BUILDING EXHIBITION NUMBER

The Architect's Journal for November 15, 1961 Vol. 134 No. 20 1s.



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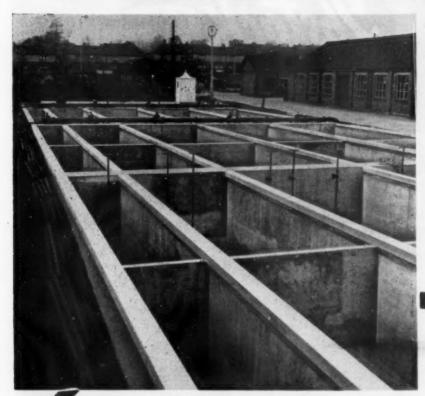
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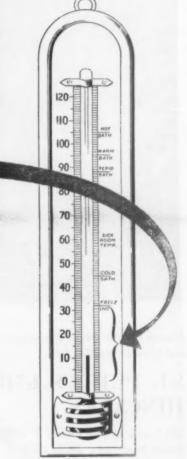
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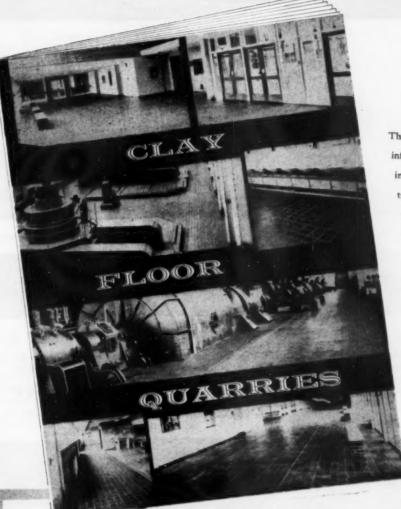
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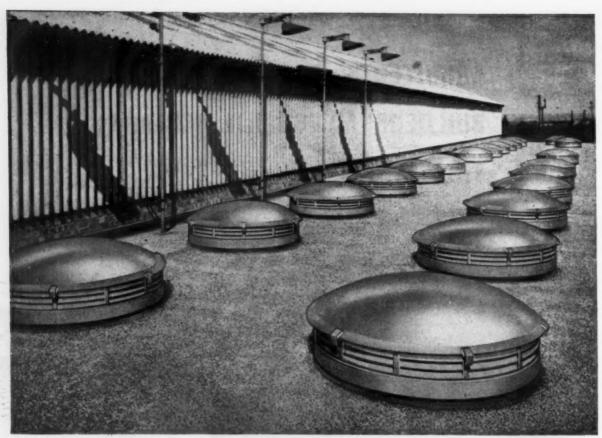
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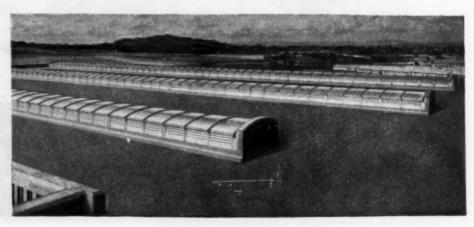
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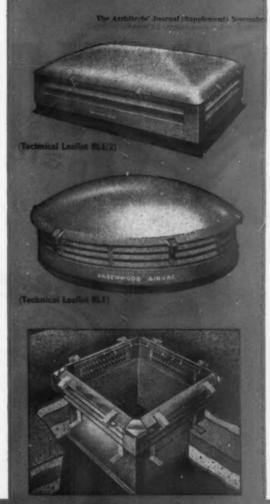
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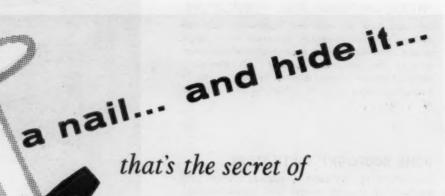
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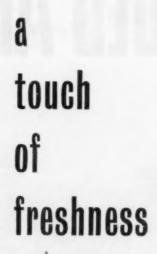
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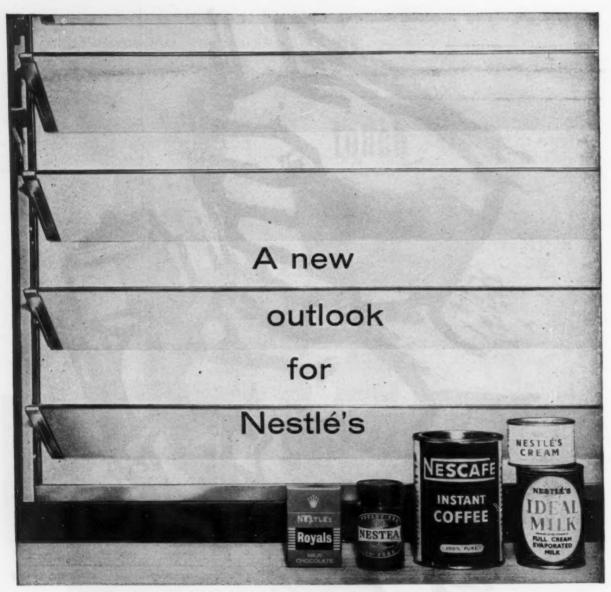


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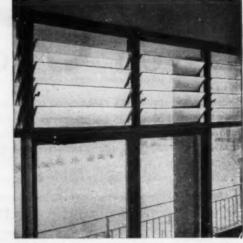
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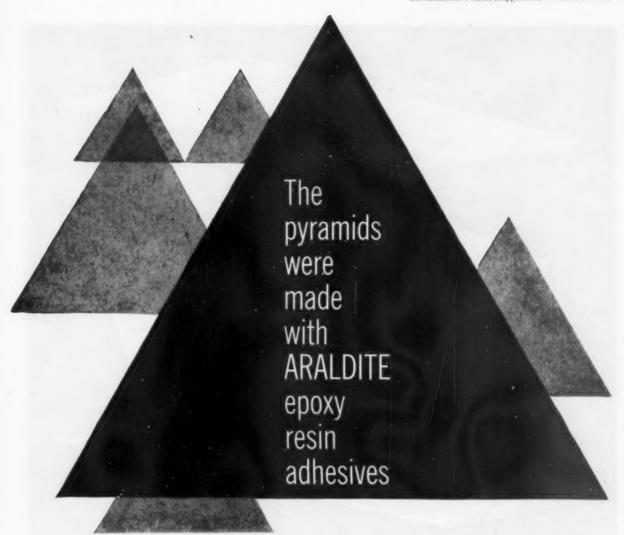
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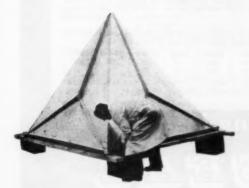
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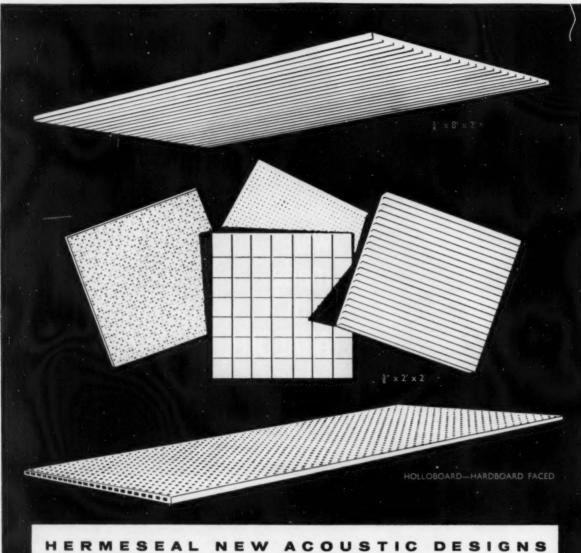
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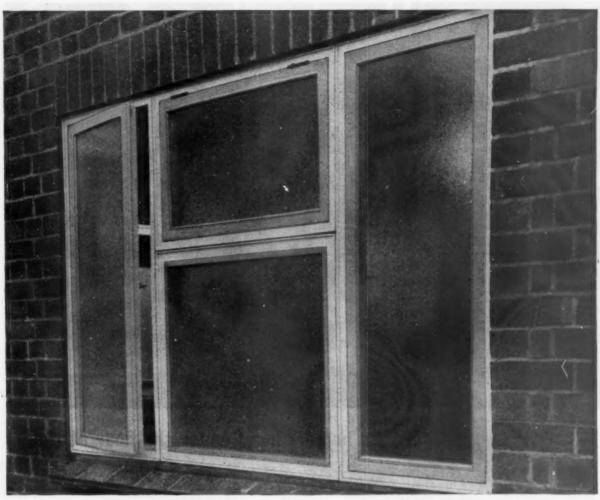
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ROW B

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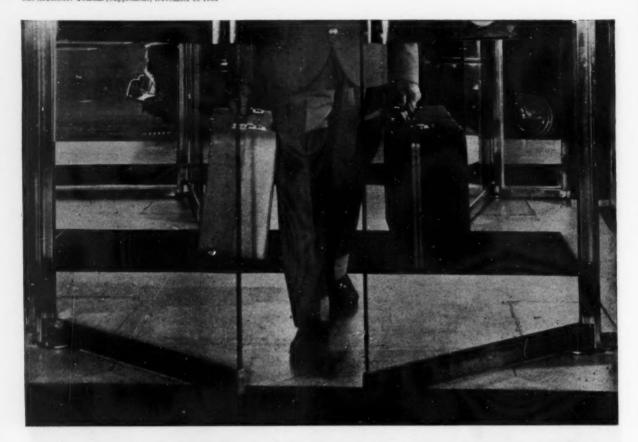
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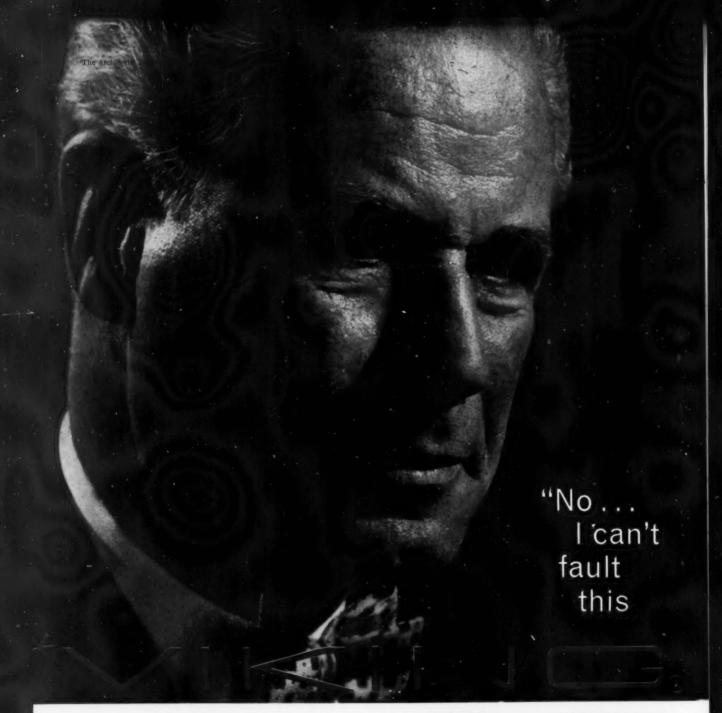
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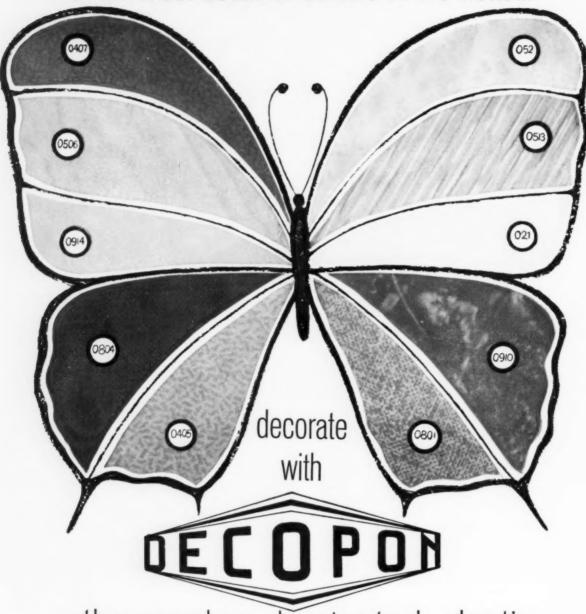
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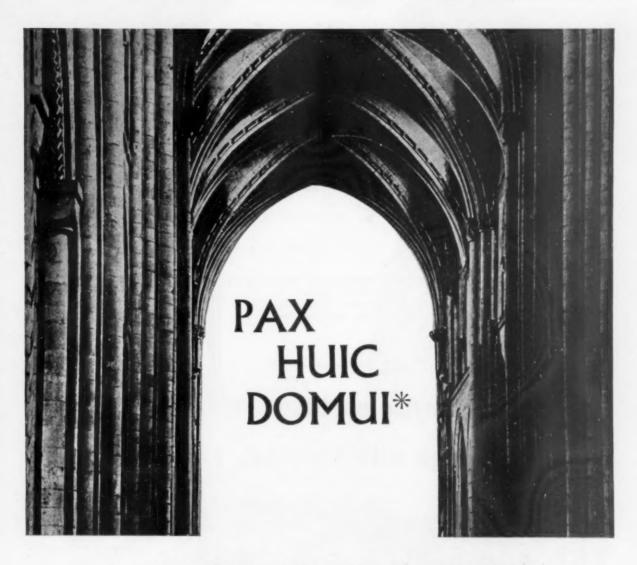
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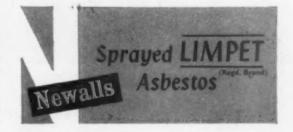
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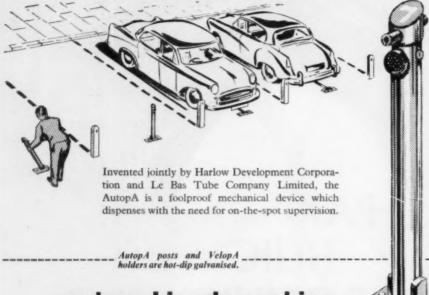
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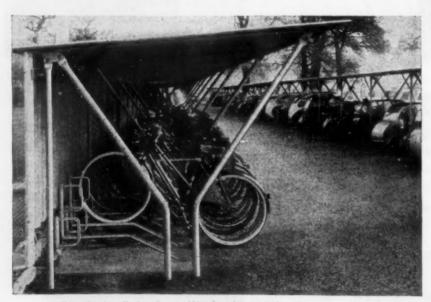
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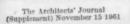
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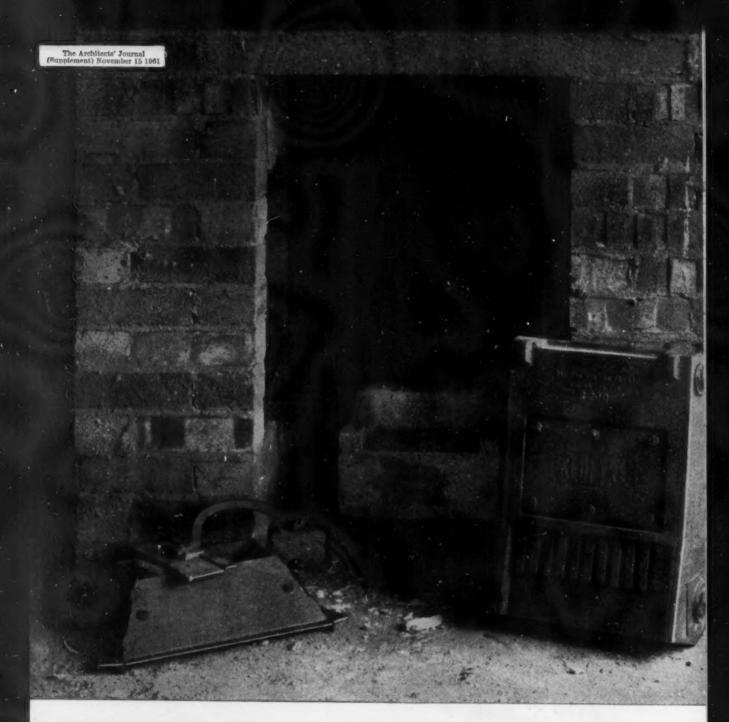
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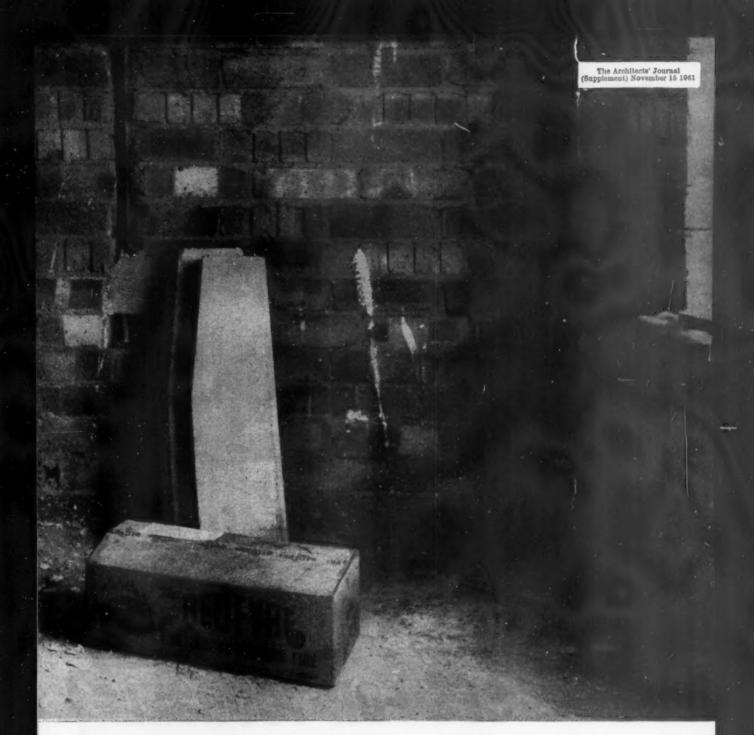
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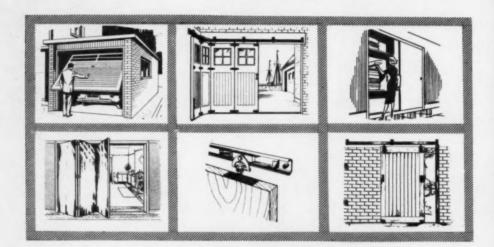
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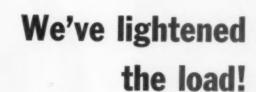
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SANITATION IN HOTELS AND RESTAURANTS

"Methought a voice within the tavern cried
"When all the temple is prepared within
Why nods the drowsy worshipper outside?"

Omar Khayyam: Fitzgerald.

By A. F. B. Nall, A.M.I.San.E., A.M.Inst.W.

In hotels and restaurants generally as well as in those modern temples of health within—the bathrooms and washrooms, five-star amenities are impossible on a one-star budget. Faultless sanitary equipment, therefore, serves the well-being of hotelier and restaurateur equally with that of their patrons. Constant use by a continuous stream of visitors, oft inconsiderate or heavy-handed, demands a very high standard of durability, scrupulous hygiene and a most attractive appearance. Suitably impressed, today's casual hotel visitor may be tomorrow's resident; inadequate attention to comfort and cleanliness in the restaurant erases the memory of good cuisine.

