades, etc., Light Steelwork (1925) Ltd.; cloakroom equipment, Cloakroom Equipment Ltd.; lift, Marryat & Scott Ltd.; lettering (applied and painted), The Lettering Centre; cement glaze wall finish, Cement Glaze Ltd.; precast terrazzo lavatory partition, The Mosaic & Terrazzo Co. Ltd.; decorative lighting fittings, Troughton & Young Ltd.; clocks, Gent & Co. Ltd.; joinery, R. Cattle Ltd.; lighting fittings in workshops (Enfield Catenary System), Enfield Cables Ltd.; paint, Screeton Paintmaker Ltd., Inertol Co. Ltd.

Announcements

Edinburgh Corporation have appointed as assistant city architect T. H. Corner, A.R.I.B.A., A.M.T.P.I. Mr. Corner, who was formerly chief architect to the City of Cambridge, has already commenced his new duties.

Following the retirement of F. Q. Farmer, F.R.I.B.A., as a partner, Frankland Dark, F.R.I.B.A., has taken into partnership Thomas A Eaton, A.R.I.B.A., and William A. Henderson, A.R.I.B.A. The firm will continue to practise under the style of Farmer and Dark. F. Q. Farmer remains consultant to the firm.

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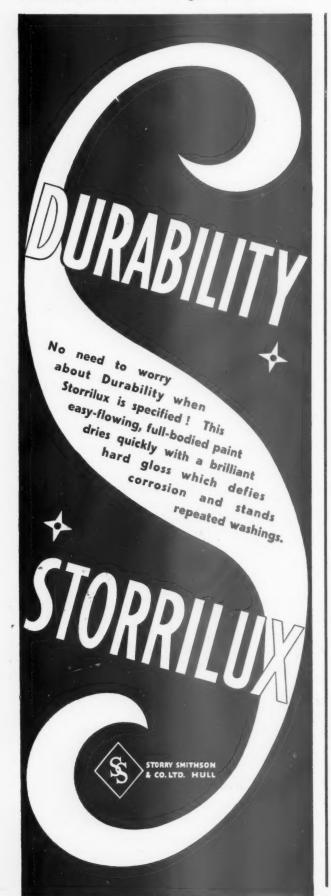
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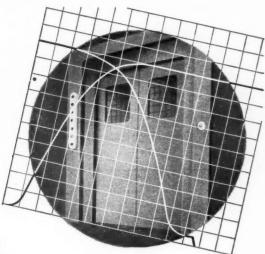
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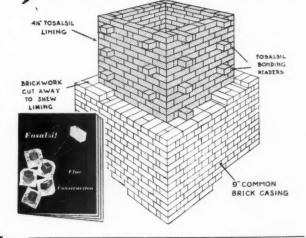
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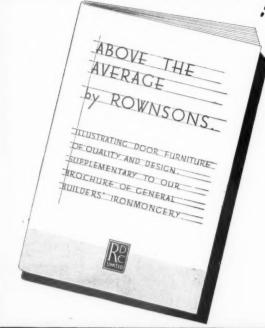
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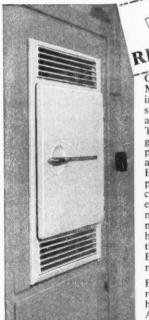
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...and in go 150 Electrolux



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On this Foley House Estate, Model M.151 is being installed in each of the 150 houses, as a standard fitting in the homeand included in the overall cost. This is typical of the trend and general preference. Architects planning for Private Buildersand Local Authorities-specify Electrolux, because from experience they know they can count on this refrigerator giving efficient, trouble-free service for many, many years. In turn, nothing pleases the incoming housewife more than to see on the refrigerator-door the name Electrolux . . . renowned for reliability and silent service.

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Modern Architectural Design by Howard Robertson P.R.I.B.A., S.A.D.G. THIS NEW EDITION of Modern Architectural Design, which is, in a sense, a companion volume or sequent to the author's well-known Principles of Architectural Composition, has been very largely rewritten, entirely reset and newly illustrated. It is not a plea for the so-called modern movement but is a penetrating and constructive analysis of the design problems which face the practising architect and student of the present day. Mr. Robertson combines theory and experience gained from practice in a lively and stimulating discussion of present-day problems of planning, structure, materials and decoration. His text is thoroughly illustrated with photographs and drawings of the most interesting modern buildings in Europe and America. Size 81 ins. by 54 ins. 228 pages illustrated with half-tone and line illustrations. Price 25s. net, postage 74.



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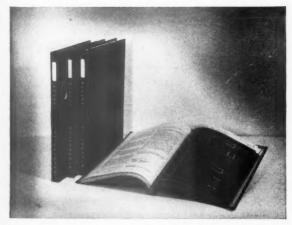
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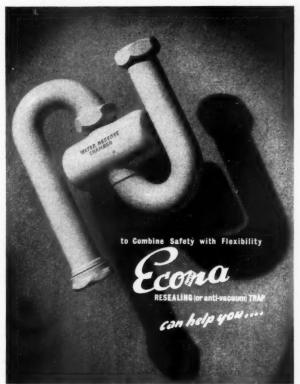
Extremely robust in construction and of pleasant appearance, the Marley Municipal Garage has a durability more than equal to that of a brick garage at a considerably lower finished cost. Made of high grade reinforced concrete, with asbestos roofing, it is virtually fireproof and therefore earns the ready approval of Local Authorities.

Overall Size: 18ft. 5in. long by 7ft. high to eaves at front tapering to 6ft. at rear. Height can be increased by 1ft. or 2ft., allowing length to be extended by multiples of 6ft.

Write to your nearest works for full details and specifications.

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13. Queen Anne's Gate, Westminster, S.W.L. and
should reach there by first post on Friday
morning for inclusion in the following Thursday's

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

Public and Official Announcements

25s. per inch; each additional line, 2s. The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-69 inclusive unless he or she or the employment is excepted from the provisions of the Notification of Vacancies Order, 1952.

DECEMBER 2018

INCOME 2018

NORTHAMPTON.

BOROUGH ARCHITECT'S DEPARTMENT.

JUNIOR ARCHITECTURAL ASSISTANT

(EDUCATION) A.P.T.I (499-6555).

Particulars of appointment and form of application to be returned by 27th August may be obtained from the Borough Architect's Department, Guildhall, Northampton.

C. E. VIVIAN ROWE.

Town Clerk.

