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

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contents

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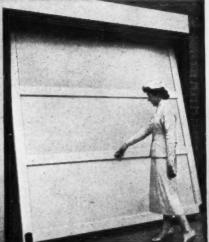


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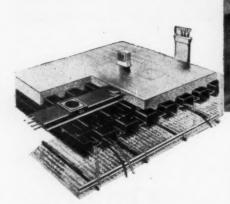
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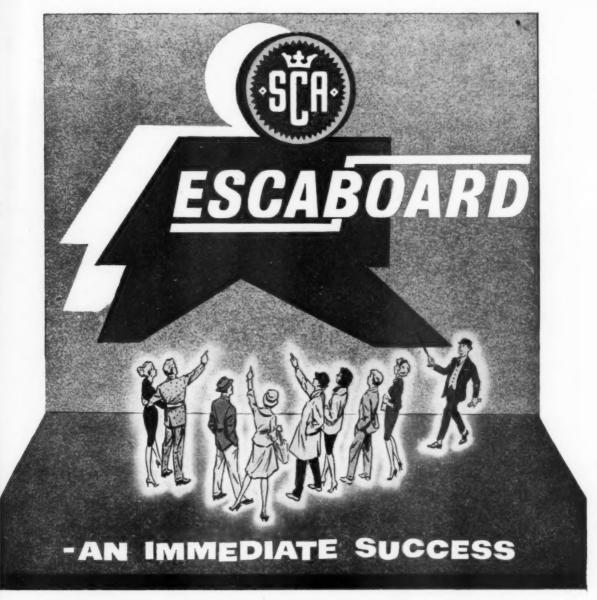
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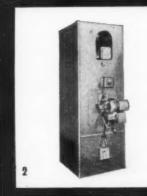
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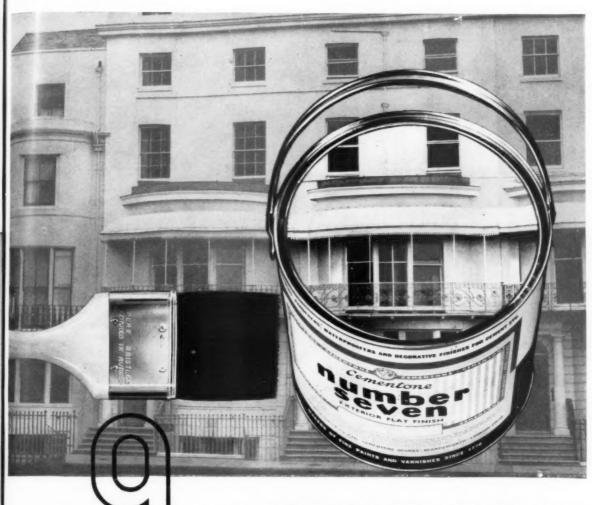




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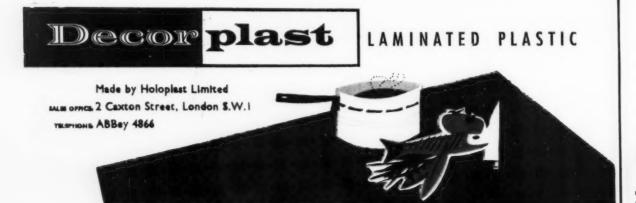


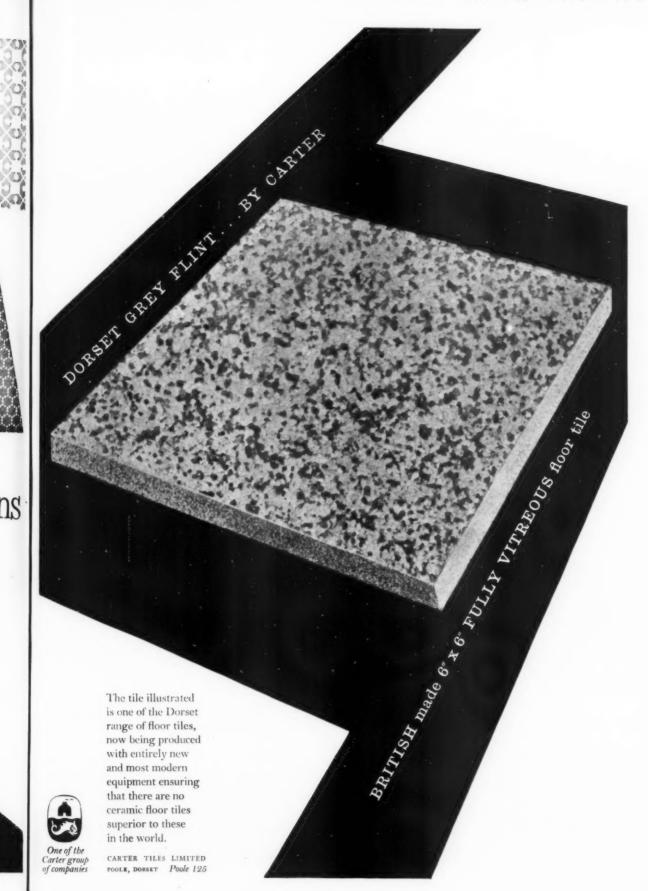
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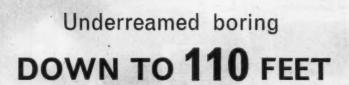
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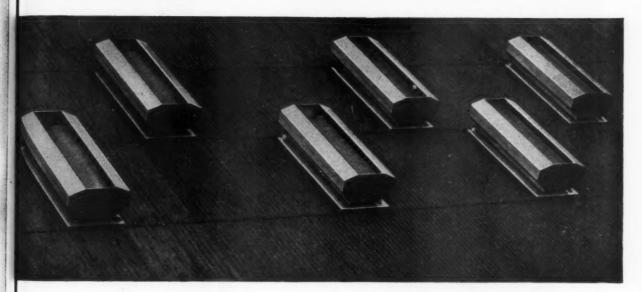
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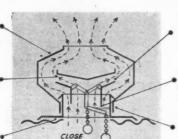


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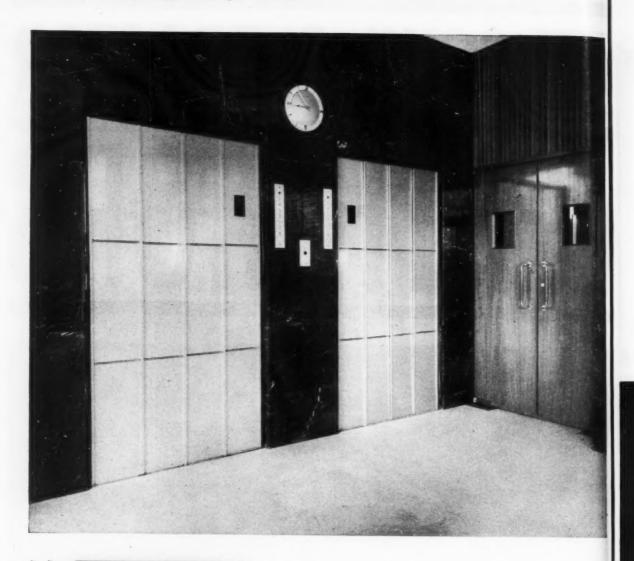
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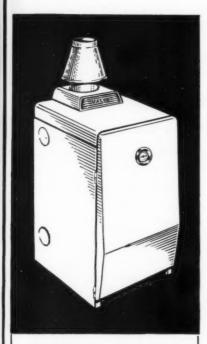


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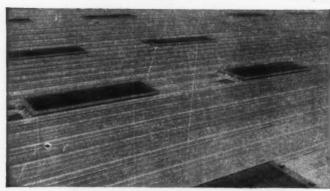
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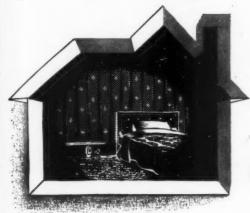
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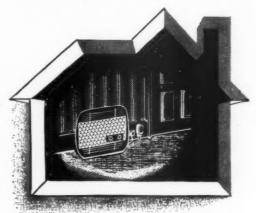
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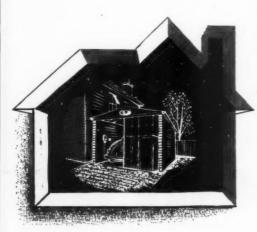
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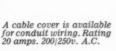
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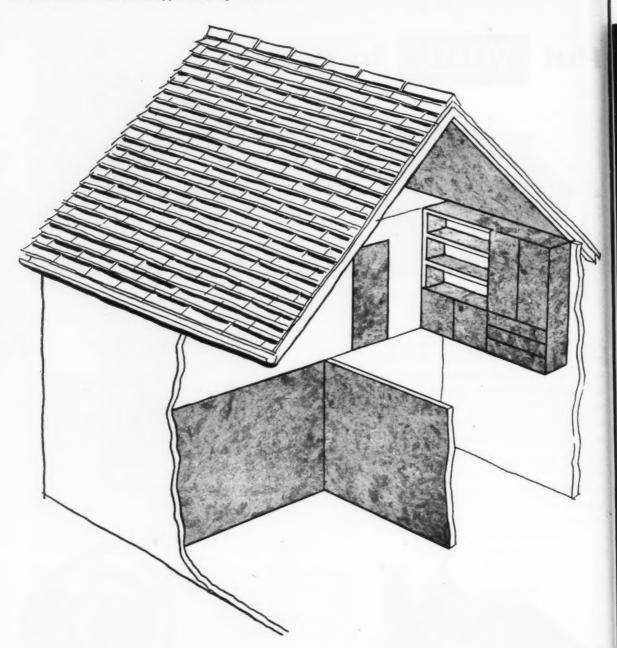




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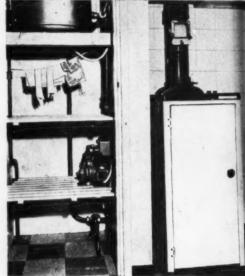
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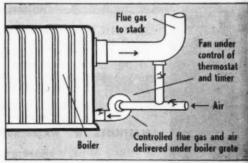
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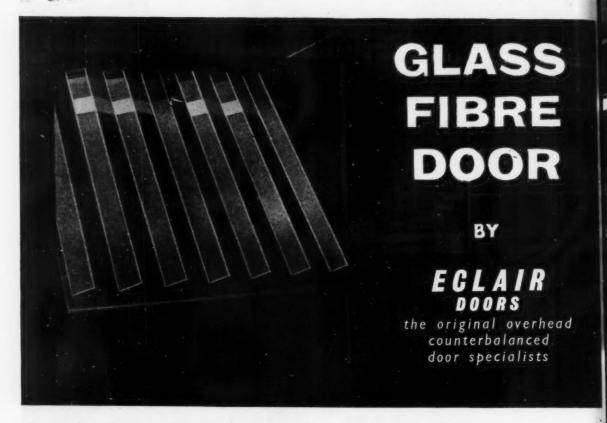
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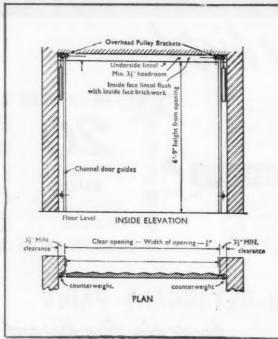
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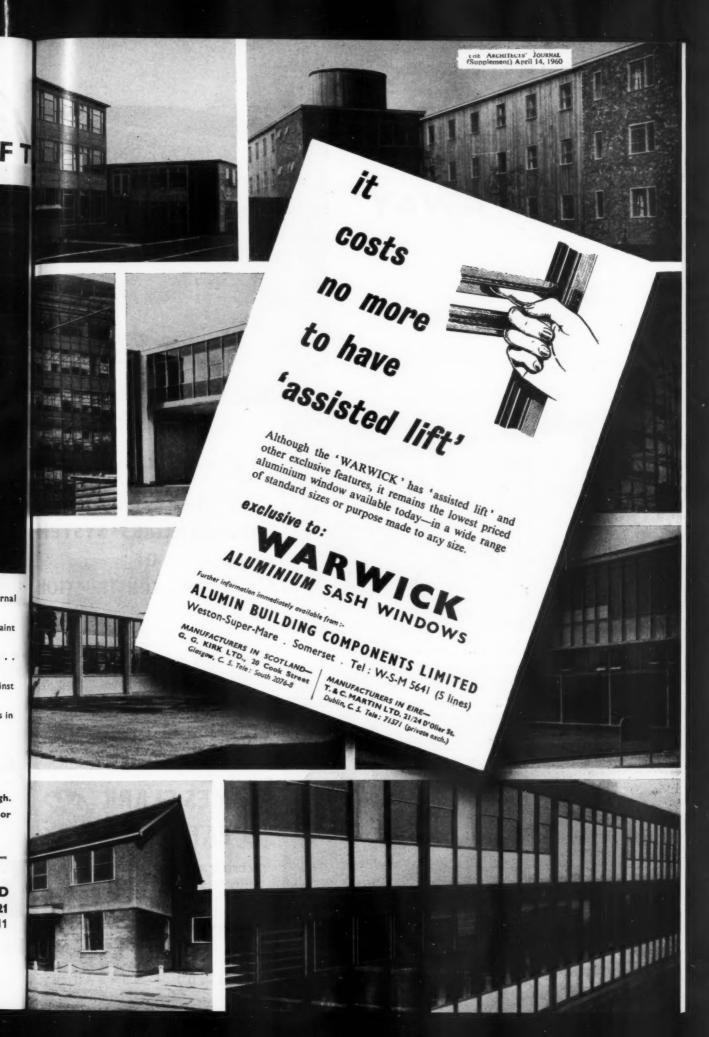
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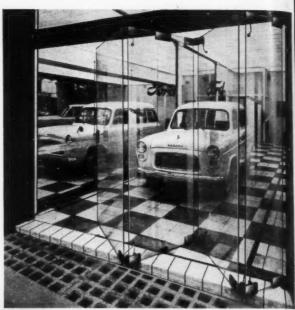
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luminous bray jets. ‡in.
gas inlet, can be filled
for R.H. or L.H. feed.
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pressure. Gas Consumption—18 cu. ft. per hoution—18 cu. ft. per housure fill ft. ft. ft.
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Model No. 3160. Finish
—Heat resisting coinage
bronze. The top louvre
and the door (which has
concealed hinges) are
cream vitrous enamelled.
Burner—cast iron with
luminous bray jets. ½ in.
B.S.P. inlet for R.H. or
L.H. feed. Governor—
Conslant pressure. Gas
Consumption 12 cu. ft.
per hour at 2½ in. W. ft.
per hour at 2½ in. W. ft.
hour—5,400 B.Th.U. at
500 c.v. Dimensions—
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or pearl blue. Baffer
itreous enamelled.
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iron with luminous bray
jets. \(\frac{1}{2}\) in, gas inlet can
be fitted for R.H. or
L.H. feed. Governor—
Constant Pressure. Gas
Consumption—8 cu. ft.
per hour at 2\(\frac{1}{2}\) in.
W.G. Maximum Output
per hour—3,600 B.Th.U.
at 500 c.v. Dimensions—
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2\(\frac{1}{2}\) in. Depth 5\(\frac{1}{2}\) in.

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County Architect: G. C. Fardell, M.B.E., A.R.I.B.A. Former County Architect: The late C. H. Aslin, C.B.E.

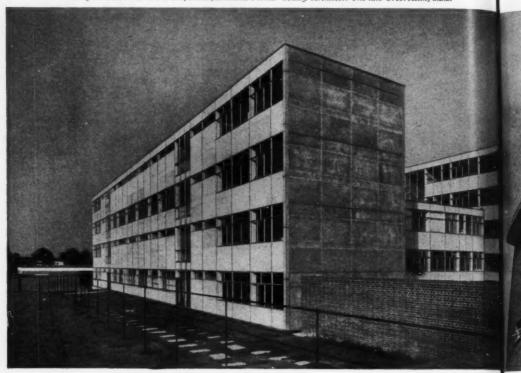
Aldridge 4

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This view of the Soundwell Technical College, Kingswood, Bristol, shows the aluminium Panelgard curtain walling supplied by GARDINERS. Architect: R. F. Fairhurst, Dipl: Arch. (L'pool), A.R.I.B.A., A.M.T.P.I.



I.C.T. factory at Castlereagh with aluminium curtain wall construction. One extruded section was used to frame the curta IAMS] wall at head, sill and jambs. of the Architects: Smyth & Cowser, F/F.R.I.B.A.



Aldridge 4 F.E. Grammar Technical School—another example of the use of 'Alwil' anodised curtain walling which is made by Allan H. Williams Ltd. of Coventry. Architect: A. C. H. Stillman, F.R.I.B.A.



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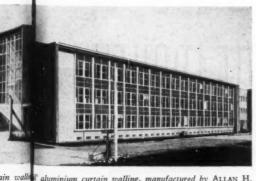
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Architect: A. C. H. Stillman, F.R.I.B.A.



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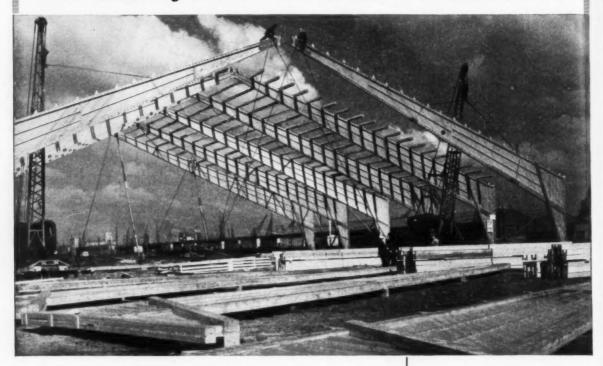
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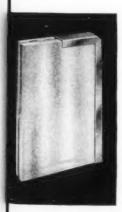
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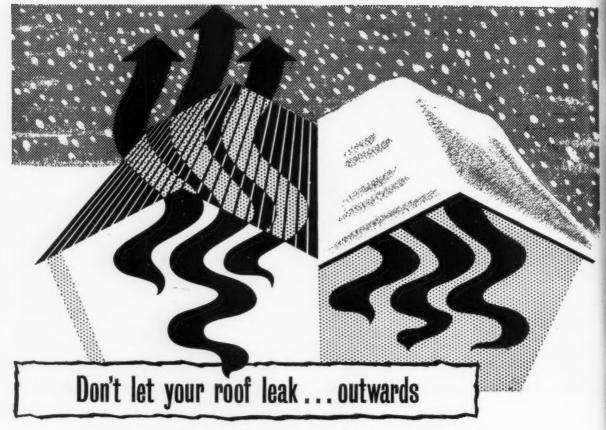




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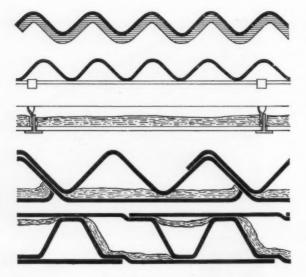
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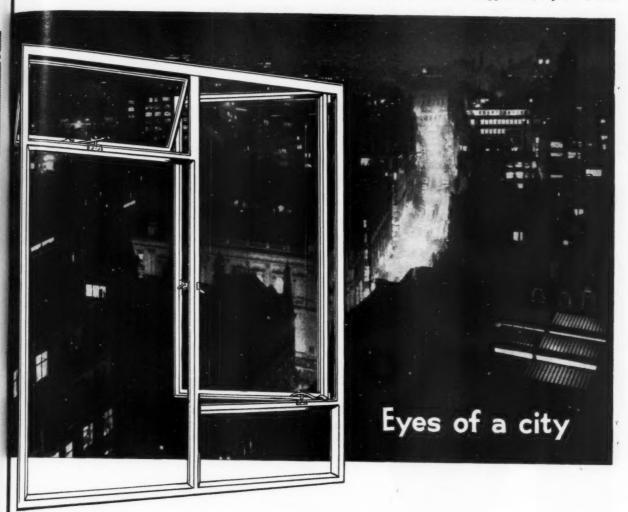
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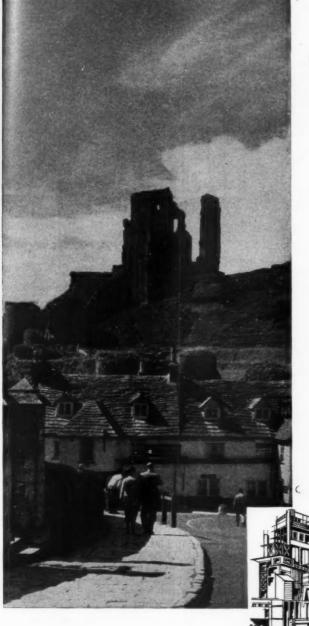
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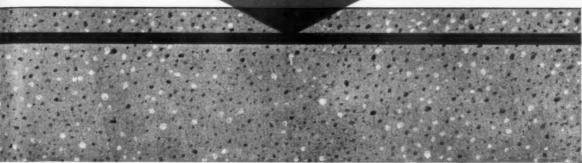
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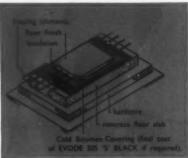
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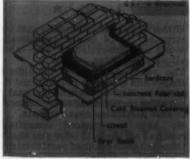


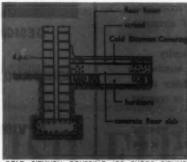


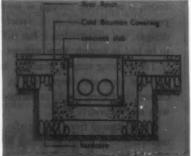
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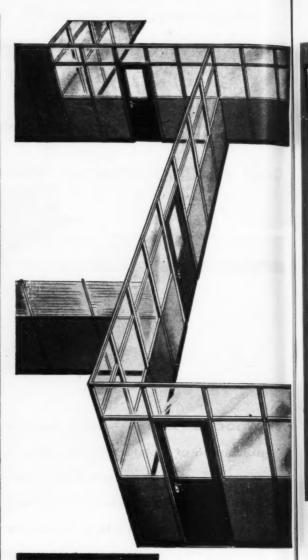
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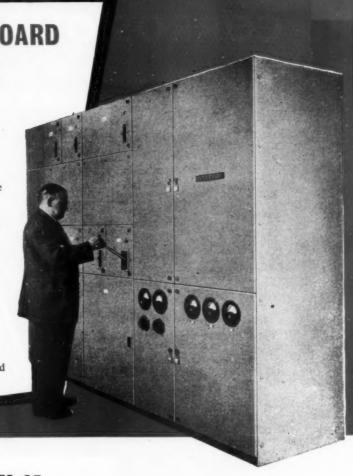
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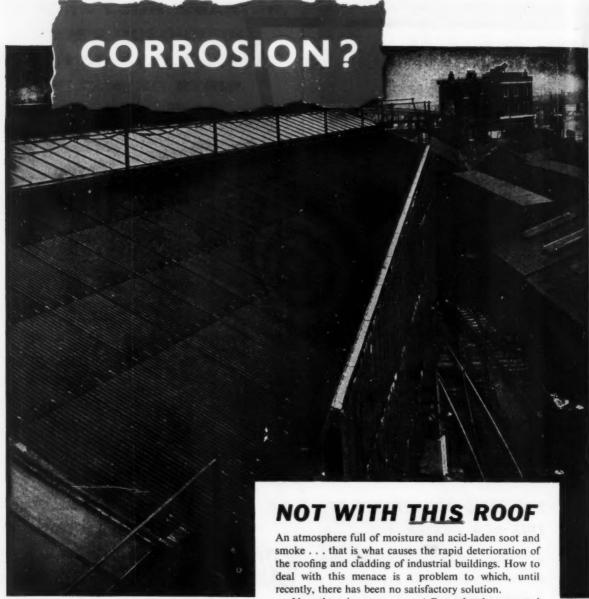
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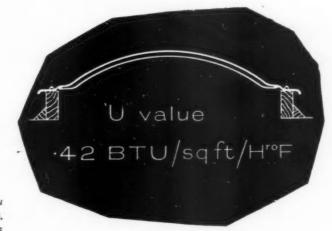
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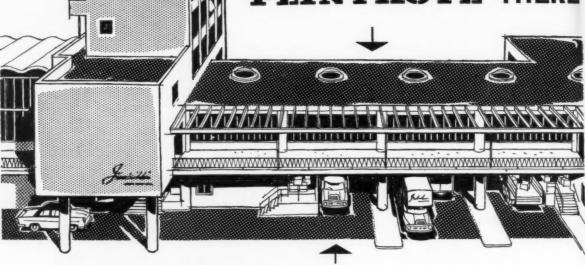
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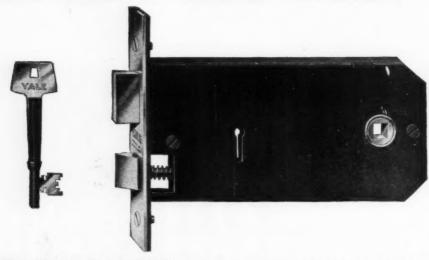
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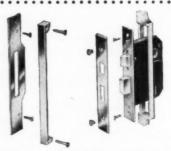