Ceramic Glazed Fireclay Sanitaryware fulfils every demand of arduous duty. The exceptional strength of Fireclay, to which a vitrified glaze is fused, offers the highest resistance to careless or ham-fisted use, the glaze permanently withstanding thermal shock as well as physical strain. The minimum of easy cleaning quickly restores the original porcelain-like lustre. The elegant modern design of Fireclay appliances avoids dust and germ traps, blending aesthetic appeal with impeccable hygienic condition. A wealth of colour choice affords harmony with any and

every decorative scheme. Modern Hotel and Restaurant plans should embody the principle that comfort and health are indivisible; the protection of health demands sanitary appliances of the highest order. No longer is "h. and c. in every room" something to boast about. The aim should be a private bathroom to every bedroom, containing ideally, a bath, washbasin, w.c. suite and bidet. Shower cubicles with Glazed Fireclay receivers however, save space and conserve capital. In public washrooms the durability of Fireclay washbasins is particularly desirable, while large sized basins minimise external splashing. The clean-lined hygienic qualities of Glazed Fireclay are particularly suitable for urinal ranges where integral cisterns and buried pipework obviate metal polish and rag—and the risk of eyesores; Fireclay corbel-type w.c. pans facilitate cleaning even further.

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invite and encourage personal cleanliness.

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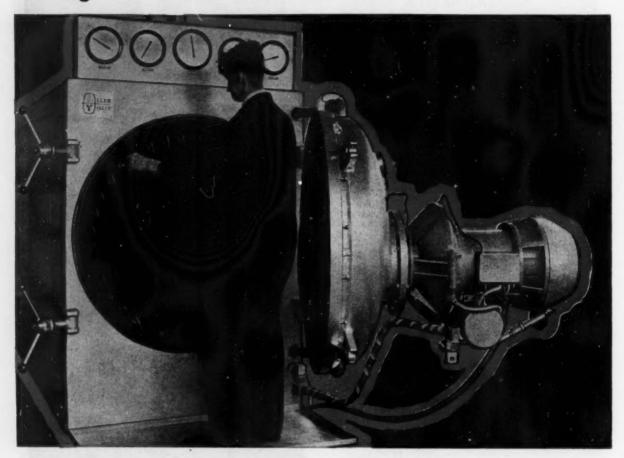
Offering the greatest assurance against broken or cracked ware and loss of amenity during replacement—with its attendant high labour costs—Fireclay prevents the creation of a bad impression, inconvenience, annoyance and possible loss of revenue. The modern—and prudent—equivalent of the tavern-keeper prepares his 'temples of health' with Ceramic Glazed Fireclay appliances. He will have no need to complain of "drowsy worshippers", who remain outside.

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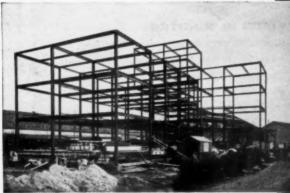
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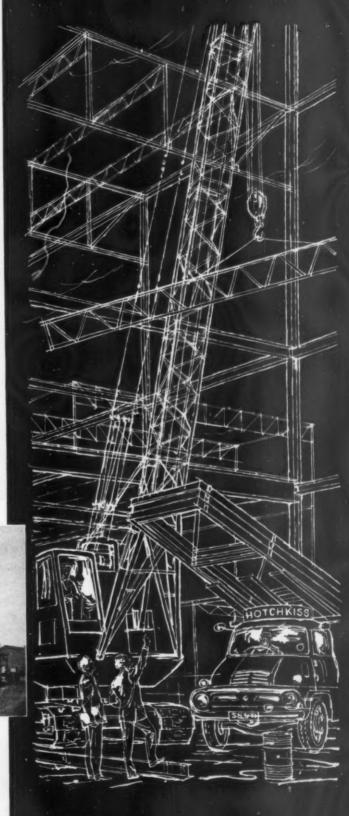
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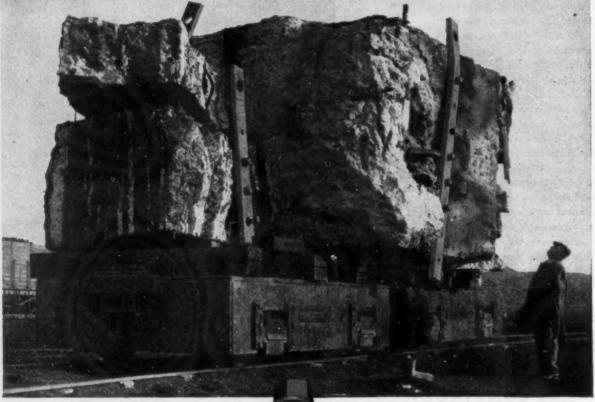
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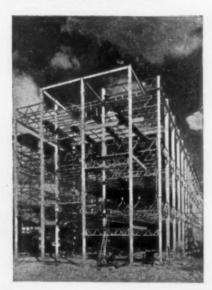
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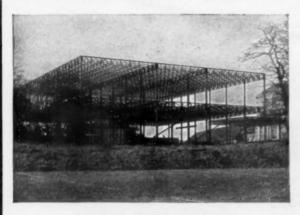
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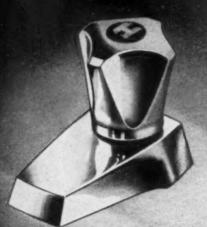
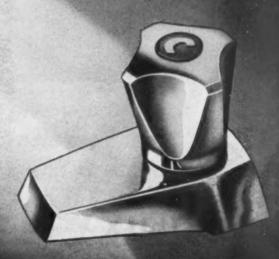
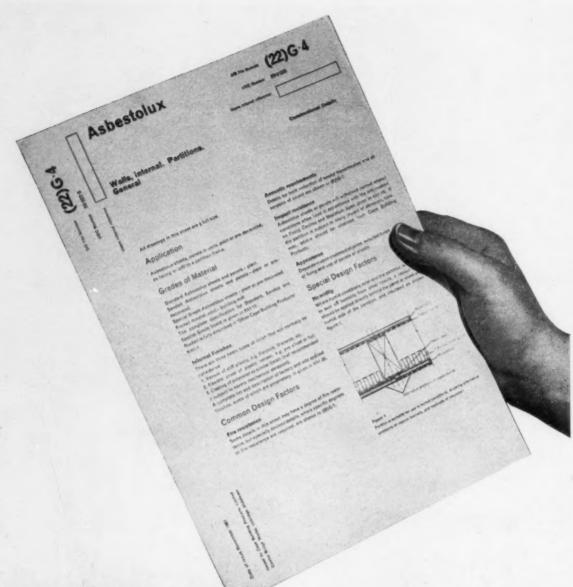


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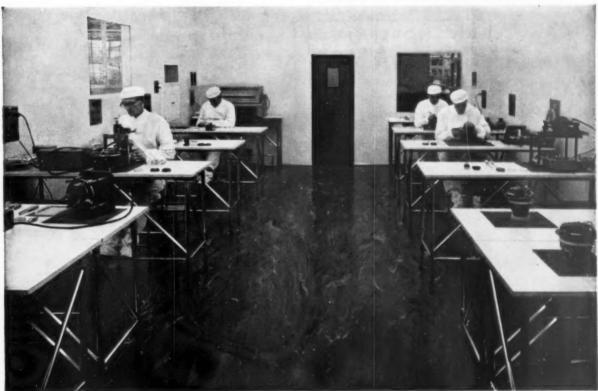
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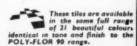
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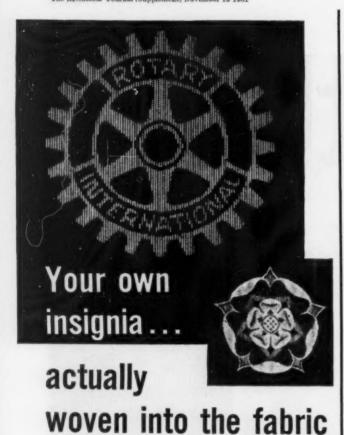
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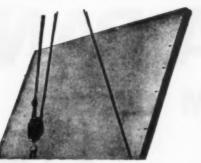




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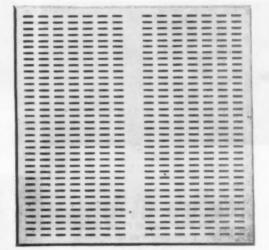
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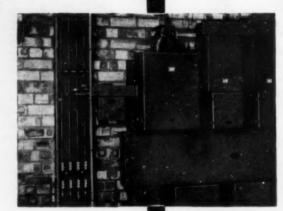


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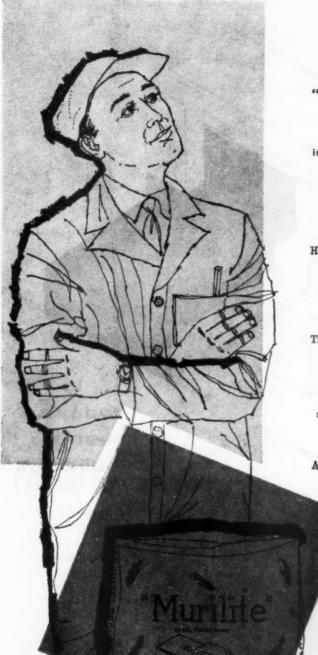


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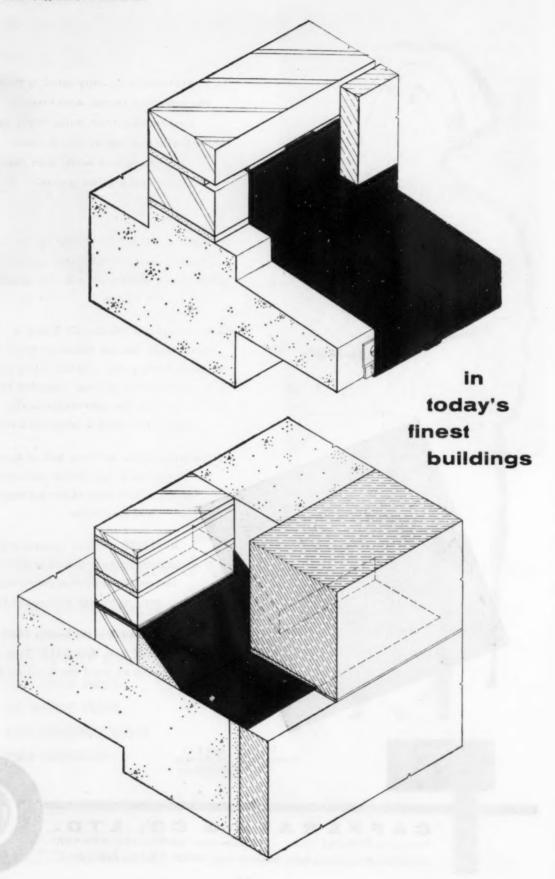


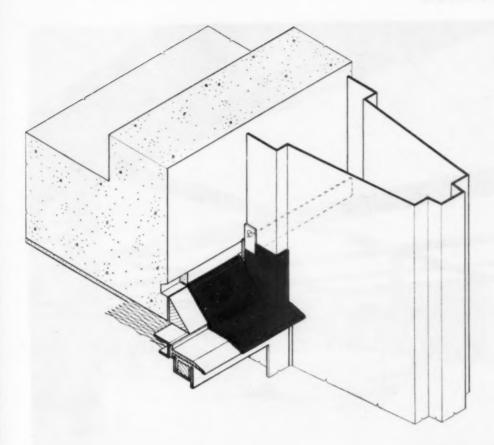
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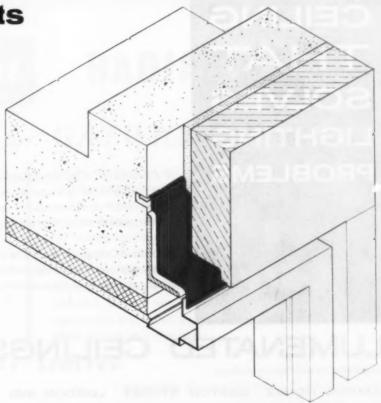
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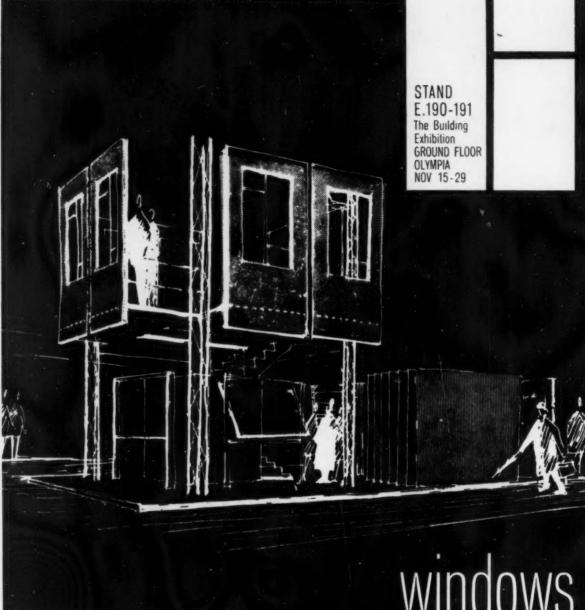
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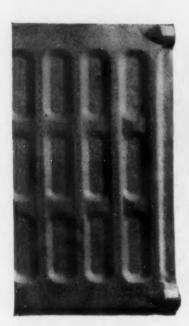




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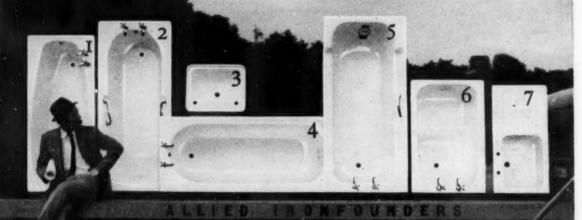
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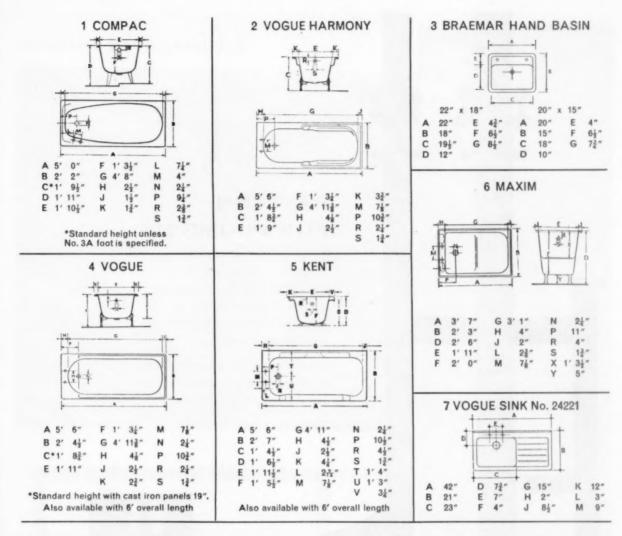
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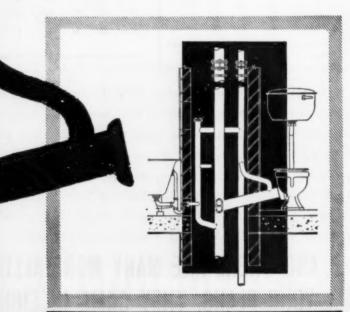
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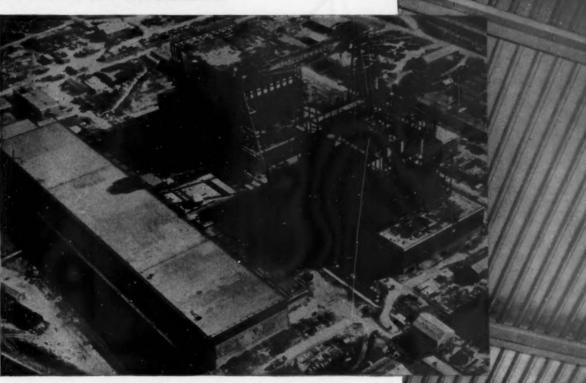
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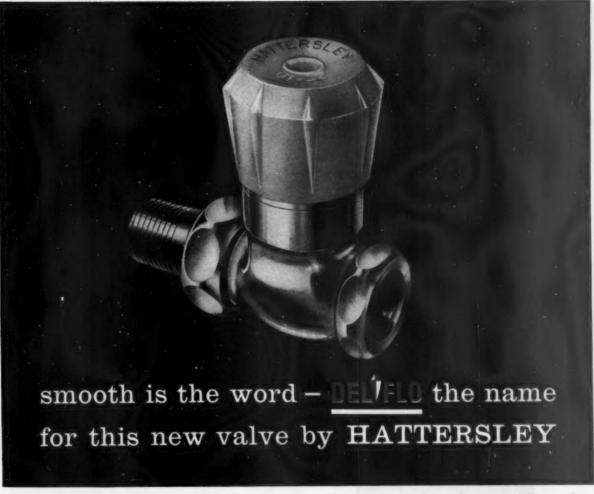
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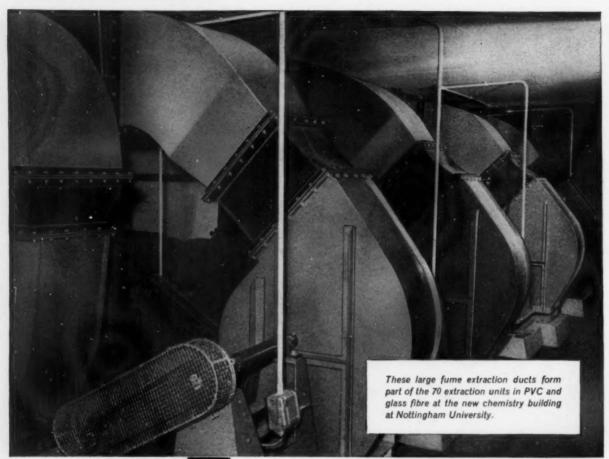
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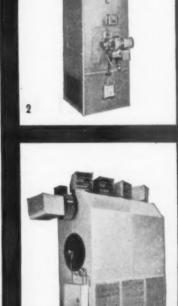
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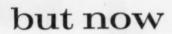
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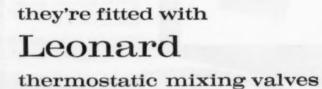
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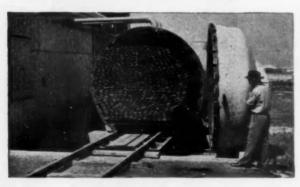
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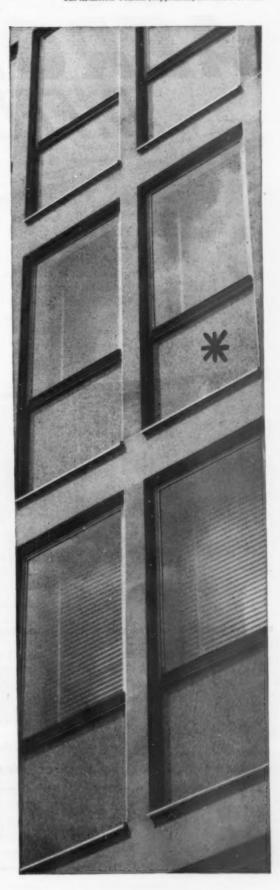
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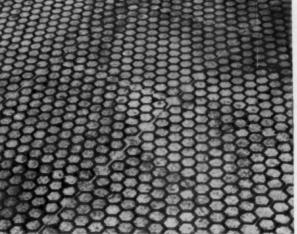
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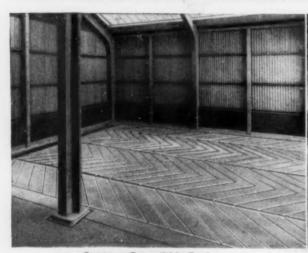


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News from Hull



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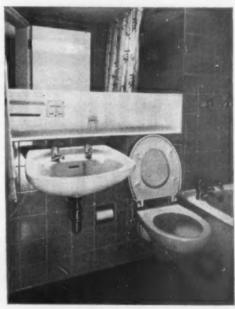
Situated not far from London Airport is the new Ariel Hotel. It is unique in appearance as it is completely circular with a courtyard in the centre and guest rooms looking both outward and inwards. The Hotel is compactly designed and contains as many as 62 rooms, with bathrooms, on one floor alone and in all has 186 guest rooms.