3549

Air Ministry Works Department requires ARCHITECTURAL ASSISTANTS in Design Branch. Applicants should be experienced in planning and preparation of working drawings and details for permanent and semi-permanent buildings. Professional qualifications an advantage. Vacancies main'y London, few Provinces. Appointments carry liability for overseas service for which allowances payable. Salaries up to £780 p.a. for men. £618 for women. Starting pay dependent upon age, qualifications and experience. Extra duty allowance or overtime payable. Reasonable prospects of promotion. Posts temporary and non-pensionable but have long term possibilities. Competitions held periodically to fill established vacancies. Applications from natural born British subjects only, quoting A/C and stating age, qualifications and previous appointments, giving dates and stating types of work done, to Air Ministry, S.2(h)/NA, Cornwall House. Stamford Street. London, S.E.1.

MINISTRY OF WORKS.

ARCHITECTURAL ASSISTANTS are required for drawing office work in London and various Regional Offices. Candidates must have had at least three years' architectural training, some experience in an architect's office, and be of Intermediate R.I.B.A. standard.

London salary scale per annum: £420 (at age 21) to £670 (siightly less in the provinces), Starting rate up to £580, according to age and experience. Although unestablished, these posts have long-term possibilities and promotion prospects, and competitions are held periodically for establishment.

ment.

State age, nationality, and full details of training and experience, to W.G.10/CA5 (F), Ministry of Works, Abell House, John Islip Street, London, S.W.

S.W.I.

Grade III ENGINEERS (salary up to £392 10s.) and SURVEYING ASSISTANTS (up to £739 10s.) required to District Surveyor's Service, Qualifications A.R.I.B.A., A.M.I.Str.E., or A.R.I.C.S.; structural knowledge essential. Particulars and application forms from Architect (AR/EK/DS/2), County Hall. S.E.I. (1025).

UNIVERSITY OF CAMBRIDGE, Department of Estate Management, require the services of a

UNIVERSITY OF CAMBRIDGE, Department of Estate Management, require the services of a JUNIOR ARCHITECTURAL ASSISTANT. Salary according to age and experience. Wide variety of interesting work, giving opportunity of valuable experience towards qualifications. Applicants should have completed National Service and have a sound knowledge of working drawings, details and surveys. Reply, giving full details, to Secretary, 74, Trumpington Street, Cambridge.

BOROUGH OF HARROW.

BOROUGH ENGINEER AND SURVEYOR'S

DEPARTMENT.

Applications are invited for the following appointments in the Department of the Borough Engineer and Surveyor (Mr. J. H. Melville Richards, A.M.I.C.E., M.I.Mun. E.):—

(a) ARCHITECTURAL ASSISTANT, A.P.T. Grades I/III, salary scale 4590 to 4595 per annum, plus London "weighting."

(b) QUANTITY SURVEYING ASSISTANT, A.P.T. Grades III/IV, salary scale £550 to £625 per annum, plus London "weighting."

The appointments will be subject to the provisions of the Local Government Superannuation acts; the passing of a medical examination; and the National Joint Council's Scheme of Conditions of Service. Service.

The Corporation is unable to assist in obtaining

of Service.

The Corporation is unable to associate the Corporation is unable to associate the Carvassing will be a disqualification.

Application forms may be obtained from the undersigned, to whom they should be returned not later than Friday, 27th August. 1954.

D. H. PRITCHARD.

Town Clerk.

Council Offices.

Harrow Weald Lodge,
Harrow, Middlesex.

LONDON COUNTY COUNCIL.

Architects and surveyors required for safety regulations of theatres and special buildings, and for general building regulation work, salaries up to £892 10s. 0d. according to experience. A.B.I.B.A. or A.B.I.C.S. essential. Particulars and application form from Architect (AR/EK/TBR/3), The County Hall. S.E.I. (949)

COUNTY BOROUGH OF SOUTH SHIELDS.

ASSISTANT ARCHITECTS.

Applications are invited for two appointments as ASSISTANT ARCHITECTS in the Borough Engineer's Department, at a salary up to A.P.T. Grade VI.—£695 to £760, according to qualifications and experience.

The appointments will be terminable by one

and experience.

The appointments will be terminable by one month's notice on either side and the successful candidate will be required to pass a medical examination for superannuation purposes.

Housing accommodation will be made available,

required.
Application forms (quoting Ref. 1), obtainable om the Borough Engineer, Town Hall, South hields, to be returned to him not later than noon, londay, 30th August, 1954.

HAROLD AYREY.
Town Clerk.

METROPOLITAN BOROUGH OF
CAMBERWELL.
Department of Director of Housing and
Borough Architect.
(a) ASSISTANT ARCHITECT grades A.P.T.
V/VI (£650-£790 inclusive of £30 London weighting). Qualification required-A.R.I.B.A.
(b) JUNIOR ARCHITECT grades A.P.T. III/
IV (£580-£655 inclusive of £30 London weighting).
Qualification required-R.I.B.A. Intermediate examination or its equivalent with a minimum of one year in an architectural office.
No housing provided. Local Superannuation Act. Application form from Town Clerk. Town Hall, S.E.5. Closing date Jist August, 1954.

BOROUGH OF NEWCASTLE UNDER LYME.
Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT, Salary Grade A.P.T. VI (£695-£760 p.a.).
The Department has in hand a varied programme, including New Schools. Housing, Shops, Offices. Public Conveniences and other works.
Candidates having appropriate experience and who are members of the R.I.B.A. will receive preference. Favourable consideration will be given to the provision by the Council of housing accommendation in suitable cases.
Application Forms and Conditions of Appointment may be obtained from the Borough Engineer and Surveyor, Lancaster Building, High Street, Newcastle, Staffs., and applications should be returned to him not later than Tuesday, the 31st August, 1954.

C. J. MORTON. Town Clerk.

istrict Bank House, High Street, Newcastle, Staffs.

WEST RIDING COUNTY COUNCIL.
ARCHITECTS required for first class architectural work in the Education Section of the office of the County Architect—applicants must be capable designers. Salary scales from £490-£810. Application forms may be obtained from the County Architect, Bishopgarth, Westfield Road, Wakefield.

CUMBERLAND COUNTY COUNCIL.
PLANNING ASSISTANTS, A.P.T., GRADE VI
(£695-£760).

Applications are invited from qualified and suitably experienced candidates for the above permanent appointments in the department of the County Planning Officer. Further particulars as to duties, car and subsistence allowances, etc., and forms of application may be obtained on request from the County Planning Officer. Citadel Chambers, Carlisle, to whom completed forms will require to be returned by Monday, 6th September.

G. N. C. SWIFT. Clerk of the County Council. The Courts, Carlisle.

EASTERN ELECTRICITY BOARD.
ESSEX SUB-AREA.
VACANCY: ARCHITECTURAL
DRAUGHTSMAN.