- 144 differs off levers alone (standard).
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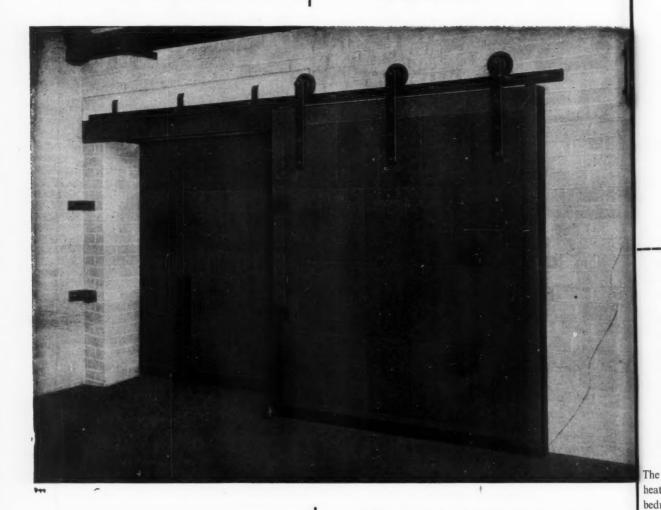
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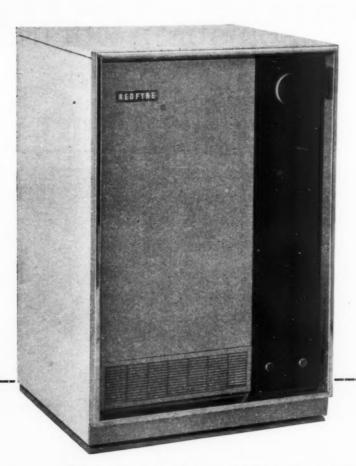
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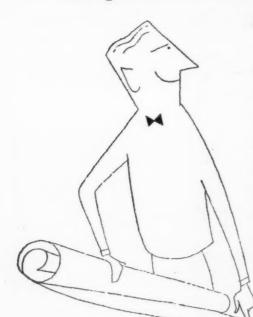
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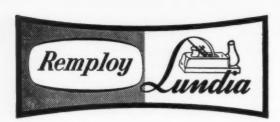
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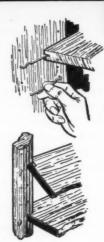
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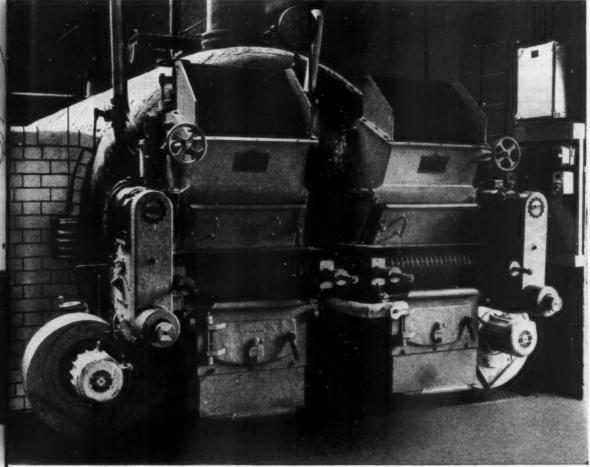
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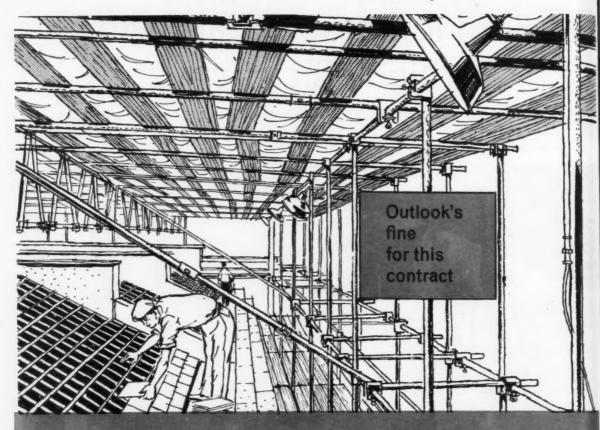
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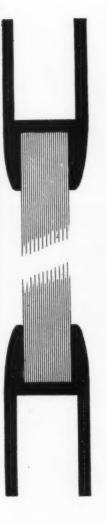
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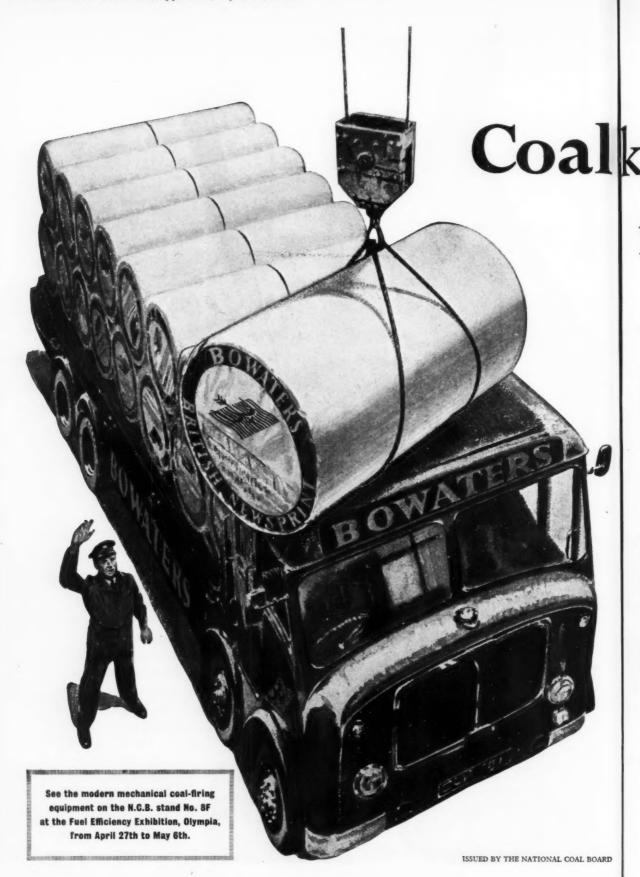
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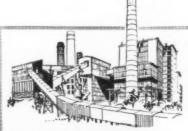
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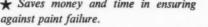


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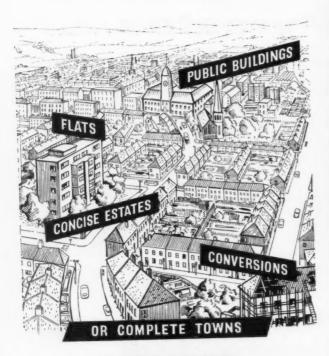
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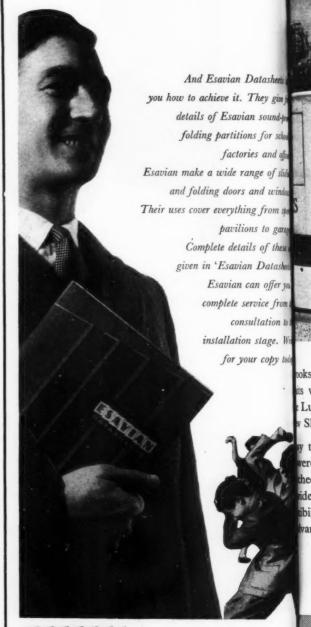
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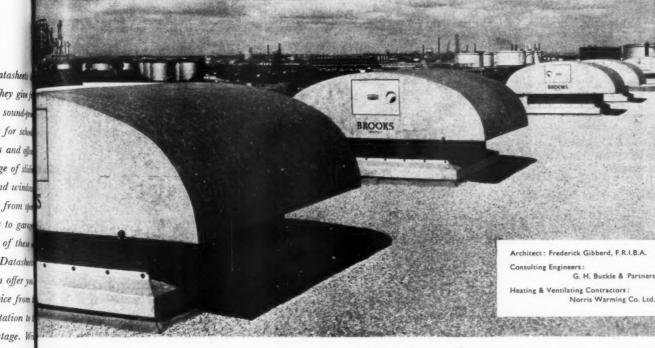
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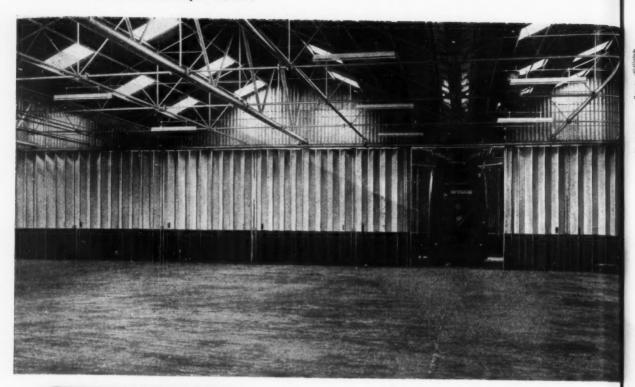
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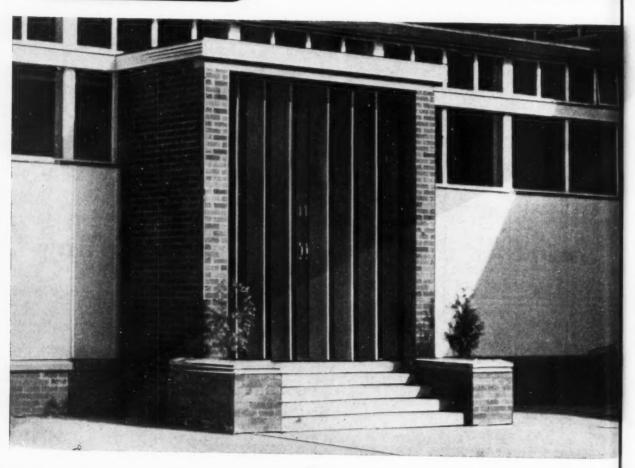
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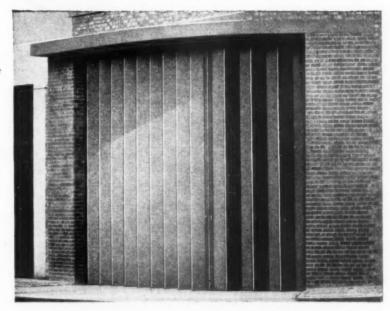


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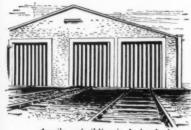


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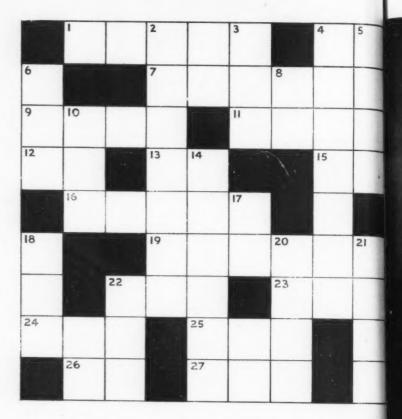
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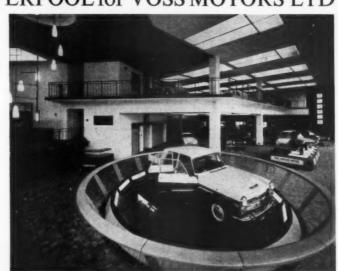
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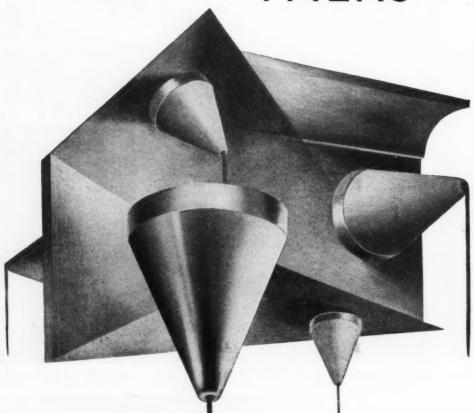
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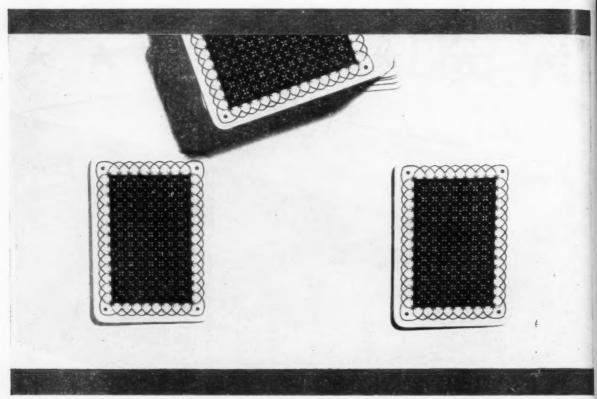
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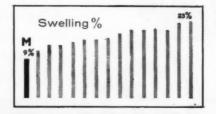
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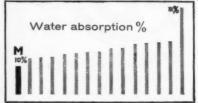
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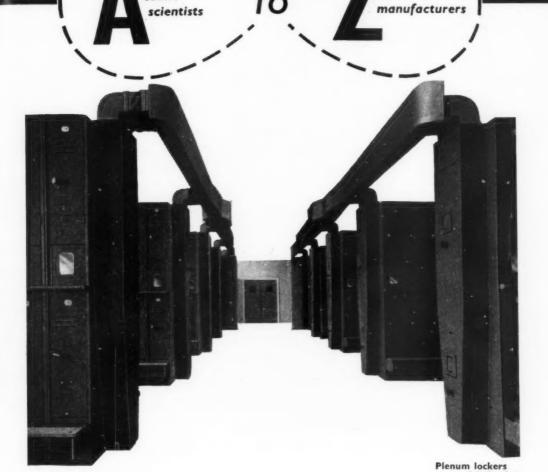
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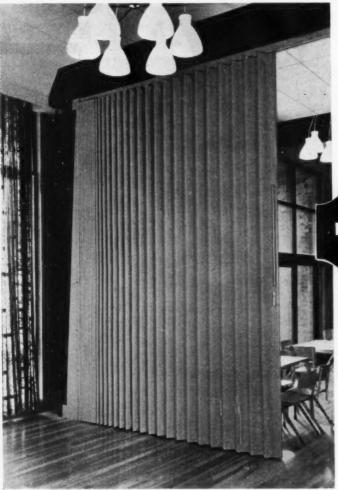
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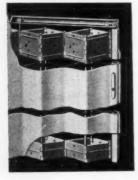
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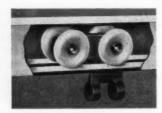
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"The Case for the Local Brick"

The announcement in last week's issue of *The Architects' Journal* under the above heading has provoked some comment, particularly the reference to large stocks of bricks. As mentioned at the foot of the announcement, it was reprinted from *The Brick Bulletin*, and referred to the supply position as it was at the

Within twelve months there was a radical change, and the building industry is now enjoying a period of great activity.

time of publication-June, 1958.

There could be no more appropriate time to remind brick users of the situation existing less than two years ago, and of the necessity of safeguarding future supplies of brick by supporting the local brick manufacturer.



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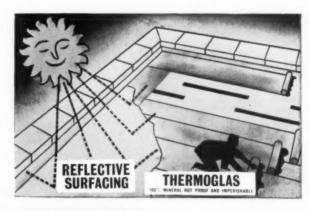
- * Moisture and air in insulation
- * Heat build-up on insulation
- * Water in lightweight concrete
- * Roof movement

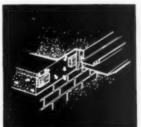
Thermoglas is laid by the isolated system combining frame bonding and anchor strips to permit free vapour dispersal. The waterproofing is finished with a heavy stone surfacing to secure maximum reflectivity.

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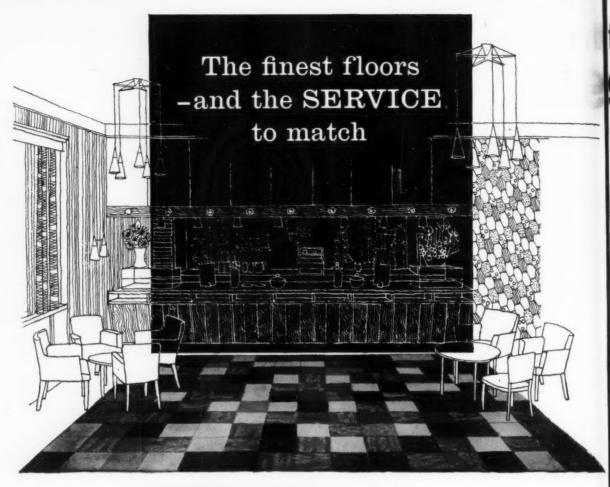


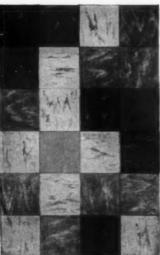




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The Architects' Journal

No. 3391. Vol. 131. April 14, 1960

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NOT QUITE ARCHITECTURE

Anti-plan-hattan

What do I think of Manhattan? as a planner, a little strategy. hattan is unique as a city core in that it is nearly surrounded by a blue belt of water instead of a twilight area of slums and industries. Everything has therefore to be squeezed into a long narrow promontory or taken right across the Hudson or East River. Second, in contrast to London, it has a limitation of metropolitan functions, no Buckingham Palace, no houses of Parliament, no Whitehall, and in spite of the subtle effect of the beginnings of World Government, this lack of a stable governmental establishment has produced a chronic instability.

Nothing, urbanistically speaking, is "not done" in New York. If you want to do something, whether you are Commissioner Moses cutting through a new motorway, or a speculator who wants to tear down an almost new city block, you do it first and leave someone else to ask about the implications. This again, makes it quite different from anything in Europe, and gives it excitement, exasperation, and a fascinating visual anarchy that even São Paolo cannot equal.

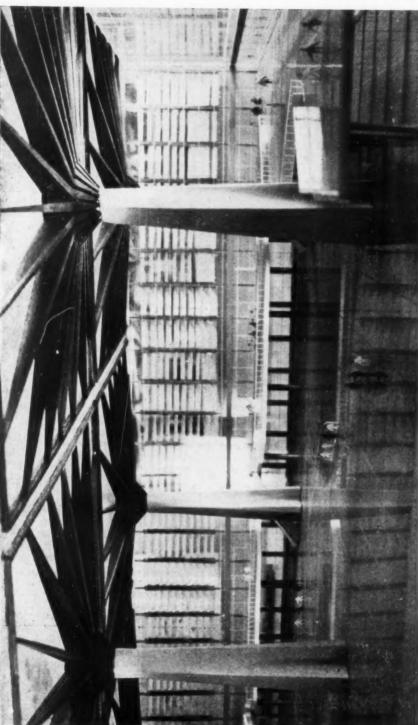
Because of this you have to invent a new method of design evaluation. In terms of traditional space enclosure and volumetric composition, it makes no sense whatever, but seen as urban movement, of constant change, of new experiment, of pushful, often selfish, anti-social and anti-visual and anti-conventional planning, it has an extraordinary and overwhelming vitality.

Within this jungle, interesting patterns and movements emerge. The concentration of skyscrapers at the southern tip of Manhattan near the Battery gradually forced out the shops, restaurants and other social uses, so in order to attract employees the big firms moved up to Park Avenue, leaving a trough of land values in the middle. This is clearly reflected in the condition of property.



Architectural Engineering

Last week, to a packed house at 66 Portland Place, the great Italian engineer-contractor. tion of Nervi's work, prepared by the Cement and Concrete Gio Ponti, he has designed this pavilion for the International Pier Luigi Nervi (above, right) received from President Basil 1960. On view at the Association, from which these cantilevered ribs of the roof can be judged by the model figures, above left. The columns are Spence the Royal Gold Medal RIBA is a well-staged exhibiillustrations of his latest project are taken. In collaboration with his son, Antonio Nervi, and Labour Exhibition at Turin in 1961. The scale of the vast nearly seventy feet high and seventeen feet wide at the base, about ninety feet. Further illusand the radiating ribs project trations of Nervi's buildings cruciform columns and





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about ninety feet. Further illustrations of Nervi's buildings appear on page 568.

then there is Greenwich Village, the island small scale early Victorian terrace houses. nose road pattern does not conform to the of the grid, and is the home of all the lectuals who want to live urban lives in ecity centre, and who are fighting hard to serve the scale and character of their chbourhood.

hey have some difficulty: first, they all we cars, so that all the sidewalks are and both sides, and the streets can hardly seen. Then, "improvements" take place. only the other day the eldest son of the cobs (the Greenwich Village family with dom I am staying-Mr. Jacobs is an archied and Mrs. Jacobs is Assistant Editor of inhitectural Forum) saw some surveyors wasuring the streets, and on inquiry and that the City Authorities were prosing to cut the width of the sidewalks in of and throw the space into the road: by hadn't even bothered to notify the sidents. So the Jacobs organized a mass edition, which is now being presented and all probably succeed in its highly desirable bject of running as fast as you can to ay in the same place.

in the Park Avenue area, Seagram læs Lever across a sea of moving autombiles and both stand out in elegant form contrast to the extraordinary and stupid tapes which are so often created by buildright out to the control envelope (like te old rigid London light angle control). Varby a number of well-designed new skyimpers of moderate height have recently wan built, but they stand out among a uss of poor designs. In this way it is milar to London's office building boom, though much more intense, of much higher ulity, and on a much larger scale—also nobody builds a Farmers' Union or a Shell ksign. What they do do is to experiment with all kinds of curtain wall and panel iling, running right through the current ange of patterns, colours and textures. here is no sign of any design control, alhough the more sophisticated owners have mall plazas which are fantastically generus in real estate terms, but have little sigilicance otherwise.

I have said, in conventional civic design hinking Manhattan makes no sense. There little ordered space enclosure, and instead terminal vistas nearly every road in the rid ends on the sky. Public buildings too exive undignified treatment, as though uiness society was saying "nuts to the stablishment." This has its unfortunate de, especially where a highly idiosynratic building like the Guggenheim (indequate external finishes, Mr. Wright) is whed into a gap in the street block instead being landscaped into Central Park. But the end it is at night that New York ally comes into its own. The long view iryland of the skyscrapers is compleinted by the incredible close-ups of the toadway medley of the neon jazz symlony. Entirely fantastical.

The Editors

FIRST STEPS TO JOINT EDUCATION

HE first official news about the proposed new college of architecture and building has now been released and is published on page 569. It is not inspiring reading. For 20 years or so the idea of joint education in some form has been put forward by far-sighted architects and, for the last four years, various senior members of the building industry, guided in the end by the Ministry of Education, have been

endeavouring to make concrete proposals.

When it became known that the Ministry had decided that the LCC was the most appropriate authority to form a college of architecture and building some expressed fears that a local authority, even of the standing of the LCC, would not be able to give such a college the freedom, independence, and above all, prestige which a cultural and educational experiment of this kind must have to become an acclaimed, nationally accepted establishment. The new college must obtain a principal and staff of a quality better than the University schools if it is to attract the best students and not to be a poor relation dispensing a second-rate educational service. And staff will only be attracted to such an experimental venture if the pay, responsibilities and opportunities transcend those to be found elsewhere.

The educational organization proposed has not yet been given in detail, but it is disquieting to note that engineering is to be part of a completely separate college. If joint training is to be of any significance, engineering, whether of structure or of the services of heat, light and sound, must be part of the college of architecture and building. Such a fundamental omission does not augur well.

EXPENSIVE BUT EXCLUSIVE ARCHITECTS?

Architects, the proven poor relations in the Pilkington professional family tree, should be exercising their minds on how to improve their lot. For most of the profession it is a matter of daring to ask for a rise in salary. For principals in private practice the position is not so simple. One of the established creeds to query is the scale of professional charges, a scale laid down on a basis now unknown. Is it still valid? Should the percentage fee vary for each building type, according to the degree of work involved? Or should it be simply increased? And if so, by what amount? Some local authorities ought to be able to give accurate figures of what an architect's costs are, if a job is conscientiously carried out, and from that could be deduced what the percentage scale should be. Let that be done speedily.

In the mean time, however, another line could be studied. The Pilkington report showed that although the average PERCY JOHNSON-MARSHALL income of architects was only £1,200 per annum, about 450 architects earned over £4,000. A lot of jobs, and cheap assistants, must be required, with a scale fee of 6 per cent., to bring in net incomes of this level.

And how depressing that so much of this income must be lost through surtax. If work could be more evenly distributed through the profession, not so much of the profession's income would be lost in taxation and more architects would be better

off without it costing the client a penny.

But, the wealthy 450 must be protesting, what about us? With our commitments, how can we afford to pass on jobs? The answer is simple: let them raise the percentage rate of their fees until the supply of work is no greater than they can control personally. This will please the client, who knows that he is more likely to get the personal attention he is paying for; and please those other architects who get the clients who cannot afford the higher fees.

Top lawyers and doctors take this course. Surely there are some architects with sufficient prestige in the public eye to

be able to do likewise?



OH HENRY!

Engineers, said Henry Brooke, are versatile. The Institution of Municipal Engineers preened itself. This was just the thing for an annual dinner. But, added Mr. Brooke, the engineers should not also be civil defence officer, cleaning superintendent, planning officer, public health inspector, sewerage works manager, transport manager and water engineer. There was, he added, a function for the architect and the planning officer separate from those of the surveyor and the engineer. The shouts of protest showed why there are still 38 county boroughs without an architect as a chief officer. (There are many more where the engineer is also the planner). It only remains for Mr. Brooke to do something to help the undervalued architect to find his proper place.

GRIM FOR BRUM

I'm not sure that Mr. Brooke has said the right thing to the people of Birmingham. He has not only told them they can't develop two and a half thousand acres of land on the city's outskirts, at Wythall (which is probably fair enough); he has also said that families must find homes outside the city. Why doesn't he consider higher densities in privileged areas like Edgbaston, or the building of another new town? He is forcing Birmingham back on the ineffective expanded towns procedure, though he admits it has proved disappointing.

IF IN DOUBT, DON'T

Do you ever survey a house? If you do you might have decided never to do so again-even as a personal favour -after hearing what C. A. Martin French told the RICS the other day. It seems that discoveries of dry and wet rot are leading to many claims of negligence in surveying. A lot depends PORTLA on how the survey reports are written I hop It's no use saying there are a few tiles one of missing on the roof, or that the wall by agreed the cellar steps looks a bit damp: you "Even must insert a warning about the worst staged things these faults could lead to and by the a note about the cost of putting them World right. Surveying is, in fact, a specialized abare business-a profession in fact. So don't club," let yourself in for it without finding out Tempe how thorough you have to be. And worth) you'd better insure yourself against any raffles nasty surprises. Reg]

CO-WHAT-EXISTENCE?

Professor J. D. Bernal's book, World Without War, has been translated into an effective little exhibition (at the RBA Galleries (by Ronald Houghton, of Architect's Co-Partnership. With large photographs, brief captions and a good use of colour he tells the story of the book—the terrible story of people going hungry (three quarters of the human race) in a world that could feed ten times the world population if we were not spending £1,000 a second or armaments. The exhibition, which wil be paid for by the sale of paintings (also exhibited) by Piper, Reg Butler, Michae Ayrton and others, is open until Easter Monday.

STRAWBERRY FAIR

Is it a sign of prosperity in the profession that there were many more As people at the AA reception this year autho than last? Or is it merely a reflection was of the modest reduction made in the shuffle Whatever the Twee price of the tickets? reason, some 800 members and their medal guests, some as distinguished as Nervi than others as undistinguished as ASTRA-do ha GAL, were received by Mr. and Mrs President Cadbury Brown, and there seemed to like, be far more students—a fact one could Nervi discover by dancing in the basement audie studio, where the joys of jiving were the 1 somewhat complicated by a large gestu strawberry net suspended about 4 ft worth from the floor. Fees at the AA ar so high, because it gets no grants, the Fou one wonders how the students (or the of Ne parents) can afford it. But apparent Robe they can. The reception itself wa Ove very much the mixture as before, com of In mending itself to ASTRAGAL'S taste for that such Victoriana as magic-lanter conte slides and elaborately worked visiting of b card cases.

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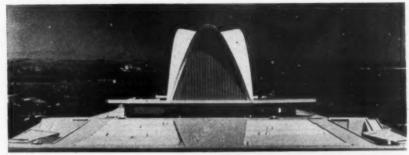
I hope it's true that Peter Sellers is few tiles one of the many entertainers who have ne wall by agreed to appear, without fee, in the amp: you "Evening of Divertissements" being the worst staged at the RIBA on April 28 d to and by the British Architects' Appeal for ting them World Refugee Year. With four pecialized abarets in a "champagne night-So don't dub," three dance bands (including the nding out Temperance Seven and Johnnie Dankbe. And worth), old Chinese folk dancing, and gainst any raffles of paintings and sculpture by Reg Butler, Eduardo Poalozzi and others, the RIBA promises to be unrecognizable. Tickets are two k, World guineas each, from the Hon. Sec., WRYBAA, 66, Portland Place, W.1.