The Ariel Hotel caters both for motorists and passengers from London Airport. The guest rooms contain several interesting and attractive features. The beds convert to divans for daytime use, the windows are double-glazed to keep out the noise of arriving and departing aircraft, the controls for television, radio, telephone and light, separate independent control for each guest, are contained in one compact panel situated near the beds, and the rooms are air conditioned.

In the bathrooms, attached to the guest rooms, the same high standard of utility and good appearance has been maintained. Compact and easy to clean and maintain, all the bathrooms contain 'Standard' vitreous china sanitary ware. These include the elegant wall-hung Kingston

wash basin, and the Sanwall water closet. The Sanwall is supported from the wall, and stands clear of the floor—it also achieves the most attractive appearance for this type of equipment. In the larger cloakrooms, too, the Kingston wash basin has been used extensively. Like all 'Standard' equipment, made from vitreous china, these items have an extremely long life, are hygienic and practical, while at the same time being æsthetically pleasant in design.

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This is one of the bathrooms attached to the guest rooms at the Ariel Hotel. The clean, simple lines of the 'Standard' Kingston wash basin and Sanwall water closet give the bathroom a feeling of practical elegance in a strict, modern setting,



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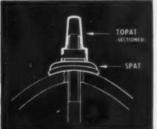
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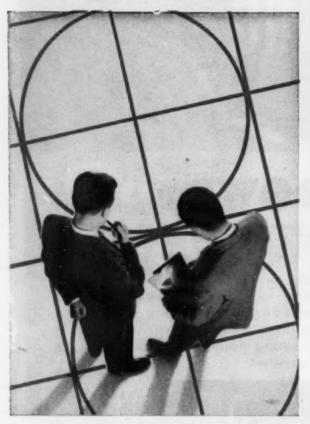
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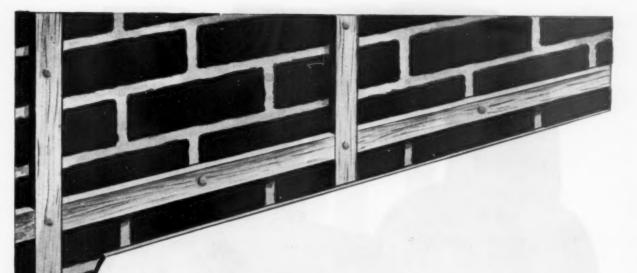
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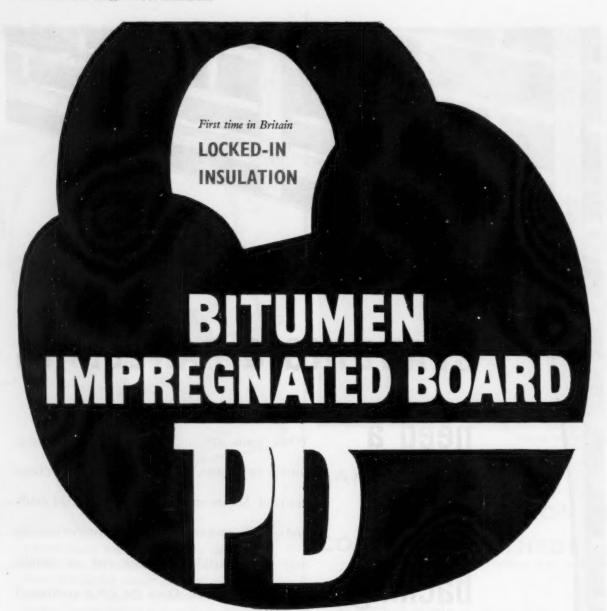
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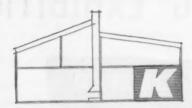
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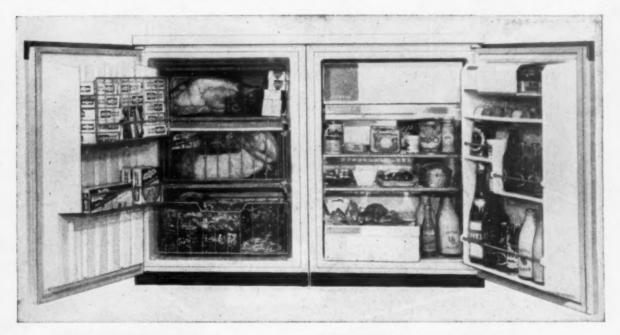


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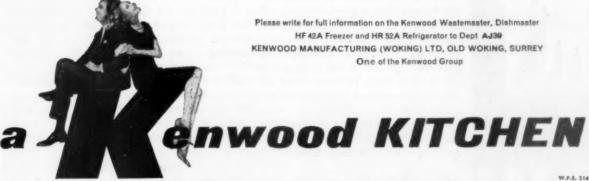
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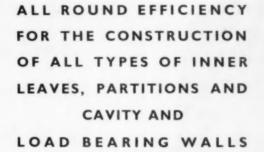


















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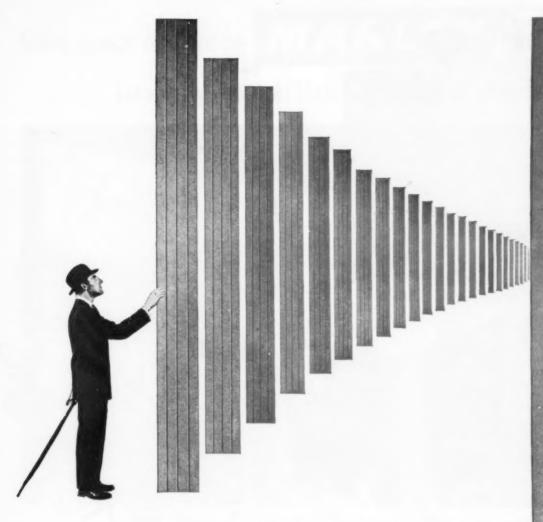
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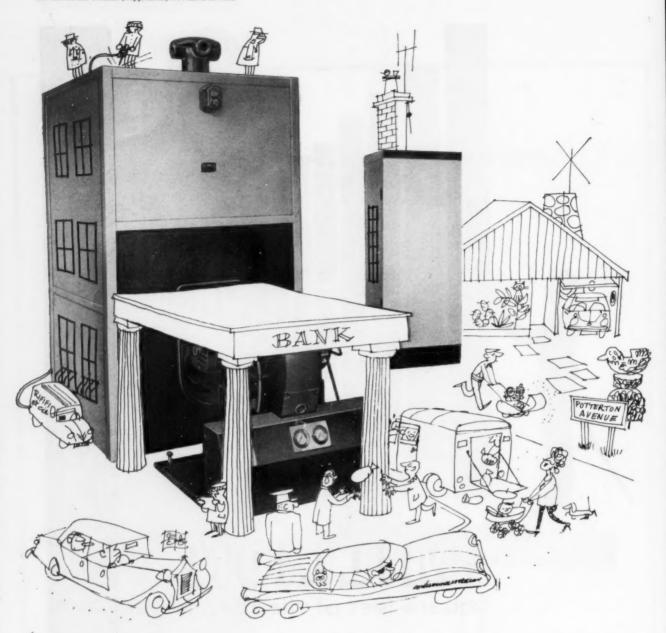
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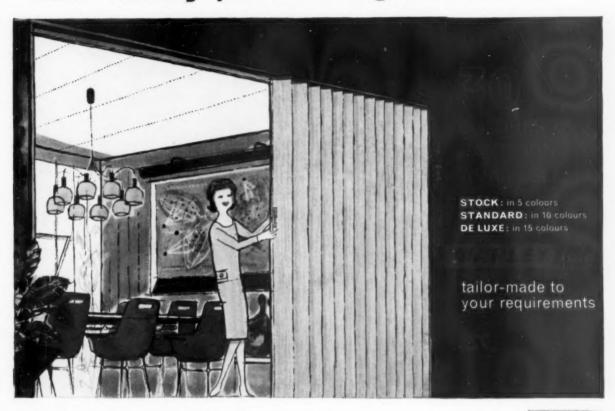
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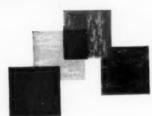
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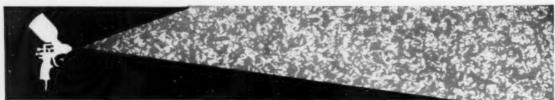
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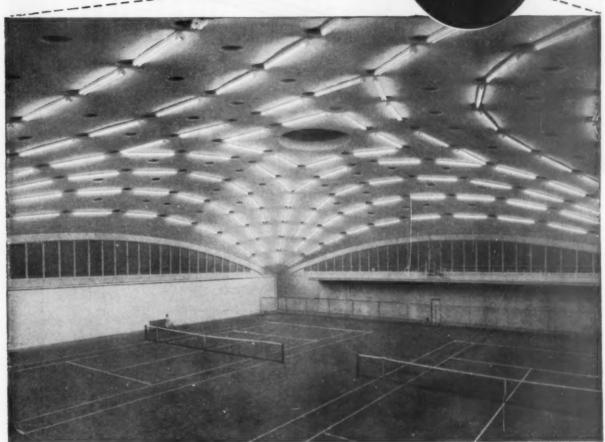
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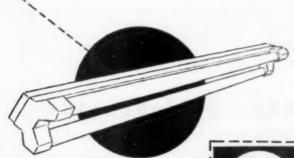
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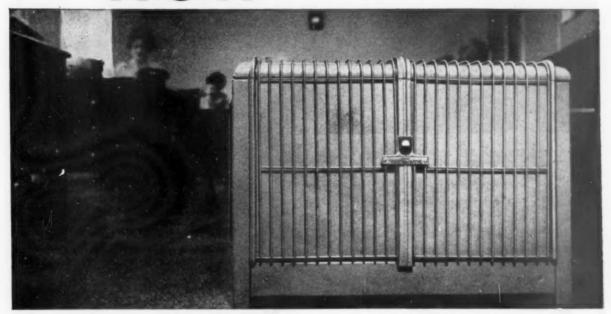


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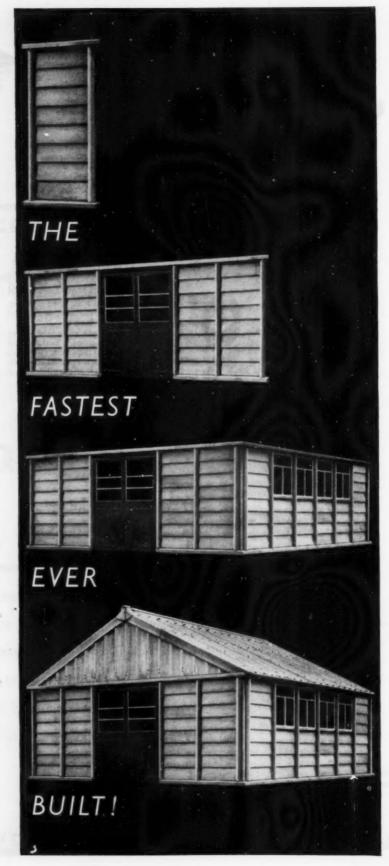
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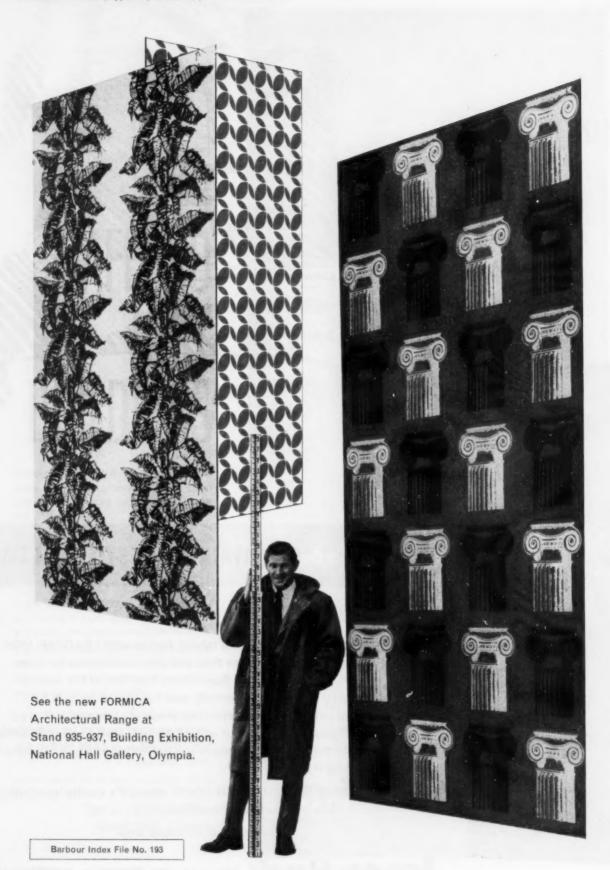
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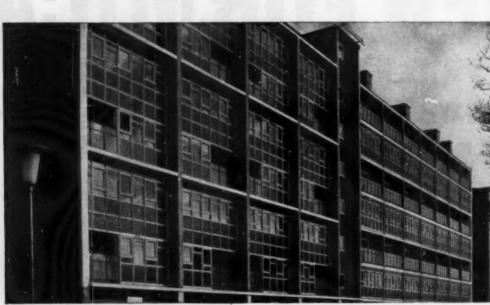
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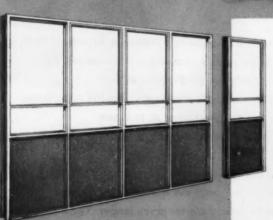
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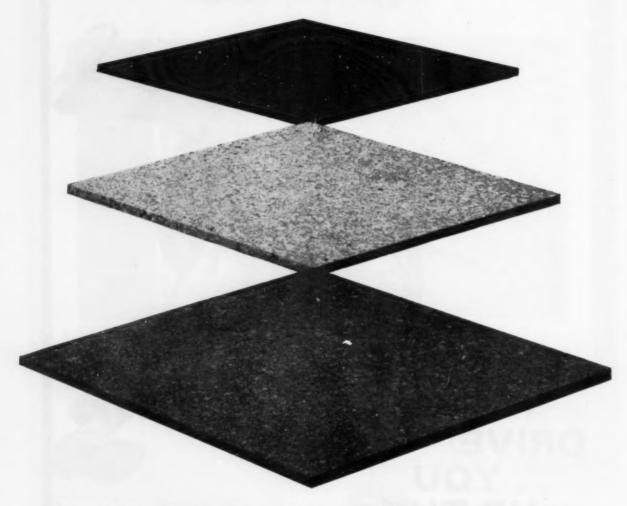
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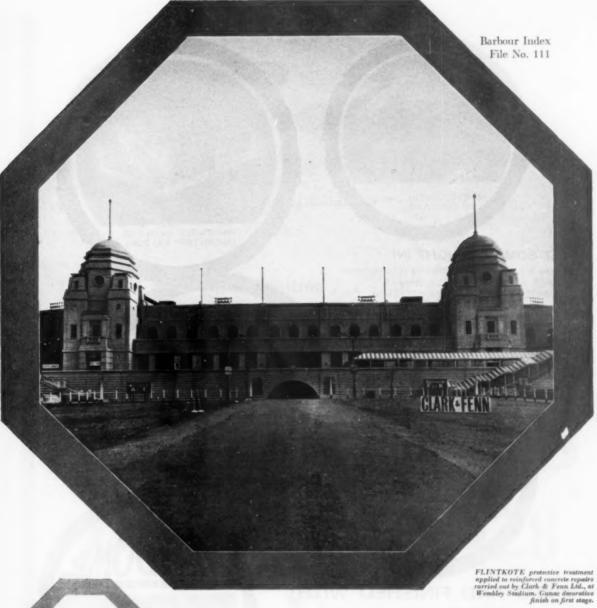
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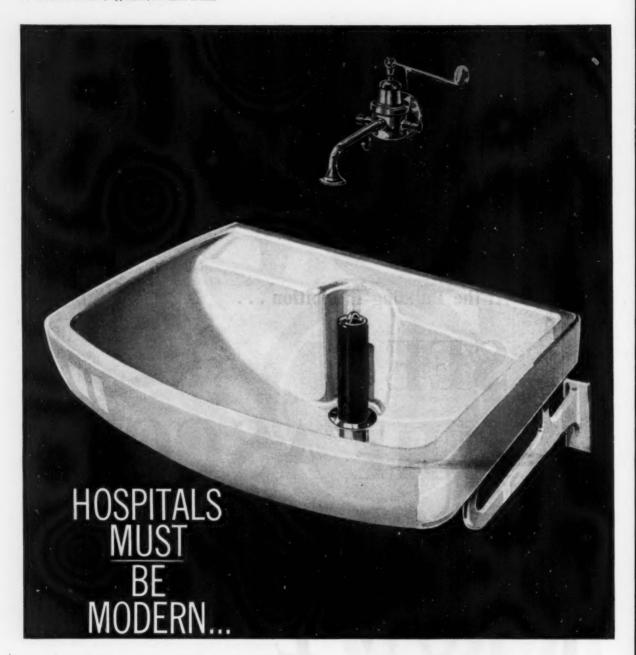
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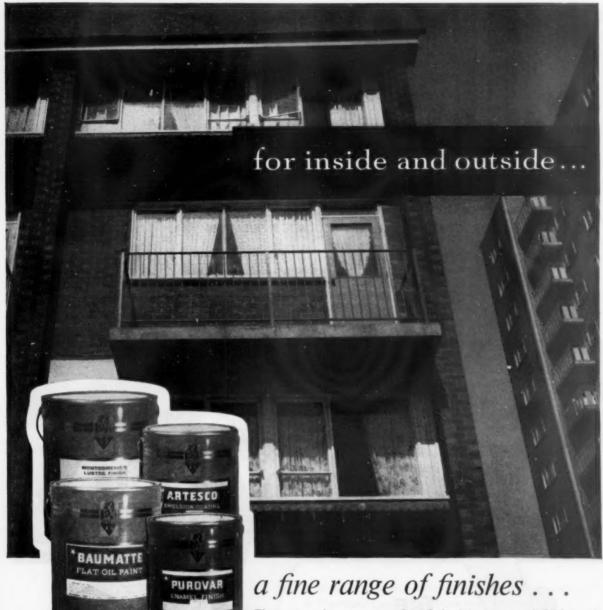
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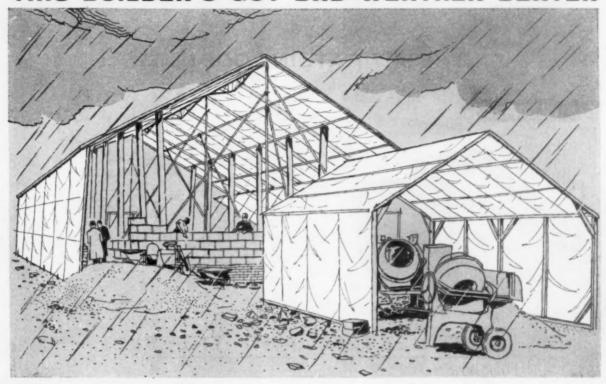
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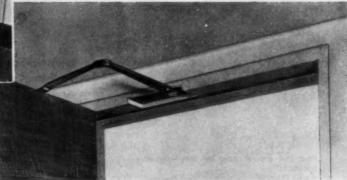
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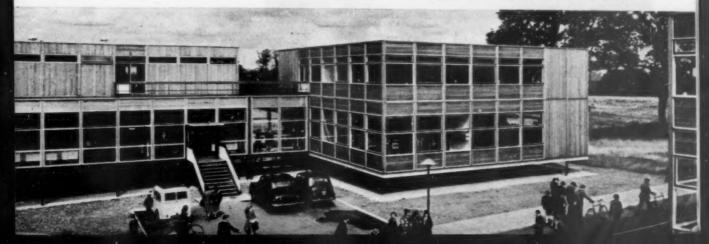
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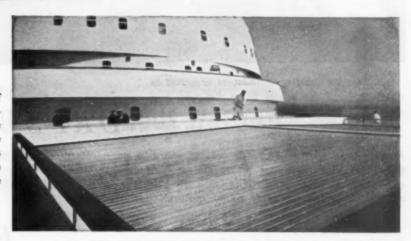
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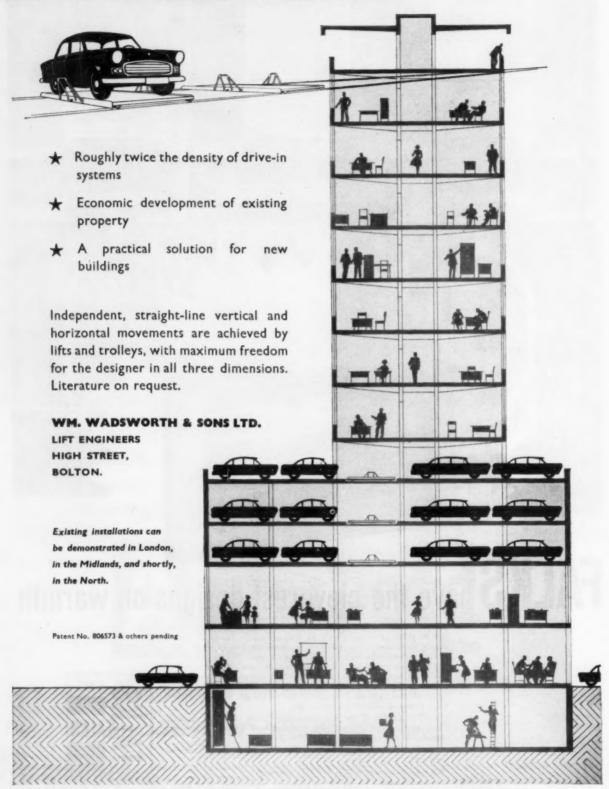
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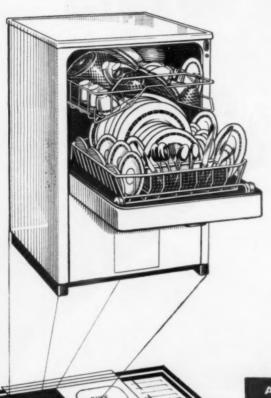
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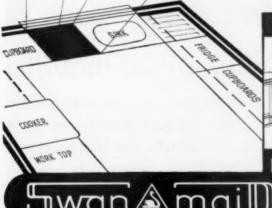
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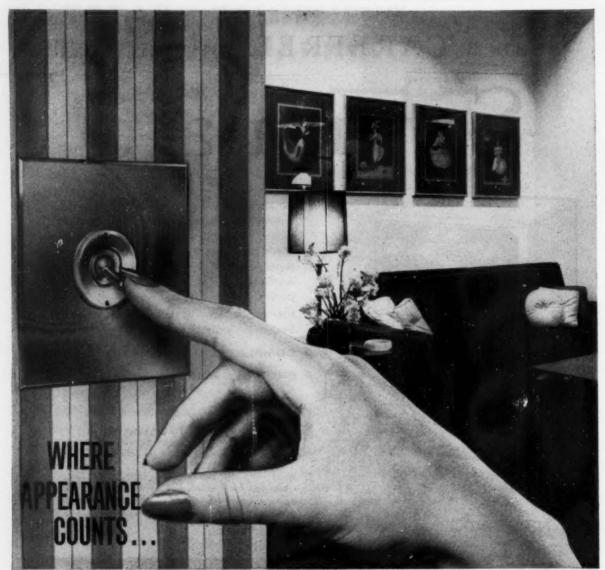
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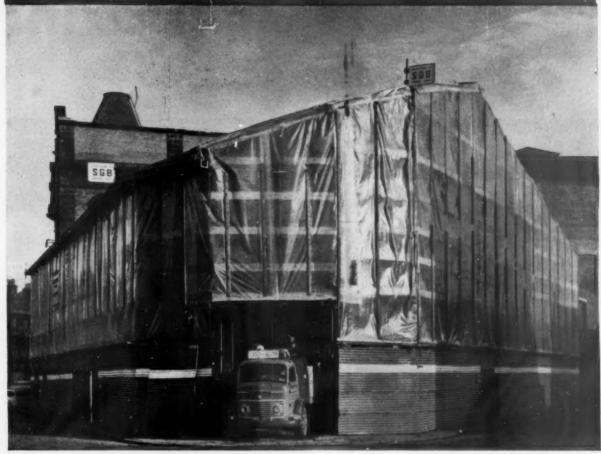