Applications are invited for the above position in the Essex Sub-Area Drawing Office, near Brentwood, Essex.
Candidates should have had a good technical training in building construction. Duties would be the preparation, under supervision, of plans and detailed drawings in connection with offices, showrooms, workshops and sub-station buildings.
The salary would be in accordance with the National Joint Board Agreement, Schedule "D," Grade VI, £488 to £595 7s., inclusive of London weighting, depending upon qualifications and experience.

perience.
Future salary and conditions of service will be in accordance with agreements made from time to time by the appropriate negotiating bodies. The successful candidate will be required to contribute to a superannuation scheme.

Applications by letter, stating age, education, qualifications and experience, with details of present employment, should be submitted to the Manager, Essex Sub-Area, Eastern Electricity Board, "Millfield," Bentley, near Brentwood, Essex, within 14 days of the appearance of this advertisement.

3674

BOROUGH OF TAUNTON.

ARCHITECT'S DEPARTMENT.

Applications are invited for the post of ASSISTANT QUANTITY SURVEYOR. Salary (A.P.T., Grade V), 2620-2670, in the Borough Housing Architect's Department. Candidates should preferably be Associates of the Royal Institution of Chartered Surveyors.

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

Consideration will be given to housing accommodation if required.

Applications, stating age, qualifications, previous experience, and the earliest date when available, together with the names and addresses of two referees, should be sent to C. Bacon, F.R.I.B.A., Borough Housing Architect, Flook House, Station Road, Taunton, by not later than Wednesday, 8th September, 1954.

L. ATWELL, Town Clerk

Municipal Buildings, Taunton.

Municipal Buildings, Taunton.

3664

METROPOLITAN BOROUGH OF CHELSEA.
JUNIOR ARCHITECTURAL DRAUGHTSMAN
required. Borough Engineer and Surveyor's Department.

Salary: £520-£565. plus London
"weighting" (A.P.T., Grade II). N.J.C. conditions. Candidates must have a sound knowledge of architectural drawing, building construction, and the measurement of buildings. Apply, stating age, education, experience, qualifications, and three referees, to the Town Clerk, Town Hall, Chelsea, S.W.3, by 1st September, Endorse "Junior Architectural Draughtsman."

Canvassing disqualifies. Box 3654.

qualifies. Box 3654.

DERBYSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for appointment of ARCHITECT (Permanent Staff) on A.P.T., Grade VIII. Salary: £785 × £25—£860 per annum.

Duties in connection with the General Education Section of the department.

National Joint Council's scheme of conditions and passionable post.

Applications of Council's scheme of conditions and pensionable post.

Application forms from County Architect, St. Mary's Gate, Derby, by 30th August, 1954.

NEW TOWN OF CWMBRAN. MON.

Applications are invited for the following superannuable vacancies in the Chief Architect's Department:—
TWO LENIOR ASSOCIATION

tment:— WO JUNIOR ASSISTANT ARCHITECTS. Imencing salary £525, on range £525×£25—

Commencing salary £525, on range £525. Candidates should be either graduate architects, or have passed the Intermediate examination of the R.I.B.A. and had 2 years' office experience. Housing accommodation will be made available in suitable cases or otherwise lodging expenses in accordance with the Corporation's scale will be paid to married men for a limited period. Applications, stating age, experience, defails of present and former employment (together with applicable salaries), and the names and addresses of two referees, must reach the undersigned by first post on the 1st September, 1934.

J. C. P. WEST, A.B.I.B.A., A.M.T.P.I., Chief Architect.

Victoria Street. Cwmbran, Mon. Victoria Street. Cwmbran, Mon.

ARCHITECTURAL MODELMAKERS, experience in contemporary techniques, quired in Architect's Department in Hamms mith. Salaries un to £500 per annum. Applications, giving brief particulars of experience a qualifications, to Chief Architect, George Wimbeller, Ltd., 27, Hammersmith Grove Londe W.6 (envelope marked "Staff Vacancy"). 33

M.6 (envelope marked "Staff Vacancy"), 3561

ROBERT GORDON'S TECHNICAL COLLEGE,
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SCHOOL OF ARCHITECTURE.
LECTURER AND STUDIO INSTRUCTOR
(GRADE 11) IN ARCHITECTURAL DESIGN
AND CONSTRUCTIONAL SUBJECTS.
AND CONSTRUCTIONAL SUBJECTS.
And Studio Instructor in Architectural Design and
Constructional Subjects.
The College is recognised for purposes of exemption from the R.I.B.A. Intermediate and Final Examinations.

Examinations.

Candidates must be Associates of the Royal Institute of British Architects, and should possess the Degree or Diploma of a recognised School of

Architecture.

Salary scale: £540×£30—£840, with initial placing on the scale according to qualifications and experience. The salary scale is under revision. Further naticulars and Forms of Application may be obtained from the undersigned, to whom completed applications should be returned on or before Friday, 3rd September, 1954.

A. C. WEST.

Director.

ARCHITECTURAL ASSISTANTS (THREE) required in Architect's Office, British Railways, Eastern Region, at King's Cross Station. Applicants should be of at least Intermediate R.I.B.A. standard, with practical experience. Salary range: £649-£79 per annum. Free residential railway travelling within specified limits and other reduced rate travelling facilities after qualifying period of service. Five-day week and canteen facilities. Apply in writing, giving full particulars as to qualifications, experience, etc., to the Civil Engineer, Eastern Region, British Railways, King's Cross Station, London, N.1.

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SUDAN GOVERNMENT.

The Director of Education invites applications from suitably qualified candidates for the posts of LECTURER in the Building Department of the flattoum Technical Institute. Candidates should possess a degree or other relevant technical qualification, such as A.M.I.C.E. or A.R.I.B.A., and should not be less than 30 years of age on appointment. Industrial experience is essential, and experience in a similar appointment would be andwartage. One of the posts is available for Structural Engineers only. Successful candidates will be required to teach their subjects to Higher National Certificate standard, and will also be required to supervise certain workshop and laboratory activities. Appointment will be on Short Term Contract, with bonus, determinable at any time by six months' motice from either side, provided that on or after the 1st April, 1955, the period of notice shall be three months and not six. Salary scale ranges from £E.1,075 to £E.1,675 p.a. Point of entry into this scale will be determined according to age, qualifications and experience. A cost-of-living allowance, which is reviewed quarterly, is also payable. Outfit allowance of £E.50 on appointment and free passage. There is at present no income tax in the Sudan.

Further particulars and application form will be sent on receipt of a postcard only, addressed to the Sudan Agent in London, Sudan House, Cleveland Row, St. James's London, S.W.1, quoting '8. Asst. Building 1010," and name and address in block letters.