SYMBOL TO THE WORLD

ASTRAGAL is, reluctantly, prepared to admit that it is a sign of the stature of the leaders of the architectural prolession today that they recommended to the Queen that the Royal Gold Medal for Architecture be awarded to the Italian engineer, Luigi Nervi. The RIBA teamed up with the Cement and Concrete Association to lay on exhibition, lunch, presentation ceremony and reception for him, which, with an address given at the Italian Institute must have been a formidable series of events for a non-English speaking visitor to endure.

ny more As another sign of newly-acquired this year authority the presentation ceremony reflection was not quite such an embarrassed le in the shuffle-and-hug affair as formerly. The ever the Iweedledum and Tweedledee goldand their medalled escort, who never had more as Nervi than a couple of steps of escorting to ASTRA do have been dispensed with, and the and Mrs. President, instead of slipping in, quickemed to like, from the side door, marched ne could Nervi down the centre aisle so that the pasemen audience could have a closer view of ing were the man, and invested him with a a large gesture and a peroration that was out 4 ft worthy of a bishop.

ints, the Four speeches were made in London (or the of Nervi, by architects, Lionel Brett and parent Robert H. Matthew, and by engineers self wa Ove Arup and Professor L. L. Baker re, com of Imperial College. Arup emphasized taste to that the rule for achieving architectural c-lanter content in building is to study the art visiting of building, which engineer-contractor Nervi so evidently did, and saw in the award encouragement for those who



A general view, above, and right, a detail of the interior, of a proposed cathedral for Perth, Australia, designed by this years' Royal Gold Medallist, Pier Luigi Nervi, and his son Antonio Nervi. Though one of his latest designs, it is the most disappointing of those exhibited at the RIBA. The mild excitement of three modest parabolic arches makes an insignificant contribution to the evolution of church design, unlike the success Nervi has achieved in secular work.

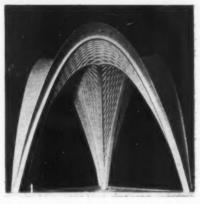
believed in the unity of the architect and engineer, and Brett neatly developed this theme. Robert Matthew announced that the Edinburgh University had offered Nervi an Honorary degree and affirmed that in the present essential reappraisal of education we should take Nervi's advice who, apparently, has "thought more of the fundamentals of education than anyone today."

Professor Baker concentrated on Nervi's careful balance of design and economy, describing the brilliance with which Nervi achieved great engineering at a competitive price (his two sports palaces in Rome cost only £150,000 and £350,000, with domes of 200 ft and 300 ft. respectively. Nervi, speaking in French, briefly and simply expressed his thanks for the honour given him.

THE OBLIGATORY CRIT.

One of the achievements of the assessors of the recent Somerset County offices competition was that a fairly full report was made in which the assessors attempted to explain how they arrived at a decision about the winners, and give the reasons why designs were rejected. ASTRAGAL learns that this has caused complaint in certain quarters by those who fear that such an action may lead to controversy.

This is a fallacious argument. Most competitors will accept an assessor's decision, if they know how he has arrived at it, however stupid they may think the assessor has been in not ap-



preciating the beauty of their design. What is intolerable is to have no reason given at all: a play-safe policy which is an insult to the hard work undertaken by competitors, who are thereby surely entitled to a clearly stated criticism. Competitions committee, please note.

PRACTICE MADE PERFECT

What does a man do if he has a planning problem, or wants to build a laboratory or a hospital? He might approach an architect, of course, but there's quite a chance he would apply instead to SI (Scientific Installation) Service—an organization which advertises its ability to help him. This organization not only has impeccable connections-an Admiral as chairman and the Medical Research Council as a client-but it also has a well-known architectural firm as a consultant. J. Douglass Mathews and Partners help it to give a complete design service.

This is by no means the first commercial undertaking of its kind. Why are such organizations being developed? Is it because they give a better service than an architect working alone. or is it simply because they are allowed to advertise? It would be useful if the RIBA tried to find the answer to those questions.

ASTRAGAL

TWENTIETH CENTURY PANTHEON





Recent work by 1960 Gold Medallis Luigi Nervi: above, the main gallery of the Palazzo dello Sport, Rome, showing the splayed columns which take the load of the dome. The curved underside of the upper gallery is formed of precast ferro-cement units. Right, the Corso Francia, linking the new Olympic Games village with bridge over the Tiber; a partly precast concrete viaduct of two carriageways.

G. (Pete

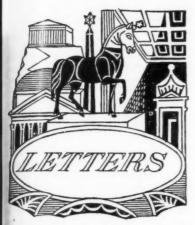
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G. G. Baines, F.R.I.B.A., A.M.T.P.I.
Peter Cable

No Excessive Profits

sir: Your editorial on the *Ideal Home*/
RIBA Small House scheme should not pass
without clarification. Here are the facts:
Costs quoted at the time of the competition and published in the Book of Small
House Plans were house building costs only,
and the house was two-bedroom and onebathroom with undeveloped first floor.

Selling prices at Bromley include freehold land—which was very costly to the Builders, Roads, Sewers, Site Works and Landscape penerally. In addition the house is a four-tedroom, two-bathroom type.

lince the competition an increase of wages has taken place. Making proper allowances for these additions, the building cost of the basic house is completely in line with our estimates and we have every reason to believe no excessive profit is being made.

The house is also being built on five other tites in the country and when similar allow-inces are made, nett building costs show a remarkable degree of agreement.

Regarding the architects' share of this enterprise, we keep our costs and if sales of plans to on as they have, this particular job will dearly pay us as well as any other part of our work. Naturally any increases the RIBA or the AJ could bring about would be gratefully received.

G. G. BAINES

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The Editors reply: We are glad to have Mr. Baines' assurance that the builders are not profiteering at his expense, or at the client's. But the fact remains that the houses cost almost double the figures quoted in the book on sale to the public who are, in consequence, grossly misled, even if full allowance is made for an extra bathroom. We would be interested to knew if the other architects concerned are equally well satisfied.

Lightweight Screeds

SIR: I have read with interest your article on the lecture on lightweight cellular screeds which I recently gave at the Building Centre. Your concluding paragraph, if I may say so,

admirably and objectively sums up the problem facing ourselves and the roofing contractors.

I would like to leave this thought with the roofing contractor who urges a topping of cement and sand on cellular concrete. Blistering of the roof covering is only the manifestation of the trouble, in other words it is the symptom. The root cause is moisture.

Many insidious diseases manifest themselves in the form of pimples, rashes or spots whereas the root cause is the virus. Superficial treatment may well get rid of the spots but it will not destroy the virus. Cement and sand toppings may minimise the blistering but they do not get rid of the moisture.

PETER CABLE

London

NEWS

COLLEGE OF ARCHITECTURE AND BUILDING

Reorganization of Regent Street Polytechnic

The Polytechnic School of Architecture, Regent Street, London, is to be merged in a College of Architecture and Building Technologies as part of the reorganization of the Polytechnic into federal institution, composed of three constituent colleges. The other colleges will be a college of engineering and science, and a college of commerce, which will probably include school of management studies.

The site of the college of architecture and building 'echnology is expected to be Loughborough Lodge, Marylebone Road (opposite Baker Street Station), an old people's home. But this depends on the satisfactory conclusion of negotiations for the replacement of Luxborough Lodge by new small homes, and the transfer to them of its 1,100 old people. It is hoped to achieve this transfer by 1964, when Luxborough Lodge could be demolished, and the site made available. It seems unlikely, therefore, that the new college could be completed before 1964.

The following summary of the report approved by the Education Committee has been issued by the LCC:

Proposals for the establishment of a college of architecture and building as part of a scheme for the reorganization of Regent Street polytechnic, St. Marylebone have been under discussion with the Ministry of Education and the governors of the polytechnic. As a result we have approved in principle proposals for the transformation of the polytechnic into a federal institution, composed of three colleges, namely a college of architecture and advanced building technologies, a college of engineering and science and a college of commerce, with which will probably be included a school of management studies. Each college would provide instruction at an advanced level. The professional associations concerned, including the Architectural Association, have been informed of the proposals.

"Each of three constituent colleges would have the fullest possible measure of independence and would, it is hoped, attract principals and staffs of high quality. In the interim period before the proposed reorganization is complete it is contemplated that there will be a school of general studies for work not properly forming a related part of the three colleges, this school being administered by a committee of the central governing body. "It is hoped that it will be possible for each of the constituent colleges to occupy a separate site including the sites now occupied by the polytechnic in Regent Street and Little Titchfield Street, and for the college of architecture and advanced building technologies, subject to consideration by the Welfare Committee and to negotiations which are still proceeding, to be built on part of the site in Marylebone Road now occupied by Luxborough Lodge. We will report later, following the conclusion of the negotiations, on this matter.

"We have also approved in principle the constitution of the central governing body of the federal institution and its order of reference and the establishment of college councils which would be the governing bodies of the constituent colleges. It is also proposed that each college shall establish such advisory committees as may be necessary and its own board of studies to be concerned with academic matters within the college. There would be a central academic council, under the chairmanship of the director of education, to deal with academic matters affecting the polytechnic as a whole. There will be a students' union forming part of the Institute.

"The governors of the polytechnic have accepted in principle the draft proposals referred to above, and we have authorized the preparation of detailed plans and estimates for giving effect to the proposals.

"It will be appreciated, however, that so important a new development in technical education in London will need very full discussion and the outline proposals will need to be considered at length and in greater detail in consultation with all concerned. These discussions will proceed as rapidly as possible and we will report furthere thereon in due course."

RIBA PRESIDENT

Holford Nominated

Presidency. Following a clear-cut majority of nominations the RIBA Council agreed last week to propose Sir William Holford as President, to succeed Basil Spence. It is understood that the ever-busy Holford, who as President, with in addition to normal duties an IVA conference to organise, is in for a busy time, has resigned from his chair of Planning at London University in order to limit his commitments.

Professional Income. All sections of the RIBA, and the Allied Societies have been asked to submit their views on the recent survey of professional incomes. The Professional Relations committee has the responsibility for co-ordinating the replies and putting forward proposals for investigation and action.

New Commissions. The value of new work commissioned of private architects in the fourth quarter of 1959 was one fifth greater than in the previous quarter and 40 per cent greater than the same period of 1958. This increase was general to all sizes of office.

Town Planning Exams. The Town Planning Joint Examination Board (consisting of representatives of the RIBA, the RICS, the ICE, IMunE and the TPI) has written to say that there is no advantage in its continuance, that it should be dissolved and the TPI conduct its own examinations. The RIBA agreed to having no official connection with Town Planning Examinations. It is understood that the RIBA Board of Architectural Education will itself be looking into education in town planning, in which in the interests of architects is now thought to be on the increase, and it is felt that the RIBA will have a freer hand in this matter if it has no formal connection with the equivalent body of the TPI.

YOUTH SERVICE

£3 Million Programme

Sir David Eccles, Minister of Education, in a circular to local education authorities, describes the procedure for the £3 million Youth Service building programme, which he has already announced. The programme covers both local education authority and local voluntary building projects. Local education authorities may apply at once to have projects included in the programme, which covers all jobs costing more than

On the general design of youth clubs the circular stresses the need for authorities to take direct account of those who will use the new buildings. Many of the new projects will introduce relationships between architect and clilent which are novel in the field of educational building. The Minister expresses the hope that architects, and those responsible for the planning of youth clubs, will go as far as they reasonably can towards meeting the wishes of their potential customers.

Under the new arrangements it will be possible to design a youth as an integral part of a secondary school or a community centre. There will be no objection to youth service facilities being used for other purposes. They could be used, for example, in the afternoon by old people's associations or women's organizations, when the clubs are not wanted for their main purpose.

A development project for the youth service will be undertaken soon by the Development Group of the Ministry's Architects and Building Branch. For the time being youth service building projects are to be treated as major projects so that informa-

tion can be collected for a Ministry Building Bulletin.

The previous limit of Ministry grant, which was £5,000 for any individual project, has been removed. In assessing the amount of grant for voluntary projects the Minister will consider all jobs on their merits and regardless of size. In general, however, the grant will not be more than half the cost of the project as finally approved, or three-quarters of the cost when Ministry grant is combined with a local authodity grant. If a local voluntary project is to attract grant a substantial number of members of the ozganization concerned must be between 14 and 20 years of age.

RESEARCH

Heating and Ventilating

Lord Hailsham, opening the new laboratory of the Heating and Ventilating Research Association at Bracknell on April 6, remarked that, though we spend about £25 per head per year on fuel, we only spend about 1d, per head per year on research on fuel use. The HVRA are now working on four main research projects:

Intermittent heating

The first is to find a method for timing the switching on of heating plant in intermittently heated buildings. Neither the usual time switch nor the external thermostat are satisfactory as neither can take into account the thermal behaviour of the building. A method proposed is to use the building air temperature (as indicated by water temperatures) as a control for the switch. A device based on this, it is claimed, can cut fuel bills by 5 per cent.

Floor warming

Electric floor warming is also being investigated: six installations in the South of

England are under continuous test using numerical and analogue techniques. A report is expected at the end of the year. Chimneys for oil firing

Chimneys in oil-fired installations are giving trouble, as chimney height and diameter are far more critical than in solid fuel systems. Usually existing chimneys built for solid fuel are oversized for oil. Investigations are going on and tables of heights and diameters for different duties are now being prepared.

Duct noise

The tendency to use higher velocities in both pipes and ducts increases the risk of noise. The Association is now working with the makers of fans to agree a method of measuring the intensity, and frequency of noise made by fans, so that designers tan determine how much sound insulation to provide in ducts. Measurements already made show that air resistance in p.v.c. tube is considerably lower than in conventional galvanised ducting and that a change-over to p.v.c. could contribute to the sound problem by reducing the amount of power necessary.

Solar heating

N. V. Billington speaking of the long term research of the Association said that "there is little doubt that in the foreseeable future solar energy will provide an appreciable fraction of the total energy requirements." Pointing out that its use will come first in the tropics, he said that it will extend from there to temperature climates. "A first step is being taken," he said, "by the study of the possibility of using sunshine as the power source for a unit dehumidifier for room conditioning." The Association, he said, cannot now spare a large part of its resources to such long term interests, but the time will come when such interests occupy "the major part of the activity."

LCC DEVELOPMENT GROUP

His Work Described

The work of the LCC Development Group was the subject of four lectures given at the AA during March by Oliver Cox, former Development Architect, and Robert Purdew, his deputy. The lectures were held at weekly intervals and each attracted a large and enthusiastic audience. The AA is to be congratulated on its initiative in organizing the series. At the same time Cox and Purdew themselves are to be congratulated not only for the workmanlike way in which they presented the material but for the range of subjects they tackled. The AJ hopes to publish part of the series as technical articles later this year.

It is rare indeed to find a local authority which puts so much into development work as does the LCC. The Development Group is a self-contained unit working within the Housing Architect's Department. It is in the position to make use of other specialized sections of the LCC for the testing of materials, the making of prototypes and for tenant surveys to establish "user require-

ments." Architects and the building industry in general would be richer for having the results of such work published more often. For this reason alone the Cox-Purdew lectures have been of considerable value, presenting as they did not only the advances and refinements worked out by the Group in anything from garbage disposal to ironmongery, but the setbacks and failures which, in the long run, provided the lessons whereby progress could be made. The only real criticism one could make of the series was that some of the lectures were overloaded, notably the first and the last. Probably the subject matter could have been spread over six lectures.

The first lecture was something of a marathon though we were gently introduced by way of the play habits of tenant's children. This gave us the opportunity of seeing how the tenant surveys work. A study of the way different age groups behave and what they require in the way of equipment led to the three-group classification—2 to 5 year olds, 6 to 10 and 11 to 16. Each of these

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goups requires different equipment and ifferent amounts of space if the older group each case is not to interfere with the

from children the lecturers passed to a brief history of post-war multi-storey housg types, starting with the earliest fourorey maisonettes and 11-storey point locks to the recent 17- to 19-storey blocks ch as at Roehampton. Cost studies have hen made of various plan types and heights wer the years giving interesting comparions between methods of construction layand numbers of storeys. It seems from s that the present policy to build point locks to at least 19 storeys is right.

The speakers then described various developent projects. These are carried out on the hisis of a negotiated tender with a contractor elected either for his organizational ability displayed in previous LCC contracts or ir his special interest in a particular naterial or form of construction. Needless n say the contracts are carried out in close sociation with the development group. geral contracts were described including me constructed in lightweight aggregate conarte and which makes use of a system of buttering developed first in Austria.

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he second lecture was concerned with sindows and the two speakers traced the work of the development group over the st ten years or so. As with much of their search the group was assisted in the first place by tenant surveys carried out in conaction with the LCC's sociologist. One of he earliest of these attempted to discover the problems of window cleaning to deterne how far this factor should decide window shape and size.* Among the points stablished was the maximum distance ft. 10 in.) which the person cleaning from inside the room can reach in a horiuntal direction on the outer surface of a fred sash.

Tall blocks of flats and maisonettes, of ourse, present special problems of weathering and the need to develop timber sections which are adequate to the exposed condions led to developments from the miginal EJMA sections. Ironmongery was also investigated and various prototypes for asement hinges, easy-clean hinges, stays and handles have been produced from time to time in order to give the best possible weather- and tenant-resistance coupled with aximum efficiency and safety.

es which. The third lecture covered heating. Although solid fuel open fires are still used in conwhereby junction with back boilers (e.g., low blocks nly real for old people's housing), development group work has covered all forms of central erloaded. and whole house heating, including smallead over bore accelerated systems with radiators, orced warm air and electric floor warming. A considerable amount of research has a marabeen done in establishing cost per dwelling luced by and subsequent running costs of each children. system. From this it has been possible to of the decide what performance can reasonably nd what e expected from a system and whether, say, landlord control is desirable. For example nt led to

electric floor warming is considered as suitable for background heating with some other means of "topping up." The heating studies, of course, have taken account of the related construction problems, such as flues in tall blocks and the requirements for adequate thermal insulation. This is a special problem in electric floor warming where heat transfer through the slab into adjacent flats can account for a substantial proportion of the heat emitted. The point here is that the ideal arrangement for thermal insulation does not necessarily coincide with that for sound insulation and an effective compromise must be worked

Condensation Problems

The last lecture in the series dealt with two widely separated subjects-services (garbage disposal, ventilation) and mural techniques. Oliver Cox started by pointing out that some years ago the LCC found itself with condensation troubles in many postwar housing schemes, particularly those using cross-wall construction. This, he said, gave the detractors of new construction methods the opportunity for criticizing them as being faulty for reasons such as condensation. When the Development Group went to work on the problem they found that condensation was due to two main causes, (1) the changed living habits of post-war tenants and (2) inadequate detailing.

The increase in the incidence of whole families being out at work during the day has been remarkable since the war. The result is that flats are unoccupied during the day and consequently unheated. When the tenants return in the evening and start heating kettles of water for tea, cooking, taking baths and simply breathing and sweating, they release into the atmosphere large quantities of moisture with which the heatingonly just turned on-is unable to cope.

In terms of detailing one point of weakness was the beam spanning between cross walls which suported external cladding. The problem has been overcome first by providing insulation at danger points, and second by providing background heating, the responsibility for which rests with the LCC.

The speakers also described systems of garbage disposal and the constant struggle to overcome problems of lack of labour (reducing the bi-weekly removal of garbage to once a week), noise (heavy objects dropped say 20 storeys down a refuse chute into a receptacle in the basement), smell (a problem of flueing) and tenant abuse. They also discussed methods of mechanically ventilating internal bathrooms and w.c.'s and produced an interesting chart showing the result of a tenant survey. Surprisingly this showed a majority of tenants in favour of internal bathrooms.

The second half of the lecture was devoted to the work of the two mural artists retained by the LCC. George Mitchell is a product of the RCA metals and plastics school and Tony Hollaway their mosaic and stained glass school. These two are retained on the basis of an annual fee and devote about three days each week to LCC work. They work in close association with the development group and the underlying ele-

ment in their brief is an imaginative use of common building materials in murals. This has led to several interesting projects. One of the earliest wall murals, described by Oliver Cox, was carried out by George Mitchell using chipboard. On this he drew his design in charcoal then ran over the charcoal line with a router, cutting a groove approximately 1 in. deep by 1 in. wide. The groove was filled with polyester resin in several colours and, when this had hardened the whole surface was sanded to a smooth even finish and sprayed with a coating of clear resin to provide a protective covering.

MODULAR SOCIETY

'Position Tolerance'

In the winter edition of The Modular Quarterly the report of the Technical Committee on the subject of "Position Tolerance" was published with an introductory note to the effect that it was to be discussed at a meeting of the Modular Society on March 30. One might have expected that a subject as critically important as this would have drawn a large audience with something useful to contribute and it is indeed a disappointment that so few turned up.

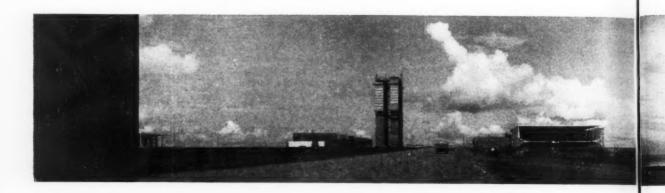
By definition the subject is a complex one and it is no reflection on the audience, whose enthusiasm generated a lively discussion, that this produced few positive ideas. One felt that the direction taken by the Technical Committee, as expressed in the report, was endorsed in a negative way by the absence of any positive criticism of their approach rather than by the presence of fresh ideas which would support that approach. This, in fact, was the theme taken by Mark Hartland Thomas in his summing up.

In his introductory remarks, Alan Sefton Jenkins, chairman of the committee, pointed out that manufacturers usually do not know what tolerances they work to. He explained that a study of this subject by the Modular Society was not aimed at necessarily reducing tolerances but at establishing those tolerances which were most workable.

A most interesting discussion developed on the validity of plus tolerances, one or two builder members insisting that there was no place for plus tolerances on site, such as with the assembly of precast concrete beams or the successive levels of floors in multi-storey work. It was clear that many present would have liked some guidance on where one might reasonably expect to work with a plus or minus tolerance and where one could only work with a minus tolerance. The example was quoted of woodwool slabs, channel-reinforced, used as ceiling lining in which case plus or minus tolerance would be acceptable and woodwool slabs used in conjunction with metal T's, also for ceiling lining where only a minus tolerance for the woodwool slabs could be permitted. It was not until the end of the evening that a member suggested the possibility of producing a sort of catalogue or handbook of tolerances which would show, for example, under what circumstances different tolerances would be acceptable.

5 year 'See AJ, July 10, 1958.

A party of architects, builders, engineers and permit a detailed study of any particular on quantity surveyors has recently returned from aspect of work in those countries but an wilding a visit to Brazil, Venezuela and Mexico. We overall picture was obtained, which shows quit have asked C. C. Handisyde to record his how necessary it is to know more about there his impressions. Time and circumstances did not work in such places than is usually evidencen



So much was seen in São Paulo, Belo Horizonte, Rio de Janeiro and Brasilia that it is difficult to know where to begin. Brasilia is most in the news and is affecting work all over the country to such an extent that it is perhaps the place to

The place is a sea of rather gluey red marl, with feverish activity being carried on day and night. Officially, the rush is to enable the opening to take place in late April. In fact, we got a strong impression from a number of sources that the real objective is to get the whole project to "a point of no return" before the

forthcoming presidential election lest the whole thing be abandoned with a change of presidents and consequently of policy. With the vast amount of money already sunk in the place, and nobody seems able to say how much this is, one would have thought any change of plan would be impossible, but Brazil is a strange country. One heard tales elsewhere, for example, of a local official pushing some project, such as a new library, but, on going out of office before its completion, the halffinished building being left uncompleted because the successor in office would be more interested in some new scheme than

in completing a monument to his prede benefit cessor. Certainly the effort which ha area is been going into Brasilia has had disas ning, v trous effects elsewhere and it is hardly a ally th exaggeration to say we got a feeling ions v that large numbers of lost causes were withou lying about decaying for lack of financathire because of Brasilia. The University at Ri the dr seemed to be a particularly sad example very uildi

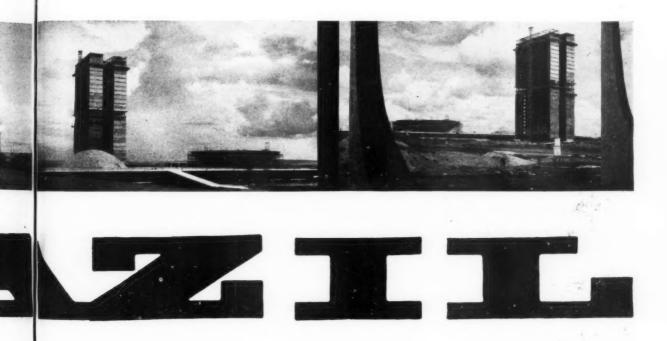
What of Brasilia itself as a place an of such of its buildings far advance lake enough to be judged? Driving in from impre the Airport, three impressions: it is ver much larger than one had expected: the become

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out an wildings. Mr. Handisyde wishes to make next week's issue Mr. Handisyde continues shows quite clear that the views which he expresses his journey through Venezuela and Mexico, out the his own personal reactions to what was describing buildings in Caracas and Mexico evidenteen in a very hurried tour, and not City.

rticular om carefully selected pictures of the best necessarily those of others of the party. In



is prede benefit of building on a vast uncluttered hich halatea is very obvious in the road planad disasting, which seems to be excellent, especinardly a ally the very nice handling of road juncfeelin tions with a free flow of traffic obtained ses wer without abrupt and ugly embankments: f finance third point noticed on the drive in was ty at Ri the dramatic siting arrangements for the examply very large number of future embassy buildings. A long row of these will face lace an across the approach road down to the advance Lake and should become one of the most in from impressive ways from an Airport to town it is ver anywhere, and will, at the same time, ted: the become a kind of permanent building

exhibition for the countries concerned. It is to be hoped that Britain will grasp the opportunity-certainly the competition will be severe.

The great feature in the town is the Government Buildings group (above) with its twin-towered Secretariat as the only really high building in the place. From all directions the twin towers dominate the flat landscape and as such are successful. From nearby the composition of the tall block and the saucer and dome of the debating chambers is extremely interesting. One wonders, however, whether from a distance it may prove to be another Delhi, since the lower buildings seem to be sunk into the ground and, especially when the main approach is planted, they may almost disappear from sight, except from nearby. Left, which is from the Palace side of the group, shows how well the towers dominate but how the other buildings are invisible-although in this view, possibly this effect is more obvious than from other directions.

The saucer and dome idea is impressive from close up (above and 13) and presumably the cost of such things is justifiable in a Parliament Building. What

BRAZIL (continued)

seems less certain is whether the circular debating chambers will be acoustically satisfactory. Unfortunately, it was not possible to discuss this with anyone who knew the design side of the job.

It is too early to judge whether the layout around the central buildings will be successful. At the moment, the open spaces seem to be very large and to involve more walking than will be comfortable in either very hot weather or storm rain conditions. Near to the central group is the range of ten-storey buildings (12) for the various Ministries. Not yet completed they appear to be simple and straightforward, but it seems odd that they are all detached and of the same size and one wonders how the Administration will cope with the problem of fitting differing departments into standard buildings. Any extension would ruin the appearance of the group as a whole.