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Barbour Index Number 200

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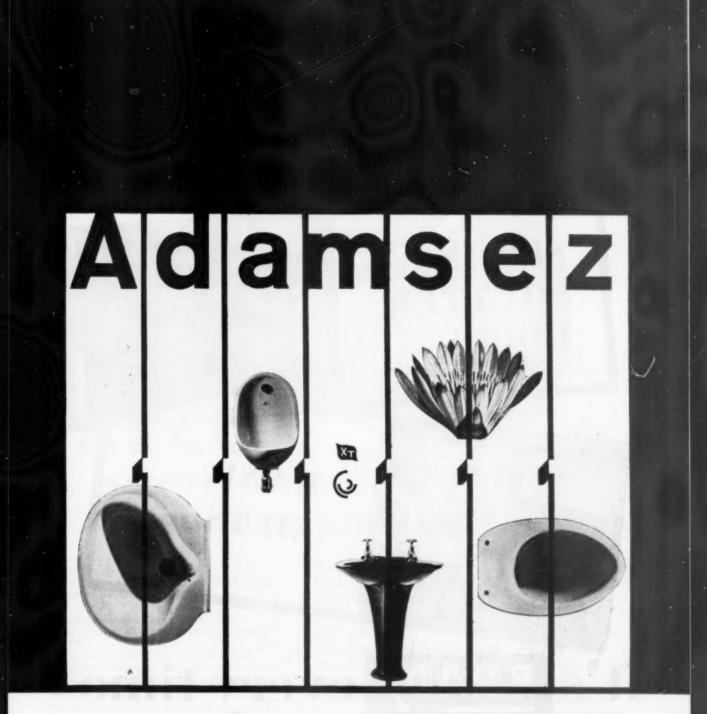




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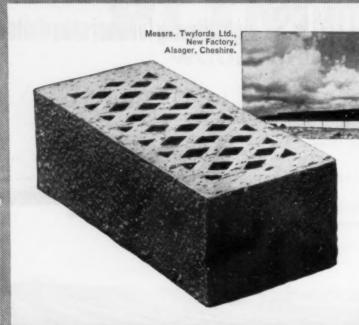
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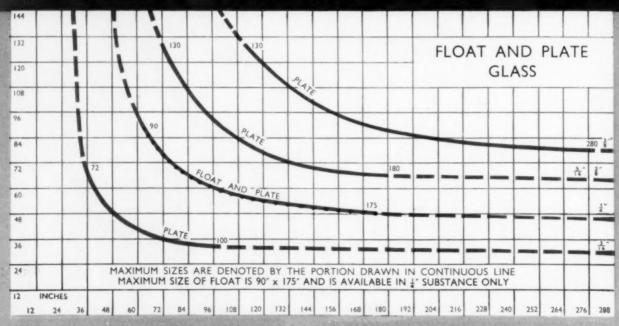
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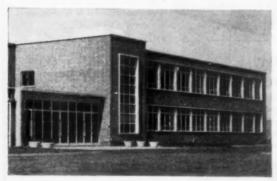
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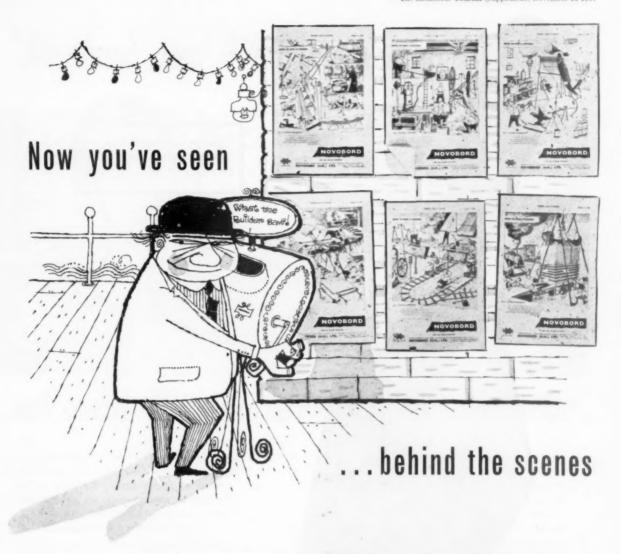
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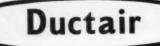
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^{*}Units marked with asterisk supply hot water as well

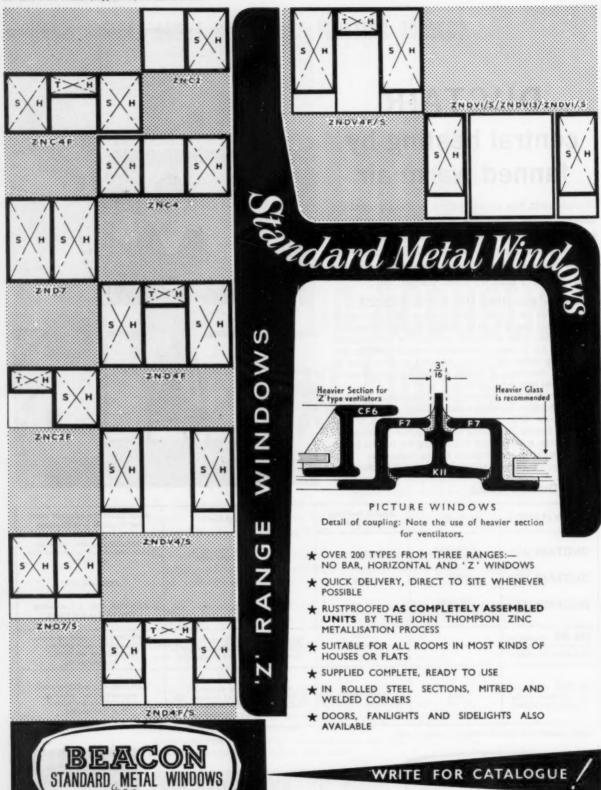


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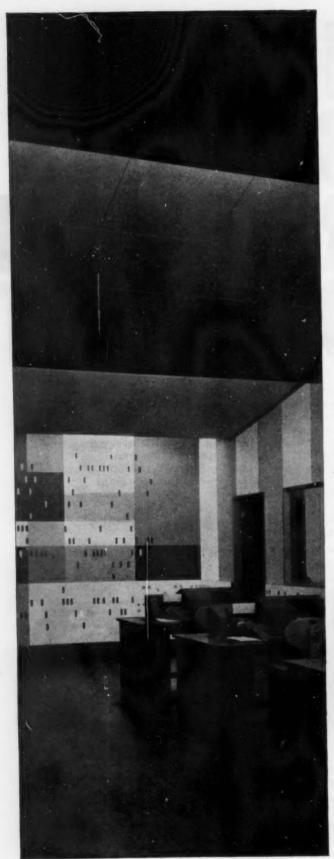
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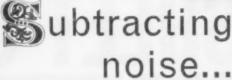
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the Building Exhibition, Olympia, and learn about Stotts' Large Scale Kitchen Planning Service

The Architects' Journal

Volume 134 Number 20 November 15 1961

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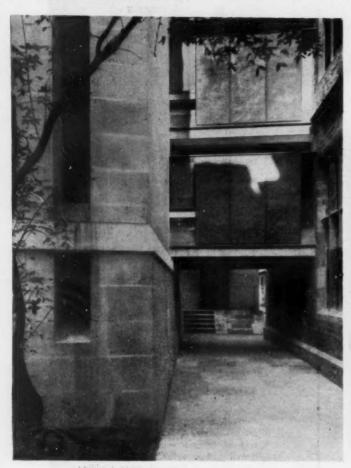
NOT QUITE ARCHITECTURE

Part One

June 1957. Cool, academic approach to art school for a small town, produced rational scheme with Brutalist boilerhouse. Sadly, wrinkled inquisitor guy says why not Portland stone cladding, thus creating sympathetic regional character, this being what Society needs most after a New Morality and, presumably, Ovaltine. Proves his point with 34 per cent.

November 1957. Art is selection process, like the man says, and duly selected small private hotel, namely since alternative (b), a non-conformist church centre in a suburb caused less spiritual and aesthetic quivering than, for random example, Accrington Stanley in late November; though these are clearly personal things. Arrival at odds-on favourite design policy, eyes right, eyes left, if all clear, etc., etc., but new inquisitor, sallow, hard-smoking counter-attacker said look here, what with all this wrapping the structure up in Portland stone, it isn't a wedding present, you do take my point, don't you? Took the point, put it in the tin trunk under the bed where the back numbers, digests, insurance, postcards and benevolent fund appeals rot in unison, along with 38 per cent for being the fastest loser.

June 1958. Central town development or a science block to a secondary school, and a clear demonstration that wisdom-



Extension to Brasenose College Oxford



The extensions to Brasenose College by Powell and Moya presented the architects with some highly complex infill problems, which seem to have stimulated them to an exceptionally well integrated solution, which combines a four-storey block (top right) containing 23 study bedrooms and a penthouse, and a series of single-storey "pavilions," each containing one or two study-bedrooms, and opening on to small courtyards, one of which, seen from an upper storey window, is shown below. Above, left, a view through the wide passageway that leads to these under the tall block. The pavilions have loadbearing walls of Portland stone, and in the taller block loadbearing brick work walls faced with Portland stone are carried on ground beams supported by reinforced concrete columns.



of-ages piece about third time lucky has similar reality content to oak before ash, salt-tossing, wood-touching, broth manufacture, looking and leaping. Third is merely average, no more, no less. Thirty-three per cent with resignation.

November 1958. Professional prospects relating to primary school to be built in two stages and premises for publishing company crippled by emotional and physical pressures. Loyalty to Gollancz having predetermined choice, resulted only false premises for reasons emotional (a) fellow inmate, approximately female, exclaiming twice daily what a darling little section and wearing red stockings which distracted; and physical, (b) being allotted Sunday school desk and chair adjacent to convenience door which flapped regularly and mechanically like mouth of well-loved Lenny the Lion, causing short-lived but torrential feverish cold and making minus contribution to totally inadequate 29 per cent.

June 1959. Missed out at first base. Application forms, duly completed in Mark IV italic script, accompanied by cheque with surface value exceeding current resources. Long interview with bank manager. Went marching instead.

November 1959. Embittered by libraries, having been fined by local, neo-Georgian branch for losing unread Ionesco, so embarked on Benedictine Monastery to be constructed by monks working do-it-yourself and optimistically anticipating casual co-operation from local craftsmen, all on a site plan with freely running river and guess-it-yourself scale. Produced solid job, solid like a sand-bag rather than like Durham Cathedral, but maybe acceptable if reinforced with suitably intense Inquisition sales-talk along Personal Vision thought-flow. Alas, operating on inappropriate wave-length for pale, beardless, neo-Libertarian from local school, helping out, who improvised lengthily with iceman logic, like doggy-eared, over rhetorical, verbal Miles Davis about True Expression. Rang Australia House, tentatively, from station.

June 1960. Half-heartedly staked destiny on a town hall, giving environment of unreasonably jacked up scale for NALGO oddments operating in recurring small town, and carefully keeping in keeping. Shiny inquisitor, sympathetic Pickles, honest like Freeman, opined, to astonished audience, that here was a thing which he liked, dignified, buildable and avoiding eclecticism. Murmured medium hurrah, cancelled passage and ultimately concurred with boss, fraying, ulcer-ridden L, in statement that well, really, you know, it's a pretty fair test, all things being equal, I mean, if you've got it, well, that's it. End of Part One.

ALAN PLATER.

The Editors

WANTED: A COUNTER-ATTRACTION

At last the drift of the population to the south-east corner of Britain is producing proposals for stopping it as well as groans about its inevitability-some of which were heard at the TCPA conference recently. All capital cities exert a pulling power, but London's magnetic field we believe would be pretty weak at the distance of Crawley or Thetford, for example, if other parts of the country provided the same quality of housing for sale as well as by local authorities, of shopping, social, cultural and entertainment facilities, and variety of jobs. Two suggestions for achieving this balance have been made in the past few weeks: there is the proposal of Professor Myles Wright in Land Use in an Urban Environment (a special issue of the Town Planning Review, to be fully reviewed in a later issue of the AJ), that town planning in the conurbations outside London should be done by special Development Commissioners instead of by the local councils, who would be responsible for "long-term, vigorous and clear" remedial action. And there is the suggestion of John Greve in his Fabian pamphlet on The Housing Problem (see p. 925) that building programmes of private house builders must be integrated with a national housing plan so that the north, where housing is worst, is not left to the local authorities while the private builders come south, to provide for and increase the drift. We would be much happier if the MOHLG's planners were discussing these and other plans for making our beautiful but depopulated north country as attractive to live in as the commuters' south instead of accepting the trend south as inevitable.

HISTORY-BUT NOT IN COLD STORAGE

The decision of the Civic Trust to organise a conference of representatives of historic and cathedral cities, next week, to discuss with representatives of such preservation societies as the Georgian Group the problems of development in these places, is very much to be welcomed. Not all these ancient cities have the same problems—some are mouldering sadly some hideously engulfed in industrial and housing developments which threaten to destroy them. Into the hearts of both, tourism now pours a flood of cars, choking the narrow streets and robbing tourism itself of much of its pleasure. How to preserve these noble and historic city centres from destruction, by the motor car or by the natural desire to exploit them by building higher, larger and vulgarer, without condemning them to a sort of goldfish bowl version of life is an immense and immediate problem. In Salisbury, where the conference is being held, it is already right on the doorstep of the cathedral close. Clearly it is the first responsibility of the local authorities in these cities to prepare a fully comprehensive plan, and to employ first rate architect-planners to

make it, who must be prepared to face the question whether their city, besides satisfying the needs of its inhabitants is to make its centre provide for the needs of tourists, or of the tourist trace—the two are not synonymous. To make the historic centre available to the human beings who go there, let the car and large-scale rebuilding be excluded, even if this means a fall in property values in the shadow of the cathedral (and a corresponding rise a little further out).