S531

NATIONAL COAL BOARD

NATIONAL COAL BOARD
WEST MIDLANDS DIVISION.
ARCHITECTURAL ASSISTANT GRADE 1
Applications are invited for an ARCHITECTURAL ASSISTANT Grade 1 (£525 × 26 to £650
male) and (£420 × 20 to £520 female) in the
Divisional Architect's Department of the Board.
Headquarters for this appointment will be at
Fenton, Stoke-on-Trent.
Applicants should have passed the Intermediate
Examination of the R.I.B.A. and have had not
less than three years subsequent practical
experience, should be able to prepare sketch
plans and working drawings under supervision,
and have a sound knowledge of building construction. Duties include large scale colliery
surface building reconstruction work.
Applications to the Divisional Establishment
Officer. National Coal Board, West Midlands
Division, Himley Hall. Dudley, Worcs.

BOROUGH OF WILLESDEN.

BOROUGH OF WILLESDEN

BOROUGH OF WILLESDEN.

Appointment of ARCHITECTURAL ASSISTANTS Grade A.P.T. VI (£696-£760 per annum) exclusive of London Weighting.

Applications are invited for the above appointments on the permanent staff of the Borough Engineer and Surveyor's Department from suitably experienced persons who are Associates of the Royal Institute of British Architects or who hold an equivalent qualification.

The commencing salary in each case will be fixed in accordance with the qualifications and experience of the successful candidates.

The Council is unable to assist with housing. Full details and forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall, Dyne Road, Kilburn, N.W.6, and should be returned to the undersigned not later than 10 a.m. on Monday, 30th August.

Town Clerk.

Town Hall, Dyne Road, Kilburn, N.W.6. August, 1954.

Agust, 1984.

BOROUGH OF SHREWSBURY.
READVERTISEMENT.

APPOINTMENT OF ARCHITECTURAL
ASSISTANT.

Applications are invited for the appointment of
ARCHITECTURAL ASSISTANT on the permanant staff of the Borough Surveyor. Salary
will be in accordance with A.P.T. Grade IV, £580
- £625 and the person appointed will be required
to pass a medical examination.
Applications stating age, qualifications and
experience, together with the names and addresses
of two referees should be sent to the Borough
Surveyor, Guildhall, Shrewsbury, not later than
the 27th August, 1954.

S. R. H. LOXTON. Town Clerk. Guildhall, Shrewsbury. 4th August, 1954.

4th August. 1954.

COUNTY OF ESSEX.

ILFORD COMMITTEE FOR EDUCATION.

The Essex County Council invite applications for the post of ARCHITECTURAL ASSISTANT in the offices of the Borough Engineer of Ilford. Candidates should have passed the R.I.B.A. Internediate examination, or its cauivalent, at one of the recognised Schools of Architecture, and have worked in an architectural office for a period of not less than two years.

The scale of salary will be in accordance with the National Joint Council, A.P.T. Division, Grade IV, £580×£15—£625, plus the appropriate London Area allowance.

Application should be made on a form to be obtained from, and returned to, the Borough Education Officer, Education Offices, Fown Hall, and the proper services of the appearance of this advertisement.

DENBIGHSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT,
WREXHAM.

Applications are invited for the temporary appointment (approximate period of two years) of a JUNIOR ASSISTANT ARCHITECT, A.P.T., Grade I (£490-£535 per annum). Preference will be given to applicants who are preparing for the Intermediate R.I.B.A. examination. Applicants must be capable of the preparation of working drawings and details. Further details and application form may be obtained from the undersigned, to whom the completed forms are to be returned by 11th September, 1954.
W. E. BUFTON,
Clerk of the County Council.

ARCHITECTURAL ASSISTANT.
Applications are invited for the appointment of an Architectural Assistant, to work under the direction of the Council's Architect, Surveyor and Engineer. Salary for the appointment will be in accordance with Grade IV of the A.P.T. Division of the National Scales, viz., £580×£15×£15-£625 per annum. Applicants should have had a good architectural training, and preference will be given to candidates with experience of Local Authority Housing Schemes and holding a recognised professional qualification.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, 1937-1953, and also to one month's notice on either side. If required, housing accommodation will be provided within a reasonable time after the appointment is made, but this must be vacated if and when the appointment is terminated.

Applications, stating age, qualifications, experience, and giving the names of two persons to whom reference can be made, must reach the undersigned not later than Saturday, 28th August, 1954.

R. W. BLYTHE,
Clerk of the Council.

R. W. BLYTHE,
Clerk of the Council.

Town Hall, Bishop Auckland.

Town Hall, Bishop Auckland.
9th August, 1954.

CITY OF LEICESTER
CITY ARCHITECT'S DEPARTMENT.
Applications are invited for the following posts:
(a) TWO SENIOR ASSISTANT ARCHITECTS
(Education and Housing). Salary: £785-£866.
(b) ONE ASSISTANT ARCHITECT (Education).
Salary £629-£670.
Applicants must be registered, and in the case of (a) should have had previous experience in the preparation of working drawings and supervision of large building contracts.
(c) TWO ASSISTANT QUANTITY SURVEYORS. Salary: £785-£860.
Applicants should be qualified and have had previous experience of preparation of Bills and settlement of accounts for large building contracts.
(d) CLAIMS CLERK (Housing). Salary: £496-£535. Experience in a Builder's office is desirable.
Applications, accompanied by copies of two recent testimonials, to be received not later than Friday, 27th August, 1954.
J. H. LLOYD OWEN,
J. H. LLOYD OWEN,
City Architect.
3006

J. H. LLOYD OWEN.

City Architect.
3606

INVERNESS COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for appointment as ARCHITECTURAL ASSISTANT in the above Department. Salary scale £580-£625 per annum with placing according to experience and qualifications.
Candidates should be quick and accurate draughtsmen with a sound knowledge of contemporary design and construction.
Applicants, stating age, particulars of training, experience and qualifications, together with the names of two persons to whom reference reay be made, should be lodged with the undersigned not later than 14 days after the publication of this advertisement.

The appointment will be subject to the terms of the Local Government Superannuation (Scotland) Acts.

R. WALLACE, County Clerk.

County Buildings,
Ardross Street, Inverness.

COUNTY BOROUGH OF OLDHAM.
APPOINTMENT OF ARCHITECTURAL
ASSISTANTS.
Applications are invited for the following appointments in my Department:

(1) Architectural Assistant, at a salary in accordance with Grade A.P.T., V (£620-£670 per annum).

(1) Architectural Assistant at a salary in accordance with Grade A.P.T., V (£620-£670 per annum).

(2) Junior Architectural Assistant, at a salary in according to qualifications.

Applicants for the first appointment should be Registered Architects, and in both cases Housing Accommodation will be provided if necessary. The appointments will be subject to the Superannuation Acts, and the successful candidates will be required to pass a medical examination.

Applications, giving age and previous appointments, in addition to qualifications and experience, together with copies of two recent testimonials, must reach me not later than Monday, the 30th August, 1954, in envelopes endorsed "Architectural Assistant."