The three Palaces are very interesting, especially the similar, but differing, white marble-faced shaped "columns." On the





Presidential Palace the columns run parallel with the façade of the building and, in detail, are most delicately shaped and their marble facing is beautifully worked to the subtle curves. It seems odd that this building has a raised terrace along front and back (3) and no easy means of getting around the ends. In the

other two Palaces (1, 2) the columns run at right angles to the buildings and, although differing in each case, they do not have quite the grace of detail of those on the Presidential Building. The Presidential Palace is one of the few major buildings, the Hotel is another, at present complete, and both inside and out are very impressive. Whether the columns serve any construction purpose was a mystery. If they are supposed to do so then it is difficult to see how a number can suddenly be omitted (2). Personally, I thought they were so attractive that even if they were quite false they were justified. What was rather ominous, however, was the fact that on the Justice building the white marble facing was already showing signs of coming off, apparently from thermal movement of the very long canopy. This kind of trouble was noticed on numerous buildings in other towns. Expansion joints were provided on some jobs but in others were omitted or used too infrequently.

The large hotel, pleasantly sited for aspect, but almost as far away from the Airport and the centre of the town as it could be, was attractive in many ways but its enormous length resulted in a terrifying corridor vista. The front elevation is flat and dull and it is curious that no through ventilation is allowed for.



Deterioration is already apparent, but this is no worse than one got used to expecting on almost any new building.

There was not time to more than glance at the rest of the town. Blocks of flats were simple and straightforward but in some of the few small shops so far built the standard of design was not maintained and they were little, if any, be than suburban development might h produced in England.

How can one sum up such a place a only a very hasty view? It is a tremend experimental gamble, at present it is h ing a devastating effect on the progress work elsewhere and is the subject of so very strong criticisms as a result. tainly at present it is very unpopular v many people. It looks to be a sligh forced plan in its overall shape and or spaces may prove to be too large. I said that Lucia Costa, the planner, li in Rio and never visits the site. If this true it seems most curious. An ive tower may be an excellent place in whi to think but surely the scene of acti should also be visited as the ideas be to materialize. There is also at pres rather a lack of colour but completion other buildings and, later, the landsc ing, may alter this. Vast amounts labour are being used for hand we which we would expect to do by machi but this was general throughout country as nowhere was much plant se in use, except for earth moving.

SAO PAULO

What of the other towns visited? Paulo is a typically big business c except that it is growing faster the almost any other town in the world. I amount of new building is fantastic, design for the most part ordinary, standards of finish no more than fair a so far as we could see, its overall pl ning chaotic. Surely a comparison tween Moscow and São Paulo should a lesson to us here while there is time. In Moscow a few high buildi stand proud of the general mass of town and, whatever their individual sign, they do read as dramatic punct tions. In São Paulo, the high buildi jostle for space and look an untidy m except perhaps from a distance when the merge into a fairly dramatic group elevated ground in the centre of the d y, be ght h

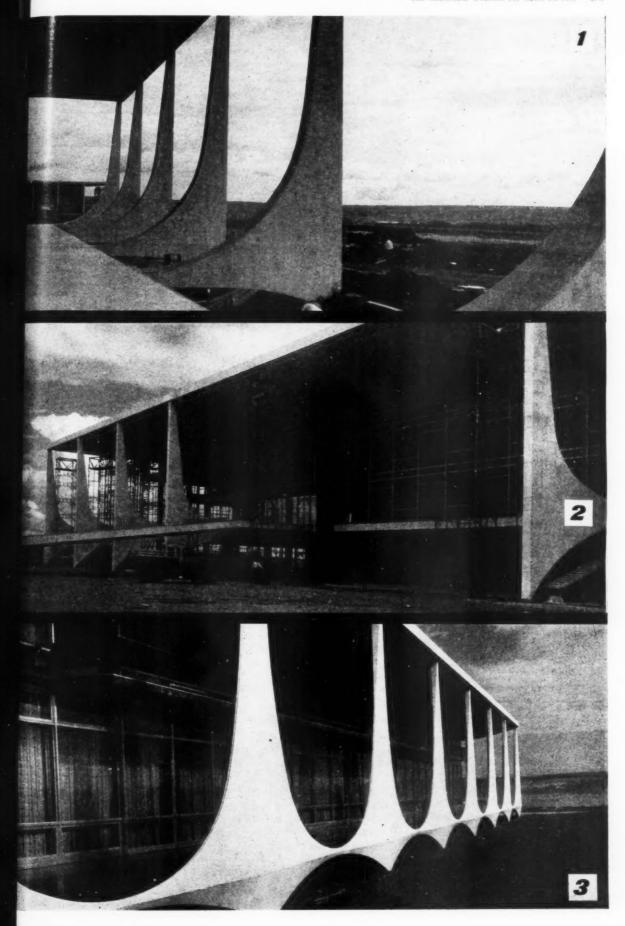
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BRAZIL continued

How long even this condition will remain is doubtful for some very high buildings are now going up away from the centre.



One of the pleasanter high buildings was a block of **Flats** of about 24 storeys. Immediately alongside this was starting what must be one of the largest projects



in the town. Here is a model—the "small" block is that of the flats! This project, to be 700 feet high, will contain, among other things, a public theatre, a newspaper printing works, a printing shop for a magazine, a TV concern with studios, theatre and cinema, offices, small hotel for visitors, restaurants, and, for the staff, a gymnasium, skating rink, swimming bath, church and ballroom. This was not untypical of the big thinking and bold ideas seen in many places, but

one could not help wondering whether it was wise to squeeze such accommodation into a tightly planned multi-storey building and what would happen if ever more accommodation proved necessary. The job was displayed in an astonishing model which built up floor-by-floor so that the whole of the interiors could be inspected. The model was shown to us in what was quite a large two-storey site office, very neatly designed, and erected in two weeks, and altogether a very nice advertisement for the Contractors and a pleasant place from which to direct a large building job.

On the roof of another large new project, an amusing dome structure (9) was seen. The roofing of this was of plastic material.

Although there was a vast amount of work going on, São Paulo is much less interesting than the other places which were seen and too much like any very large city to be attractive. Future travellers with only limited time, are advised to skip it and spend longer in either Brasilia for its architecture, or Rio for its attractions of every kind.

BELO HORIZONTE

Belo Horizonte is a very much smaller place and life goes at a quieter pace. As one inhabitant said, "They have time to be polite and live a civilised life." Although relatively small, there is a lot to see. The famous sights are, of course, Pampalha and a long road trip to the old gold mining town of Ouro Preto. The latter is a full day trip past some interesting scenery. Ouro Preto is picturesque and has a number of interesting old churches, but is virtually preserved as a museum piece. To anyone in a hurry, it is questionable whether the journey is worth while as many rather similar towns and churches can be seen in southern Europe. Ten miles or so on the road out of Belo Horizonte, however, is an interesting little development. A speculator

has bought up some very attractive moutain land and built a good small mode restaurant and club building. Membersh is restricted to people who buy nearby site on which to build themselves a hous. The scheme appeared to be prosperin. An interesting minor detail, inside the clubroom was a wood "mosaic" flood composed of end grain blocks cut frow whole trunks varying in diameter from about two to six inches. Quite amusing in its appearance.

To return to Pampulha. It is sad to re cord that this project seems to have h trouble. The Lake, which one understand dried up at one stage, is now full bu some kind of bug makes it unsafe for bathing. The Casino is now an Art Ex hibition because gambling is now against the law. The Yacht Club looks rathe tatty and uncared for. The later clui building, considerably illustrated in ou journals years ago in model form, ha not been completed. On the other hand the famous Niemeyer Church (4), which for years was objected to by the Church authorities, has at last been consecrated The blue and white tiled mural, seen when looking towards the Lake, fully came up to expectations and the interior of the Church was simple and attractive The Church is worth a visit but it is questionable whether the other buildings are

In Belo Horizonte itself some of the new office buildings were among the best seen. Outstanding as an individual building was the **Olivetti** one. Very simple

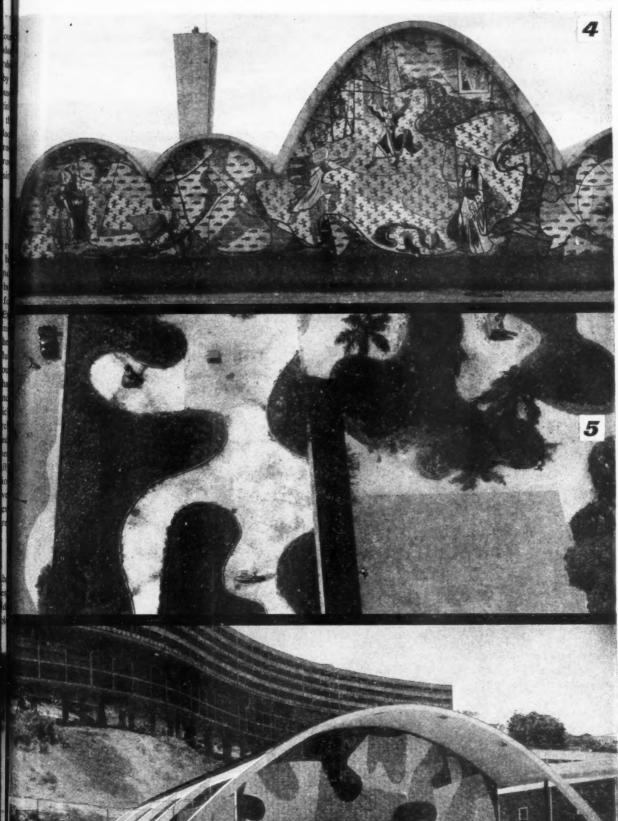


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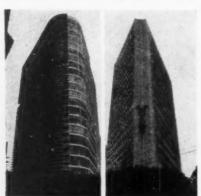
and crisp with its gleaming vertical adjustable louvres. Will they stay bright? One hopes so as they are very striking. A terraced set-back about six floors from the top was rather more obvious than is apparent in the illustration. Whether it was required for a set of V.I.P. rooms, I am not sure, but it gave just a pleasant interruption to the otherwise all-over treatment. Perhaps more imporant in some ways than the individual Olivetti building was the treatment of the main square. With diagonal streets coming in the plots were triangular. Each building was designed individually but there was some clear overall control of height and treatment. It has been in operation for a

sible for the astonishing amount of building work. In the case of these tall blocks, it appears that would-be purchasers of individual flats were the source of much of the money required to finance the job. Unfortunately, for them, a year or two after commencement the estimates were being exceeded and they were asked for more money. Work proceeded but again the money was insufficient! What do the unfortunate clients do? The end of this story is shrouded in mystery. This was by no means the only job stopped for lack of money for completion. A large job in São Paulo was said to have been standing half finished for years.

descent. In this school, the ramp led into an enormously wide central corridor Enough wasted space here for all the extra activities that any Ministry of Education



could think up! There were some curious posts along the edges of this ramp. Their purpose was not clear but their construction is all too obvious. The whole building is a good example of an exciting doodle which when exported as photographs is apt to lead students and others astray. It is said to have originated when the designer saw on the table in front of him a blotter, pen and ruler and, fascinated by the composition, decided to create a school in the same form. "Not quite architecture"?



long time for the bank building, shown right, is about seven years old. The corner wall here is in mosaic finish and it is interesting to see the two side elevations quite different, on the left normal windows, on the right vertical concrete sun louvres. Opposite this, shown left, is a building under construction and designed by Niemeyer, again sun louvres required on one side and not on the other but in this case placed horizontally, and rather dramatically stopped on the curved corner. We could do with some road junction treatments in our towns as well-designed as this.

A very big Niemeyer job was a twoblock group of flats (7) adjacent to a large traffic circus with an island garden. This illustrated rather well some of the curious features of the building world in Brazil. Owing to inflation, it appears that the only sensible thing for anyone with any money to do is immediately to go out and convert it into something of more certain value. The result is a gorgeous spending spree. Presumably, this is partly responOne cannot go to Belo Horizonte without visiting the suburban school by Niemeyer (8). This really does seem to justify a remark that one young Brazilian architect made that "Niemeyer is really a brilliant sculptor." After getting over the first few moments of wild photography, the expensive stupidity of the scheme becomes more and more obvious. The main hall, with floor sloping down from the platform and then up again to the back may possibly function as an auditorium, but its external shape must have made its cost outrageous even in a country of cheap timber and labour for shuttering. Exterior



mosaic cladding round the hall building is falling off with rather disastrous results to the appearance. The classroom block has the usual vast area at ground level as just covered space-a good idea in principle in their climate, but surely overdone in many cases. From this covered space there is a very wide ramp access to the classrooms at first floor level. Ramps were seen in a number of buildings and, having walked up and down several, I am fairly convinced that they are seldom worth while. They take up a vast amount of space and, unless they are of a very easy gradient, are not comfortable and might well be dangerous in buildings used by elderly people during Near to this school is a housing area with a fair collection of extremely ordinary houses but a sprinkling of quite interesting designs—more of the latter than we would ever find in a comparable development in this country. Also nearby is a





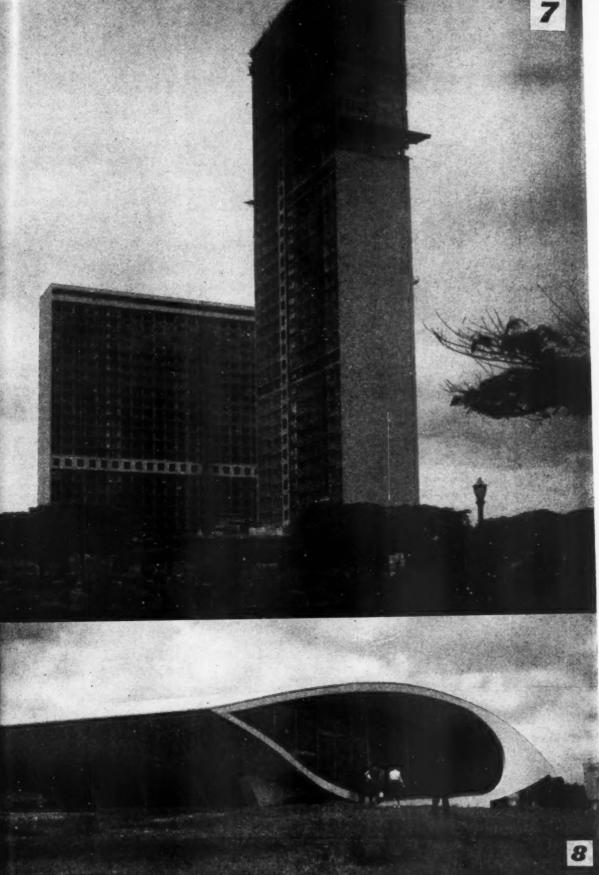


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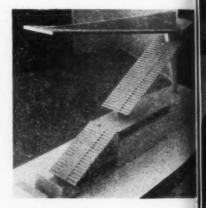
modest little building for the School of Architecture, the exterior of which showed a nice restraint in the use of sun louvres and the inside a bold black and white marble tile floor treatment with the patterning arranged to echo the gallery over and also to lead from entrance to the stair.



of the lower block and shows a little of the Burle Marx garden while (5) gives a view of the same garden from the top of the main block. This was the only one of his gardens which did not come up to expectations, mainly because it was not being kept in good order. Elsewhere, both in public buildings and private houses, he has produced compositions of quite breath-taking beauty with a splendid use of shape, colour and texture contributing to the whole. The inside of the Ministry comes as a most unpleasant shock. Like many other buildings the roof leaks and for several floors down the ceilings look like a slum property. Even where damage of this kind has not occurred, the interior design is uninspired and the colours a very close relation to our own old brand of municipal brown and green.

On the outskirts of Rio are two of th real tragedies of the town which a typical of what the system seems to pro duce. Years ago, illustrations were comin over of the development at Pedregulh housing, school and clinic, etc. Well de signed as a group on steeply risin ground, this was at least a move towards providing some lower income amenities The clinic, school and two modest blocks of flats are complete and occupied but the very large curved block of flats (6) which has been nearly finished for years is just not being completed and stands empty and decaying. It is about 15 years since it was designed.

The other, equally tragic job, is the University of Rio. Here on a vast campus we saw splendid models of what was intended. A detail model showed the bold



cantilever design for the stadium, a can tilever of 50 metres. What chance has of being built? On the ground at present is the completed R.C. frame of a ver large hospital-no work in progress; little way off is a large building for school of enginering, frame, walls an roof nearly complete but no real sign of work. Further along was the school architecture, a vast building intended for 900 students, a terrifying thought! looked large enough to take several thou sand and was certainly not an economy job. It was at least 75 per cent complete but again showed no sign of being finished and occupied. All this seems to be the price which has to be paid for Brasilia

RIO DE JANEIRO

Rio de Janeiro is such a magnificent place of beaches and exciting viewpoints that it tempts one to see less of the buildings than one should, because there are some very good jobs and moreover the average building here seems better than elsewhere and one got an impression that the quality of construction was higher.

Although it is now almost ancient history, it is interesting to see the famous Ministry of Education. The front comes up to expectations and still looks very well.



The blue and white tile murals in the covered area outside the entrances are very impressive but, unfortunately, some of the tiles have fallen off and it appears that as this has happened before, there are no longer any spares with which to do repairs. The less illustrated rear elevation is quite ordinary.

This picture is taken at the roof level

In Rio generally there is a horrifying cheek-by-jowl effect of rich flats and shanty town shacks and very little sign of public or civic conscience doing anything to improve the situation. What is striking is the good average quality of a large proportion of the blocks of flats. Open, or at least partly unbuilt over ground floors, are usual and underground



garages seem to be common. Entrances are almost always attractively detailed with well laid out and maintained planting. How one envied the effects that could be obtained with their lush growths.

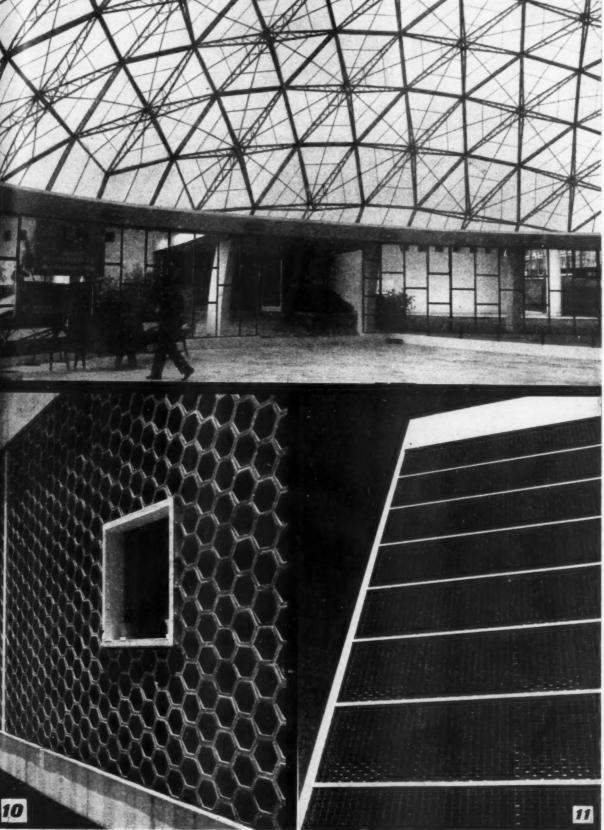
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BRAZIL (continued)

Elevationally, one of the most attractive of the newer buildings in Rio was the



South America Hospital, by Niemeyer. Very well detailed with perhaps the most attractive example of his trade mark V shaped piloti, finished in this case in beautifully textured concrete. Unfortunately, the building has been up for some considerable time but is not occupied. It was said to have cost so much that the clients could not afford to run it and were hoping to get it taken over by the Government. (There was no opportunity to verify this statement.) The garden here by Burle Marx was very simple but attractive, including an amusing lawn pattern obtained by using two different types of grass.

On this hospital job was one of the many very attractive hollow clay block screens (11). In this instance, red in colour, the effect was startling in its contrast and texture. Another very good example of the same kind of thing is on the well known Parque Guinle flats but there were many lesser examples of interest, such as the corridor wall to the school at Pedregulho (10). We may not need the sun screen treatment in this country but the same technique might well be used for other purposes; it seems a relatively cheap way of forming a screen wall and adding some texture and fun to a design.



The new Museum of Modern Art at Rio is at present functioning in some very ordinary premises at the front of what is intended to be the main museum. The concrete frame for the future building is an interesting piece of construction. Again, however, there was not much sign of activity on the site. One of the large columns had a tell-tale fixed across a crack at the V-junction near ground level.

CONCLUSIONS

Looking back at the whole Brazilian scene, there is an impression of great drive and enthusiasm, with the average design, when done by architects, perhaps a little better than the average here, but with less really spectacular work than migh have been expected. Undoubtedly, the majority of the really exciting and unusual designs were those by Niemeyer, but one could not help feeling that often these were designed for their appearance rather than for their function. There was

less colour in exteriors as a whole than I had expected to see. The Brazilian architect seems to have a nice easy life. Site planning regulations do not seem too severe, fire precautions, so far as they affect plans, seem child's play by comparison with ours, there are no problems of heating, because of inflation and contract methods the attitude to provisional estimates seems light-hearted, defects in completed buildings don't seem to worry anyone very much and, finally, architects are regarded as important people and are therefore exempt from much of the normal taxation!

Just a note to anyone who may follow the same trail in the near future. Don't rely on advance arrangements; people are charming, but the system does not always work! Be prepared for very considerable delays. Distances are great and air travel plus walking around building in hot weather is very tiring and the programme should allow for this. If trying to fit in a big programme, then exclude São Paulo in favour of more time in Brasilia and Rio. Brasilia is a big place and transport not yet organized and it takes longer than might be expected to see it. Rio is a wonderful place in which to relax as well as to see things and is, therefore, an excellent middle-ofa-tour stopping centre.

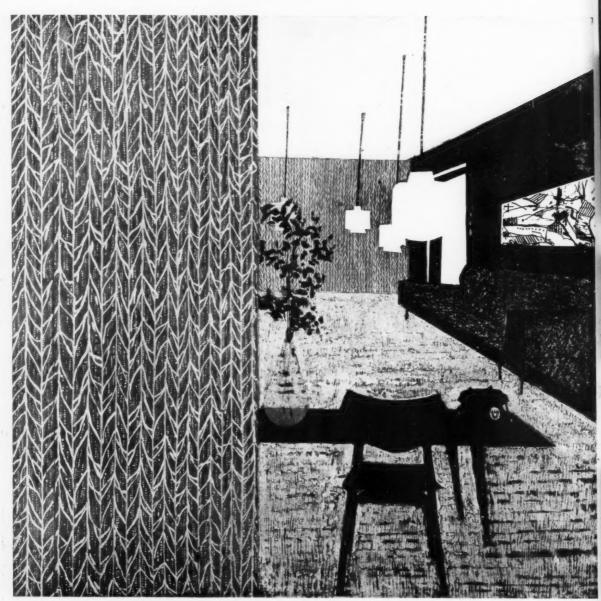
To photographers: films can be obtained but not always the particular brand required. Light can be very bright indeed and there is a temptation to disbelieve one's light meter. On the whole, the costs at present rates of exchange are a little lower than in England. Dollar cheques are easier to change than pounds, though there is no real difficulty over this.

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ESIGNERS THE FUTURE



finnish nursery



A number of student groups representing various countries have been given the opportunity to exhibit their work at Heals furnishing store as a part of the 150th anniversary celebrations of the firm. The English exhibit was a combined effort by Paul Goble, Sandra Heath and Pamela Evans who designed the furniture, Ruth Kaye, the curtain fabric, and Helena Newman who was responsible for the bed covers which were woven by Anne Meurling. Nigel Walters, the head of the interior design department at the Central School of Arts and Crafts, acted as coordinator. Below, David Reeves gives his comments on the exhibition.

Few firms survive untaken-over for 150 years, with descendants of the founder still in charge and actively designing. To do so, Heal's have sold the public what it wantssurvival in business is not simple—but they have always managed to combine business with a soft spot for the young and unknown. The highpoint of their birthday exhibition (appropriately on the top floor) is a group of rooms by students from seven countries. "Contemporary" style is now universal, so that there is little national diversitythere is nothing to compare with the impact of the Finnish furniture while we were quietly Russelling our way through the thirties. Perhaps the British bedroom is typically antiseptic, but a Teutonic heaviness has descended on the Italians. The Finns have had the most fun-enjoyment is a designer's asset—but all should pay attention to costs.

Student designs in wood tend to be rather knobbly, with exposed wedged tenons emphasising the more primitive of the classical methods of construction. This is because they all, quite rightly, study the history of construction and all are made to feel a need to go " to the roots of the matter." It is good to have an enthusiasm for appearance,



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ESIGNERS OF THE FUTURE (continued)

nd there is nothing much wrong with going the roots, but appearance should not be lowed to over-ride consideration of the ther, more difficult aspects of designrticularly makeability—and the root of matter is the machine. We are told that e furniture is all made by Heal's craftsen, which to me is a confession of failure ther than a boast—a failure to study the achine. Studying the machine means more an knowing what operations can be permed by what woodworking machines, and would like to see designs by students with good basic training in work-study, costcounting, labour relations, market rearch and the other techniques by which out nine-tenths of our furniture is actually ade. For the tragedy is that this ninenths is produced with little or none of the muine enthusiasm for appearance shown these students, who, if they are really designers of the future for all of us, ust sooner or later master industrial techue-and improve it. While I do not w their curricula, the point is made by cost of the exhibits-£,236 5s. od. for a ardrobe (Britain can make it).

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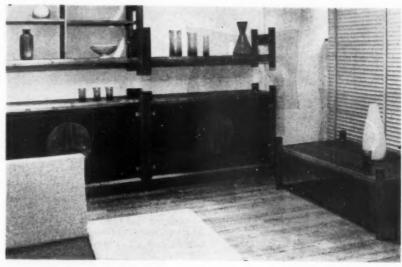
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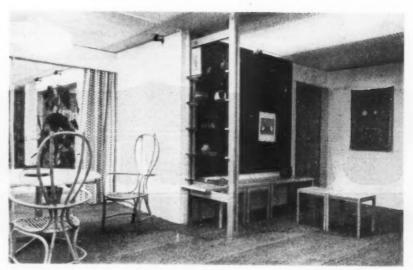
it

Il have been critical, I should conclude my iticism by a strong recommendation to go a see this exhibition—it is visually excits, you may well see something there which whoth like and can afford (and how often none say that?), and Heal's enterprise white in the young deserve support—world would be poorer without them.