BRS TO THE RESCUE

When a town experiences a disaster as great as the hurricane which destroyed Belize the need for immediate emergency measures naturally takes first place in the minds and activities of the various officials concerned. But very soon decisions have to be taken about rebuilding the shattered city, and rebuilding it better than before, so that some long term good can come out of present misery. So it is good to see that already, in Parliament last week, questions are being asked about rebuilding Belize on a better site, with better protection from the Atlantic, and good to hear that the Building Research Station is already in close touch with the Colonial Office and considering this question, and that experts from the department are expecting to go to Belize to advise.

We hope that not only architects who know about the problems of tropical building, but also some first rate architectplanners will be lent to British Honduras, as well as food, blankets, medicines and money for the immediate emergency, so that a new city will rise that makes its inhabitants glad of their links with Britain.

ASTRAGAIL NOTES & TOPICS

SYSTEM FOR BUILDING

Today that biennial marathon the Building Exhibition opens. Architects and students visiting it can see at the Architectural Press's stand a pictorial representation of the AJ's programme of publishing SfB classified information to help stock the individual architects' building element library. In addition a few of the smaller mechanical aids to help the architect or student create his personal library are on view: folders. box files and so forth. The idea is that the curious can examine and compare them freely without having to trek around town.

LISP

It's here at last — Mini-Clasp. Visitors to the Building Exhibition will also see pictures and examples of the one-foot-eight-inch-module system developed by the Ministry of

Housing's architectural research team for use in building the old people's flatlets now under construction at Stevenage. This is only a oneoff job, but even so it is said to give better value for money than traditional methods; this means that Oliver Cox and his team have been able to improve general standards (there's a lavatory for each flatlet and inside it) and to incorporate features recommended by their tame sociologists and anthropologists.

No doubt we shall soon be reading details about this project elsewhere in the AJ. ASTRAGAL looks forward to seeing how the system appears and behaves as a completed building and, more particularly, how the research team will set about adapting it—as they intend to do—for small housing. This will be their third project. Project No 2? This is not yet off the secret list, but it's well under way.

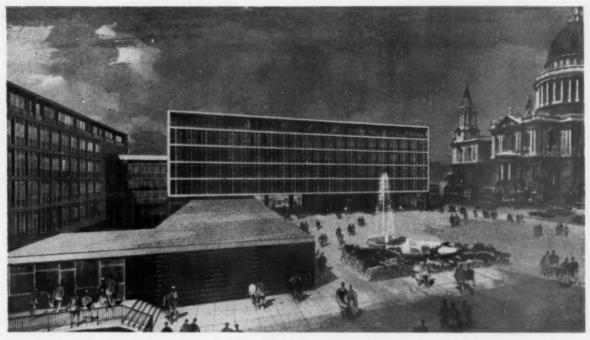
LINCOLN IMPIRICISTS

"Would you visit a dentist to have a corn removed?" The question is asked in a lively pamphlet produced by the Lincoln branch of the Nottingam, Derby and Lincoln Society of Architect. It is another way of asking why a city like Lincoln should be planned by hit-and-miss councillors instead of a qualified architect-planner. In fact, the pamphlet is part of a campaign urging the public to demand an architect-planner to guide the future development of their historic cathedral city.

I hope the Society is successful and that its campaign will be copied in other cities.

THE TOWN THAT WASN'T

May I remind all who feel that the ruination of south-east England and the continued sprawl of conurbations will only be checked by a New Town building programme, that the design for the latest New Town, the LCC's Hook, will be described by Frank West, Oliver Cox and Graeme Shankland at the RIBA on November 28. The fact that Hook has been abandoned makes it all the more important for the architect-planners' proposals to be closely studied.



Work has started on this office project on the south side of St. Paul's, designed by Alec Shickle of Campbell, Jones & Sons. The main feature of the layout is the creation of a 150-ft square pedestrian piazza with car parking and restaurant underneath; the development will straddle a realignment of Knightrider Street shown on the left above. The scheme is within the area of Sir William Holford's precinct plan published in 1956, a somewhat similar piazza being shown on this site in the original model. The development will form the east side of the St. Paul's vista, a major feature of Holford's plan to create a visual link between St. Paul's and the river. It is to be hoped that considerably more thought will be given to the details of planting and floorscape than is shown in this perspective. In particular, the row of trees shown on the Holford model, closing off the piazza on the right-hand side, would seem to be essential.

STRATEGY FOR LOCAL AUTHORITIES
Only 170 or so people listened to
Elizabeth Layton at the RIBA last
week, and a good proportion of
these had been specially invited or
were already converted to her
theme: more research, cost control.

were already converted to her theme: more research, cost control, visits, chief architects, CLASP and collaboration (see last week's AJ). Although Mrs Layton specifically called for the commissioning of private architects to stimulate officialdom there were not many of them in the audience to enliven the discussion (Clifford Culpin excepted). But then the things she advocates are the dreary essential things which tend to come between the whimsy architect and his intuitive dreams.

As anyone less illusioned than ASTRAGAL would have expected, Mrs. Layton's remarks were described in the discussion as "very challenging," "provocative" and so forth. Five years ago they might have been. Now they are just plain commonsense, and anyone in local government, or any architect, should be finding not provocation but reassurance and

confirmation in Mrs. Layton's excellent paper.

It was encouraging, however, to hear Cleeve Barr listing the work in hand at the Ministry of Housing: the group of old people's flatlets at Stevenage referred to, above; a special slum clearance project in a northern city, with particular attention to play spaces, car parking, and high density housing; a housing project with a variety of designs based on recommendations contained in a new Ministry housing report (which will be published this month) and bulletins being proposed on old people's houses, swimming baths, technical services and landscaping. We doff our cap.

GOM

Twenty-four years ago, said Jack Pritchard last week, Bobby Carter gave a farewell dinner to Gropius at the Trocadero, before this unacknowledged master left Britain for the United States. Recognised now by at least one of our more successful property speculators (Jack Cotton), Gropius was, last week, back for another dinner organised by Bobby Carter, this time at the AA. It must have been a nostalgic evening for many there. Much that Gropius had to say was familiar. Not so familiar was the realisation that much of what he advocated was easily realisable and has been so for some time. Only inertia stood in the way.

He hit out splendidly at the "cunning sales technique which plans wastefulness" and is disruptive to design and environmental integration. He emphasised repeatedly the need to teach all children " perceptive awareness" and creative habits, rather than just encouraging facts, because these children, when adult, were the architects' new clients, who must have the standards of the patrons of the past. He thought the country to watch was Japan, which led in unity of approach. All Japanese architects were in a definite line, while we went " in a hundred different directions, even in one architect."

ASTRAGAL

LETTERS

David Rock, B Arch, ARIBA

A. H. Walker, LRIBA

F. L. Hannam, FRIBA

Frank Allaun Member of Parliament for Salford

R. E. Owen, pipl arch, ARIBA

H. G. Eisner, ARIBA press officer to the Association of Official Architects

XmABS

SIR: It was very kind of ASTRAGAL to say such pleasant things about the ABS Christmas cards, but I was worried about his wanting Christmas cards for non-Christian humanists. Why should they wish to send Christmas cards anyway? Unlike ASTRAGAL I think Christmas cards should contain a Christian reference and if non-Christians really wish to use this festival to greet their friends they should be prepared to tolerate this. In fact these cards surely need be interpreted only as showing some dignified examples of the Christian faith's remarkable architectural contribution to humanity, if you wish to ignore their reference to religion. Or they could just send a contribution to the ABS.

sir: If, as ASTRAGAL states (AJ 1.11.61), there are non-Christian humanists among architects who would like to support the Benevolent Fund, they can quite easily do this without utilising an essentially Christian festival in a secular manner. You cannot take Christ out of

Christmas.

A. H. WALKER

Manchester 3

DAVID BOCK

London sw15

SIR: I was very surprised to read ASTRAGAL'S remarks about the Christmas cards on sale in support of the Architects' Benevolent Fund, and I cannot agree with his comments about the "Christian flavour."

Card No. 1. The Medallion has no religious significance, and is not enhanced by the measurements.

Card No. 2. This is a somewhat fashionable scribble for the present time. It might be a design for a religious building, equally it could be a casino.

Card No. 3. One gathers this is a religious card, but it is not obvious, and very difficult to observe visually because of the shininess and similarity of the

colours. The layout is reminiscent of the old History Study Sheets required for the BUBA examinations.

As the local representative of the Architects' Benevolent Society in this area, I have tried to get members interested in these cards, but without success. If, as ASTRAGAL states, there are many non-Christian humanists among architects who would like to support the Architects' Benevolent Fund, then they have every opportunity of sending a donation at any time of the year, and have no need to take part in this essentially Christian Festival, although Christians always hope others will share their pleasures (and sorrows).

F. L. HANNAM Bristol 8

Looking back on architects' Christmas cards I receive, I do not recall their generally having a marked religious flavour, and I merely suggested that the Benevolent Fund should further widen the appeal of its cards, which are an excellent idea and this year most attractively designed, by including also some purely secular seasonal greeting cards. As to why non-Christians celebrate Christmas, all one can say isthey do. Perhaps they are joining, humanistically, in the season of general goodwill and wish to express their pre-Christian, tribal rejoicings at the approach of a new year. They can of course support the ABS without buying the cards-but then so could Christians. -ASTRAGAL.

Direct labour at Salford

SIR: One correction should be made in my article (AJ, 25.10.61). Taking into account the £72,000 saving on the original estimate, plus other savings on the capital cost (which treble by the time interest has been paid on them over 60 years), plus the additional rent income (since most of the flats were completed a year before schedule), the saving to Salford on the Lower Kersal housing contract is, I reckon, £400,000—not £40,000 as given in the article.

FRANK ALLAUN

House of Commons, sw1

£3 a square foot

SIR: Your statement in the article on the house at Padworth Common (AJ 25.10.61) that to design a house these days at under £3 a square foot is something of an achievement is misleading, as reference to the text will show that the work was started in October, 1959.

Since that date, cost increases have made it virtually impossible to design single houses of this quality for about £3 a square foot, however favourable the tendering conditions.

The analysis of the Padworth house costs shows a cost per square yard of plastered lath ceiling of 36s. 6d. (compared with

9s. 10d. in your measured rates in the same issue) more than twice the cost of the pine boarded ceilings. Lest figures of this kind should be used literally in deriving false comparisons of normal comparative costs, I feel you should examine the cost analyses submitted and draw attention to any obviously abnormal

Abingdon, Berks

We sympathise with the remark in the first part of Mr. Owen's letter; in view of the rapid rise in costs in the last 18 months or so, the comment should have been more carefully expressed. We regret that due to a printer's error the prices for the two types of ceiling finish were transposed. The unit rate for the pine boarding should have been 36s 6d per sq yd and that for the skim-coated plaster lath 18s 0d per sq yd.—THE EDITORS.

A question of scale

SIR: Mr. Smith is right in claiming that architects are represented on Committee F* of the Whitley Council for the Health Service. But whether this constitutes "adequate" representation is surely a matter of opinion?

As the AOA executive understand it the staff side of Committee F has 14 representatives on it. Of these, seven representatives are chosen from the organisations listed in our press statement. The remainer are allocated to NALGO, and apart from the staff side secretary six NALGO members sit on the committee. As it happens, at the present time one of these is a quantity surveyor, two are engineers and three are architects. It therefore seems strange that less than half the representatives on this committee represent these officers.

It seems even stranger that when representation for a group of professional officers is made available, where there was none before (as in the case of AOA), the members should not have the right to have these representatives speak for them on the committee. There is, at present, no inherent right for the architects sitting on Committee F remaining there. They sit on it as NALGO members. If no architect NALGO member were available when a place has to be filled it could be filled by any other appropriate NALGO representative.

Similarly the engineers do not sit on the committee by right as engineers nor do the surveyors. Whilst NALGO is certainly entitled to representation so are the professions for whom this committee is supposed to negotiate.

HANS G. EISNER Matlock, Derbyshire

*Note: Committee F is the appropriate body to deal with negotiations for engineers, surveyors and architects at Hospital board level. It forms part of the Professional and Technical Council B.

NEWS

THE HOUSING PROBLEM

Why do we build less than pre-war?

Why is it that "with far greater material, financial and technical resources than before the war and a larger building labour force we are plodding along at a rate of slum clearance which has only in the past year reached two-thirds of the 1938 speed"? Why was West Germany capable of building an average of 509,000 houses a year in the 'fifties, Britain only 296,000?

These are some of the uncomfortable questions asked by John Greve, lecturer in Social Administration at the London School of Economics, in the new Fabian Pamphlet, The Housing Problem (Fabian Society, 4s), and made doubly uncomfortable by the background of facts about slum and near-slum dwellings which he gives, in tables which reveal the extent of Britain's "sub-standard" (splendid word, that) housing, its age and the extent to which amenities which should by now be taken for granted in a civilised community, are enjoyed, shared or non-existent.

The failure to tackle slum clearance adequately Mr. Greve considers has resulted from the long toleration in this country of two standards for housing, one for houses built since the 1919 Housing and Town Planning Act, which fixed a minimum standard well above the then normal condition of working-class housing, and one for houses built before 1919, thousands of which, he points out, "were condemned 25 years ago . . . but they are still corrupting housing standards and people's lives." Even if the slum clearance programme were to reach its target of 75,000 houses a year (which the last Minister of Housing admitted earlier this year he had never believed could be achieved), it would only be replacing slum houses at a third of the required rate, and failing to keep pace with obsolescence.

Most architects know these things, perhaps vaguely, or only too well, but this picture of housing in Britain today, where we hear ministers talking of doubling the standard of living in the next 20 years, should destroy complacence and encourage all who have to do with building to seek for solutions. Mr. Greve puts forward a number of suggestions to this end: first, the need for a fairer distribution of new housing. As he points out, while only the local authorities provide new housing in the industrial towns of the north, whose actual need is greatest, private enterprise builds largely in the prosperous areas of the south east:

"relying on the free play of market forces to provide new homes in the appropriate places has failed as a policy," says Mr. Greve: it should be replaced by planning in which different government departments work together, or if they cannot, are co-ordinated by "a minister responsible for planning and land use."

Second, Mr. Greve points out that the private landlord of rented houses is being steadily replaced by "unwilling financially hard-pressed owner-occupiers, living at the margin and unable to maintain their houses adequately." There are, he suggests, "social and economic advantages in collective ownership on a manageable scale," and he devotes a chapter to the co-operative housing which has developed encouragingly, above all in Scandinavia and West Germany.

Thirdly, he urges a more logical policy towards subsidising housing: while indignation is often fostered about subsidised council tenants, a claim for tax relief is equally a demand for help from public funds, but is "a status symbol rather than a stigma." He concludes that "a uniform, unselective subsidy . . . is no longer justifiable or equitable" and should be replaced by a two-tier system of subsidies, one general subsidy aimed at raising the standard of housing, taking the form of low interest loans to local authorities, housing associations and owner-occupiers, and a specific subsidy related to individual need, where necessary in addition to the general subsidy. He concludes with restating briefly the case for a land commission to acquire all building land, put forward in the Labour Party policy statement Homes for the Future, but superseded at this year's conference by Signposts for the Sixties, from which this proposal was dropped.

YORK INSTITUTE

Factory design course

The Institute of Advanced Architectural Studies in York held a four-day course on factory design between October 20 and 24. This was the first course on the subject, and was attended by 21 students from offices all over the country. General planning and design consideration were dealt with in sessions on production space by A. G. Aldersey-Williams; ancillary accommodation by Haydn W. Smith, and storage by A. B. Waters. This was followed by analysis and description of a storage factory by A. B. Waters, and the BMC Bathgate factory by A. L. Hall. Environmental factors were considered by J. B. Bickerdike on lighting and colour; S. Mulcahy on heating and ventilation, and A. G. Aldersey-Williams on noise. Mr Aldersey-Williams again appeared, this time dealing with electricity supply, and was followed by B. T. Hale on piped supplies; D. Longden on industrial wastes, and D. W. Cooper on structural possibilities. In the closing session A. J. Gordon dealt with the client and his side of the problem.

The most surprising thing about this course, in which the sequence of subjects to judge from their titles, might seem illogical, but in practice it worked extremely well, was the increasing case which was made out for the flat roof factory with rooflights of the monitor or preferably flat light type. The case was built up step by step with each lecture adding fresh arguments.

The first argument was supplied by Mr Aldersey-Williams, who pointed out that increasing flexibility was required for panel point loadings. Apart from the obvious needs for overhead handling, these were now required for electrical sub-stations; supervisors' offices, lavatories, staff access, maintenance, etc. In pleading for improved day lighting, Bickerdike pointed to the cut-off and contrast grading which was possible with this kind of roof. The strongest argument was for a reduction in the heated cube and increased flexibility for service piping and ventilation ducts. The centralised electrical sub-station to reduce secondary cable runs was also mentioned, and led to a case being put for suspension to save floor space. Longden, in dealing with surface water, pointed to the surprising savings in drain runs which might be achieved by regarding the roof as a reservoir, and using it to spread the run off volume, thereby reducing drain sizes. The burning question was not resolved as to whether these arguments for the flat roof approach can be said to have offset the recognised difference in cost between deck roofing and sheeting.

It was most noticeable that when it came to illustrating structural possibilities, one automatically valuated them for absence of glare, limited cube above truss booms, and flexibility for services. This was in marked contrast to the more usual criteria of architectural possibilities, high level of daylighting, and unobstructed floor space. On this ground alone, the course was well worth while.

CIVIC TRUST

Conference on cathedral cities

The Civic Trust, in co-operation with Wiltshire County Council, is sponsoring a conference on the problems of redevelopment in historic and cathedral cities, in Salisbury on November 20 and 21, representative of councillors, town clerks, county planning officers, architects and planners, engineers and surveyors, with representatives from the Society for the Preservation of Ancient Buildings and the Georgian Group, civic societies, developers and of the Civic Trust. It is to be a private meeting, but is to be recorded on tape and a report based on the record will later be issued.

BRS AND THE HURRICANES

Help for Belize and Mauritius

While George Atkinson, chief architect at the Building Research Station, was flying to Mauritius last week in connection with plans for emergency housing there after the recent hurricane, the Tropical Building department there was in consultation with the Colonial Office about the future of Belize.

The immediate problem of shelter for the population is largely being provided by the army, in tents and some large buildings, such as schools. But already a team of relief workers, including housing experts and town planners has been sent from Jamaica. One question that will have to be decided is whether Belize should be rebuilt at all on the present site, which is completely

is whether Belize should be rebuilt at all on the present site, which is completely exposed to the Atlantic, with little possibility of shelter from hurricanes. It might, therefore, be necessary to move the town further inland for shelter.

HOUSE BUILDING CONFERENCE

Calculations on Needs—and Land

The problems of urban growth, and how the Town and Country Planning Association thinks they should be tackled, were restated in the light of recent statistics by Wyndham Thomas, the association's director, at a conference held in London by the Federation of Registered House-builders on November 2.