Borough Engineer and Surveyor.

75, Union Street, Oldham.

3627

WELWYN GARDEN CITY AND HATFIELD DEVELOPMENT CORPORATION.
APPOINTMENT OF CLERK OF WORKS.
Applications are invited for the appointment of Clerk of Works, at a salary of £655 per annum. Applicants should be practical tradesmen, with previous supervisory experience of all trades on substantial contracts, and be competent in setting out and levelling. Experience on non-traditional housing would be an advantage.

The appointment is superannuable and terminable by one month's notice on either side.
The successful applicant will be assisted in obtaining housing accommodation if required. Applications, giving age, qualifications and full details of present and past appointments, salaries and experience, together with the names of three persons to whom reference may be made, should be addressed to the General Manager at 4, Wigmores South, Welwyn Garden City, Herts, and be received by 28th August, 1954.

COUNTY BOROUGH OF DEWSBURY.
BOROUGH ARCHITECT AND BUILDINGS SURVEYOR'S DEPARTMENT.
Applications are invited for the following appointments in the above Department:—
(a) ARCHITECTURAL ASSISTANT.
The salaries will be in accordance with A.P.T., Grade IV (£590-£625 per annum), the commencing salary to be fixed within the scope of this grade for each post.

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

Applications, stating age, education, qualifications full particulary of training and experience.

successful candidates will be required to pass a medical examination.

Applications, stating age, education, qualifications, full particulars of training and experience, together with copies of two recent testimonials, should be sent to the undersigned not later than Monday, 30th August, 1954, in envelopes endorsed "Architectural (or Quantity Surveyor's) Assistant."

A. NORMAN JAMES, Town Clerk.

Town Hall, Dewsbury.

5th August, 1954.

COUNTY OF ESSEX.

H.FORD COMMITTEE FOR EDUCATION.

The Essex County Council invite applications for an ASSISTANT ARCHITECT, to work in the office of the Borough Engineer, to deal with work for the Committee for Education. Applicants should be Registered Architects, and should have had experience in the planning, designing, construction and supervision of school buildings.

The scale of salary will be in accordance with the National Joint Council, A.P.T. Division, Grade V: £620 × £15×£15×£20 to a maximum of £670, plus the appropriate London Area allowance. There will also be paid such travelling and subsistence allowances as may from time to time be determined by the Council.

Applications should be made on a form to be obtained from and returned to the Borough Education Offices, Town Hall. Ilford, together with copies of not more than three recent testimonials, within 14 days of the appearance of this advertisement.

BOROUGH OF SWINDON.

ment.

BOROUGH OF SWINDON.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment in the Berough Architect's Department at a salary in accordance with A.P.T. Grade IV (6580-6265 per annum) in connection with a programme for the Expansion of the Borough.

Applicants must bave had experience in housing and general architectural work of a Local Authority, and must have passed the Intermediate Examination of the Royal Institute of British Architects.

Examination of the Royal Architects.
Housing Accommodation is available.
Applications, on forms obtainable from the Town Clerk, Civic Offices. Swindon, must be returned not later than 28th August, 1964.

3601

returned not later than 28th August, 1964.

COUNTY COUNCIL OF RENFREW. Applications are invited for the following appointments in the County Engineer's Department:—
(a) SENIOR ARCHITECTURAL ASSISTANT, A.P.T., V-VI (£630-£770). Applicants must be Registered Architects and Members of R.I.B.A. and/or R.I.A.S. Previous Local Authority experience would be an advantage.
(b) Intermediate ARCHITECTURAL ASSISTANT, A.P.T., I-II-III (490-£595). Applicants must have bassed the Intermediate examination of the R.I.B.A.

The appointments are superannuable. Applications. stating age, qualifications and experience, together with recent testimonials, should be sent immediately to the County Clerk, County Buildings, Paisley.

COUNTY BOROUGH OF BOOTLE.

cogether with recent immediately to the County Ulera, immediately to the County Ulera, ings. Paisley.

COUNTY BOROUGH OF BOOTLE.

Applications are invited for the following two permanent appointments:

ASSISTANT ARCHITECT, A.P.T., IV (£580-£625 per annum).

ARCHITECTURAL ASSISTANT, A.P.T., III (£550-£595 per annum).

Preference will be given to those having experience on the design and planning of schools.

Application forms, obtainable from the Borough Surveyor. Town Hall, Bootle, are returnable by Friday, the 3rd September, 1954.

HAROLD PARTINGTON,

Town Clerk.

3629

HAMPSHIRE.

Applications are invited for the appointment of a TECHNICAL ASSISTANT, in the County Planning Department, on Grade III of the National Scales (£550-£595), to work at Fareham. Candidates should have passed the Intermediate examination of the Town Planning Institute or of a related professional body, and have had experience in the Planning Department of a Local Planning Authority. The appointment is pensionable, and will be subject to a satisfactory medical report. In approved cases the County Council are prepared to assist newly appointed staff to meet removal expenses.

Applications, stating age, education, qualifications and experience, together with a copy of one testimonial and the names of two referes, should reach the County Planning Officer, Litton Lodge, Clifton Road, Winchester, by the 31st August.

NORFOLK COUNTY COUNCIL.
ASSISTANT ARCHITECT, salary grade, A.P.T.,
V.(6620-6670), required. Applicants should be
Members of R.I.B.A. or hold equivalent qualification; superannuable subject to medical examina-

tion.

Applications, stating age, experience, present appointment and salary, names of three referees (including present employer), to County Architect, 27, Thorpe Road, Norwich, by 1st September, 1954.

H. OSWALD BROWN,

Clerk of the Council.

County Offices, Thorpe Road, Norwich.

STEVENAGE DEVELOPMENT CORPORATION.
CHIEF ARCHITECT'S DEPARTMENT.
Applications are invited for post as ASSISTANT
ARCHITECT, on salary grade £655×£30 to £225
per annum. Applicants should be fully qualified
Architects, with experience of large scale building

Housing accommodation will be available in due

Housing accommodation will be available in due course in appropriate cases.

Applications, giving details of experience and names of two referees, should be sent to the Chief Administrative Officer, Aston House, near Stevenage, Herts., not later than 30th August, 1954.

LANCASHIRE COUNTY COUNCIL—
PLANNING DEPARTMENT.
SECTIONAL PLANNING OFFICER required at LANCASTER and ULVERSTON. A.P.T., Grade VII (£735-£810). Duties include surveys, development control, and duties in connection with the preparation of Town Maps. Candidates should be qualified Architects, Engineers or Surveyors, with planning experience. Applications, giving experience, qualifications, age, and two referees, to County Planning Officer, East Cliff County Offices, Preston, by 1st September, 1954.