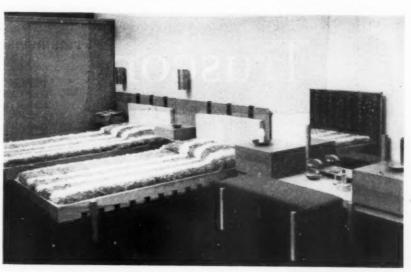
his recommendation applies also to the ther floors—the entire shop is an exhibition where there is some china I would like to m, and much of historical interest. An thibition of beds from about 1840 includes magnificent Tulip Period piece by mbrose Heal in 1906. Also there are suffs, carpets, glass, kitchen things and so h. An exhibition to see and enjoy, any the in the next two months



Italian Lebensraum

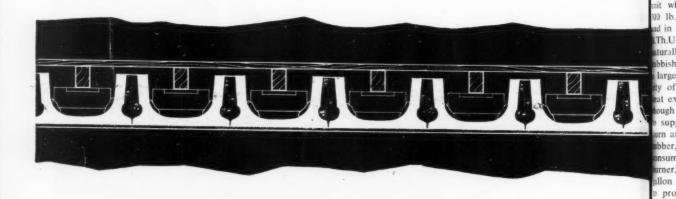


Swedish living room



British bedroom





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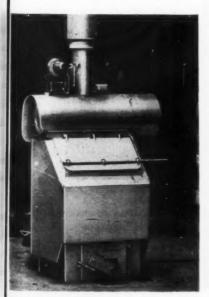
technical section

THE INDUSTRY

This week Brian Grant describes in incinerator, a gas boiler and an ucelerator pump.

Heat from waste

The Hoskinson incinerator is a dual purpose nit which will burn, smokelessly, up to 00 lb. per hour of almost any rubbish d in doing so will produce about 500,000 Th.U. though the precise amount will turally depend on the heat value of the bbish burnt. The incinerator consists of large combustion chamber with a capay of 1½ cubic yards, above which is a at exchanger and fan to provide hot air, ough as an alternative it can be arranged supply hot water. The incinerator will urn any form of rubbish, paper, oily rags, bber, plastic or leather trimmings. To nsume the smoke there is a small oil rner, with a consumption of about ½ illon per hour, at the base of the chimney provide the heated secondary air and me to ensure complete combustion. On



The Hoskinson incinerator.

demonstration this is extremely effective, thick smoke from burning rubber disappearing after barely one second. If the incinerator is to provide continuous heating there is a separate oil burner at the back of the combustion chamber, and this can be brought into use in a few minutes and will take care of the times when a regular supply of rubbish may not be available.

The 1½ cu. yd. model costs £585, and it is to be followed by a very much larger 10 cu. yd. model which will deal with van loads at a time. These incinerators were originally evolved in America, but have been considerably developed in this country and are now being exported to America. British manufacturers are so often accused of ignoring British inventions and allowing them to be exploited commercially by Americans that it is pleasant to be able to record that the traffic sometimes works the other way. (Boston Marine & General Engineering Co. Ltd., Heath Town Works, Wolverhampton, Staffs.)

Heating systems

At the Ideal Home the Elite gas boiler was one of the new items of equipment shown by Ideal Boilers & Radiators Ltd. This is available in five sizes with outputs from 90,000 to 220,000 B.Th.U. per hour. Although it is gas fired, the boiler has electric ignition and there is no pilot flame. The boiler is made with three to seven cast iron sections to give the five different outputs, and the makers claim an efficiency of 80 per cent. Time controls can be incorporated and the boiler shuts down automatically if either the gas or the electricity supply should fail.

Ideal have also just produced the Hotflow accelerator pump for small bore systems. It can be fitted at any angle in the pipework, and is constructed mainly of nonferrous metals. This overcomes most corrosion problems, but a bronze version is available for use if water supplies are extremely corrosive. The pump has no seals or glands, so that no maintenance is required, and it is suitable for temperatures up to 275 deg. F. Available accessories include a manually controlled mixing valve which allows the temperature of the heating circuit to be varied while the temperature of the flow and return to the indirect hot water cylinder remains constant. (Ideal Boilers & Radiators Ltd., Ideal Works,

Below, top, the Ideal Elite gas boiler; bottom, the Ideal Hotflow accelerator fump.





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7 PRACTICE

check lists and schedules

This week we provide three opportunities for readers to exchange useful office information on check lists and schedules of equipment.

In our December 17 issue we published a check list for Traditional Housing to be read in conjunction with the basic check list.* We offered to pay five guineas for each item submitted by a reader which, in our opinion, represented a useful addition to the housing list. The response, we are pleased to say, was good, though, as one might expect, useful additions were fewer than those made to the basic list as most of the ground has been covered. We now publish the revised check list for Traditional Housing in its final fileable version.

The Editors wish to thank readers for their suggestions for suitable subjects for schedules. A list of these suggestions is published. Readers are invited to submit standard schedules which they themselves use and a fee of ten guineas will be paid for any published.

We are also publishing (on p. 588) a basic check list for a Building Survey. We are prepared to pay ten guineas to the reader who submits a check list for this purpose which in our opinion best improves on the one published. Submissions should reach this office by the first post on April 29.

Traditional Housing

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HITED

596

As a result of suggestions from readers five items have been added to the check list published in our December 17 issue and the revised list appears on page 588.

SfB File No.	В
UDC No.	651

In considering additions to the list for traditional housing the Editors applied three of the four conditions used to judge items for the basic list. These are (1) the item must be common to most (i.e., in this case traditional) methods of construction, (2) items of equipment must be given their general description and (3) it should be an isolated item as distinct from something implicit in the construction. Needless to say it was conditional that items were essentially of a domestic nature.

58 readers submitted items. The Editors considered that fuel storage, drying cupboard, flue linings, ventilated food cupboard and bathroom (shaving) cupboard qualified for the list and the readers concerned will each receive an award of five guineas per item.

Fuel storage is, of course, a general description and may apply to anything from an oil storage tank and its support and housing to the traditional coal bunker. Its presence on the list will serve to remind the architect that if he has not already done something about this he must do so now (it is to be hoped that by working drawing stage he will have already considered it).

List of awards

Ten guineas to: G. K. V. Tomlinson

fuel storage (plans) drying cupboard (plans)

Five guineas to:
A. E. Inman
Anthony Le M, Pearce and
Derek S. Bottomley
R. Desmond Henly

flue linings (plans) ventilated food cupboard (plans) bathroom shaving cupboard (plans)

SCHEDULES

Architects are coming to realize that a drawing is not always the simplest and clearest way of conveying all the information about a building. The use of schedules is much more common today than it has been, though such items as *ironmongery* and *doors*, for example, are traditionally "scheduled." We asked readers to suggest items which they considered would be suitable subjects or which they themselves were in the habit of treating in schedule form. The following is a list of readers' suggestions: Internal finishes (wall, floor, ceiling)

Internal finishes (wall, f Doors and linings Windows and frames Ironmongery Lintels Electrical Fire-fighting equipment

Sanitary fittings Skirtings

*A.J., October 15, 1959.

NOTTINGHAM UNIVERSITY

All 7 blocks of the Cripps Hall of Residence are roofed with

BROUGHTON MOOR

Light Sea Green Slates

Specification

The roof to be covered with Broughton Moor Light Sea Green Best Quality (coarse grained) Westmorland Slates, to be obtained from the Broughton Moor Green Slate Quarries Ltd., Conis-ton, The Lake District, Lancs., in random sizes about 18 in. to 12 in. long, proportionate and random widths, laid to a 3 in. lap in regularly diminishing course from eaves to ridge. slate to be securely fixed by two stout copper nails and wide slates are to be used on the hips and verges.

Alternatives: Seconds, Thirds, Special Peggies; Olive Green and Mixed Shades.

Ridging: "Bromoor" purpose-made of crushed and moulded slate from the same veins is recommended.

200 tons of Broughton Moor Light Sea Gree random slating were specified for the residential quarters of Nottingham University The rugged texture and mellow tone of these slates contrast picturesquely with the simplicity of line of this new centre of learning -and will last for centuries. Where character with durability are the keynote, specify Broughton Moor Westmorland slates, in Light Sea Green, Olive Green or Mixed Shades. Immediate Delivery. Samples and Architects' Journal information sheet available on request.



Contractors: Jahn Laing & Son Ltd.

THE

Architects: Horace Farquharson, Donald McMorran, ARA, George Whitby MBE.

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Telephone: Coniston 225/6 Telegrams: Cann, Coniston

BROUGHTON MOOR

SLATE QUARRIES LTD



This is the final version of this list, compiled by the Journal Editors in consultation with readers. You may cut it out and keep it by your drawing board for future use.



The question of how much information to put in a schedule and how much to leave off is a debatable subject amongst architects. Those readers who have evolved standard schedules for these items (or any other) which they have used and found to be workable over a period of time are invited to send them in and the Editors will pay ten guineas for each one published.

BUILDING SURVEY

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The response to the request for suitable subjects for check lists and schedules has been encouraging. Some readers have suggested a check list for the occasion when the architect has to inspect an existing building and submit a report for the purpose of, say, valuation, prospective purchase or possible development or conversion. We are grateful to those readers who submitted check lists of their own and have made use of these in compiling a list.

In preparing this list we have adopted the same approach used with the working drawings check list, that is that this list is a basic one containing items pertinent to virtually all building items but none (we hope) exclusive to only one or two. This basic list will then be supplemented with others for individual building types (e.g., one for houses, one for factories, etc.). We have described it as "Provisional" as it can no doubt be improved. Such improvements are not necessarily confined to additions to the list. It may well be that certain items should not be included or else designated in some other, more useful way. The Editors are prepared to pay ten guineas for a list which, in their opinion, best improves on our check list for a Building Survey published this week. Submissions should be made by April 29.

The purpose of the check list, in this case, is not so much to assist the architect in preparing the report, as to remind him, during his inspection, what items to look for and record. Most items will, of course, be recorded in two parts, (1) a description of the material (water pipes, flashings) or the construction (roof, walls) and (2) a description of their condition. Where further information is required, such as the positions of stopcocks and meters, it is noted in the list.

Check List for Working Drawings—Traditional Housing

(To be read in conjunction with basic check list)

1. General

Refer to basic check list

2. Plans

Foundation
Floor joists over (direction and sizes)
Bearers

Sleeper walls (and access)

Floor

Floor and/or ceiling joists over (direction, sizes)
Herringbone strutting
Roof trusses over (dotted)
Towel rails
Mat well
Fuel storage
Drying cupboard
Flue lining
Ventilated food cupboard

Roof.

C.W. cistern (access)
Flashings
Chimney
Pipes through roof
Roof access

Bathroom shaving cupboard

Electrical and heating layout
Radio and TV equipment
Cooker point
Extract fan
Clock point
Electric fires
Boiler (independent)
Back boiler
Immersion heater
Instantaneous water heater
Radiators, convectors, skirting panels

Heater cabinets Room thermostats

3. Sections

Concrete site slab
Hardcore
Herringbone strutting
Insulation
Flue gathering
Chimney capping and dimensions

4. Elevations

Refer to basic list

Shower Song

Sending and turning and gaily carolling

Loving the feel of the tropical rain

Leaving to Leonard the job of controlling

Once she gets in she just wants to remain.

Gone are the quirks of the old fashioned mixer Everything else but never just warm, Thermostat Leonard is fitted to fix her And keep the temp. fast at divinity's norm.

"Keeping the temp. fast" is just what Leonard control by thermostat does. It turns stone-cold and stinging-hot into steady warm—immovable until the bather moves it. It makes the shower, the Leonard shower, the best bath in the world. That's why the Leonard valve has come to be specified by architects everywhere not just for showers in hospitals and schools, but also in factories and mines and ships.

Please let us tell you more about Leonard thermostatic valves. We have composed literature to cover all applications in detail. Write for engrossing publicatior. SB.2 to: Walker Crosweller, Cheltenham. The impetuous should 'phone us at Cheltenham 56317 or, in London, at Holborn 2986.

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CHELTENHAM. ENGLAND.



technical section

This check list is provisional only. You are invited to submit suggestions for improving it and we will

pay 10 guineas to the reader who, in our opinion, submits the best list for this purpose.

Provisional Check List for a Building Survey

Site and general

Town planning requirements (e.g. road widening) Orientation Building line Adjoining properties

Outbuildings Fences, railings

Gates Steps, ramps

Paths Paved areas

Roads, drives Landscaping and natural features (e.g. trees, rock outcrops)

Soil

Drainage

Surface water Soil and waste (sewer, septic tank, cesspit) Gulleys Manholes Ventilation pipes Fresh air inlets

Building Construction (i.e., load-bearing frame, etc.) Planning Roof covering Roof construction (parapets, box gutters, hips, valleys) Roof space access Flashings Eaves (overhang, fascia, bargeboard, soffit) Pipes through roof (flashing) Chimney stacks and flues (flashing)

Roof lights (glazing flashing) Gutters, rainwater heads

Downpipes

External and internal walls

Wall finishes

Windows (frames, sashes, sills, lintels, arches) Doors (frames, fanlights, lintels, arches, thresholds)

Air bricks and ventilators

Damp-proof course

Ceilings, cornices

Floors

Foundations

Trim (architraves, skirtings, windowboards)

Stairs, changes in level

Water supply and sanitary plumbing

Stopcock (position) Piping Insulation Cistern (means of support) Sanitary fittings (taps)

Waste and soil pipes

Hot water

System Piping H. W. cylinder Expansion tank

Heating

System Fuel storage Fittings

Electrical supply and installation

Overhead or underground Poles and overhead lines External wiring Point of entry Meter Wiring Light and socket outlets, switches Fittings and equipment

Gas installation

Meter Piping **Points** Fittings and equipment

Other services Defects

Dampness and cause Dry rot and cause Cracks, bulges Recent repairs



Melton/Fleet

Medway/Fife



Maufairt Farnham



Malvern/Fern

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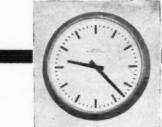
Council of Industrial Design and are included in 'Design Index'a further indication of the high standard of design and dependability maintained by E.C.S.



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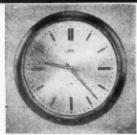
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Mostyn/Filey

'M' Series (e.g. Mayfatr) Surface Mounted 'F' Series (e.g. Farnham) insertion type



The two latest additions to this distinguished range. Gilt anodised cases with raised gilt batons and tapered hands.



ENGLISH CLOCK SYSTEMS

179-185 GREAT PORTLAND STREET LONDON, W.1. Branch Offices and Showrooms in Birmingham Manchester Glasgow & Belfast

A branch of the Clock and Watch Division of SMITH S. Smith & Sons (England) Ltd.

SERVICE STATION

designed by

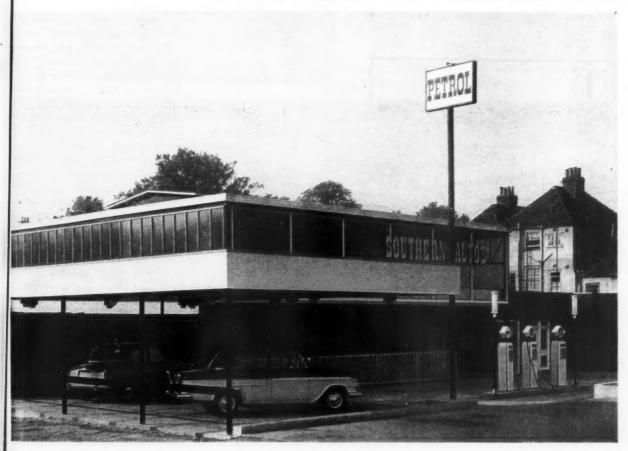
ROSE LANE, CANTERBURY ROBERT PAINE AND

Partner-in-charge C.W.H.WRIGHT quantity surveyors ARTHUR J. WILLIS AND THOMPSON

(93)StB File No. UDC No. 725

his is a small service station for Southern Autos Ltd. who have recently extended their activities to anterbury. The aim has been to produce a garage expressing a new conception in motor vehicle sales nd service facilities, with a walk-in showroom open to the passer-by.

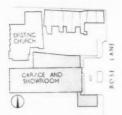
General view of the garage from the north-west with the open display area in the foreground.



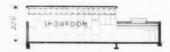
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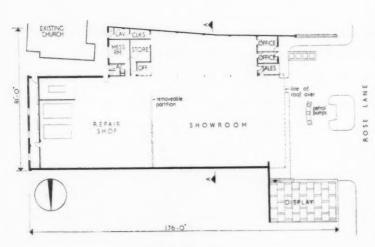
building illustrated



Site plan



Section A-A Scale: 14" = 1' 0"]



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

APPRAISAL: this station is on the site of an old gar which was destroyed by bombing. The main building basically a plain, steel framed, rectangular box with bi and glass infill. The careful handling of the external details and the treatment of the colour scheme have made if simple construction into an interesting building of its kin The colours used in the interior are black for all structure steelwork and white for the joinery. Applied finishes la been kept to a minimum and the brickwork is in blue white flints. The structural steelwork involved is mainly the 4-ft. deep lattice trusses which support the roof. T roof has a span of 50 ft. and is decked with asbestos on st purlins. It is finished with three-layer roofing felt on board and the rainwater is taken away by a built-in au on the south side of the building to down-pipes which n internally down each stanchion. The upper part of t service station has patent glazing along the two sides a at the front, a steel angle frame takes the 1-in. rougher glass on which are fixed self-illuminated letters. The or tinuous fascia is of 20 gauge aluminium.

For reasons of economy, the existing foundations of the of garage were re-used as much as possible. This naturally affected the design of the building though it is doubtful that any other plan would have been a great improvement on the present one. Another influence on the layout of the building was the proposed widening of Rose Lane which, under the city plan, is to provide the main link between the High Street and a new civic centre, to be built in Watling Street It is for this reason that the garage is set well back from the existing road. It is also proposed to build a service road along the north flank of the site and any building in the area therefore had to be of a temporary nature. The architects decided to use this piece of ground for a more or less open air showroom, a walk-in showroom, in fact.

It takes the form of a roof on stilts, completely open to the public highway. This form was adopted not purely because of the need for a temporary building but also as a result the architects' conscious attempt to break through t natural shyness of passers-by who are usually loth walk around showrooms without the definite intention buying something. The architects and their clients believe that custom is more likely to be successfully wooed allowing potential buyers as much unmolested freedom t wander about the exhibited cars as possible. The temporar showroom is only one of two provided. The other is inside the main building at the front and this is also left com pletely open. It is protected from night-time intrusion by removable metal railing. This is stacked away out of sigi during the daytime, the long sections being transported of specially designed little hand trollies. It is possible to pas from the outer showroom to the inner quite easily and th two are given visual unity by means of the same fals suspended ceiling.

This is formed of varnished 2-in. × 1-in. battens with 1-in. gap between them, the whole held up by steel angle pieces hanging down from the roof structure. This form of ceiling allows the sun to filter through on to the cars and some sparkle is obtained on the polished surfaces.

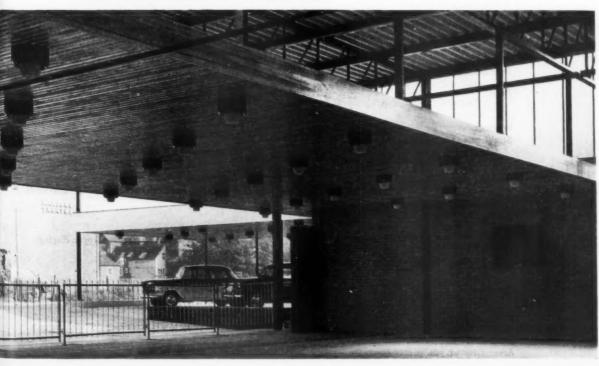
There is a small shop for the usual motor accessories and a large open space at the rear of the main showroom server as the workshop and car washing space. PETROL SOUTHERN AUTOS



Above: the garage from the south-west The guard rails are taken right away when the garage is open.

Left: the car-washing bays at the back of the building with workshops behind,

Below: the showroom area with a view of the suspended false ceiling.



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analysis

CLIENT'S REQUIREMENTS

A service station which would combine the sale of new and secondhand vehicles with the maximum of efficiency in servicing and the sale of petrol.

PLANNING AIMS

To keep the front of the building as open to the public as possible while maintaining adequate security; to provide a pleasant setting for the display of cars and to attract customers by giving them freedom to wander among them.

SUMMARY

Ground floor area: 10,563 sq. ft. Total floor area: 10,563 sq. ft.

Type of contract: RIBA with quantities. Tender date: September, 1958. Work began: December, 1958. Work finished: May, 1959.

Tender price of foundations, superstructure, installations

and finishes: £19,313. Final contract price: £19,963.

Tender price of external works and ancillary buildings:

Final contract price: £951. Total final cost: £20,914.

> price per sq. ft. s d

Preliminaries and insurances

Prices included in rates.

Contingenci 35

(In original tender: 83d)

Work below ground floor level 1 41

Largely off existing foundations and much of old concrete floor re-used.

STRUCTURAL ELEMENTS

Frame or load-bearing element	8 111
Steel frame, including roof steelwork.	
External waite	2 03

Flint brick and stock external facings.

solid wall 0.48 Ratio: floor area

Windows 2 101 Steel frame and vertical patent glazing.

windows 0.28 Ratio: floor area

External doors

Wood doors and steel removable gates across frontage.

doors Ratio: floor area

Upper floors

Staircases

Roof construction Asbestos decking and softwood trimmings (steel is included under frame).

Area: 1,160 sq. yds.

No. of lights: 6. Total area: 167 sq. ft.

Glazing

Sheet and obscure to small windows and doors, 1-in. rough cast to front screen.

Total of structural elements: 21s 0d

PARTITIONS AND FITTINGS

Internal partitions

Type of partition Area of each type in sq. ft. Brick 609

6

3

1 11

1

2

Timber framed 336

Screens

Patent screens to wash bay

Internal doors

14 single doors, also one sliding door; 10 ft. 3 in. × 10 ft.

Ironmongery

Normal door furniture, etc.

Fittings

Shelving, cloak rails, notice boards, small tool racks.

Total of partitions and fittings: 2s 2 d

FINISHES

Floor finishes		
Type of finish	Area in sq. ft.	Price per sq. yd.
Patent hardened		
concrete	4,581	21s. 11d.
2-in. grano.	234	12s. 6d.
5-in. quarry tiles	369	30s. od.
Lino tiles	653	31s. 7d.
Precast concrete		
paving slabs and		
black bricks to		
pattern	1,597	29s. 1d.

Remaining area in existing concrete.

Wall finishes

43

Nil

Mainly fair-faced brickwork, glazed tiling to wash bay.

Ceiling finishes

Pine battens to part of garage and open display area, false ceiling to sales area.

Roof finishes

Nil Three-layer roofing felt (10,440 sq. ft.).

Decorations 4 31

(Cost of paint to steelwork included with frame.)

Total of finishes: 5s. 103d

analysis

SERVICES		\$	d
External plumbing			51
Galvanized steel tube	rainwater pipes.		
Some zinc cappings.			
Hot and cold water ins	stallation		11
Cold water only (gas	water heaters not in contract).		
Sanitary fittings			1
Type of fitting	Number of each type		
W.c.s	2		
Lavatory basins	2		
Urinals	I		
Heating and ventilatin	gr		Nil
Gas installation	•		3
Two points for water	r heaters.		
Electrical installation		2	61
108 lighting points, 1	15 power points.		
Lifts or other mechani	ical services		Ni
(Car lifts not include	ed in contract.)		
Total of services: 3s 2	₹d		
DRAINAGE		2	3
All below building			
OTHER ELEMENTS		1	9
Demolition and prep	paring site		
Lettering to front.			
Air pipeline.			
Bearers to waste oil	tanks and fixing tanks.		
Total per sq. ft. of flo			
fra a62 (not cost av.	cluding external works)	****	

where it was found possible to analyse the contract into separate functions of (a) showrooms with offices and (b) workshop. The analysis shown against Poole is for the factory-type workshop block only. No such clear division was possible at Knaphill and Canterbury and both their analyses are a combination of showroom and workshop.

Structurally, Knaphill is a more compact scheme, which normally tends to raise the cost per square foot. But to offset this, the Canterbury garage is twice as high, with 50 ft. clear spans compared with Knaphill's 30 ft. The average unit cost of solid external walling at Knaphill is 82. 7½d. per sq. ft. compared with Canterbury's 6s. 8½d. Roof constructions are comparable, but not patent glazing to external walls, as Canterbury has no showroom windows to pay for.

Partitions and finishes: the difference is due to Knaphill's greater ratio of partitions to floor area.

Finishes: Canterbury's are minimal, not only because the concrete area of the floor was there before the building was put up, but because there are no decorations to walls other than the glazed tiles to the washbay. The walls are mainly fair-faced.

Services: differences arise because: (a) Canterbury's garage does not include water heaters or any form of space heating; (b) Knaphill's compactness is reflected in the plumbing costs, and (c) there is a difference of 50 per cent in the cost per square foot of the electrical installation.

When these points are considered it is clear that although Canterbury's proved to be a very economical scheme, Knaphill was by no means bad value for money.

COST COMMENTS

1

2

Below is a comparison of the main groups of elements of this garage at Canterbury and two previously analysed (at Poole, AJ, September 24, 1959, and at Knaphill, October 22, 1959), with the costs per square foot of floor area also expressed as percentages of the overall cost.

10,563 sq. ft. (net floor area, measured to the inside of external walks)

Element group	Poo	nle	0'	Kne	aphil	7 00	Car	nter- y	0/
	S	d		S	d		S	d	
Preliminaries,									
etc.		01	0.5		112	1.8	Inc	lude	d —
Contingencies	-	-	_		5	0.8	-		_
Foundations	4	63	12.1	- 6	11	11.2	I	41	3.6
Structure	20	I	53.4	23	41	43 . 1	21	0	55 - 7
Partitions and									
fittings	2	2}	5.9	3	03	5.6	2	21	5.8
Finishings	2	21	5.8	10	11	18-7	5	101	15.6
Services	7	111	21 . 1	7	31	13.5	3	21	8.5
Drainage	No	r		Wi	th		2	3 1	6 · I
	inc	lude	d	fou	nds.				
Other elements		7	1.5	2	101	5.3	I	91	4.7
	37	71	100	54	21	100	37	83	100

Poole is included as a matter of interest rather than for direct comparison because it was a much larger project,

CONTRACTORS

37 8

General contractors: Richard Costain Ltd. Sub-contractors—Electrical installation: Electron Engineering Co. Lighting: Atlas Lighting Ltd. Patent glazing, front metal screen, steel lantern lights, metal windows: Henry Hope & Sons Ltd. Fascia lettering: Ward & Co. Ltd. Sanitary fittings: Alfred Olby Ltd. Ironmongery: A. J. Binns Ltd. Felt roofing: Vulcanite Ltd. Asbestos cavity decking: John Denyer Ltd. Structural steelwork: Hotchkiss Engineers Ltd. External brickwork (Uxbridge flint facings): Cape Building Products Ltd. Internal brickwork: Robert Brett & Sons Ltd. Floor finish: J. H. Sankey & Son Ltd. Linoleum tiles: Nasons (Canterbury) Ltd. Partitions: Norwood Steel Equipment Ltd. Gates: Thanet-Ware (Kent) Ltd. Lubrication gear: Weaver Manufacturing & Engineering Co. Ltd.; Brown Brothers Ltd.