Mr Thomas quoted current forecasts of our annual housing programme ranging from the "rock-bottom" 250,000 put forward by J. R. James, chief planner at the MOHLG, to the Alliance Building Society's 400,000 and the 500,000 suggested by Graham Page, MP. His own estimate-based, he said, on an assessment of real need, effective demand and construction possibilities-was that an average of 300,000 dwellings a year should, and probably would, be built between now and 1981. "It ought to be more," he added; "if we continue to devote to housing the present proportion of our steadily rising national product it will be 500,000 a year."

As to the incidence of the problem, he went on, the greatest need for new housing was in the northern towns, which had the worst slum problem but the lowest rate of clearance and of private building. Housing demand, on the other hand, was greatest in the southern half of the country, and especially in the ever-widening regions based on London and Birmingham. In default of determined policies to secure a different result, the London region—now 80 to 100 miles wide, with 27 per cent of the population of England and Wales—would continue

to have 40 per cent of the national population increase. Assuming, however, that Government policies to check economic development in the south and to promote it in the north were successful London, Birmingham, Liverpool, Manchester and Newcastle would still account for a disproportionate share of the housing programme.

By any analysis these five regions represented about 60 per cent of the country's housing need, or 3,600,000 of the dwellings to be built in the next 20 years.

As to how much of this need could be met within the existing built-up areas of these conurbations, Mr Thomas agreed with Mr James that it would be optimistic to put it as high as one-half, "allowing for a modest reduction of densities in the redevelopment of their grossly overcrowded slums and derelict inner areas, and for quite substantial infilling and raising of densities in their outer areas." An anti-social alliance of market pressures, aesthetic prejudices and preservationist sentiment was now forcing higher densities, higher costs and lower standards in public and private housing, especially in the areas of greatest demand, with the result that the centres of large cities were becoming more and more the habitat of the rich (who could escape at week-ends), the poor (living in slums or in heavily subsidised blocks of flats) and the childless. The great majority of city workers with modest or not-somodest incomes had no hope of getting decent family dwellings near their workplaces until land values close to city centres had been reduced, through the dispersal of employment, to the point at which houses could be built there at densities of about 70 persons to the acre. Meanwhile, young and ambitious £1,000a-year family men would continue to move out.

It followed that at least 1,800,000 of

Diary

Building Exhibition: Olympia, Mondays, Wedaesdays, Saturdays, 10 am-6 pm; Tuesdays, Thursdays, Fridays, 10 am-8 pm. UNTIL NOVEMBER 29

Overhead pedestrian ways: Lecture by J. W. Dark, Institution of Heating and Ventilating Engineers, Great George Street, London sw1, 5.30 pm.

NOVEMBER 16

The importance of the heating engineer to the architect: IHVE lecture, Exchange Hotel, Liverpool, 6.30 pm.

NOVEMBER 20

Heating and ventilating of Coventry Cathedral: IHVE lecture by A. F. Myers, 25 Charlottee Square, Edinburgh.

NOVEMBER 21

Modern architecture—yesterday, today and tomorrow: Lectures by R. Furneaux Jordan, RIBA, 6 pm.

NOVEMBER 15, 22, 29

the 3,600,000 new dwellings required for the people of the five great city regions would have to be built beyond their green belts. Assuming that public and private enterprise would continue to share the programme in the proportion of three to five, and that the Minister would succeed in raising the density of new development in these areas of acute pressure to 50 persons to the acre for public housing and 30 for private housing (a prospect which evidently shocked many listening builders), Mr. Thomas reckoned that these 1,800,000 dwellings would require about 150,000 acres of land, while the accompanying schools, factories, roads, open spaces and other social needs would account for as much again. Assuming that the remaining 2,400,000 new dwellings for other parts of the country would absorb land at the same overall rate, he put the total land requirement for urban growth up to 1981 at 700,000 acres-over 1,000 square

This, he admitted, was a lot; but it represented a decrease of only about two per cent in our total agricultural acreage (from 79.6 to 77.9 per cent of the land surface of England and Wales), and if the post-war rise in agricultural productivity were maintained it would be accompanied by an increase of at least 20 per cent in total farm output. "One of the most widely believed bits of modern mythology," Mr. Thomas said, "is that Britain is desperately short of land."

What we were short of, he continued, was land allocated and available for development beyond the green belts round the five great conurbations. In the case of the London and Birmingham regions there was only one or two years' supply left, and little of that was on the market.

"Those who most ardently support greenbelt preservation," he added, "should also be the most insistent advocates of absorbing in town expansion and new town schemes beyond the green belts the pressures for growth that make the green belts necessary." The green belt was one feature of public planning that had captured public support, but if it came to be seen as an expensive barrier between home and work for an evergrowing host of people, this mass support would evaporate and be replaced by a counter political pressure which no Government could withstand. Already nearly £120 millions had been spent in compensation to preserve the green belts around our large cities. "If the Government and the county councils succeed in holding them for another 10 years without having taken strong and effective action to guide jobs and people together to many more new and expanded towns beyond them, they will have worked the biggest confidence trick since the South Sea Bubble."

The critical questions were where, in what form and by what agencies development beyond the green belts was to be carried out.

The speaker hoped that in south-eastern England it would include the building of large new regional centres, capable of serving as counter-magnets to the pull of London, at places like Ipswich, Norwich, Peterborough and Northampton, and that consortiums of private developers would be encouraged to participate in the building of new towns and the carrying out of large-scale town expansion schemes. (On this point Mr. Trench said the Minister was being asked to receive a deputation from the Federation to discuss ways and means.)

Mr. Thomas also thought local authorities should be enabled to buy up large areas of run-down housing within cities, and sell or lease parts of them to private builders for redevelopment. If necessary, he declared, they should be empowered to acquire compulsorily land allocated for housing outside the cities, in order to make it available for development. Comment from the floor was largely preoccupied with the dearth and cost of land available for house-building.

DEREK SENIOR.

REVIEW

New Universities: Official policy and its town planning implications

Concern has been expressed in various quarters about the siting of Britain's new universities. The force of the Oxbridge example makes most people in this country regard a university as essentially an urban institution, lending special character to a town, just as a cathedral does, and deriving some of its own distinctive features from the town in return. Consequently many people have been disturbed to learn that the new institutions at Brighton, York and Norwich are each well outside the existing town. Rumours that this is due to requirements laid down by the University Grants Committee (the body which advises the government on university matters) are now confirmed by the publication of Returns from Universities and University Colleges in Receipt of Treasury Grant, 1960-61. (HMSO Cmd 1489, price 4s. 6d.)

This formidably-titled document lists the considerations which the UGC have had in mind in determining where new universities are to be located. Much of their thinking seems fundamentally sound. They recognise, for instance, that no longer need universities be located in large industrial cities where they will be swamped, as they are in Leeds, Manchester and Liverpool. Increased student mobility, they say, has lessened the argument for confining them to densely populated catchment areas. On the other hand, they think they should not be sited "in communities so small as to run the danger of producing a closed university community." Also, "with the growing importance of science and applied science, the presence of industries in an area can provide an association of material advantage." Finally, they acknowledge that a university can act as "a stimulus . . . to the life of the community in which it finds itself." In short, they have sought locations where a university can make some impact, benefit in turn from social and industrial activity in the area itself, and as the result of such exchange, avoid the dangers of cloistered seclusion. Following logically on this, they recommend that the site itself "should not be too isolated." What they do not say is how isolation can be avoided.

The UGC's requirements for the site itself are based on a laudable anxiety to avoid a "nine to five o'clock" existence. So they want a site large enough to cater for all university activities—lecture rooms, labs., libraries, staff and student amenity buildings, administrative offices, residence and playing fields. For a university of 3,000 students they reckon this means at least 200 acres, with preferably adjoining space over and above for subsequent expansion. Although they do not say how this area is arrived at, it is probably not far out. There is no denying the difficulty of finding such an area inside an existing town, a difficulty not significantly eased even if half the area is for playing fields, and one which is certainly exacerbated if future expansion has to be allowed for. Little wonder, then, that the Committee felt it was doing well if such a site could be found within two or three miles of an existing town," with good transport and with readily available services. Clearly, however, unless the problem receives much more attention than it is at present getting, isolation of the university will be virtually impossible to avoid.

Quite apart, however, from any desiderata for the welfare of the university itself, considerable problems will be posed for the area in which it is set up; and it is a pity that the UGC, presumably because they regard it as outside their terms of reference, have not drawn public attention to them. Nor have the local sponsors shown much evidence that they realise the full implications.

Three thousand students means 400 teaching and research staff. There will probably be, in addition, another 400 consisting of officials, clerks, typists, maintenance staff and technicians. It is fair to assume that half of these last two groups will have families. So that

even if the university never expands (which in view of most forecasts is pretty unlikely) it may carry with it demands for three or four hundred houses, for a new primary school and possibly for a new secondary school as well; altogether a sizable element appended to an existing community. In the case of Canterbury, with a present population of some 30,000 it represents an increase of over 15 per cent. Then again, the UGC will not allow the new universities to outstrip existing institutions in the supply of student residence. So there must be a good supply of lodgings, and since these will seldom be close to the university site, this means an additional traffic or transport load. New universities therefore present town

planning problems of some magnitude. It is clearly not enough to find 200 acres and leave the matter there. Much more than this area will be affected when every consequent need is met. It is worth remembering, too, just how big 200 acres is. It is the size of Mayfair-Bond Street to Park Lane, Oxford Street to Piccadilly. Imagine this without a pub. or a newsagent, without a barber or a bookshop other than the rather stark approximations implied in the phrase "staff and student amenity buildings." It is the enormous size of this area, regardless of its location which carries the real dangers of isolation. More than that, if it is devoted exclusively to university purposes it is a seriously disrupting element for any surrounding development.

The pressing need is to stop thinking of university sites as isolated entities. Instead they should be seen as part of a much larger whole; as part of a comprehensive development area with housing, schools, shops, doctors and dentists, cinemas and so on, interwoven and interknit with the university buildings themselves, the whole complex efficiently served by public utilities and transport. Does not this offer the possibility that university and host community might form together, not a mere university in a suburb, but the nucleus of a future university town? But success will not, and can not, result from UGC policies alone, however much they may help or hinder; it can only follow a constructive and imaginative large-scale approach by the town-planning authorities in the areas concerned.

concerned.

Corrections

The salary given for chief architects of the larger new towns was wrongly given in our first leader (AJ. 25.10.61) as £2,400: it should have read £3,400. The scale for the smaller new towns is £2,500.

In the AJ 25.10.61, page 738 under "State Dept. grants for six British architects" the partnership to which David Bristow belongs was wrongly given: it should have been Herbert Morel and Associates.

The Building Exhibition 1961

This year, as in previous years, we are devoting two issues to the Building Exhibition. This first issue is a preview and guide.

We have assembled as much advance information as possible from stand holders and organisers and we present this, stand by stand, picking items which are new or seem likely to be interesting.

In the second Building Exhibition number, which comes out in a fortnight's time, we will present our report. This will be prepared by a team of architects commissioned for the purpose and, like all technical information appearing in AJ, will be presented under SfB headings

The Building Exhibition does not become smaller. At the last exhibition, two years ago, the trade stands nearly filled the second floor of the Empire Hall. This year they altogether fill it. Does it get any better? Eliciting more illumination per yard trudged? It is of course still too early to say; but there are signs that one reform which we have been urging on the organisers for years is beginning to be undertaken. We mean, the sectionalising of the exhibition. This has, of course, always been done for contractors' plant and woodworking machinery, also in some measure for painting and decorating; but this year the movement has been extended to heating and to electrics. This means that, if you are interested in either of these only, you need no longer trail all round Olympia to find your stands.

The overall impression which the building industry always manages to convey is one of extreme conservatism, even when things are really developing quite fast behind the scenes; and a survey of what has come to light in trade handouts does not alter this conservative impression. At the last exhibition oil-fired heating was being offered for the first time to the medium-sized home and small bore central heating was quite new. Also the timber trade was making a big effort to re-establish timber as a structural material. There are no comparable sales drives evident this year, though both of these trends are still developing. There is, however, an increased emphasis on air conditioning for the smaller job and in the field of traditional building construction there is evidence of a grand attack on the problem of finishes for the flat and near-flat roof. We were expecting an onslaught from manufacturers from the Common Market countries. This has not happened. Instead, the attack has come from the Scandinavians, particularly from Sweden and Finland who both have large pantechnicon stands on the second floor of the Empire Hall.

This year we are following our usual plan of dividing the exhibition into manageable sections, giving a plan of each (but excluding territories devoted to woodworking machinery and contractors' equipment) and noting briefly such items on the stands within each section which the stand holders claim to be "new" and which they have told us about. Since stand holders like to spring surprises

on their commercial rivals, this account is always far from complete. Also many items which sound interesting in a preliminary handout, prove to be much less so in the event. To get round the exhibition calling at each stand takes one man three days (as we know from hard experience). Because no architect can afford anything approaching this expenditure of effort, we are again following the precedent of last time by giving a short itinerary for the busy man who only has two or three hours to spend.

This itinerary is based partly on past "form," partly on the interest of what the firms have told us in advance. We call it a "short itinerary" and so it is; but it passes all through those parts of the exhibition floor which are of direct interest to architects. So you can tell yourself that, like American tourists, you have "done" the exhibition when you have completed it.

If there are any special firms you want to visit, then turn to page 971 where you will find an alphabetical index of exhibitors. This index will tell you in which as section their stands appear.

Diary of meetings

Craft training and technical skills in a developing economy. Saturday, November 18, 10.45 am to 4.45 pm, conference room, Grand Hall entrance. Organised by the Building Exhibition.

Technical information: Its design and dissemination. Monday, November 20, 10.25 am to 4.30 pm, conference room, Grand Hall entrance. Organised by the Building Exhibition.

Cranes for the smaller contract. Tuesday, November 21, 3.30 pm to 6.30 pm, conference room Grand Hall entrance. Organised by the London Building Productivity Committee.

Architectural design for the disabled. Thursday, November 23, 10.30 am to 4 pm. conference room Grand Hall entrance. Organised by the Building Exhibition and the National Fund for Research into Poliomyelitis.

Working drawings in the building industry. Friday, November 24, 10.15 am to 5 pm, conference room, Grand Hall entrance. Organised by the Building Exhibition in conjunction with the

Design for mechanisation. Tuesday, November 28, 5pm to 7.45 pm, conference room, Grand Hall entrance. Organised by the Ministry of Works.

The busy architect's itinerary

Make your way to the Addison Road Entrance in the Grand Hall, that is to our Section 1 On the left of the main gangway you will find

202 The Stone Firms Ltd

making a big drive to put natural stone back on the map, and have a number of interesting things to show, including storey height stone faced precast concrete units

The stone quarrying industry is

Immediately next door is 203 Alcan Industries Ltd

Look at sealed end Snaprib, giving a watertight joint at eaves and ridge of aluminium roofs of low pitch

For Polyclad patent glazing and a

Here you will find a new pvc coated steel roof deck and a copper clad

number of new windows

For two new wash basins

bitumen roofing

One stand down across the gangway is

184 185 Henry Hope & Sons Ltd

You now cut across two more gangways to

145 146 William Briggs & Sons Ltd

You now turn on your tracks, cross the central gangway and make your way down to

246 Adamsez Ltd 284-286 The British Uralite Group of Companies combat condensation

At this point you cross the transverse gangway into Section 2. On the gangway, in row H, you find

248, 249 John Thompson Beacon Windows Ltd

Moving up the gangway you reach

208, 209 Pilkington **Brothers Ltd**

You are now in the central gangway again. You move two stands down to

211, 212 Langley London Ltd Immediately opposite is 190, 191 Crittall

Manufacturing Co Ltd

154, 155 Brockhouse Steel Structures Ltd Passing into Section 3 (though it is almost next door) you come to

This is always an interesting stand. One unexpected item is an electric

Who show an insulated flue to

No new products that we know about here, but much entertainment

cooker for building into the wall

For their collection of clay tiles, also for a Continental bitumen roofing

Some new casement fittings designed by RCA; also the idea of the winter sash (not new) and a number of new window designs

Where you will see a three-storeyed CLASP structure

Now make your way across two gangways to

127 Dexion Ltd

Making your way back to the central gangway, you find

194 The Carter Group of Companies

Farther down the transverse gangway you reach

254 Cape Building Products Ltd

Making down the Grand Hall for the last time you reach

221 The Architectural Press Ltd

You are now on the verge of Section 4 which is the heating section. It is difficult to name stands in this section which call for special attention, but two which lie conveniently near the gangway through to Section 5 may well be worth a look. They are

407 Richard Baxendale & Sons Ltd

and next door
401 Hall-Thermotank Ltd

You pass now into the Empire Hall, the right-hand half of which, Section 5, is the electrical section. The only electrical stand which can be called a "must" is

332, 333, 352, 353 The Electrical Development Association

Close to the escalator which you will use to get up to the next section is

349 Isora Illuminating Ceilings Ltd

You now go up the escalator to the Empire Hall first floor and into Section 6. This is devoted to painting and decorating and, once more, it is hard to pick out individual stands. We favour two:

1104-1107 The Wall Paper Manufacturers Ltd 1035, 1036 Artists and Architecture

You now make your way towards the National Hall Gallery; but, before you get there, there are two interesting stands in

Section 7. They are 1013, 1014 James Booth Aluminium Ltd

and, next door

For some new timber trusses and a new insulated flat roof system

Who also take much trouble over their stand and always have something interesting to architects

Who always have a good looking stand and this year, like the ΔJ_{ν} , are going all out on sfb/UDC

Where the AJ's shake-up of technical information is explained in diagrams

Who have a new warm air central heating unit

Who have a new industrial illuminated ceiling, also a sound-proof window

Who show recent electrical apparatus for built-in kitchens

Who show their new Thermalucent ceiling. Heat and light

For their large-scale Palladio range of papers

This is the LCC's exhibit, showing how they use the services of Anthony Holloway and William Mitchell, the mural designers

Who have a new aluminium sheet and some fascias and copings

1015, 1016 Frederick Thomas & Co Ltd

Though Section 8 has a number of things of minor interest, there is not one which forces a stop, so walk down the length of the Hammersmith side of the Gallery till you come (in Section 9) to 951 Design for the

Disabled Immediately opposite is

949, 950 The Timber Development Association

A few stands further round is

943 The Beves Group

You now pass into the Grand Hall Gallery and to Section 11. Keeping all the time to the outer edge, you go on till you reach two stands on the far corner. They are \$11 BTB Ltd

814 Plyglass Ltd

Continue on round till you

830 Ceramic Consultants

You now continue on into Section 10 and, turning the corner, you reach the Government departments. The most promising of these are

855 Department of Scientific and Industrial Research 857, 858 Ministry of Housing and Local Government

There is one more stand to be seen in this section

867 The Airscrew Co and Jicwood Ltd

You now return to the escalator in the Empire Hall and go up on to the second floor and Section 12. Here there are two stands to be seen or, rather, two groups of stands. They are

1300-1320 Sweden

For some new lighting fittings

Where you will get design data relating to an overlooked part of the community

This should be very interesting; showing new flooring and new roofing. Designs evolved with BRS

Timber once more. Main interest prefabricated roof trusses

Who are showing Profilit constructional glass

For some new curtain walling and a new double glazing unit

Who describe themselves as "a group of young ceramic manufacturers, ceramists and designers"

For sound insulation between dwellings

For housing for old people

Who have a new system of suspended flooring

This stand shows the work of 36 Swedish firms and, in addition to usual Swedish exhibits like door handles and mosaics, includes such items as electric cookers, central heating boilers and plumbing fixtures. The Finns are mainly showing ironmongery, but there are also some lighting fittings and wall paper

1321-1340 Finland

You have now completed the tour. You go straight down by escalator and out into the Hammersmith Road and fresh, if not clean, air

The Building Exhibition Olympia 1961

Grand Hall

Section

The ground floor of the Grand Hall is the traditional site of the general building section. At this end of it, a number of interesting developments are to be seen. On the right of the central gangway Henry Hope (184, 185) show their new Polyclad patent glazing. Next door Gardiner of Bristol (183) show their Mark IV standard structure. Metal surfaced bitumen roofing is a characteristic new item this year: William Briggs and Sons show a copper clad version on stand 145, 146. There are two interesting exhibits on the left of the central gangway: on 202 the Stone Firms show a method of using stone as permanent shuttering and some ceiling height stone faced concrete panels, and next door Alcan Industries (203) show sealed end Snaprib for forming integral eaves or ridge filling on roofs of shallow pitch. Lastly, British Uralite (284-286) have an insulated flue to stop condensation trouble.