County Planning Officer, East Cliff County Offices, Preston, by 1st September, 1954.

GOVERNMENT OF NORTHERN IRELAND. MINISTRY OF FINANCE—DIRECTORATE OF WORKS.

ARCHITECTURAL ASSISTANTS.

Applications are invited from ARCHITECTURAL ASSISTANTS with recognised training and experience for unestablished posts in the Chief Architect's Branch. The employment will provide useful experience for those seeking to obtain professional qualifications. Successful candidates will be eligible for consideration for permanent and pensionable posts as vicancies arise and for promotion to a higher grade on their obtaining full professional qualifications. The inclusive annual salary scale is £400, rising to £670. The starting pay of candidates who have passed the R.I.B.A. Intermediate Examination will be £505. Entry points for other candidates who saved in H.M. Forces in the 1914-18 or 1939-46 wars, provided that such candidates who served in H.M. Forces in the 1914-18 or 1939-46 wars, provided that such candidates are or within a reasonable time will be, able to discharge the duties efficiently.

Candidates who are invited to attend for interview will be recouped cost of railway and steamer fare at minimum rates.

Applications, giving date of birth and full details of training and qualifications, should be sent to the Director of Establishments, Ministry of Finance, Stormont, Belfast.

LONDON ELECTRICITY BOARD.

ARCHITECTURAL DRAUGHTSMEN.

Applications are invited for the above positions in the Architect's Section of the Chief Engineer's Department in Central London.

Applicants should be neat draughtsmen and preferably have had several years' experience in an Architect's office.

The post is graded under Schedule "D" of the National Joint Board agreement as Grade 6 (£458 to £595 78. per annum, inclusive of London allowance).

Application forms obtainable from Personnel Officer, 46, New Broad Street, E.C.2. Please enclose addressed envelope and quote ref. V/1785/A on envelope and all correspondence. 3486

MINISTRY OF WORKS—EDINBURGH.
ASSISTANT ARCHITECT required. Salary
range 6635 (age 25) to £960 p.a. Maximum entry
rate £830 p.a. Women's rates slightly lower.
Prospects of permanent pensionable posts. Qualifications: Registered Architect by examination
with experience in design and construction of
modern buildings. Apply to Establishment Officer,
Ministry of Works, 122, George Street, Edinburgh.
3700

CAMBRIDGESHIRE COUNTY COUNCIL. COUNTY ABCHITECT'S DEPARTMENT. Applications are invited for an ARCHITEC TURAL ASSISTANT, A.P.T., Grade VI (£695-

TURAL ASSISTANT, A.P.T., Grade VI (£695-£760).

Applicants should be Members of the Royal Institute of British Architects, and have had experience in design and construction of all types of public buildings.

Applications, stating age, qualifications and experience, accompanied by one recent testimonial, and the names and addresses of two referees, should be sent to the Clerk of the County Council, Shire Hall, Cambridge, not later than Tuesday, Jist August, 1954.

The appointment will be subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Act, 1937.

The selected candidate will be required to pass a medical examination.

Clerk of the County Council.

Shire Hall, Cambridge.

Shire Hall, Cambridge. 10th August, 1954.

10th August, 1954.

WEST SUSSEX COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of
TWO SENIOR ASSISTANT ARCHITECTS on the
Temporary Staff, at salaries of 2860 per annum.
The appointments will be for a misimum period
of two years, subject to satisfactory service.
Further particulars should be obtained from the
County Architect. County Hall. Chichester, to
whom detailed applications should be submitted
not later than 9th September, 1954.

T. C. HAYWARD,
Clerk of the County Council.
County Hall, Chichester.

1th August, 1954.

LONDON COUNTY COUNCIL.

County Hall, Chichester.

11th August, 1954.

2697

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Vacancy for ARCHITECT, Grade I (£1,071 to £1,224), to lead group engaged on part of programme which includes fire stations, homes for the aged, welfare clinics, children's homes, a power station, and other industrial buildings. Qualifications: A.R.I.B.A. or R.I.B.A. Final Exam. Good designer, with experience in controlling staff and organising and supervising large scale building contracts. Details and application forms returnable by 9th September, from Architect (AR/GI/1), County Hall. S.E.I. (1094)

CITY OF NOTTINGHAM.

(a) ASSISTANT ARCHITECT, A.P.T. 5 (£620—2670 p.a.).

Applications are invited for the above positions in the City Engineer's Department.

Qualifications required for (a), A.R.I.B.A.; for (b) experience in supervision of construction of buildings and/or maintenance of public buildings. Posts are superannuable.

Application forms from R. M. Finch, O.B.E., MI.C.E., City Engineer and Surveyor Guildhall.

buildings and/or maintenance of public buildings are superannuable.
Application forms from R. M. Finch, O.B.E.,
Application forms from R. M. Finch, O.B.E.,
M.I.C.E., City Engineer and Surveyor, Guildhall,
Nottingham, returnable by 6th September, 1954,
3685

CITY OF CARDIFF.

APPOINTMENT OF ARCHITECTURAL

ASSISTANTS.

Applications are invited for the following appointments in the City Surveyor's Depart-

appointments in the City Surveyor's Department:

(a) ARCHITECTURAL ASSISTANT (Education) AP.T. Grade 5 (£620-£670 per annum).

(b) ARCHITECTURAL ASSISTANT (Education) A.P.T. Grade 4/5 (£580-£670 per annum).

Candidates should possess the minimum qualifications and experience prescribed by the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services for posts in the above mentioned Grades.

General Conditions of Appointment may be obtained from the undersigned.

Applications, accompanied by the names and addresses of three referees and endorsed "Architectural Assistant (Education) A.P.T. Grade "'as the case may be, must be delivered to me not later than the 4th September, 1984.

City Hall, Cardiff.

City Hall, Cardiff. August, 1954.

COUNTY BOROUGH OF DUDLEY.
ASSISTANT ARCHITECT GRADE V.
Applications are invited from Associates
R.I.B.A. for the above appointment in the
Department of the Borough Architect.
Applications stating age, qualifications and
experience and giving the names of two referees
should reach me not later than Wednesday, the
lst September, 1954.
P. D. WADSWORTH

P. D. WADSWORTH, Town Clerk.

The Council House, Dudley. 13th August, 1954.

PADDINGTON BOROUGH COUNCIL require DRAUGHTSMAN in architectural drawing office. Salary according to age (for men £310 at 21; rising to £500 at 30; slightly lower for women). Appointment suitable for probationer members of R.I.B.A. Send particulars of age, education, training, experience, national service, names and addresses of two referees to the undersigned by 4th September, quoting A.170.

W. H. BENTILEY.

Town Clerk.

Town Hall, Paddington Green, W.2. 12th August, 1954.