The new Christ Church and Lincoln church in Kennington Road, London, S.E., House—a five- and six-storey office block -represents the unusual redevelopment of the site of a famous Victorian Gothic

been designed for the Dolphin Development which was blitzed during the war. It has Co. by P. J. Darvall (consulting architects, Sir John Burnet, Tait and Partners). The church tower-named the Lincoln Tower and built to commemorate the abolition of slavery in 1865—was scarcely damaged

and has been retained, dominating the

corner of the site, and a new church is almost embedded under one arm of the T-shaped office block. Its presence is signalized, however, by a massive and remarkable entrance porch, 48 ft. wide by 17 ft. high, consisting of intricately carved stonework of an interlacing design and glazed with coloured glass through which

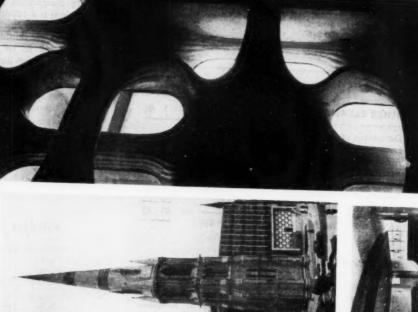
the church lights shine at night. Within, the church is simple and non-conformist in and Communion table. A Vierendell truss style with raised pews encircling the pulpit made of heavily reinforced concrete beams carries the offices over the top of the church

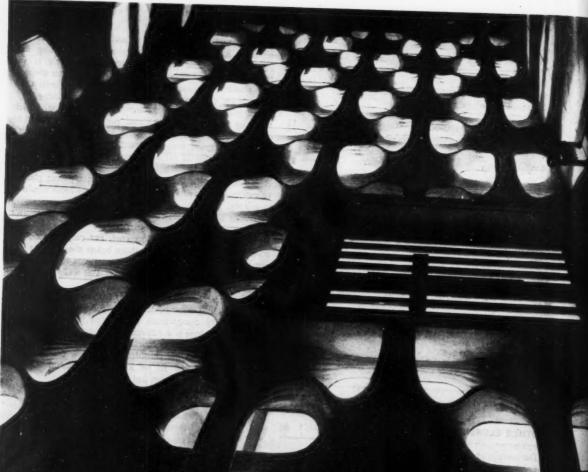
-a distance of 50 ft. The truss is three storeys high and is actually two trusses, The church was officially opened last week. (General contractors, Richard Costain joined by the corridors between the offices. Ltd.) Right, top, general view of the Lincoln Tower, Christ Church porch and steps and Lincoln House; below, the interior of the church; beyond, the porch

by night, from outside.

CHURCH AND OFFICES

IN LAMBETH







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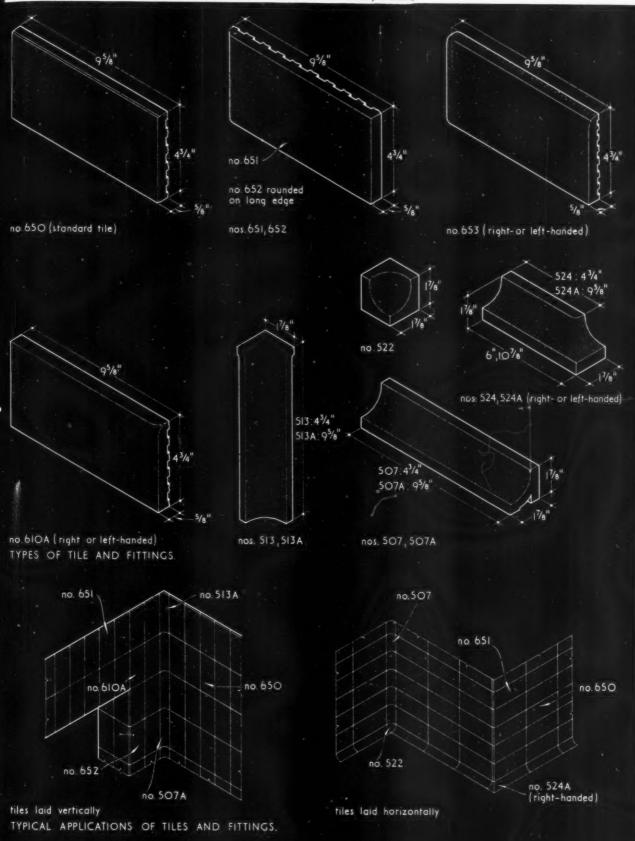
tile TYF

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18.E2 5

WALL TILES CLAY

The Architects' Journal Library of Information Sheets 761. Editor: Cotterell Butler, A.R.I.B.A.



18.E2 ·SINZIG· GLAZED CERAMIC WALL FACINGS

This Sheet describes Sinzig glazed ceramic tiles for wall facing for internal or external use. The drawings on the face show the standard tiles and fittings available and their application.

Material

The tiles are fully-vitrified glazed ceramic material, the glaze and body of the tile being fired in one operation at a very high temperature. The glaze is frost-proof, has never been known to craze and has a high resistance to acids: the facings are specially manufactured for external use and for internal industrial applications. The backs of the tiles are mechanically keyed to facilitate efficient fixing.

Sizes and Types

The standard tile is $9\frac{5}{8}$ in. by $4\frac{3}{4}$ in. by $\frac{5}{8}$ in. thick. Tiles $4\frac{3}{4}$ in. by $4\frac{3}{4}$ in. by $\frac{1}{8}$ in. can be obtained to order in quantity. The range of fittings available is illustrated on the face of the Sheet.

Weight and Covering Capacity

1,090 tiles weigh a ton. 27 tiles with 3-in. joints cover one square yard.

Preparation of Surface

The surface to be tiled should be a strong wall of concrete, brick or hollow blocks. It should be keyed or rake-jointed brickwork, or well-scratched rendering. The surface must be cleaned and damped before the application of the tiles.

Fixing

Individual rows of tiles should be selected and set out by the tiler so that any variations in size, inevitable with fired clay products, are noticed before fixing and to ensure uniformity of joints. The tiles should not be soaked. They can be machine-cut or cut with a glass cutter or, alternatively, they may be scored with a small chisel and tapped from the back with a

The laying mortar should be 1 part cement to 3 parts washed sand, not too coarse. The tiles should be well spread with mortar and tapped firmly into position. The face of the tiles should be cleaned of mortar as the work proceeds and washed down after

pointing.

Joints should be 3 in. wide minimum and uniform horizontally and vertically: after the bedding has set they should be pointed. For external facing Chromolith pointing mortar is recommended, a graded compound containing special cement, some lime, quartz and a water repellent: it is obtainable from Langley London Ltd. in a number of colours. For industrial purposes or where the tiles are exposed to chemical corrosion, individual consideration must be given in each case.

Bonding: For internal tiling for industrial applications, the tiles should be laid horizontally or vertically to a straight joint, or, where greater strength is required, horizontally with break joints. For external facing, tiles should be laid to a straight joint, preferably vertically.

Coursing: The following table gives the dimensions of specific numbers of tiles laid horizontally and vertically. These dimensions are converted to the nearest 16 in. from the metric dimensions of the tiles allowing for 5 mm. joints.

Tiles vertice		Tile: horize	Dimension	
No. of tiles	No. of joints	No. of tiles	No. of joints	(ft. and in.)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 17	5t 10t 1 3t 1 8t 1 2 1t 2 1t 2 1t 2 1t 2 2 2 1t 2 2 2 1t 2 2 2 1t 2 2 2 2

Fittings: The fittings shown on the face of the Sheet provide for external and internal angles, three-way junctions, coves and capping courses.

Apart from their use as permanent external decorative wall claddings the tiles are suitable for internal use in dairies, bakeries, abattoirs, refrigeration plants, breweries and food and confectionery factories, pulp and paper mills, paint-spraying, enamelling and dipping rooms; pickling shops, power and turbine houses; laboratories, kitchens and canteens; swimming pools.

The standard colours are chamois (12), ivory white (21), white (31), turquoise blue (51), light green (53), lime green (55), lavender blue (61), sky blue (62), yellow (73), brown (81), black (91), pale grey-green (115).

Further Information

The supplier maintains a technical advisory service which is available to answer questions on installation generally, fixing techniques and colour schemes. In addition to the range of tiles described on this Sheet, scum channels and other fittings for swimming pools and partition blocks and fittings for cubicles of all kinds are available in the same material: details may be obtained from the supplier.

Compiled from information supplied by:

Langley London Limited.

Address: 163-7, Borough High Street, London, S.E.1.

Telephone: Hop 4444 (10 lines).

Telegrams: Laglycol, Souphone, London.



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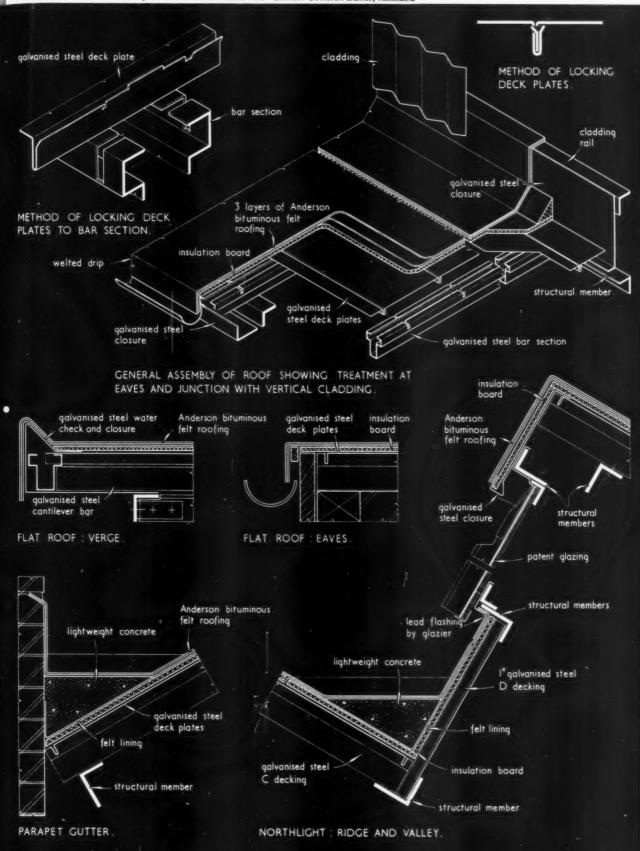
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ROOFS COMPOSITE

The Architects' Journal Library of Information Sheets 762. Editor: Cotterell Butler, A.R.I.B.A.



20.Z14 ANDERSON INSULATED STEEL · C· DECKING

This Sheet describes a roof built up from galvanised steel decking, rigid insulation and bituminous roofing. It may be adapted to flat, pitched or vertical constructions. The Sheet should be read in conjunction with Sheet 20.Z5 as the fixing for pitched roofs and patent glazing is similar to that given for B decking (Thermolok).

The system consists of bar sections to which deck plates are secured. The components are manufactured from hot-dip galvanised sheet steel, the material complying with Class F of Group 2 of B.S.2989:1958 and also with B.S.1449:1956 for steel in sheet form.

steel in sneet form.

Fixing: The bar sections are secured to the structural supports with hook bolts or cleats. Lengths of bar section are joined by connector sleeves. The deck plates engage in slots at approximately 2 ft. 3 in. centres in the flange of the bar section as shown in the first detail on the upper face of the Sheet and the plates are held together as shown in the detail on the right. The lower drawings show fixings at eaves and verge of a flat

The lower drawings show fixings at eaves and verge of a flat roof, northlight glazing and a parapet gutter.

Insulation: A layer of insulating board, cork slabs or fibreglass is laid over the deck plates, the thickness depending on the application: typical U values obtained are given under Thermal transmittance. Where a humid atmosphere is anticipated inside the building, a layer of felt should be fixed below the insulation as a vapour barrier.

Reof carriers. The scoff is unterpressed with built up hitter.

Roof covering: The roof is waterproofed with built-up bituminous felt, the number of layers depending on the climatic conditions and whether the roof is flat or pitched. General recommendations are given in B.S. Code of Practice C.P.144.101:1952. Flat roofs are surfaced with stone chippings and pitched roofs with Flextile Mineral Surfaced Roofing.

Bar sections: Three sizes of bar section are available: 2½ in. deep by 16 g. in lengths of 6 ft. 0 in. to 8 ft. 0 in.; 3½ in. deep by 16 g. in lengths of 8 ft. 0 in. to 12 ft. 0 in.; 4½ in. deep by 14 g. in lengths of 8 ft. 0 in. to 14 ft. 0 in. In all cases the lengths rise in increments of 1 ft. 0 in. Non-standard lengths can be supplied at extra cost. Spans up to 15 ft. 0 in. can be accommodated by arranging for continuity over structural supports: the principle of scale required for this supports: the minimum number of spans required for this

method is three.

Deck plates: These are available in 20 or 22 gauge in lengths up to 10 ft. 0 in. to suit bar spacings of 2 ft. 0 in. and 2 ft. 3 in.

Flat roofs (up to 10° pitch), with 1-in. insulation board, three layers of bituminous roofing and stone chippings, weigh

layers of bituminous rooming and stone emplings, weigh 8 lb./sq. ft.

Pitched roofs (over 10° pitch), with ½-in. insulation board, two layers of bituminous roofing and Flextile Mineral Surfaced Roofing, weigh 6 lb./sq. ft.

Loading

The depth and gauge of decking used will depend on the span and the superimposed load, as given in the tables below. Reference should be made to B.S. Code of Practice C.P.3, Chapter V, 1952, and to the local byelaws. The Code of Practice recommendations with regard to wind pressure should be specially noted, particularly the section relating to suction on flat and low-pitched roofs. Where the buildings are high and exposed to strong winds special consideration may be necessary.

Decking 24 in. deep:

	Safe inclusive load in lb./ sq. ft.				
Span ft. and in.)	2 ft. 3 in.	centres	2 ft. 0 in. centres		
	A	В	A	В	
6 0 7 0 8 0	55 41 31	55 35 24	62 46 35	62 39 26	

Decking 31 in. deep:

	Safe inclusive load in lb./sq. ft.				
Span (ft. and in.)	2 ft. 3 in	. centres	2 ft. 0 in. centres		
	A	В	A	В	
8 0 9 0 10 0 11 0 12 0	57 45 37 30 26	57 44 32 25 19	65 51 41 34 29	65 49 36 28 21	

Decking 41 in. deep:

	Safe inclusive load in lb./sq. ft.					
Span (ft. and in.)	2 ft. 3 in. centres		2 ft. 0 in.	centres		
	A	В	A	В		
8 0 9 0 10 0 11 0 12 0 13 0 14 0	105 84 68 56 47 40 35	105 84 68 56 44 35 28	119 94 76 63 53 45 39	119 94 76 53 50 39 32		
	Co	Continuous spans (minimum 3 bays)				
15 0	25	25	28	28		

based on stress of 20,000 lb./sq. in.
 based on deflection limited to 1/250 span.

Thermal Transmittance

The following U values are obtained using the various insulating materials shown:

Insulation	U value obtained for thickness (in.)					
	ŧ		1	1	2	
Fibreboard Cork board Fibreglass	0·32 0·29 0·26	0.30	0·26 0·23 0·20	0·22 0·19 0·17	0.12	

In accordance with normal practice it is recommended that the steel decking be painted after fixing. A paint suitable for galvanised surfaces should be used embodying a calcium plumbate primer or similar.

Compiled from information supplied by:

Compiled from information supplied by:

D. Anderson & Son Limited.

Head Office: Stretford, Manchester.
Telephone: Longford 4444.
Telegrams: Roofing, Stretford.
London Office: Old Ford, London, E.3.
Telephone: Amherst 9381.

Birmingham Office: 97, Grange Road, Birmingham, 10.
Telephone: Victoria 5124.
Nottingham Office: 17, Huntingdon Street, Nottingham.
Telephone: Nottingham 53266.
Leeds Office: 2, Central Road, Leeds, 1.
Telephone: Leeds 21403.
Glasgow Office: 425, Scotland Street, Glasgow, S.1.
Telephone: South 2233.
Belfast Office: Short Strand, Belfast.

Belfast Office: Short Strand, Belfast. Telephone: Belfast 57413.

Bristol Office: 81, St. George's Road, Bristol.

Telephone: Bristol 27888.



Arch

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The almo

COVERED WAYS AND CANOPIES: 31

working detail

GLAZED PASSAGEWAY: MUSEUM IN COPENHAGEN

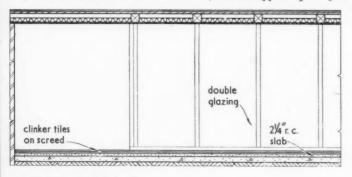
Jørgen Bo and Vilhelm Wohlert, architects (material supplied by George Kew)

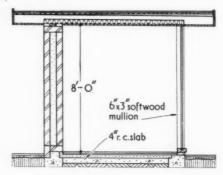


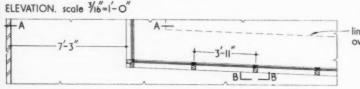
The detailing of this glazed passageway has been reduced almost to the ultimate in simplicity, instanced, for example, by the spacing of joists over mullions (visible on the drawing only) and the absence of a head frame for the double glazing.

GLAZED PASSAGEWAY: MUSEUM IN COPENHAGEN

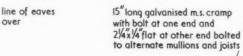
Jørgen Bo and Vilhelm Wohlert, architects (material supplied by George Kew)

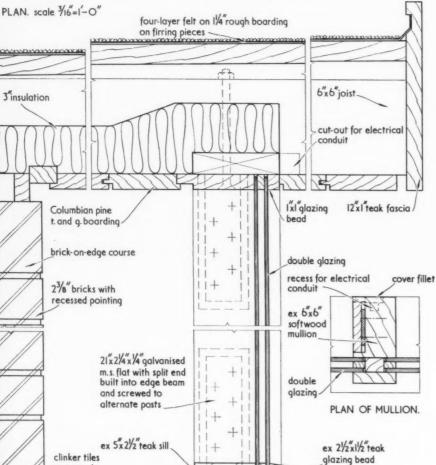






SECTION. scale 3/16"=1'-0"





ex 6"x3" softwood mullion

Resist

Vinyl

coasta

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grit.

SECTION A-A. scale 16 full size.

on screed

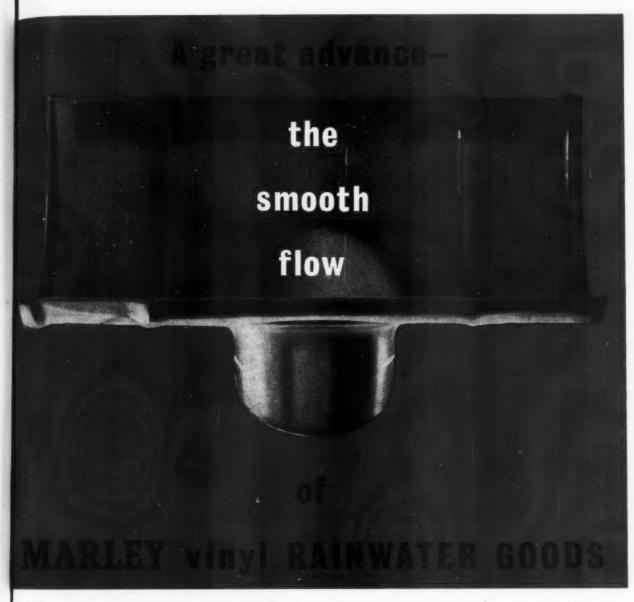
mastic bedding

r. c. slab

SECTION B-B.

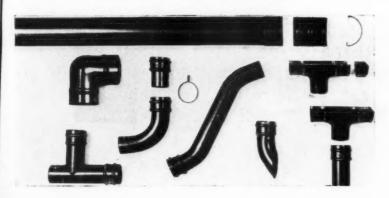
tarred timber plate

clinker tiles



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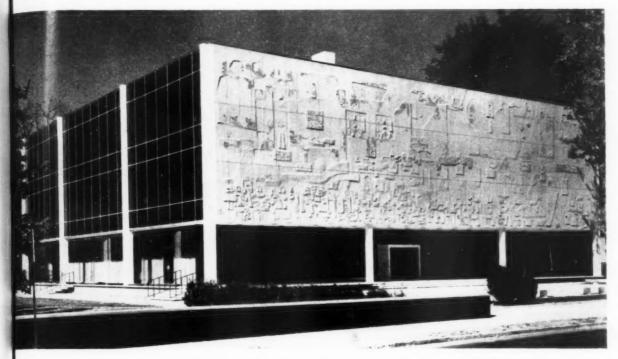
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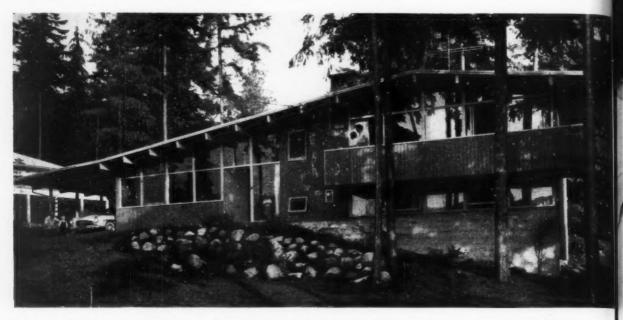


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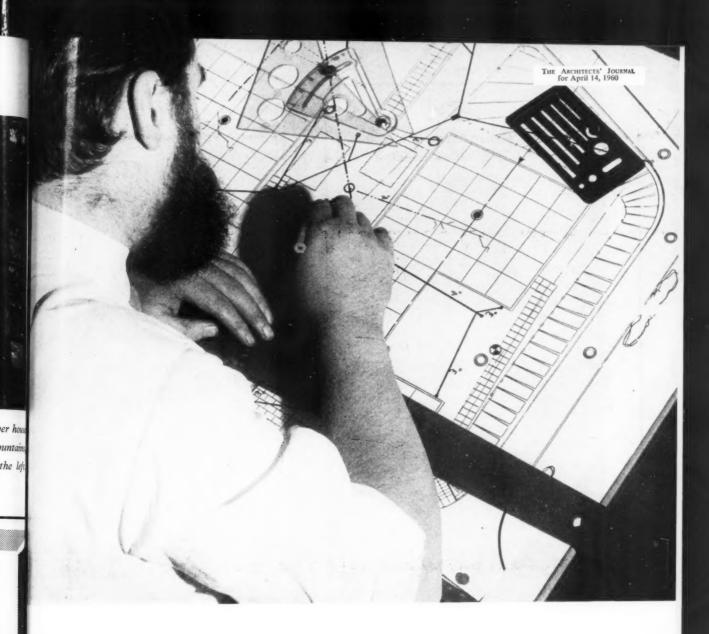
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Architects: Percy V. Burnett & Partners F/A.R.1.B.A.

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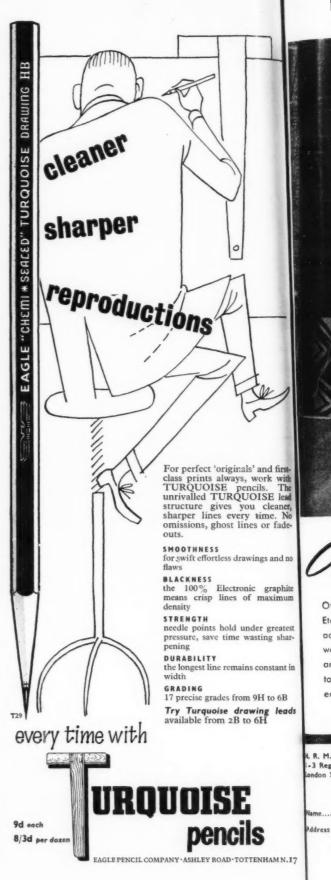
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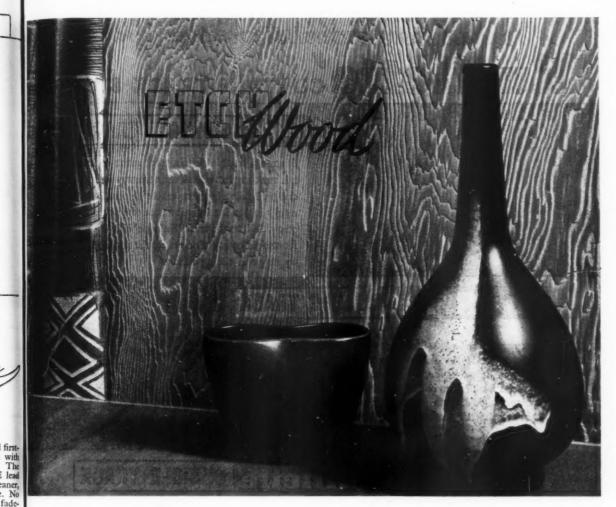
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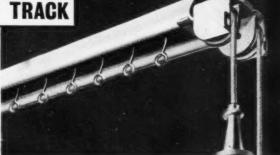
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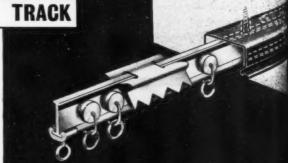
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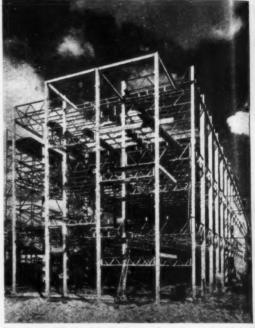
structural steelwork

For this B.E.A. Building, speed was the essence of the contract. Sommerfelds designed the Steelwork and from unloading the first lorry on site to completion of a 250-ton steelwork erection, took three weeks.



New Air Terminus buildings in Kensington for B.E.A. Photograph taken 16 days after commencement of steel deliveries. Mela Contractors: Mesars' Richard Costain Limited.

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Architects: Messrs. Farmer and Dark.