Chubb & Son's Lock and Safe Co Ltd

The new range of Chubb security locks will be shown. The principal item in this range is the Castle mortice deadlock. A complete range of Chubb security padlocks and padlock bars will be shown, including the new Revobar, Chubb window devices designed to give added protection to windows will include security bolts and dual screw unit for wooden casements and a metal window lock. Chubb safes and fire resisting equipment for the protection of business records will be represented.

102, 103

Lignacite (North London) Ltd

The aim of the stand will be to illustrate the characteristics of Lignacite building block. In addition to thermal, sound and fire insulation, care of cutting and decorating will be shown.

Hartington Conway & Go Ltd

In the construction of the stand, Litaglass translucent corrugated glass fibre reinforced polyester resin sheets, both clear and coloured, will be featured. Decorlite and Decortile, two new products, with a plate glass finish, will also be displayed.

106

Amongst a display of plumbers'



will be shown; the 2110 Pillar Tap in which nose and body are one to give a simple unit without crevices or projections, and the Deck pattern combination sink fitting with hot rinse attachment. The latter also has a patented changeover device to divert the hot water supply from spout to rinse. A combination bath fitting designed to be suitable for direct connection to the main supply, and the established Fairline range of taps will be shown in addition to a selection of forged brass and gun metal valves for the control of steam, water, oil and air.

107 Crosby & Co Ltd

The Primaseal hardboard flush door will be shown for the first time. This unit only requires two final coats of paint, Also making its first appearance will be a new door out of the range of plastic faced doors manufactured by the company.

135, 136 Tretol Ltd

The three main Tretol companies have combined to display their range of products. The Tretol Ltd section will show waterproofing treatments, and the recently developed Tretol Epiflor epoxy flooring composition. The latter is an oil and chemical resistant floor topping, designed principally for industrial buildings. Tretol-Services Ltd will be exhibiting their range of expansion jointing systems. The display of Tretol Associated Products Ltd will show four main building adhesives: Tretobond general purpose contact, insulation board, acoustic tile and expanded polystyrene adhesives, in addition to adhesives for linoleum, wood-block flooring etc.

Econa Modern Products Ltd

The stand will display examples of many types of tubular copper traps, waste fittings and preformed waste ranges manufactured by the company, together with prefabricated copper and galvanised steel soil stacks, store enamelled copper radiators and copper towel rails and a range of domestic water softeners. New products to be shown include tubular copper one piece traps incorporating the new Econa tolerance compression joint outlet, a range of tight radius copper and steel bends, and the Sorta Flask portable water softener.

138 Bolton Gate Co Ltd

Wonderfold, a new lightweight spacesaver partition finished in washable leathercloth will be shown for the first time. Another new exhibit will be a raycontrolled automatic operator device for shop and restaurant doors. The new double garage Glydover door will be demonstrated and other examples of the wide range of Bolton gates and doors will be included in the display.

139 Bakelite Ltd

The stand will include Warerite decorative laminates, Warerite wallboard, the recently developed Phenolic foam thermal insulation material, Polyester resins, and Polyethylene film for protecting buildings under construction, representing the company's developments in plastice for the building industry.

141 Pivcol Ltd

Plycol Ltd, marketing organisation for the wide range of specialised building materials manufactured by companies of the IBE group, will be showing new concrete and mortar additives, a number of new adhesives for wood, and established Plycol products including protective compounds for roofing, flooring DPC's, adhesives and compounds, flooring seals, primers, paints and solutions for metal treatment and cladding compounds for insulation.

142 Colthurst, Symons & Co Ltd

This firm will show their traditional range of hand-made clay single lap tiles.

143. Gelcon Ltd

The exhibit will be built entirely of Celcon lightweight loadbearing cellular concrete building blocks. Examples will be shown of internal and external finishes that can be applied to this material. The company also specialises in forms of in-situ cellular concrete including lightweight insulating roof screeds, lightweight floor screeds, pipe insulation, in addition to lightweight structural roof slabs and precast insulating slabs.

144 Johnson's Reinforced Concrete Engineering Co Ltd

Products to be displayed will include Johnson's lattice reinforcement, examples of mild steel reinforcing bars, Briktor wall reinforcement and welded wirework. The company's design service will illustrate projects carried out, and the subsidiary company, Benfix Steel Co Ltd, will show prefabricated open web joists and joist bangers.

145, 146 William Briggs & Sons Ltd

The stand is designed to demonstrate the various uses of Bitumetal roof decks and Bitumetal ceiling. Two new products will be displayed for the first time—Colorclad Decking, a steel deck with a pvc coating on the underside, and Copper Foil roofing, a bitumen roofing with a copper foil finish laid in a decorative tile pattern to give the appearance of a copper roof.

147, 148 The National Federation of Clay Industries

The stand, designed by Trevor H Ason as a result of a competition, aims to

display the versatility and adaptability of bricks and other burnt clay products. Two large panels will display decorative brickwork. Vertical tiling, a selection of bricks in special shapes, ridges and fittings for roof tiling, and floor quarries will be included on the stand.

176 Pyrok Ltd

The stand designed by K. V. Norrish FRIBA will be dominated by a column of coloured Pyrok cylinders. The new de luxe surface treatment will be shown for the first time. A photo-mural exhibition will illustrate important contracts carried out.

177 Burgess Products Go Ltd

The stand will consist of a double storey structure to display the range of Burgess all-metal suspended ceilings. A new 4 ft by 2 ft module without ribs will be shown, also a Burgess electrically heated ceiling.

178 Fibreglass Ltd

The use of fibreglass, in particular for insulation, will be demonstrated on the stand. A new method of attic insulation, fibreglass resin bonded slabs as insulation to electrical floor-warming systems and the recently extended range of rigid sections for insulating pipe work will be shown. The structural use of fibreglass will be represented by a 25ft flagpole.

182 Bryce, White & Co Ltd

Doors will be the main feature of this stand including garage and fire check doors. There will also be a selection of wallboards, together with an illustrated display of partition and ceiling contracts carried out by the company.

183 Gardiner, Sons & Co Ltd

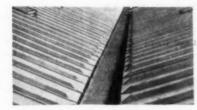
The stand will show a new Mark IV of the company's standard building construction. This has been designed to cover special requirements of hospitals and commercial buildings. The system, based on a 2ft 8in planning grid, is of composite construction, comprising a mixture of structural steel, precast concrete and in situ concrete, and includes standard aluminium windows and various extrusions and pressings to receive other building components. The new Mark IV system has a two hour fire grading and the free-standing column detail permits the windows to pass in front.

184, 185 Henry Hope & Sons Ltd

The stand designed by Kenneth Grange, FSIA, will include several new products. The exhibits will include Polyclad patent glazing, a new plastic covered patent glazing, aluminium Sunbreakers, the Austral window suitable for hospital wards incorporating the new



Adamsez Lotus Alcore basin



Alcan Noral sealed-end snaprib sheet on industrial roof



James Barwell combination sink fitting and hot rinse attachment

Below, Greenwood Air Vac Mechavent Mark II extractor fan; bottom, Greenwood Airvac permanent horizontal window ventilator in extruded aluminium





aluminium weatherstripped sections, double glazed double hung windows, curtain walling, a double hung vertical sliding stainless steel window, a horizontally sliding window, and Hope's glass roofing. In the standard window range, a kitchen window that can be easily operated across a sink will be shown, in addition to Hope's latest Ventana louvres and a reversible window unit.

186 Redland Tiles Ltd

The stand has been designed by R. Mountford Pigott & Partners to show the company's range of roofing tile patterns, cladding tiles, Kentstone paving, walling and garden products and Rymway rainwater goods.

201 William Oliver & Sons Ltd

An extensive range of timbers will be shown incorporated in the design of the stand, including timber wall panelling, a staircase with treads in various timbers, and a selection of different hardwoods. Showcases will display 360 different types of timber, and technical literature will be available.

202 The Stone Firms Ltd

The exhibit will illustrate the story of the latest techniques in all aspects of stone masonry production, supply and fixing. This will include the new Thinwall system in which Portland Stone is used as permanent formwork, the new storeyhigh stone-faced concrete panels and machine textured stone slabs, together with new lines in stone cladding. The stand will also show fireplaces in polished marbles and granites designed by John and Sylvia Reid, precast units, a wide range of natural exposed aggregate slabs together with examples of Myko beam construction. In addition to the range of Oolitic limestones, materials supplied and fixed by The Stone Firms will include marbles and granites.

203

Alcan Industries Ltd This stand will give prominence to two new features on certain of the Noral aluminium building sheets. As an alternative to natural, alocromed or pyluminised finishes there is a new paint finish, baked-on vinyl coating. The second feature is a sealed-end effect to aluminium building sheets. Sealed-end snaprib, in which the ends of the sheet are folded to form an integral eaves or ridge filler, is designed to give weather tightness at very shallow pitches. A sealed-end industrial sheet is also on display. A newly developed Noral wide-pitch industrial sheet, and a curved Noral deep trough industrial sheet will be shown for the first time. Miniature corrugated sheets suitable for interior panelling and decorative work, embossed sheets, a variety and the application of extruded sections, panels

of interlocking fascia sections, and handrailing. The range of anodised light-fast standard colours, fully supported roofing, treadplate and aluminium paste as a pigment for paint will also be on display.

203a

The Modular Society Ltd

The Society will be exhibiting its modular symbol and literature—the Modular Quarterly and Modular Catalogue.

204-206 Greenwood's & Airvac Ventilating Co Ltd

A comprehensive range of rooflight ventilators, roof extractors, louvre ventilators, fans and housing ventilators will be shown. New designs to be displayed include the Maxadome rooflight ventilator, constructed of aluminium with centralised louvre operation: the Mechavent roofline powered roof mounted extractor ventilator with capacities ranging from 300cfm to 27,000cfm: the Mechavent 75 Mark II extractor fan, a self-contained wall mounted fan unit for domestic kitchens, stores, hospital wards, etc; the Mechavent canopy for fitting over domestic cookers; and the Permavent window ventilators in extruded aluminium. Greenwood Airvae conduits, purpose-made underfloor, skirting and floor surface duct systems will be included on the stand.

207 Sussex and Dorking United Brick Companies Ltd

The exhibit consists of a range of 80 different types of facing brick. Glazed bricks and moulded ceramic tiles, flooring of brick paving and flooring flags will also be shown.

233

J. Gliksten & Son Ltd

The stand will be constructed from hardwoods, plywoods, softwoods and building boards supplied by various companies in the group and will include a range of flushdoors with the Silkstone flush door that is sealed and primed in the factory delivered ready for painting. The display will include a special plywood developed for concrete shuttering.

234, 235 Sommerfelds Ltd

The stand will illustrate specialised features of the structural steelwork of the company and will illustrate contracts recently completed together with working models of Sommerfeld Flexboard portable roads and surfacings. The display will include standard lattice beams and steel lattice purlins for house roof construction.

236

Holcon Ltd

The Carda Organisation will be represented by a show of both familiar and new forms of carda window. A new type of light weight external aluminium cladding will also be shown.

Sealocrete Products Ltd

In addition to established products, the stand will feature a range of Sealocrete products for treating concrete, external surfaces, and concrete floors, Sealantone liquid colours for cement, a bituminised waterbar and pvc waterbar for waterproofing construction joints, mortar and concrete plasticisers, Sealobond pva bonding liquid for keying renderings to smooth surfaces without hacking, and a range of corrosion resistant decorative finishes will be shown.

238, 239 Celotex Ltd

A wide range of ceiling products will be shown. In addition to the standard type of insulation boards, there will be the new Designer ceiling tile, a 12 in by 12 in unit with t & g edges for concealed fixing. A new Acousti-Celotex tile Extra produced in three patterns and four new mineral fibre tiles, Celotone, Striatone, perforated mineral and glass filament acoustical tiles will be amongst the acoustical products. Celotex metal suspension systems will also be shown.

240

Boulton & Paul Ltd

In addition to a selection of standard joinery for windows, doors, kitchen fittings, staircases, etc, new features will include a window unit incorporating adjustable glass louvre blades, the Aluk window with a wood frame faced externally with anodised aluminium and a newly-designed casement stay and fastener. Bondenn brickwork reinforcement will also be on display.

T. & W. Ide Ltd

As glass manufacturers the company's stand will feature the Twide continuous curved rooflights with gable or half dome ends, glass domes, curb and linings,

Model of Henry Hove stand



hinged ventilating units in aluminium for Twidex domes, Twide drop flat rooflights, Maxadome ventilating units, the Anguside glass cladding and the Twidex acrylic domes.

242

Noelite Ltd

The stand will show the range sizes and colours of Noelite paving. The non-slip surface will be featured, and various types of dwarf terrace and boundary walls suitable for housing schemes will also be shown.

244, 245 Semtex Ltd

In addition to their wide range of flooring products, Semtex Ltd will be showing some new developments in flooring materials and a new flexible pipe lagging. Additions to the flooring products include a new colour range in the established floor finishes. Foamflex, a flexible plastic foam material for insulation of pipework, will be displayed. Synthanite floating screed, Semroc cement-based tile for industrial flooring. Exolin battleship grade linoleum will also be shown.

Adamsez Ltd

The established range of Lotus sanitary ware has been extended and the stand will show the latest spiral and pedestal basins, bidets, drinking fountains, and the new Lotus-Alcove basin. In addition the Leaf Lotus pedestal basin in which basin and pedestal are cast in one piece will also be shown. The company hopes to show a new basin designed specially for spastics.

247 Cafferata & Co Ltd

The stand will display examples of the company's building plasters and exhibits of ceramic ware produced by manufacturers who employ Cafferata pottery grade plaster. However, the main emphasis will be on Murilite pre-mixed perlite plaster and Thistle acoustic plaster designed for sound correction in building.

Ferodo Ltd

A new development in stair finishes—a new type of stairtread material designed for outdoor use in all weathers-will be shown for the first time. This material takes the form of a moulded infilling and is available in a single stone colour for all current Ferodo stairtread channel sections. Other features of the stand will include examples of different methods of fixing stairtreads to various types of stair fabric and a selection of treatments for curves and stair-ends. A range of existing installations will be illustrated.

Kerner-Greenwood & Co Ltd

The company will be exhibiting their range of products which include Pudlo cement waterproofing, paints and treatments and Pensol fire cement. Technical experts from the advisory serivce will be available to deal with

279

Tomo Trading Co Ltd

The stand will show purpose-made coupled sash windows, double glazed picture windows, horizontal-pivot-hung windows and Tomo double glazed doors. In addition there will be a display of door and window hardware of Swedish design, Tomo pleated blinds, and the new Tomo venetian blinds.

Thermalite Ytong Ltd

The display will show Lytag and Thermalite exhibits, both members of the Laing Group of companies. Lytag Ltd will show three grades of Lytag lightweight aggregate and the types of concrete that can be made with them. including honeycombed and no-fines concrete that give a considerable saving in weight. In addition, concrete with high insulation value suitable for roof and floor screeding will also be shown. Thermalite Ytong Ltd will display Thermalite reinforced units 91 in thick for spans up to 19ft 6in partition units with plastered finishes, together with horizontal and vertical external wall units for painting direct.

Hygiaphone (England) Ltd

The display will feature the Hygiaphone, a transparent draughtproof window to prevent the spread of infection, incorporating a method of amplifying any voice directed on to it.

282, 283 Stramit Boards Ltd

The display will illustrate the many applications of Stramit compressed straw slabs. All types of Stramit partitions will be shown, from the simple timber frame up to the demountable Movaflush. Stramit in roof and floor construction, wall lining, new facings for curtain walling, lagging units and Stramit accessories will also be shown.

The British Uralite Group of Companies

The exhibit will show a range of roofing materials and their application to surfaces encountered in building. Cellactite fire resisting protected metal sheets are featured as roofing and side sheeting with a new Cellactite profile to be shown for the first time. Medway, Hillstack and Hillridge ventilators will be displayed. A new decking, Weatherdeck, will be featured, in addition to Nuraphalte and Nuralite materials. The Urastone Company will show in addition to their standard rangeof moulded asbestos, cement rainwater goods, flue pipes, ducting and fittings, and the recently introduced Twinwall insulated wall flue designed to combat condensation.

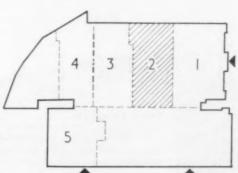
The Building Exhibition Olympia 1961

Grand Hall

Section

This is an important section with a large number of stands which are liable to prove interesting. Pilkingtons (208, 209) are always worth a visit, so are John Thompson Beacon Windows (248, 249) and Crittall (190, 191). Interesting products in the section include Brockhouse's three-storey construction (154, 155), Colt's new control system (231, 232), ICI's new wall lining named "board tiling," (172-174) and Langley London's Veral bitumen roofing (211, 212).

HILLS PENFOLD 130 BROCKHOUSE IRON & BELLROCK EXPANDED UNITED HARVEY 248 EXPANDITE



109, 110

The Belco Manufacturing Co Ltd

The stand will show an extensive range of shower fittings. Protecta thermostatic valves for both industrial and domestic use, sink mixing valves, lavatory and bath pillareocks, anti-syphonic bottle traps, antiscald and screwdown valves for hairdressers' equipment, Belco coloured sanitary seats will be included in the display.

111

The Tentest Co Ltd

The new Tentone and Tentile fibre insulation board ceilings, supported by a new type of metal suspension for both plain and acoustic materials, will be exhibited for the first time in this country. Various alternative materials for suspended ceilings will also be shown. The stand will include several species of Canadian prefinished Beauty Plank which provides a vertical planking treatment of tongued and grooved random widths for interiors and the Hornitex melamine plastic surface panels for furniture and interior panelling.

112, 113 True Flue Ltd

The stand will be set out in the form of an information and design centre. Amongst products to be displayed there will be the company's triple units, flue linings etc, type EF domestic external flues, shunt flues and ventilating ducts, se-duct gas flues, type x gas flue blocks, and Antiac refuse chutes.



Luxaflex aluminium suspended ceiling

Luxaflex aluminium roofing



Frenger heated and acoustic ceiling with embossed panel



128

F. Hills & Sons Ltd

The stand will show the company's range of doors, toilet cubicles, and Melamine faced boards. Zenith flush doors, Acme flush doors, Replicate flush doors and Melabord toilet cubicles will be shown.

131

Beecham Buildings Ltd

Although the company has been represented at the Building Exhibition before, this will be the first time that Beecham Buildings Ltd will display on their own stand. This will illustrate various types of buildings designed in the Beecham system of reinforced concrete construction.