GLENROTHES DEVELOPMENT
CORPORATION.
Applications are invited for the post of CHIEP
QUANTITY SURVEYOR. Salary grade: 29921,180 per annum (by annual increments of £50),
Applicants should be Corporate Members of the
R.I.C.S., with suitable experience, preferably in
Scotland, in estimating, preparing Bills of Quantities, and settling final accounts of large contracts,
Medicial examination under Superannuation
Scheme. The Corporation will provide a house to
let, if required.
Canvassing, directly or indirectly, of members
of the Corporation will constitute an absolute diaqualifications, stating age, qualifications and ex-

qualification.

Applications, stating age, qualifications and experience, together with copies of not more than three recent testimonials, must reach the Secretary, Glenrothes Development Corporation, Glenrothes, Fife, not later than 4th September, 1954.

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

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

A SSISTANT (at Intermediate stage) required for Architects' London office engaged in major works of restoration and construction of Schools and Colleges. Appointment offers excelent opportunities for supervision of works and calls for a candidate with initiative. Salary £354-£450 per annum. Box 2974.

A SENIOR ARCHITECTURAL ASSISTANT required, full experience in preparation of Working Drawings, Details, and supervision of office and Industrial Buildings in the London Area. Good knowledge of construction and design essential. Apply in writing giving full particulars of qualifications, age, experience and salary required to Box 9829.

PEQUIRED for Architects' office, Central London area, young qualified ASSISTANTS interested in design and construction. Write, stating experience and salary required. Box 2386.

A NYONE being congenial type, of goodwill and contemporary view, wanting job with scope assisting architects doing work of all kinds with office in Crawley should apply to Box 3533. Two Assistants are required: One qualified A.R.I.B.A., and one of Intermediate standard or nearly so, who can draw well. All applications will be answered. Box 3533.

PAUGHTSMAN required with Shopfitting or Exhibition Stand fitting construction experience, able to translate perspective sketches into working drawings. Ability to design a great advantage. Salary according to capabilities, with exceedingly good prospects for energetic Young Man who wishes to establish a position with a future in an already well founded but rapidly expanding Company. Pension scheme in operation. Applications stating age and experience to:

J. E. Slater Ltd., Smeeton Road, Kibworth Leicestershire.

A RCHITECTURAL DRAUGHTSMAN required capable of carrying out working drawings and specifications. Applicants should apply in writing giving details of experience, age, etc., to Personnel Department, Albert E. Reed & Co. Ltd., Aylesford Paper Mills, Larkfield. Nr. Maid-stone, Kent. RCHITECTURAL DRAUGHTSMAN required,

QUALIFIED ASSISTANT—R.A.B.A. finals—or near—age 25/30 for Bournemouth Office flust carry out contracts from sketches to final accounts. Reply stating salary required and when free. Box 3578

A RCHITECTURAL ASSISTANT required immediately. Experienced in the preparation of working drawings and details from sketch drawings, and with at least three years' office experience. Apply stating qualifications, age experience and salary required to Welch & Lander. 38. Gloucester Place. London. W.1.

BINIOR qualified ARCHITECTURAL ASSISTANT required central London area capable of preparing working drawings, detailing, specifications and supervision of large commercial projects. Attractive salary. Five-day week Applicants must be keen and quick draughtsmen and able to work on own initiative. Apply stating age, qualifications, experience to Box 3594.

ARCHITECTURAL ASSISTANT required for central London office, experienced in the preparation of working and detailed drawings for large commercial buildings and shop work. Applicant should be at least up to Intermediate R.I.B.A. standard and must be a quick and nead draughtsman, able to work under own initiative. Salary according to qualifications and experience to Box 3595.

A SSISTANT required by Croydon Architects, intermediate standard. Reply with particulars of experience, age and salary required, to Box 3596.

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A RCHITECTURAL ASSISTANTS required Inter R.I.B.A. standard. Experience in industrial and factory work an advantage but not essential. Westminster area. Write stating experience and salary to Box 3565.

TUNIOR and SENIOR ARCHITECTURAL ASSISTANTS and DRAUGHTSMEN for large and varied practice in Home Counties. Salary required and details of experience to Box

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hitests, parti-red, to JUNIOR ARCHITECTURAL ASSISTANT required for old established Architects business. Please write giving experience and salary required by Arthur W. Whydale Faggs Folly Studio, Tanery Drift, Royston, Herts.

er Drift, Royston, Herts.

ONDON ARCHITECT requires assistants of Final standard with experience in flat, housing and shop development. Some knowledge of industrial work an advantage. Reference, experience, age and salary required to Box 3502.

QUALIFIED ARCHITECTURAL ASSISTANT required immediately. Interested in contemporary design. Salary £450—£600 per annuaccording to ability. Office experience preferred. Write, briefly stating age, experience, etc., to: Elie Mayorcas, F.R.I.B.A., 13, David Mews, Baker Sireet, W.1.

ARCHITECTURAL DRAUGHTSMAN required for Multiple Shop Company, London. Experience in preparation of working drawings, 1 in. details and surveys. Canteen, permanency, sale age, past experience and salary required. Box 3644.

A RCHITECT, S.E. London, requires SPARE-TIME EXPERT ASSISTANCE in prepara-tion of designs and working drawings for blocks of flats, houses, etc. Telephone GREenwich 5688 after 7 p.m. 3597

of flats, houses, etc. Telephone Greenwich 3597

Draught? Draw and Surveyors (Senior and Junior) required by Building & Civil Engineering Contractor, Weybridge, Surrey. Permanent and progressive positions for suitable applicants. Apply stating age, experience and salary required to Box 3651.

CHIEF ARCHITECTURAL ASSISTANT required, Glasgow office. Contemporary work. Experience essential. Salary required. Box 3675.

LEADING Firm of Building and Civil Engineering. Contractors require ASSISTANT ARCHITECT in their Manchester Office. Commencing salary 2700. Apply Box 3683.

SENIOR ASSISTANT required in Architect's Department of Victoria property company. Salary about £800. Box 3684.

ARCHITECTURAL ASSISTANT required, intermediate standard or above, apply ward & Woolnough, 8, South Brink, Wisbech, Cambs.

7002.

VOUNG ASSISTANT required in Architects'

Ward & Woolnough, 8. South Brink, Wisbech, Cambs.

YOUNG ASSISTANT required in Architects'
Department of Progressive Furniture Combine, with H.Q. in London and Branches throughout the country. Ability to survey existing premises and prepare working drawings and details with the minimum of supervision. Occasional travelling involved. Contributory Superannuation Scheme. Write, stating age, experience, and salary required. Box 3678.