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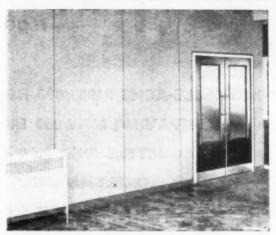
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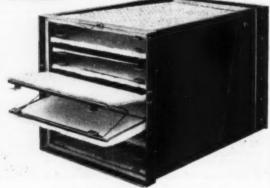
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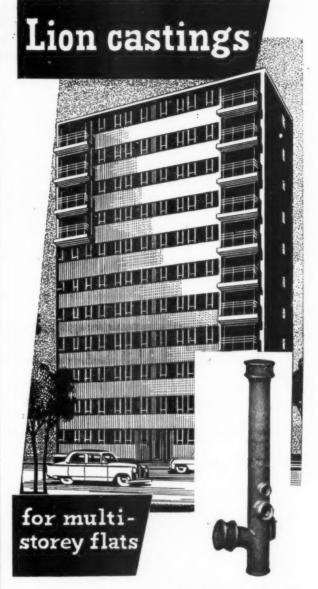
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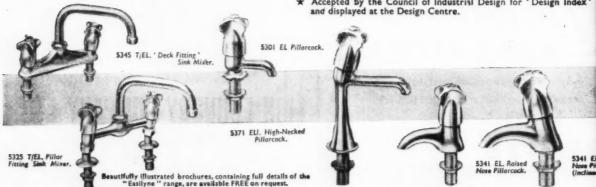
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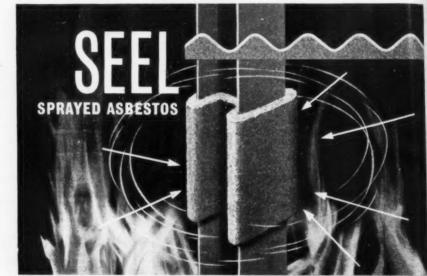
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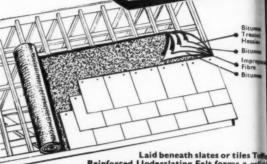
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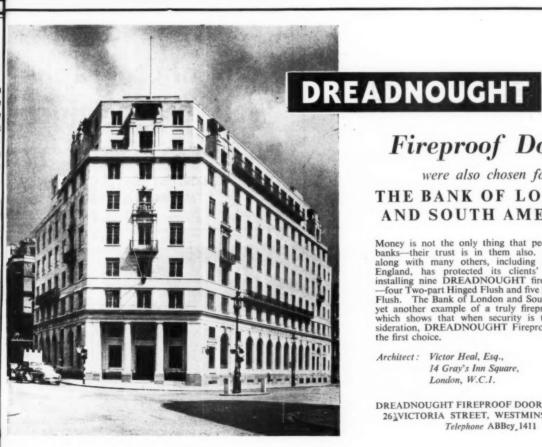
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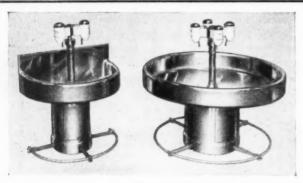
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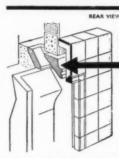
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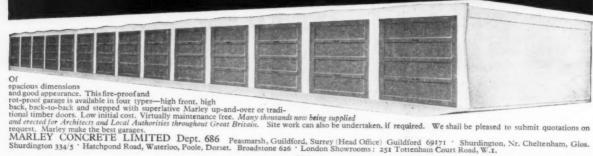
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Application forms and further particulars
obtainable from A. Lumb, A.R.I.B.A., Deputy
County Architect, 15 Portland Square, Carlisle,
to whom completed applications should be
returned not later than FRIDAY, 22nd APRIL,
1960.

G. N. C. SWIFT, Clerk of the County Council.

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

K. A. HORNE.

Age 29494

BOROUGH OF EPSOM AND EWELL
BOROUGH ENGINEER AND SURVEYOR'S

(a) SENIOR PLANNING ASSISTANT.

(b) SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the above posts in the Borough Engineer and Surveyor's Department at a salary on Scale A.P.T. IV (£1,065-£1,220) plus London weighting, together with an essential user transport allowance.

Candidates for post (a) must be Associate Members of the Town Planning Institute and for post (b) Associates of the Royal Institute of British Architects.

Conditions of appointment and application forms are obtained from Mr. Colin Cobbett, AM. I.C.E. M. I.Mun. E... Borough Engineer and Surveyor, Town Hall, Epsom, to whom they must be returned, together with the names of three referees, by Friday, the 29th April. 1969.

Town Hall,

Town Hall, Epsom. Surrey.

CHESTERTON RURAL DISTRICT COUNCIL ARCHITECT'S DEPARTMENT Applications are invited for the following

Applications are invited for the following posts:

(a) MEASURING SURVEYOR. A.P.T. Grade II.

(b) JUNIOR ARCHITECTURAL ASSISTANT, A.P.T. Grade II.

Applicants for (a) should be capable of preparing Bills of Quantities, for houses and similar work. Estimates and settling Final Accounts.

Applicants for (b) must have had a sound Architectural training and be capable of preparing working drawings, specifications and making surveys.

ing working drawings, specimeators and surveys.

The appointments will be subject to the terms of the National Joint Council's Scheme of Conditions of Service and to termination by one month's notice on either side. The successful candidates will be required to pass a medical examination, suitably endorsed, stating age, and including the names of two referees, are to be sent to the undersigned not later than the 25th April, 1960.

W. H. HAYWARD.

County Hall.

County Hall, Hobson Street, Cambridge.

CITY OF WORCESTER
APPOINTMENT OF ARCHITECTURAL
ASSISTANT
Applications are invited for this appointment within Salary Scale A.P.T. I (£610—£765 per annum). The appointment is superannuable and subject to a medical examination.
Housing accommodation will be offered if necessary, and the Corporation are prepared to make a contribution towards removal expenses.
Casual User's Car Allowance will be applicable. Applications, stating age, present and previous appointments and experience, are to be sent to the City Engineer and Surveyor, 22. Bridge Street, Worcester, by Wednesday, 20th April, 1960.

BERTRAM WEBSTER, Town Clerk.

Guildhall, Worcester.

Guildhall,

Worcester.

BOROUGH OF LEYTON

(Municipal Borough in the County of Essex.

Population approximately 100,000.)

BOROUGH ENGINEER'S DEPARTMENT

Applications invited for appointments of ASSISTANT ARCHITECTS at salaries within the scale of £785 per annum rising to £1,070 per annum (plus London weighting) in accordance with the provisions of the National Scheme of Conditions of Service for Local Authority Staff (Special Classes).

Housing accommodation will be made available to successful applicants if required. Fiveday week is operated.

Apply by letter to Borough Engineer, Town Hall, Leyton, £10 (giving mames of two referees) not later than Friday, 22nd April, 1960.

D. J. OSBORNE.

Town Wall.

Town Hall, Leyton, E.10.

Leyton, E.10. 9421
COUNTY BOROUGH OF DARLINGTON
BOROUGH ARCHITECT'S DEPARTMENT
Applications are invited for the posts of:—
(a) SENIOR ASSISTANT ARCHITECT,
A.P.T. Grade III-IV (£880-£1.220).
(b) ASSISTANT QUANTITY SURVEYORS,
A.P.T. Grade III-IV (£880-£1.220).
(c) ARCHITECTURAL LEARNER—Gen. Div.
£210-£455 (£430 at age 22).
The Authority has a large building programme, ncluding Schools, Technical College, Civic Suildings, etc.

(c) ARCHITEUTURAL BEAUTY (C) ARCHITEUTURAL BEAUTY (C) ARCHITEUTURAL BUILDING SCHOOLS, Technical College, Civic Buildings, etc.
For (a) and (b) preference will be given to candidates with experience in Local Government, and holding professional qualifications. Starting salary by negotiation. Housing accommodation available. Applicants for (c) should be about 21 years of age.
Applications, stating age, experience, qualifications, present salary, and nominating two referees, should be received by E. A. Tornbohm, A.R.I.B.A., A.M.T.P.I. Borough Architect, Central Buildings, Darlington, by 21st April (1960).

WEDNESFIELD URBAN DISTRICT COUNCIL ENGINEER AND SURVEYOR'S DEPARTMENT
Annications are invited for the position of CHIEF ASSISTANT ARCHITECT at a salary in accordance with A.P.T. Grade IV (£1,065 to £1,220).
Candidates must be qualified and have had considerable experience in the appointment for which they make application.
The district is developing rapidly and offers exceptional experience.
The National Joint Council Conditions of Service will apply and the successful candidate will be required to contribute to a Superannuation Scheme and also undergo a medical examination.
Housing accommodation will be provided, if necessary, and reasonable removal expenses will be paid.
Applications, stating age, qualifications, experience, with the names of two referees, must be received by the undersigned by not later than 25th April, 1960.
Clerk of the Council.
Council Offices,
Alfred Squire Road,

Council Offices, Alfred Squire Road, Wednesfield, Staffs.

BOROUGH OF OLDBURY
STONE STREET AND LODGE STREET
DEVELOPMENT—PHASE 2
The Council invite Tenders on a fixed-price basis for the erection of 78 4-storey dwellings and four garages, together with landscape wall and construction of drying areas.
Forms of Tender, Conditions of Contract and Bills of Quantities may be obtained from the Architects, Messrs. Wood & Kendrick & Williams. of 57, Colmore Row, Birmingham, upon payment of a deposit of 62 2s. This sum will be refunded withdrawn.
Tenders must be submitted in the envelope provided, the envelope being duly sealed and hearing no name or mark indicating the sender. Tenders must be delivered to the Town Clerk's Office, not later than 12 noon on Saturday, 7th May 1960.

Tenders must be compared to the compared to th

Municipal Buildings. April, 1960. Oldbury.

BIRMINGHAM REGIONAL HOSPITAL BOARD

ARCHITECTS DEPARTMENT

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

(b) ARCHITECTURAL ASSISTANTS (ref. Arch.

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

2), Salary £545 (at age 21 years or over)-£765 per annum. Point of entry according to experience. Intermediate-R.I.B.A. essential, (c) ASSISTANT QUANTITY SURVEYORS (ref.

Intermediate-R.I.B.A. essential,
(c) ASSISTANT QUANTITY SURVEYORS (ref. Arch. 3).

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

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

Salary scale £645-£765. To assist in survey of existing hospital buildings and preparation of record plans. Intermediate R.I.C.S. (Buildings Division) essential. Must be a neat draughtsman with experience in measurement and plotting of surveys to all scales.

All salary scales now under review.

All posts superannuable. Five-day week. Written applications, quoting reference of post desired and naming two referees to Secretary. R.H.B. 10. Augustus Road, Birmingham, 15, by 25th April, 1960.

25th April, 1960.

COUNTY COUNCIL OF ROSS AND
CROMARTY
COUNTY ARCHITECT'S DEPARTMENT
Applications are invited from qualified Architects for appointments as SENIOR ASSISTANT
ARCHITECTS in the Dingwall Office of the
County Architect on salary scale £1,039 10s.—
£1,228 10s.
Housing accommodation will be provided.
Applicants must be Associates of the Royal
Institute of British Architects.
Applications giving details of training and
experience with attached copies of three recent
testimonials should be lodged with Peter S.
Leask, A.R.I.B.A. A.M.T.P.I. County Architect,
Tulloch Street, Dingwall, not later than
Saturday, 23rd April, 1960.

County Clark

County Clark

W. D. ROSS

County Buildings, Dingwall. January, 1960.

COUNTY BOROUGH OF BOLTON
BOROUGH ARCHIPECT'S DEPARTMENT
Applications are invited from qualified architects for the post of PRINCIPAL ASSISTANT
ARCHITECT, Grade A.P.T. IV (£1,065-£1,220.)
The successful candidate will be expected to
lead a group on varied work, and the commencing salary will be within the grade according to
experience.

The appointment is superannuable and is subject to medical examination. Applications, giving full details of age, qualifications and experience, and the names of two referees, should be received by me by 10 a.m., Monday, the 25th April.

PHILIP S. RENNISON,

Town Clerk.

Town Hall, Bolton.

WEST SUFFOLK COUNTY COUNCIL COUNTY ARCHITECT'S DEPARTMENT Applications are invited for the following appointment:—SENIOR ASSISTANT ARCHITECT, at a salary in accordance with Grade V (A.P.T.) of the National Scales of Salaries—£1,230 × £55 × £50—£1,375. Commencing salary will be according to experience.

(450-£1.375. Commencing same) obtained from the County Architect. County Hall. Chichester, to whom all detailed applications must be submitted not later than 5th May, 1960. WARD. Clerk of the County Council.

County Hall,
Chichester.

ASSISTANT QUANTITY SURVEYOR
ASSISTANT QUANTITY SURVEYOR
ASSISTANT QUANTITY SURVEYOR
Of the Royal Institution of Chartered Surveyors
(Quantities) for unestablished post in Chief
Quantities) for unestablished post in Chief
Quantity Surveyor's Branch, Ministry of Finance.
Experience in "taking off" for large building
works essential. Salary scale £805—£1,260, entry
point according to age and experience. Prospects
of permanent and pensionable appointment. Preference for ex-Servicemen. Application forms,
obtainable from Director of Establishments, Room
271, Stormont, Belfast, to be completed and returned by the 20th April, 1960.

9294

ARCHITECTS (up to £1,135) (under review) required for Housing, Schools, General and Special Works Divisions. Full and varied programme of new work including schools, multistorey flats and Town Development. Starting salaries according to qualifications and experience.

Particulars and application form from Hub Particulars and application form Council (E AJ/496/4a), County Hall, S.E.1.

COUNTY BOROUGH OF GATESHEAD Applications are invited from suitably qualified persons for the following positions in the Borough Surveyor's Department to work mater the CHIEF ARCHITECT upon an interesting programme of Educational. Housing and Multi-Storey Flats, and Public Buildings.

(a) PRINCIPAL ASSISTANT ARCHITECTS. Scale "A" (£1,290 × £50 to £1,390).

(b) SENIOR ASSISTANT ARCHITECTS, A.P.T. V (£1,220 rising to £1,230).

(c) ASSISTANT ARCHITECTS, A.P.T. IV (£1,56) rising to £1,220).

(c) ASSISTANT ARCHITECTS, A.P.T. IV (21.06) rising to £1,220).

(d) SEN1OR QUANTITY SURVEYOR. A.P.T. V (£1,220 rising to £1,375).

(e) SEN1OR ASSISTANT QUANTITY SURVEYOR. A.P.T. IV (£1,065 rising to £1,220). Salaries within the above scales, according to qualifications and experience. Local Government experience not essential.

In suitable cases housing accommodation will be made available at an economic rent, and pleasant Post War Estates.

Posts pensionable, medical examination, and subject to one month's notice.

Application forms and details obtainable from the Borough Surveyor, Swinburne Street, Gateshead, 8, must be returned to him by the 30th April, 1960. Application of the Emgaged industrial sgn. show the opposite comments of the comments of the state of the sta The sa rensional

C. D. JACKSON, Town Clerk

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Town Hall, Gateshead, 8. 1st April, 1960.

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LONDON COUNTY COUNCIL ARCHITECT'S DEPARTMENT ARCHITECT'S DEPARTMENT Tasks include three-dimensional planning in Comprehensive Development Areas and all other important areas of new development throughout London, including those associated with roughout control of the country of the country

ATCOS (FACTORIES) LTD

BUILDERS OF INDUSTRIAL ESTATES

require **Qualified Architects** and **Architectural Assistants**

who wish to secure their future by becoming key men in a building !team

These appointments in our rapidly expanding nationwide organisation, where competent design and time/ cost control are of prime importance, call for keen and experienced men who are proficient draughtsmen.

The positions occur in our offices at Leamington Spa and Tunbridge Wells, and they carry good salaries (commensurate with ability and experience) and include participation in a generous bonus scheme.

Please apply, in writing only, stating full particulars of training, experience, age and salary required, to:-

The Chief Architect, ATCOST (FACTORIES) LTD., YORK HOUSE, TUNBRIDGE WELLS, KENT.

One of the ATCOST Group of Companies

MINISTRY OF HOUSING AND LOCAL GOVERNMENT

DIRECTING GRADE ARCHITECT

There is a vacancy for a Directing Grade Architect who, on appointment, will be responsible to the Chief Architect for the organisation and supervision of the professional side of a newly created Development Group. The work of this Group, which will form part of the Ministry's architectural advisory service, will include research into the design, construction and costs of housing and of other types of local government buildings. It will be concerned in the preparation of advisory bulletins and studies as well as the carrying out of selected development projects in the housing field. The post carries a salary (men, London) of £3,000 per annument of the carrying out of the carries as a salary (men, London) of £3,000 per annument of the carrying out of the carries as a salary (men, London) of £3,000 per annument of the carrying out of the carries as a salary (men, London) of £3,000 per annument of the carries as a salary (men, London) of £3,000 per annument of the carries as a salary (men, London) of £3,000 per annument of the carries as a salary (men, London) of £3,000 per annument of the carries as a salary (men, London) of £3,000 per annument of the carries as a salary (men, London) of £3,000 per annument of the carries as a salary (men, London) of £3,000 per annument of the carrying out of salarying out of the carrying out of salarying out of salarying out of the carrying out of salarying out of salar per annum.

Candidates must be registered architects and hold pro-fessional qualifications in architecture. They should have had wide building and contract experience, including experience of new constructional techniques, combined with design ability of a high order.

Application forms may be obtained from the Secretary, Civil Service Commission, 17, North Audley Street, London, W.1 (quoting S/5124/60/8), and should be returned to him by 26th April, 1960.

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GUNTINGDONSHIRE
COUNTY ARCHITECT'S DEPARTMENT
CHIEF QUANTITY SURVEYING ASSISTANT
Grade A.P.T. V (51,220-61,375)

Applications are invited for the above appointgent from chartered quantity surveyors. The
grson appointed will be directly responsible to
the County Architect for the organisation and
sork of this section of five assistants.

Application forms may be obtained from S. M.
Bolloway, A.L.B.A., County Architect, County
Buildings, Huntingdon, and completed forms
double for turned to the undersigned by Monday, 25th April, 1960.

A. C. AYLWARD.

Clerk of the County Council.

Clerk of the County Council.

Huntingdon.

ARCHITECTURAL ASSISTANT
Applications are invited from suitably qualified
groups for the above post, which is on the staff
the Board's Architect. The Department is
graged on an extensive programme of new
mustrial and commercial building, interior destan, showroom and exhibition work, and offers
to commercial and industrial design.
The salary for the appointment, which is
grasionable and subject to medical examination,
ill be within the range of £902-£1,002 per
anum.

ill be within the range of £902—£1,002 per anum.

Applications, stating age, qualifications and querience, together with the names of two offerees, should be addressed to the Industrial Elations Officer, West Midlands Gas Board, 6, uggustus Road, Edgbaston, Birmingham, 15, 9565

BOROUGH OF EDMONTON
BOROUGH ARCHITECT'S DEPARTMENT Applications are invited for the following appointments in connection with the Council's tapital Building Programme, including multi-barey housing and public buildings, and main-mance and improvement works. Applicants dould be appropriately qualified:—

BCHITECTURAL ASSISTANTS.—Salary with-schilding.

in Special Grade 2785—21.070 plus London weighting.

IRCHITECTURAL ASSISTANTS.—Salary within Grade A.P.T. II, 2765—2880 plus London weighting.

WANTITY SURVEYING ASSISTANTS.—

RCHITECTURAL ASSISTANTS.—Salary within Grade A.P.T. II, £765—£880 plus London weighting.
Tasts Compreheroughon with the glus London weighting. ASSISTANTS.—Salary within Grade A.P.T. II, £765—£880 plus London weighting. The plus London weighting the plus London weighting. The plus London wei

athority, and be capable authority, and be capable authority. Scale "C"
(£1,385-£1,620).

The successful applicant for this Headquarters ost will be required to take charge of the letailed Planning and Design Section. He will be responsible for advising upon third-dimensional design and grouping of buildings, in a timate scale, in central redevelopment and in fivic design projects and the care and improvement of buildings under preservation orders; and mon esthetic considerations generally.

Candidates must be competent, experienced and walified designers, capable of original thought a initiating design of central area proposals and be able to give guidance to Area Officers a course of development control. They must be corporate Members of the Boyal Institute of british Architects, and should also be Corporate Hembers of the Town Planning Institute or of he Institute of Landscape Architects. They must also have had extensive allied architectural und planning experience and be capable administrators.

and planning experience and be capable administrators:

(c) SENIOR PLANNING OFFICER, A.P.T. Grade V (£1.220-£1.375).

The successful candidate will be required to work as one of two sub-section leaders in the Development Plan and Control Section at Head-quarters directly under the person to be appointed to post (a). They must be Corporate Members of the Town Planning Institute, should hold an additional appropriate professional qualification and be suitably experienced both in development plan and development control work in the office of a large local planning authority.

(d) SENIOR PLANNING OFFICER, A.P.T. Grade V (£1.220-£1.375).

The successful candidate will be required to take charge of a small section in an Area Office at Romford to deal mainly with redevelopment schemes for central areas, including civic design projects. Candidates should be Corporate Members of the Royal Institution of British Archi-

tects and the Town Planning Institute, and have had considerable allied architectural and planning experience in large redevelopment and central area schemes.

(e) SENIOR PLANNING OFFICER, A.P.T. Grade V (£1,220—£1,375).

Applicants must be Corporate Members of the Town Planning Institute and should possess another appropriate professional qualification. They should have had considerable experience in the preparation of development plans in highly urbanised areas and be capable of organising and analysing the various surveys in connection therewith.

(f) SENIOR PLANNING ASSISTANTS, A.P.T. Grade IV (£1,065—£1,220).

Vacancies as Section Heads either in the Development Plan or Control Sections at Area Offices at Chelmsford, Colchester, Romford and Wanstead.

Wanstead.

Candidates must be Corporate Members of the Town Planning Institute or other appropriate professional institution and have had considerable experience in either development plan or control work in the office of a large local planning authority.

able experience in either development plan or control work in the office of a large local planning authority.

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

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

authority LANNING ASSISTANT SENIOR PLANNING Grade (£785—£1,070). andidates should possess an appropriate the company of Economics of the company SEARCH), Special Grade (£785-£1,070). Tandidates should possess an appropriate University Degree in Geography or Economics and be prepared, if they are not already doing so, to study for the Final Examination of the Town Planning Institute. They should have had experience in Research and Survey work in the office of a large local planning authority. Five-day week; medical examination; superannuation. Day release facilities in appropriate cases. Canvassing directly or indirectly disqualifies.

qualifies.

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

9484

HATFIELD RURAL DISTRICT COUNCIL Applications are invited for appointment ARCHITECTURAL ASSISTANT. Grade A.P. II. 2765-2880 per annum, preferably wi

R.I.B.A. Intermediate.

Summary forms from and applications to Engineer and Surveyor, 82. Great North Road. Hatfield, not later than 25th April, 1960.

S. F. JAGO

Conneil Officer.

ouncil Offices, 16. St. Albans Road, Hatfield, Herts.

RURAL DISTRICT COUNCIL OF ROSS AND WHITCHURCH
ASSISTANT IN THE DEPARTMENT OF THE ARCHITECT & SURVEYOR
Applications are invited for the above appointment at a salary in accordance with A.P.T. It of A.P.T. II according to qualifications and experience. Applicants should have had experience on housing work of a local authority.
The appointment will be subject to the National Scheme of Conditions of Service for Local Authorities' A.P.T. etc. Services, to the provisions of the Local Government Superannuation Acts and to the passing of a medical examination.

examination.

Applications stating age, qualifications and experience, with the names of two referees, must be received by the undersigned not later than noon, on the 20th April, 1960.

H. B. REYNOLDS.

Clerk of the Council.

Council Offices, Woodside, Ross-on-Wye, Herefordshire.

Herefordshire. 9607

YORKSHIRE ELECTRICITY BOARD

APPOINTMENT OF ASSISTANT ARCHITECT
ON THE STAFF OF THE CHIEF ENGINEER

Preference given to applicants who are
Associate Members of R.I.B.A. Must have had
good training and adequate experience in design
and construction of modern offices, service centres,
workshops and substation buildings.

Permanent superannuable post—National Joint
Board conditions.
Salary scale—£1.180/£25/£1.305 rising to £1,445
per annum. Commencing salary according to
qualifications and experience.
Applications and experience together with the names
of two referees, should be forwarded to The
Secretary, Yorkshire Electricity Board. Wetherby
Road, Scarcroft, near Leeds, within 14 days of
the appearance of this advertisement.

9558

THE NORTH WESTERN ELECTRICITY
BOARD
THIRD ASSISTANT ENGINEER (CIVIL
ENGINEERING)
SUB-AREA ENGINEERING DEPARTMENT,
PRESTON
Applicants should be suitably qualified and have had experience in preparing sketch schemes, working drawings, specifications and bills of quantities, in connection with new buildings (offices, substations, workshops, service centres, etc.); also setting out and supervision of work on site. Membership of the Royal Institute of British Architects will be an advantage.
Salary scale: £1,025—£1,085 p.a. Grade L.10.
N.J.B. Conditions.
Applications must be made on a form to be obtained from the Manager, No. 4 Sub-Area, The North Western Electricity Board, 40/41, Lune Street, Preston, and returned to him so as to be received not later than 27th April, 1960.

to be received not later than 27th April, 1960, 9595

WILTSHIRE COUNTY COUNCIL COUNTY PLANNING DEPARTMENT SENIOR PLANNING ASSISTANT. Special Grade. Salary within the range £785—£1,070 per annum. Applicants should be Associate Members of the Town and Country Planning Institute and should have had experience in the preparation of Reports. Town Maps, Development Control Maps and Re-development Schemes, etc., together with any other duties assigned to him. Applicants should possess a motor-car. Written application, giving details of age, education, qualifications and experience together with the names of two referees should be sent to the Clerk of the County Council, County Hall, Trowbridge, by Saturday, 30th April, 1960. 9693

CITY OF PETERBOROUGH
CITY ENGINEER'S DEPARTMENT ARCHITECT'S SECTION Applications are invited for the undermentioned appointments:—
(1) TWO SENIOR ASSISTANT ARCHITECTS.

Applications are invited for the undermentioned appointments:

(1) TWO SENIOR ASSISTANT ARCHITECTS: Grade A.P.T. IV. £1,065-£1,220 per annum. Applicants for (1) should be Associates of the R.I.B.A., or its equivalent at one of the recognised schools of architecture, and for (2) to have passed the Intermediate examination R.I.B.A. The assistants appointed will work as a team and will be engaged for the completion of a redevelopment scheme adjacent to the Cathedral, estimated to cost £300,000, comprising houses, flats, maisomettes, etc. in multi-storey blocks, of framed and load bearing construction. Experience in housing and flat design and cost control will be an advantage. Possibilities exist for permanent engagement for suitable assistants.

The scheme at present is in the sketch stage and assistants are required for preparing complete working and detail drayings, etc., where good draughtsmanship and knowledge of construction are essential.

Housing accommodation will be provided if required.

Application forms, together with conditions of appointment are obtainable from Mr. L. H. Robjohn, M.B.E., A.M.I.C.E., City Engineer & Surveyor, Town Hall, Peterborough, and should be returned by 12th May, 1960.

C. PETER CLARKE, Town Hall,

Town Hall, Peterborough. April. 1960.

April. 1960.

BEDFORDSHIRE COUNTY COUNCIL invite applications from persons with experience in work of Planning Authority for post of PLANNING ASSISTANT (Development Control). A.P.T. II (£765-£880). Experience of Development Control an advantage, particularly with regard to elevational treatment. Preference given to persons studying for professional examinations. Application forms and further particulars from Establishment Officer, Shire Hall. Bedford. Closing date 28th April. 9590

Closing date 28th April. 9590

UNIVERSITY OF ABERDEEN
Applications are invited for the post of JUNIOR ASSISTANT SECRETARY to work under the Assistant Secretary for Lands and Buildings. Qualified Surveyor or Architect preferred. Initial salary £900 to £1.300, on scale rising to £1.350. Superannuation (F.S.S.U.) and child allowance.
Particulars from The Secretary, The University. Aberdeen, with whom applications (eight copies) should be lodged by 6th May, 1960. Applicants outside the British Isles may submit one copy of application. 9588

COUNTY BOROUGH OF BOLTON
BOROUGH ARCHITECT'S DEPARTMENT
Applications are invited for the nost of
QUANTITY SURVEYOR on Grade A.P.T. III.
(1880—21.965) or Special Classes (£785—£1.070).
Commencing salary according to experience
Applicants should have experience in taking
off quantities for architectural works, and
measuring for interim and final accounts. Post
superannuable, subject to medical examination.
Previous Local Government experience not essential.

Applications, giving full data.

Applications, giving full details, including ex-perience, present post and salary, and naming two referees, should be received by me not later than 25th April. PHILIP S. RENNISON.
Town Clerk.
9612

BOROUGH OF EALING Erection of 16 Flats — Lyncroft Gardens, W.13 Forms of Tender and Specification, etc. can be obtained from the Borough Surveyor on payment

of £5.
The finders to be delivered to the Town Clerk, Town Hall, Ealing, W.5, not later than 12 noon.
20th May, 1960.
E. J. COPE-BROWN,

E. J. COPE-BROWN, Town Clerk

CAMBS COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT
Applications are invited for the post of ASSISTANT QUANTITY SURVEYOR. Grade I.
A.P.T. Division, £610—£765.
Applicants should have had experience in abstracting billing and site measurements and preference will be given to an applicant who is studying for the R.I.C.S. examinations.
Applications stating age, present and previous appointments, details of training and experience, together with the names and addresses of two referees, should be submitted to the undersigned not later than April 26th, 1960.
CHARLES PHYTHIAN.
Shire Hall.
Combridge

Cambridge. 7th April, 1960.

The April. 1960.

BOROUGH OF KING'S LYNN
HOUSING ARCHITECT'S DEPARTMENT
Applications are invited for the appointment of
ASSISTANT QUANTITY SURVEYOR. Grade
A.P.T. I (£610-£765 per annum).
Candidates, who should have passed or be
studying for the appropriate Intermediate examination, will be required to assist in the preparation of Bills of Quantities, Valuations and
measurement of works in progress and settlement
of Final Accounts.
Consideration will be given to the provision
of housing accommodation. The appointment is
superannuable and subject to the National
Scheme of Conditions of Service, and to Medical
Examination.
Applications, giving age and full particulars
of experience and previous appointments, and
naming two referees, should be addressed to G.
Holmes, A.R.I.B.A., Housing Architect, Clifton
House, Queen Street, King's Lynn, not later than
Thursday, 28th April, 1960.
Canvassing disqualifies.

E. W. GOCHER,
Town Clerk.

E. W. GOCHER.

Town Hall, King's Lynn, Norfolk.

AUSTRALIA
GOVERNMENT OF QUEENSLAND
Applications are invited for appointment as
ARCHITECT, Division II, in the Queensland
Housing Commission in Brisbane. Salary minimum A£1,580, maximum A£1,655. Age limit 45
Application for

mum A£1.580, maximum A£1.655. Age limit 45 years.

Application form and further details may be obtained from the Agent-General for Queensland. 499/410. Strand. London. W.C.2. 9569

THE UNIVERSITY OF LIVERPOOL BRAUGHTSMAN required in the Fabric Maintenance Department, preferably with Architect's Office experience. £600 to £750 per annum. stating age, present position, experience, and and experience. Five and a half day week: contributory pension scheme.

Apply in writing, quoting reference Number 910 AJ to the Registrar before 21st April. 1950, stating age, present position, experience, and give the names of two referees.

WEST SUFFOLK COUNTY COUNCIL.

WEST SUFFOLK COUNTY COUNCIL
Applications are invited from suitably qualified
persons for the post of ARCHITECTURAL
ASSISTANT within A.P.T. Grade I (citol—2765).
N.J.C. Service Conditions; post pensionable,
medical examination.
One day per week will be allowed for study
at a recognised school of architecture.
Anolication forms obtainable from the County
Architect. 13. Westgate Street. Bury St. Edmunds,
to be returned as soon as possible.

SURREY COUNTY COUNCIL Applications invited for the following appoint-

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

assuming responsibility for medium to large-scale contracts.

GRADE II (£765—£880 p.a. plus up to £30 p.a. London Allowance, according to age).

ARCHITECTURAL ASSISTANTS: Must be of good general training. Preference given those who have passed intermediate R.I.B.A. Candidates will be appointed at the appropriate point within the scale according to age and ability.

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

BOROUGH OF LEYTON
(in the County of Essex)
COMMITTEE FOR EDUCATION
APPOINTMENT OF ARCHITECTURAL
ASSISTANT
Applications are invited for the permanent appointment of Architectural Assistant, Grade A.P.T. II (2765-2830 per annum, plus London weighting). The successful applicant will be employed by the Essex County Council, and will work in the School Architect's Section of the Borough Engineer & Surveyor's Department, Town Hall, Leyton, E.10. Five-day week is operated.
Details and forms of application from the Borough Education Officer, Education Offices, Kirkdale Road, Leytonstone, E.11, to whom they should be returned within 10 days from the appearance of this advertisement.

D. J. OSBORNE,
Town Clerk.

Town Hall, Leyton, E.10.

Leyton, E.10.

HOLLAND COUNTY COUNCIL (LINCOLN-SHIRE) invite applications for the appointment of a SENIOR ASSISTANT ARCHITECT, Grade A.P.T. IV, £1,0665—£1,220 p.a.

The Council have a varied and interesting programme and the successful applicant will be required to work within a "Group" system, where enthusiasm, initiative and contemporary outlook are required.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, the N.J.C. Scheme of Conditions of Service and a medical examination.

The County Council would consider making a contribution towards the cost of removals.

Forms obtainable from the County Architect. should be returned to the Clerk of the County Council, County Hall, Boston, Lines, by 25th April, 1960.

LAMRETH BOROUGH COUNCIL
HOUSING DEPARTMENT
ARCHITECTURAL ASSISTANTS are required
for work on a wide variety of housing schemes,
including new buildings and conversions. Appointments will be made in A.P.T. grade II (£765 p.a.
to £880 p.a.) and in A.P.T. grade III (£880 to
£1,065 p.a.) according to experience; plus London
weighting £20/£30 p.a. according to age). A
professional qualification will be an advantage.
Applications to Director of Housing, 65/67,
Brixton Hill, S.W.2 (quote ref. 118a).

HAMPSHIRE COUNTY COUNCIL
ASSISTANT ARCHITECT. A.P.T. Grade IV
(£1,065—£1,220), required for pensionable post in
office of the County Architect. Candidates must
have passed the Final examination of the
R.I.B.A. and have had considerable experience,
preferably in the office of a Local Authority.
Assistance with removal and other expenses in
approved cases. Five-day week. Canteen facilities.
Application forms (send s.a.e.) returnable by
25th April, from Clerk of the County Council.
The Castle, Winchester.

Architect

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BOROUGH OF EALING
TWO ARCHITECTURAL ASSISTANTS, within scale A.P.T. IV according to experience (£1,85 to £1,250 inclusive). Must hold recognised architectural qualifications.
Full particulars and application forms from Borough Engineer, Town Hall, Ealing, W.S. Closing date 18th April, 1960.

E. J. COPE-ISROWN,
Town Clerk

CORPORATION OF GLASGOW
ARCHITECTURAL AND PLANNING
DEPARTMENT
A new planning team is being set up to study
the planning problems of the City Centre in
volving the preparation of schemes for seven
Major Comprehensive Development Areas and the
Inner Ring Road—a four-mile-long Urban Motor
way.

Applictions are invited from enthusiastic QUALIFIED PLANNERS interested in the architectural, engineering or statistical aspects of the problems involved.

The work will provide scope for initiative in preparing details for schemes on which constructional work is intended to start as soon as possible.

possible.
Salary scale of £795 to £1,240 with placing according to experience.
Apply to City Architect and Planning Officer, 20, Trongate, Glasgow, C.1, giving details and names of referees.

CITY OF LEICESTER
CITY ARCHITECT'S DEPARTMENT
ARCHITECTS interested in modular co-ordination and prefabricated systems of building are rollinited to apply for the post of ASSISTANT ARCHITECT. Grade A.P.T. IV (£1.05-61.20).
The post will be concerned with research and development of C.L.A.S.P. building and will should be authorities.

authorities.

Previous local government experience not essential. Housing accommodation at an economic rent will be provided if necessary. National Conditions of Service apply.

Applications with the names of two referees should be sent to the undersigned not later than Monday, 25th April, 1960.

J. H. LLOYD OWEN.

City Architect.

Leicester.

AIR MINISTRY require Junior and Senlor WORKERS UP in Quantities Division in London. Must be fully experienced and competent to work up entire Bills of Quantities. Candidates must hold O.N.C. or C. & G. (Quantities) or equivalent technical qualification. Financial assistance and time off given for recognised courses of study. Promotion and pension prospects. Five-day week with 18 days paid leave a year initially. Salary ranges (Junior) from £720 (at age 26) to £900 and (Senior) £794 (at age 26) to £900 and (Senior) £794 (at age 26) for £900 and (Senior) £794 (at age 26) to £1065. Applicants, who must be natural born British subjects, should write stating age, qualifications and experience to the Manager (P. E.1254). Ministry of Labour. Professional and Executive Register, Atlantic House, Farringdon Street, London, E.C.4. No original testimonials should be sent.

BOROUGH OF BASINGSTOKE

BOROUGH OF BASINGSTOKE
A SENIOR ASSISTANT is required in the
Architect's Department for housing and general
work in this rapidly expanding town.
Applications are invited from Associates.
R.I.B.A., who have had considerable housing
experience: salary range £785-£1.070 according
to experience. House of flat available. N.J.C.
conditions. Post pensionable. Medical examination.

to earness to the conditions. Post pensions tion.

Details giving age, training, experience, etc., and names and addresses of three referees to be sent to the Borough Architect. Eric Almond, Dipl.Arch. A.R.I.B.A., Municinal Buildings, Basingstoke, Hants, by the 2nd May, 1960.

Basingstoke, Hants, Ba

design in *stone

The skill of our craftsmen is being exploited by an increasing number of quality-conscious architects, for whose guidance we have prepared technical literature (to A4 size, of course) covering a number of applications - the latest being FIREPLACES

HIGH FELL Westmorland Green Slate ORTON SCAR Limestone

Limestone & Green Slate Slab Co (Westmorland) Ltd. Phone Kendai 1246 Appleby Road Kendal

Architectural Appointments Vacant

per line minimum 12s. Box Number, including forwarding replies 2s. extra.

TWO ARCHITECTURAL ASSISTANTS required—Intermediate R.I.B.A. standard—so have had good office experience. Salary sommodation could be provided. Reply, giving uticulars of age and experience and salary suired, to: Francis W. Keyworth, L.R.I.B.A. Park Road, Melton Mowbray, and 31, Friat Ing., Leicester.

RCHITECTURAL ASSISTANT required, beresting work. Good draughtsmanship, sound to the second series of the second draughtsmanship, sound to the second draughtsmanship, so the second d

RCHITECTURAL ASSISTANTS required in A busy Bloomsbury office with varied practice, faid salary and prospects for suitable applicants. Index week. Write giving particulars of age, milfications, experience, etc., to Box 910, c/0 7, mile Street. W.C.1.

OBLIC Street, W.C.I.

OBNIOR ARCHITECTURAL ASSISTANTS rey quired in salary range £700—£1,000 to take alrol of varied and interesting jobs of all all fittings and good presentation draughtsmanib an advantage. Five-day week, excellent wring conditions and holidays. Please write, ring full details of experience and qualifications, to Deacon and Laing, 65, Goldington Road, 267674.

SSISTANT ARCHITECTS required by firm I with offices in Middlesbrough and Billing neon-Tees. The work is interesting and of concernible variety. Salary according to experience a sbility. Elder and Lester, A./A.R.I.E.A. asvenor Buildings, 65, Albert Road, Middlessee.

A SSISTANTS required capable of taking responsibility for the preparation of working
swings and supervision of contracts. Interesting
spects with opportunity to gain worthwhile
perience. Telephone Mayfair 3111 for appointsal or write giving details of experience to
the sasso.

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

DEVEREUX & DAVIES require capable and enthusiastic ASSISTANT ARCHITECTS that \$21,000 per annum or according to experite and ability. 3, Gower St., Bedford Sq., adon, W.C.1.

H. WATKINS, GRAY & PARTNERS
• require ASSISTANTS of Intermediate

Final standard, Pension scheme and luncheon
mehres. Salary range £700 to £900. Apply 57,
therine Place, London, S.W.1. 8720

ONALD WARD & PARTNERS have immediate vacancy for ASSISTANT ARCHIETS with initiative and some experience, for treesting, commercial, industrial and civiliances. Salaries commensurate with ability, bly, 29, Chesham Place, S.W.1. BELgravia 5638

REHEARNE & NORMAN, PRESTON & PARTNERS have vacancies for ARCHI-TTS and ASSISTANTS with imagination and mining ability to assist with important new mooments in the London area. Apply in mideince to 83, Kingsway, London, W.C.2.

MIL. 407.1.

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RCHITECTURAL ASSISTANT (Intermediate A standard) required, capable of making site reys, preparing sketch plans, working drawns and specifications. Please apply, stating R. experience and salary required, to R. E. IERMAN, P.R.I.B.A. Chief Architect. United biries Ltd., 31, 8t. Petersburgh Place, W.2.

A SSISTANT ARCHITECT required by Hasker & Hall, L/F.R.I.B.A., for responsible position in their London office, 13, Welbeck Street, W.l. (WEL 00bl.)

tion in their London office, 13, Weibeck Street, W.1. (WEL. 00b.)

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

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

VACANCIES exist for ASSISTANTS of Pre-Intermediate to Final Grades. Salary Range 2500—2500 per annum. Interesting work and good prospects. Apply in writing to: H. Hubbard Ford, F.R.I.B.A., 35 South Audley Street, London, W.1.

ONRO AND PARTNERS require ARCHITERIA R.I.B.A. standard in their London, Watford, and Glasgow offices for work on interesting industrial and commercial projects. Salary range £800—21,000 p.a. Non-contributory Pension Scheme. Five-day week. Apply in writing to 32, Clarendon Road, Watford.

ENIOR ASSISTANT urgently required for pleasure of the Control of the property of the property

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SELY & PAGET have immediate vacancy in their City office. Standard near Final R.I.B.A. with office experience. Holiday arrangements respected. Salary range £242 × £52 (4)—£1,050 plus luncheon wouchers. Write 41, Cloth Fair, E.C.1, or telephone MET 851. 9135

E.C.1, or telephone MET 8511. 9155

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

MORBIS DE METZ, F.R.I.B.A., requires an assistant for interesting work. Salary from 2950 according to ability and experience. 29, Gloucester Place, W.I. Telephone HUNT 2881/3.

TOUR-FIGURE SALARY. SENIOR ASSISTANT required in Architects' West End office. Varied interesting work. Applicants must be capable of taking responsibility and controlling drawing office team. Box 996.

NOUR-DAY WEEK. Opportunity for Juniors and/or post Intermediate Students to keep and the students of the street work including Schools, Hospitals, and Public Houses, Good salary according to qualifications and experience. Five-day working and overtime when desired, luncheon vouchers. Appointment by telephone ROYAL 6216. Stewart Hendry & Smith, F.F.B.I.B.A. A.M.T.P.I., 90, Fenchurch Street, 2995

London, E.C.3.

N January I recommended a London firm of Architects and as a result several senior assistants have joined the staff. There are still vacancies in this First Rate Practice, I invite anyone interested to visit us by appointment for an informal discussion when I will give opportunities to see work in progress and the general method of working. This invitation is open to all grades of assistants and to final year students who think of starting work this Summer. Profit sharing and Pension schemes are available. Salaries are realistic and regularly revised. Write Box 2020 or 'phone Hunter 1711.

Write Box 9202 or 'phone Hunter 1711.

SIR ALFRED MCALPINE & SON LIMITED ARCHITECTURAL STAFF. Vacancies for Intermediate and qualified ARCHITECTURAL ASSISTANTS and experienced ARCHITECTURAL OF ARCHITECTURAL DRAUGHTSMEN. Varied commercial and industrial works. Salary according to experience. Hours 9.00 a.m. to 5.20 p.m. and 9.00 a.m. to 12.00 noon alternate Saturdays. Staff Canteen. Apply by post to -F. H. Marvan, A.R.I.B.A. Sir Alfred McAlpine & Son Ltd., Hooton, Little Sutton. Wirral. Cheshire.

ASSISTANTS required. Intermediate to Final standard, with minimum two vears' office experience. Small busy practice. Please apply R. Jelinek-Karl, F.R.I.B.A. 6, Buckingham Street. W.C.2.

SSISTANTS required in Croydon area.

Street, W.C.2.

A SISTANTS required in Croydon area.

Intermediate or near Intermediate standard, to assist on varied and interesting projects. Prive-day week. Two weeks beliday this year. Apply giving details of education, experience and salary required. Box 9390.

CROYDON. ARCHITECTURAL ASSISTANTS ings and details for large scale projects. Salary according to experience. Five-day week. Holidays this year. State training and experience. Box 9391.

A RCHITECTURAL ASSISTANTS required, capable of carrying through a variety of contracts from rough sketch stage to final account. Plenty of scope for people with initiative. Telephone MAYfair 9556 for appointment or write Box 9404.

A RCHITECTURAL ASSISTANTS of Final or Intermediate standard required by London Architects with varied practice. Salary by arrangement. Five-day week. Ring WHI 2552 for interview.

GUY MORGAN & PARTNERS require ARCHITECTURAL ASSISTANTS in their London office, Salary range £750—£1,200 per annum. Please telephone BELgravia 4581 for appointment.

appointment.

JAMES A. ROBERTS, A.R.I.B.A., requires
Intermediate and Final standard ASSISTANTS, salary range £750-£1,200 depending
upon ability, experience and personality. Interesting and varied work with scope for initiative
and responsibility. Please write: 86, New Street,
Rirmingham, 2. 9395

and responsibility. Please write: 86, New Street, Birmingham, 2.

A RCHITECTURAL ASSISTANT able to prepare working drawings and details from sketch plan stage, required by Sparrow & Clater, F./A.R.I.B.A., 52, North Hill, Colchester. Salary commensurate with experience. Write stating age, full details of training, etc.

CERALD LACOSTE & PARTNERS required ASSISTANTS, Salary according to experience. 5-day week. Holiday arrangements respected. Telephone: WEL: 5758 or Write 40/42, George Street, W.I.

URGENTLY Required: ARCHITECTURAL ASSISTANTS, Intermediate and Final Standard, for Small Contemporary Office. Top Salaries according to Experience and Qualifications. E. Norman-Bailey & Partners, Ring Victoria 7088 for appointment.

NORMAN & DAWBARN require experienced ard overseas. Applicants should be interested in good design. Salaries from 9900 upwards. Phone or write for an appointment to: 7 Portland Place, W.J.

PICHARD SHEPPARD, ROBSON & PART.

RICHARD SHEPPARD, ROBSON & PART-NERS require ARCHITECTURAL ASSIS-TANTS. Intermediate or Final standard. 5 South-ampton Place, W.C.1. CHAncery 4261.

SENIOR ARCHITECTURAL ASSISTANT

required for special duties in Dorset, preferably qualified and experienced in Industrial Design and alteration work. Salary range £900/£1,000 p.a. according to age and experience.

also DRAUGHTSMAN

Salary range £750/£850 p.a.

Five-day week. Reply with full details, age and experience to Box No. DL6268, c.o Whites, 72, Fleet Street, London, Q471

A RCHITECTURAL ASSISTANT required.
Salary scale £700—£900 per annum. Excellent opportunity offered to suitable applicant. Five-day week. Superannuation scheme in operation. Write giving full particulars of experience to Sandon & Harding, A./A.R.I.B.A., 14. Lower Brook Street, Ipswich.

KEEN, energetic ASSISTANT ARCHITECTS required to receive good salaries in progressive and contemporary-minded Architects' offices. The appointments offer considerable scope and a superannuation scheme is available. Apply in writing to Chippindale & Edmondson, Chartered Architects, Empire House. Piccadily, Bradford 1.

Bradford 1. 9438

ARCHITECTS AND ASSISTANTS. Telephone NOW, Wrexham 4161, or write, H.
Anthony Clark, F. C. Roberts & Partners, 41.
Regent Street, Wrexham, North Wales. Interesting variety of high standard work. Exercise of
initiative and responsibility encouraged. Capabilities will be recognised by remuneration up to
£1,000 p.a. 9441

TRIPE & WAKEHAM, Chartered Architects, require ASSISTANTS in all grades to work in their London office on interesting projects both in this country and abroad. Salary by arrangement. Telephone WELbeck 7744 or write to 16, Fitzhardinge Street, London, W.1. for an appointment.

TRIPE & WAKEHAM. Chartered Architects, require a SENIOR ASSISTANT to supervise construction of interesting and important project abroad. Salary by arrangement. Telephone WELbeck 7744 or write to 16. Fitzhardinge Street. London. W.1. for an appointment. 9444

MULTIPLE Store Group requires INTER-MEDIATE ASSISTANT with either the experience or interest in shop design. Salary 6900—61.000 per annum. Box 9446.

A RCHITECTURAL ASSISTANTS required with housing experience in all or any of the following aspects: design, construction, detailing and planning, Excellent opportunities for keen and enterprising types in a rapidly expanding organisation operating throughout the country. Good conditions of service but housing not provided. Salary commensurate with experience and ability. Write to the Secretary, The Homeville Company Ltd., 12, Craufurd Rise, Maidenhead.

ARCHITECTURAL ASSISTANTS of Intermediate and Final standard are urgently required in our Halifax and York Offices. Please apply in writing giving full particulars to Richard Pickles & Partner, A./A.R.I.B.A.. Chartered Architects, 1, Harrison Road, Halifax.

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A N experienced ARCHITECTURAL ASSISTANT, holding Intermediate R.I.B.A. required immediately for established firm on the South Coast. Opportunity presented to obtain further experience on various large contracts. Salary bracket £750-£850 p.a. Write stating age and experience, Thomas, Jolly, Grant & Kelsey, 26, Kent Road, Southsea, Hants.

A RCHITECTS and ASSISTANT ARCHITELTS and ASSISTANT ARCHITELTS and civic projects. Responsibility and initiative encouraged, Five-day week, good salary commensurate with ability and experience. Romald Ward & Partners, 29, Chesham Place, S.W.I. BELgravia 3361.

S.W.1. BELgravia 3361.

ARCHITECTURAL ASSISTANTS, all grades, required for interesting and varied private practice with principal office in Guildford, Reply stating age, experience, and salary required to Box 9459.

A RCHITECTURAL ASSISTANT for interest ing and varied work, Intermediate standard. Good conditions and prospects. Five-day week Salary up to £300. Doffman & Leach. A./ A.R.I.B.A., 17, Wolverhampton Road, Stafford, 9467

PDWARD D. MILLS & PARTNERS require further ASSISTANTS for positions of responsibility on interesting work in England and abroad. Write with full details to 9-11. Richmond Buildings, Dean Street, Soho, London. W.1.

A RCHITECTURAL ASSISTANT required of Intermediate standard, capable of working with minimum of supervision. Salary £650-£850 according to experience. Apply to: 8. Dodson & Son. L./A.R.I.B.A., Museum Buildings, Priestgate. Peterborough, Northants.

gate. Peterborough. Northants.

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LITLEWOODS MAIL ORDER STORES
LIMITED require ARCHITECTS AND
ASSISTANTS.
We have a large and varied building programme and wish to increase our present number
of qualified Architects.
We also need Architectural Assistants of Inter
A.R.I.B.A. or at least H.N.C. standard.
Salary will be generous and will depend upon
qualifications and experience.
Other conditions include a good Pension Scheme
and five-day week.
Applications to:—
Employment Manager,
(Ref. A & A/38/AJ).
Littlewoods Mail Order Stores Ltd.,
Spinney House,
Church Street,
Liverpool, X.

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A BCHITECTURAL ASSISTANTS, Junior and Intermediate level, required for Manchester Office of Bank Architect's Department, having an extensive programme of new construction and improvements. Applications, giving age, experience and salary required, to Box 9287.

O PPORTUNITY for first class ARCHITECTS with initiative to take responsibility for a variety of contemporary work. South Yorkshire area. Salary according to ability. Bonus, Pension and Life Assurance Schemes. Travelling, removal and interview expenses paid. Box 9292.

removal and interview expenses paid. Box 9292.

Senior Architects
Assistant Architects
Assistant Architects
Architectural Draughtsmen

THE Cruden Design Service have vacancies in their Architects' Department, for work on major multi-storey housing and school projects. Students requiring summer vacation work and students qualifying this year are invited to apply. Write with full details to:
Joint Chief Architect, Crudens Limited,
Musselburgh
(near Edinburgh). Tel. 2244. 9489

ASMALL EXPANDING PRACTICE in Hampstead carrying out varied and interesting projects require the services of a QUALIFIED ARCHITECT. also as intermediate standard ASSISTANT, ages 253, with drive and intiative willing and able to severe responsibilities in projects require the services of a QUALIFIED ARCHITECT. also as intermediate standard items willing and able to severe responsibilities of age, experience and salary required to Kennetky Road. London, N.W.S.

ARCHITECTS and Students interested in

C. Saunders, Lymington Mod. Road. London, N.W.3. 9333

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

PROGRESSIVE and expanding building and civil engineering organisation requires the services of an ARCHITECTURAL ASSISTANT in their Housing Division, Applicants should be experienced in the design and execution of working drawings in connection with Housing and Flat Development Schemes. Permanent and progressive position. Pension and Luncheon Voucher Schemes. Salary according to ability and experience. Write or 'phone: Percy Bitton Ltd., Bilton House, 54-58. Uxbridge Road, Ealing, W.5. Tel.: EALing 7777. 9289 PROGRESSIVE and expanding building

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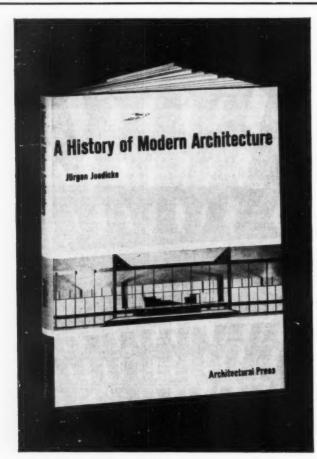
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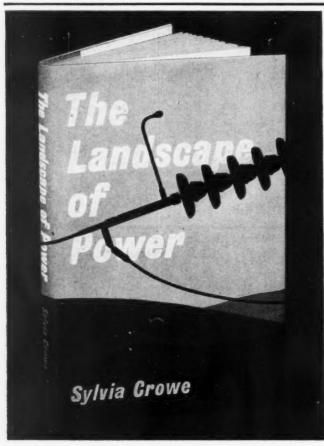
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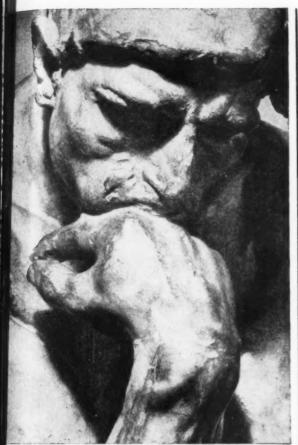
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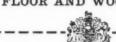
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