ARCHITECTURAL ASSISTANT required. R.I.B.A. Intermediate standard, in busy office, with interesting varied work. Write, stating alary required, to Hurley Robinson & Son, 5, Cherry Street, Birmingham, 2. 3679

AUSTRALIA.—SENIOR ASSISTANT ARCHITECT, experienced in working drawings and supervision of large buildings or hospitals, required by leading office of Architects in Melbourne. Salary: £A1.500. Good conditions. Further particulars available. Apply to L. Irwin, c/o Bank of NS.W., Berkeley Square, London, stating age and apperience.

experience.

AUSTRALIA.—SPECIFICATION WRITER.
Experienced in large industrial or hospital buildings, for leading office of Architects in Melbourne. Good conditions. Salary: £Al,500.
Apply, stating age and experience, L. Irwin, c/o Bank of N.S.W., Berkeley Square, London. 3561.
CHARTERED Architect, with interesting and varied practice in Plymouth, Devon, urgently requires assistance. Apply in full detail to Box 3562.

Doubles assistances

A RCHITECTS' ASSISTANTS required by a
RCHITECTS' ASSISTANTS required by a
large Chain Store organisation. Commencing salary £600 to £750 per annum, according to
experience. Staff canteen. Pension scheme. Write
Box AJ 333, LPE, 110, St. Martin's Lane, W.C.2.
3048

SENIOR ASSISTANT required for general practice in London with possibility of future partnership. Must be experienced and qualified and able to take full responsibility. Please reply in confidence giving full details of experience, age and salary required to Box 3625.

SENIOR ARCHITECTURAL REPRESENTATIVE required by old-established Paint Manufacturers. Good existing connections in Central and Greater London essential. Pension scheme. Write. stating age and salary required, with full details of experience of the Paint Industry, to Box 3672.

SENIOR ARCHITECTURAL ASSISTANT required. Please write giving particulars of experience. Leonard J. Multon, F.R.I.B.A. 6. Greenfield Crescent, Birmingham, 15.

A RCHITECTURAL ASSISTANT, Inter. Final standard, required for Architect's office. Apply in writing to J. Godfrey-Gilbert, A.R.I.B.A., I.A. Linden Gardens, Bayswater, W.2, stating experience and salary required.

J. DOUGLASS MATHEWS & PARTNERS require qualified ASSISTANT ARCHITECT. Minimum 5 years' experience since qualifying. Applicants please submit brief particulars to 3, Ebury Street, London, S.W.1.

YOUNG Man or Lady (17-18) required for unsually interesting and varied work. Excellent working conditions and good salary. Ideal for person with imagination, initiative and drawing ability, who is tired of being treated as office junior and tea-maker. Contemporary Design Group, 290, Northborough Road, Norbury, S.W.16.

A RCHITECTS. ASSISTANTS required. R.I.A.S.
Pension Scheme in operation. Applications, stating age, particulars of experience and salary required, to Wylie, Shanks & Wylie, Chartered Architects, 12 Clairmont Gardens, Glasgow, C.3.
3634

Architects, 12 Clairmont Gardens, Glasgow, C.3.

ARCHITECTS in West End require Qualified and experienced SENIOR ASSISTANTS, hard work but good prospects. Also JUNIOR ASSISTANTS with at least three years office experience. Apply to Box 3623.

A MAJOR Oil Company, undergoing rapid expansion, requires ARCHITECTURAL ASSISTANT of Intermediate standard for its London Head Office. Applicants must be capable of carrying out work on the design and re-modelling of Service Stations. Social Club. Generous sickness benefits. Pension and Life Assurance. Luncheon Voucher Scheme. Write giving full details, stating age, experience, and salary required, quoting reference A.A. 240, to Box 3624.

ONE SENIOR and one JUNIOR ASSISTANT required. Must have sound knowledge of working drawings and construction, and also be interested and experienced in the preparation of sketch schemes and competition drawings. Write stating experience and salary required, to Louis de Soissons, Peacock, Hodges and Robertson, 3, Park Square Mews, Upper Harley Street, Nw.1.

ARCHITECTURAL ASSISTANT required by professional firm in Westminster. R.I.B.A. final standard. Experience in design of industrial buildings desirable. Salary not less than £550, but upwards according to experience. Details of qualifications and experience please to Box 3690.

ARCHITECTURAL ASSISTANTS requiring. Stating age, training and experience to the Chief Staff Architect, Ilford, Limited, Romford, Essex.

Staff Architect, Ilford, Limited, Romford, Essex.

A RCHITECTURAL ASSISTANT required for Private Practice in Worcester, capable of carrying out work from sketch drawing to Final Account. Five-day week. Accommodation if required. Full particulars, including salary required, to Box 3642.

500-12,000 p.a. Raglan Squire and Partners require EXPERIENCED ARCHITECTS, aged 25 to 35, willing to work in London, Baghdad or Rangoon as required. Applicants should write in the first instance giving full details of their experience, age, present salary and salary required, also country preferred, to 3, Hobart Place, London, S.W.1. Only first class men willing to fly will be considered. There are opportunities for permanencies and a pension scheme is in force.

A RCHITECTURAL ASSISTANT up to Final Office of Chartered Architects. Applicants must be capable of making surveys, preparing working drawings, details, etc. Apply in writing giving full particulars, age and salary required to Box 3600.

Gulliparticulars, age and same and same and varied for Bristol Office with extensive and varied practice. Should be experienced in preparing specifications, working drawings, and site supervision. Write giving full particulars of experience and salary required to W. H. Watkins, Gray, FF.R.I.B.A. & Partners, 1, Clare Street, Bristol, 1. 3606

A SSISTANT urgently required for busy and varied practice Hampstead Heath area. Intermediate Standard, contemporary outlook preferred. Please apply by letter, giving age, experience, salary required and date when free to Box 3608.

TERNICER Ceilings Ltd., require two SENIOR ARCHITECTURAL DRAUGHTSMEN for estimating and preparation of layout and working drawings for the installation of specialist suspended ceilings. Reply, giving full particulars and salary required, to 67. Great Russell Street, London. W.C.1.

SOOP

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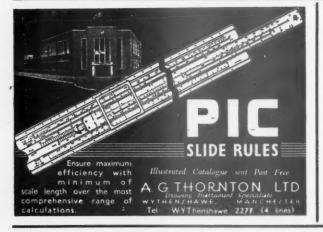


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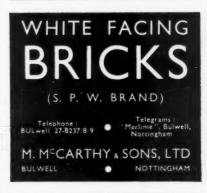
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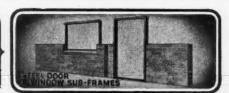
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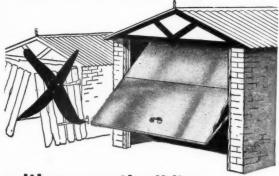








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