132 Hunter Douglas Ltd

The stand designed by John Stephenson of the Conran Design Group will display Luxaflex venetian blinds, draw blinds, audio visual blinds and aluminium awnings produced by the company. Two new products will be shown. A system of aluminium building components (which can be used for infill panels, facade cladding, ventilation louvres, roofing, curtain walling and suspended ceilings), consists of spring tempered aluminium strips 3 % in wide. The Luxaflex Monocommando blind dispenses with the system of control cords and adopts a single actuating rod, which not only raises and lowers the blind but also enables the slats to be tilted to the required angle.

133 Berry Wiggins & Co Ltd

Bitumen in building will be the theme of the stand. A new product, Tensulac Thixotropic bitumen paint, heavy duty bitumen protective coating will be shown. Also the established range of bitumen waterproofing compounds, paints, adhesives for flooring and roofing felts, bitumen compounds to provide a vapour seal for insulation, a bitumen-asbestos compound for jointing metal and asbestos cement guttering, and mould oils for use with pre-cast and in situ concrete and other materials.

134 Hermeseal Acoustics Ltd

The stand will feature the company's acoustic materials. The range has been increased to include a random perforated tile. The module of the materials is based on 2ft except in the case of holloboard-super grade which is manufactured 8ft 2 $\frac{7}{16}$ in by 3ft 11 $\frac{1}{4}$ in.

149

Frenger Ceilings Ltd

Frenger Ceilings will be introducing a new textured range to their metal-pan all-over heated and acoustic ceilings. The acoustic absorption and heat output of these panels, manufactured in 22 swg aluminium, are similar to those of the standard Frenger tile.

150

Omnia Constructions Ltd

This year the size of this stand has been increased to suspend a fullscale Omnia concrete floor in such a way as to make it possible to examine both floor and soffit. The floor consists of a composite structure of reinforced concrete pre-cast planks, mass-produced hollow concrete blocks and in-situ concrete.

151, 152

Turners Asbestos Cement Co Ltd

The extensive range of roofing and cladding products for both single and double skin application, manufactured by the company will be represented. This will include asbestos-cement panels with the Hammerglaze panels which have a metallic appearance, roofing materials including the Everite flat roofing tiles, a selection of moulded asbestos cement goods ranging from cold water storage tanks to flower boxes, and the Turnal asbestos cement pipes for sewerage and drainage. A recent publication entitled Fire Protection of Structures will be available.

151, 152

Newalls Insulation Co Ltd

This will be the first Building Exhibition display for the Newalls Insulation Co Ltd. The new glass fibre insulation Interclad for all types of roof and side cladding systems will be featured. This material, which has resulted from the combined experience of Newalls and Turner's Asbestos Cement Company was specially designed for use with Turners' Combined Sheets, Interlocking Decking, Largespan Combined Sheets and Insulated Double Cladding.

154, 155

Brockhoues Steel Structures Ltd

The exhibit will take the form of a three storeyed building assembled from standard pre-fabricated steel components. Samples of various types of external cladding will also be shown.

168, 169

Bellrock Gypsum Industries Ltd

The latest addition to the Bellrock plaster building materials and equipment, Bellrock plasterboard (made to as 1230 in plain and insulating form) which incorporates wallboard, baseboard and lath, will be displayed. The stand will also show a complete range of White Heather plasters and Bellrock building panels, loadbearing units suitable for partitions and walls.

170, 171

Westland Engineers Ltd

The company will be showing a full range of products from industrial overhead doors to spiral window balances and school chalkboards. The Garador Mark 2 will be shown for the first time which operates on a similar

counterbalance principle to the established Garador. Welrise, Wellift, Welpak, Welfold doors will also be shown in addition to the Unique spiral window balances. A full range of Tabula chalkboards will be included in the display.

172-174 Imperial Chemical Industries Ltd

ICI (Hyde) Ltd will be showing Vynalast, an abrasion resistant pvc sheet for lamination to non-metallic surfaces, new smaller Coventry Panel Trim used as a decorative heading between the joints of the Vynalast partition, Novon Ten a thin, hard, semi-rigid pve foil for lamination direct to steel and non-ferrous surfaces, and Vynide coated fabric for interior use. The Heavy Organic Chemicals Division will show basic chemicals for protecting building materials from mildew and rot. The General Chemicals Division will illustrate the advantages and uses of chlorinated rubber paints, which are resistant to the conditions that cause rapid corrosion of metals. They will also show the new thick coatings based on chlorinated rubber. Billingham ready mixed lightweight plaster will be shown for the first time at Olympia by the Billingham Division who will also be showing a new wall lining-board tiling with Pioner plasterboard. A range of copper and copper alloy products will be shown by the Metals Division where Imperial Aluminium Co Ltd will also be represented. Nobel plasters will be displayed. British Visqueen Ltd will display methods of employing polythene sheeting.

187 Expanded Metal Co Ltd

The Permalock demountable partitions, a new system of partitioning, will be on

show for the first time. This consists of a light steel framework of channels fixed at floor and ceiling with push-in battens for fixing panel boards. A standard range of doors and windows will be included. Three types of acoustic ceilings will also be shown with illustrations of the use of expanded metal lath.

188, 189 London Brick Go Ltd

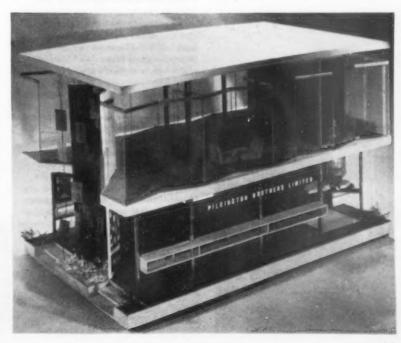
The stand, designed by John R. Harris ariba, will feature a pictorial display of the company's products. Apart from samples of the existing range of Phorpres products, four panels of bricks still at the experimental stage, will be exhibited to measure the reaction of the trade to the new colours and textures displayed.

190, 191 Crittall Manufacturing Co Ltd

The stand will incorporate the company's range of windows representing three important aspects—windows for UK housing, windows for overseas installations and special aluminium windows.

192, 193 Armstrong Cork Co Ltd

The company's comprehensive range of flooring and acoustic materials will be shown. The new products include Tacetone, a fire resistant acoustic tile with a straight patterned surface and Minatone manufactured from an incombustible mineral fibre acoustic board with either classic or full random surface patterning. Other new additions to Armstrong acoustic tiles are Golden and Centennial Cushiontone, both of which have a high degree of surface patterning. In addition to acoustic tiles there will be a display of mechanical





Armstrong Tacetone incombustible mineral



Colt pneumatic ventilator control system

Thompson-Tappen cooking top and oven



suspension systems. The Armstrong flooring display will show a selection from the pattern ranges of all their materials including the Accoflex vinylasbestos tile, the new vinyl Corlon sheet floorings and sundry flooring materials including protectors, adhesives, polishes and underlays.

208, 209 Pilkington Brothers Ltd

The stand will consist of a two storey all-glass building incorporating more than a dozen different types of glass including armourplate and vitrolite. The handrails of the stairway will be in thick roughcast glass. The Glass Age Development Committee's latest project 61—a 1,016ft glass tower—will also be shown.

210 Yorkshire Imperial Metals Ltd

A special feature of the stand will be a working exhibit of a small bore forcedcirculation central heating system demonstrating the application of Yorkshire Imperial copper tubes and Yorkshire capillary fittings to this type of system. The comprehensive range of fittings for making quick joints will include a new styled all-gunmetal Yorkshire radiator valve. Kuterlon copper tubing, supplied in long length coils, will also be shown. The recently introduced Rymway pvc rainwater system, and a wide range of pvc tubes and both polythene and pvc covered copper tubes for domestic, industrial, chemical and specific uses.

211, 212 Langley London

This stand will show some of the range of ceramics for roofs, walls and floors marketed by the Langley company. The display will include clay roofing tiles, glazed interlocking tiles, vitrified ceramic mosaics, ceramic floor tiles, glazed wall tiles and glazed ceramic wall screens. In addition, Veral bitumen roofing, a bitumen roofing faced with high purity aluminium or copper, will also be featured.

213 The United Steel Companies Ltd

Universal beams and columns will be used in the framework of the stand. A wide range of sections will also be displayed. An example of the tapered Castella beam, high strength friction bolts and photographs of some of the company's contracts, will be shown. In addition, Samuel Fox and Company Ltd will be featuring the use of stainless steel in building with particular reference to curtain walling construction.

229, 230 Metal Sections Ltd

Two new additions to their range of structural building materials will be of interest. Metsec Troughform, a system of permanent concrete shuttering, aims to provide a base for concrete floors and flat roof slabs poured over steel joists and beams which can be simple nailed into position if used with Metsec joists. A lightweight fire protection and plaster finish for structural steelwork, the Beatfyre system is also shown for the first time. This claims extreme speed in assembly due to its method of clipping on to the BSJ flanges.

231, 232 Colt Ventilation Ltd

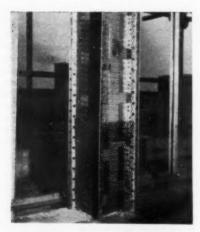
All Colt ventilating equipment on show will be connected and operable. New equipment to be shown includes the Colt pneumatic control system for operating up to 30 ventilators from one control valve and the new Colt continuous G.P. fixed louvres made of aluminium. The heating division features the Mark II Colt turbo-static oil-fired industrial air heater with a new method of oil firing. W. H. Colt (London) Ltd, exhibiting on the same stand, will show Colt Canadian cedarwood shingles and the Colt cowl with its new fixing device to adjust a standard cowl to fit any chimney pot.

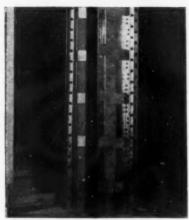
248, 249 John Thompson Beacon Windows Ltd

The company's wide range of products will be incorporated in the design of the stand. This will include the Pomeroy aluminium double hung sash window, standard inside glazed windows of particular application for multi-storey buildings, Beacon tradesman's delivery hatch for fitting into an external wall, pressed metal doorframes, aluminium grid window in which weather protection is provided by metal-backed mohair weather stripping, aluminium reversible window, Beacon Wallclad incorporating the Beacon cruciform mullion, Preswall curtain walling, and the Paraseal Windowall to be shown for the first time. Beacon industrial steel flooring and two models of the Thompson-Tappan range of electric cookers with hide-away cooking top and built-in rotisserie, will also be shown.

251 The Ruberoid Co Ltd

New Ruberoid rooflights, designed for fitting as an integral part of insulated deck roofing specifications, will be shown for the first time, with the latest developments in Ruberoid insulated metal deck roofings and Ruberoid copper roofing and the redesigned wrappers of the complete range of Ruberoid roofings. The principles of Rubervent, a method of dispersing vapour pressure from beneath weather. proofing, will be illustrated. The use of colour in roofing will also be featured in the stand. The display will include the new copper roofing manufactured from 42-gauge copper sheet backed with bitumen, the Ruberoid system of bridge waterproofing, mineral surfaced Ruberoid roofing, underslating felt, material for damp courses and Ruberoid roofing slates.





Metsec Beatfyre attached to steel stanchion. Below angle bead in place, above with wire mesh reinforcement fixed to angles

252, 253

The Marley Tile Co Ltd

New products will include a range of acoustic tiles of the new Marley Acoustic Division, with the Marley acoustic pyramid, the polystyrene Marleycel sound board to deaden impact sound between floors and Marlith wood-wool slabs. In addition, the new standard vinyl rainwater goods system and an interesting new extruded corrugated vinyl sheeting material, Marleyglaze, will be shown. A completely new type of folding partition, Marleyfold, designed primarily for commercial and industrial use, will also appear. It is manufactured in two versions, standard and acoustic, in sizes up to 50ft long and 30ft high. The partition is made up of a metal framework with leather grained pvc cloth finish. In the case of the acoustic model, a layer of glass fibre quilt is incorporated.

268 Secomastic Ltd

As specialists in mastic sealants, application of the material will be featured on the stand. Secomastic High Polymer, a butyl-based gum mastic, will be shown for the first time in addition to the established range of joint sealing compounds. An entirely new type of hand gun is to be shown, the Mark II G gun. Other new products include Secoproof, a bitumen/rubber latex waterproofing emulsion, and Secomastic Clipstrip, a metal cover strip for open joints in walls and floors, Micanox, a new anti-corrosion coating for ferrous metals will be exhibited in this country for the first time.

269, 270 Expandite Ltd

Among the jointing materials, sealing compounds and mechanical appliances for building manufactured by the Expandite group of companies, there will be two items being shown for the first time. The Philplug plastic plug is a new addition to the wide range of Philplug fixings and bolts for masonry, concrete and brickwork. It consists of a plug with a serrated profile designed to give a positive grip when the screw is inserted. Philplug Expandabolts for heavy fixings are also a new addition and comprise a setscrew, a sawtooth split-sleeve and a threaded cone wedge.

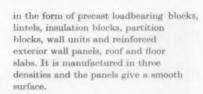
271 Novobord

The stand will illustrate the complete Novobord production process.

73

Durox Building Units Ltd

Durox aerated concrete originally produced and extensively employed in Sweden, incorporates a cellular structure that aims to give good insulation amongst other qualities. Durox is manufactured



274

The London Sand Blast Decorative Glass Works Ltd

New types of processes will be exhibited including additions to the Ceraglas range of wall cladding; patterned grey silver examples, an entirely new technique of tool engraving and two entirely new types of engraved church windows in \$\frac{1}{2}\$ in obscured polished plate glass. In addition, a Perspex panel, sandblasted, engraved and coloured in a new technique with processes of colouring showing different light values and textures, will be shown.

287, 288 The Rawipiug Co Ltd

The company will show a wide range of Rawlplug fixing devices, Rawlbolts, the new Rawlset anchor for any length of metal screw and the strong double action expansion duplex anchor for Whitbolts. The stand will also show three familiar power tools for masonry drilling and de-speeder attachments for electric drills. The display will be mainly concerned with methods of fixing to masonry.

Secomastic Clipstrip



The Building Exhibition Olympia 1961

Grand Hall

Section

3

There are a number of firms who can be trusted to have an interesting stand in this section. Among them are Carter (194) and Cape Building Products (254). Among the new products which sound interesting are some new trusses and a new insulated flat roof system on the Dexion stand (127), Quicktho's new aluminium double hung sash (260), Limmer and Trinidad's sprayed lightweight roof covering (214) and Eastwood's new interlocking concrete tile for low pitched roofs (216, 217). The Zinc and Lead Development Associations have sensibly made common cause on 255, 256 and, if you are hopelessly foxed by what the AJ is trying to do for you, you might look in at The Architectural Press on 221.

114, 115 Leca (Great Britain) Ltd

The use of Leca light expanded clay aggregate will be illustrated. This will include uses in shell roof construction, as building blocks, precast slabs and lintels, insulating roof and floor screeds, cladding panels, surface finishes, and in reinforced Leca concrete construction

117 Tuke & Bell Ltd

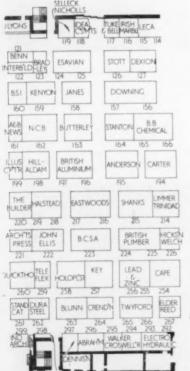
The exhibit will show apparatus and fittings for sewage treatment and pumping plant. Two types of distributing apparatus and a Brownson electrically operated sewage pump will be shown.

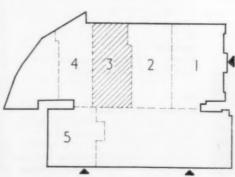
119 Selleck Nicholls Williams Ltd

The stand will show Reformite walling blocks designed to have the appearance and properties of natural stone and to be used as facing or loadbearing units. The blocks, 4in thick, are manufactured in three standard colours, silver grey, green and pink. Special colours can be produced to order.

Edwin H. Bradley & Sons Ltd

The display will concentrate on the company's reconstructed stone product Bradstone in a unit incorporating quoin blocks, traditional window surrounds, jamb and sill blocks, stone mullions, lintels and label moulds.





124, 125 Esavian Ltd

Allgate, an entirely new shutter gate constructed of marine alloy and incorporating new design features, suitable for depot, factory loading bay or warehouse use, will be shown for the first time. Other new Esavian designs in marine alloy will include a folding and sliding window which can be fully glazed, and a straight-sliding window.

126 Stetts of Oldham

As manufacturers of a wide range of industrial eatering equipment, the main objective of the stand will be to display the company's kitchen planning and design service. A team of technical consultants will be available to explain this service and to give opinions on all aspects of large-scale catering, from kitchen ventilation to canteen seating. Stott's latest enlarged edition of Large-scale Kitchen Planning Handbook will also be available.

127 Dexion Ltd

The display will include new products, and, in addition to the existing range of Unitruss, further new products in the development stage including a high strength wide-span truss. A new insulated flat roof system using §in plywood web, softwood flanges and Slagbestos thermal insulation is made up of 2ft wide units capable of spanning 20ft. A new trussed purlin has been designed for cross wall construction and has sloping top flanges to give direct support to rafters. Tecton standard flat roof beams will be seen fitted with firring pieces to give a fall of 2in in 10ft. An addition to the Unitruss range gives a pitch of 40 deg.

158

H. C. Janes Ltd

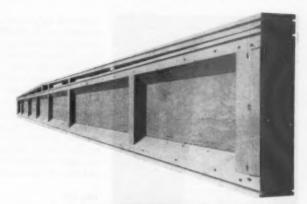
Modolite windows, panels and curtain walling will be displayed. A double glazed window consisting of two connected sashes hung to pivot horizontally and to rotate through 180 degrees for cleaning, will be shown for the first time.

Heavy duty pivots which allow for glass sizes of approximately 30sq ft, a variety of window furniture, infill panels and illustrations of certain selected contracts will also be shown.

159

William Kenyon & Sons (Metamica) Ltd

The stand will be devoted to insulation materials. Main features will be Kilnoise acoustic tiles which will cover the whole stand and the Kenyon demountable system which permits removal of tiles for inspection purposes. Rocksil building products, Metamica vermiculite fire cladding slabs for the fire protection of structural steelwork, Kenspray sprayed on fibre insulation, Isolite expanded polystyrene the lightweight insulation, and foamglas cellular stay-dry insulation



will be shown. Isolatt cork boards and tiles will also be displayed.

162

National Coal Board

The stand will display some of the bricks produced by the various divisions, including facings, engineering, acid resisting and common bricks. Some proprietary by-products to be displayed will include Synthaprufe liquid water-proofing, Presomet preservative for metals and Presotim preservative for timber.

163 The Butterley Co Ltd Aglite Division

Aglite, a high strength lightweight aggregate, suitable for prestressed and reinforced concrete, is to be used in the construction of an interesting stand designed by Ove Arup & Partners. The central feature is to be a convoluted horn made up from precast units of different lengths but from the same mould. The display will also show insulating roof and floor screeds and blocks.

164 Stanton and Staveley Sales Ltd

For the first time in this country, a 48in spun iron drain pipe will be exhibited. A 30in diameter strengthened spun concrete pipe with Stanton-Cornelius flexible joint will also be shown. The stand will include spun iron pipes, fittings and flexible joints, cast iron drainpipes, and a prestressed spun concrete lighting column for 25ft 0in mounting height.

165, 166 BB Chemical Co Ltd

This stand designed by Richard Lonsdale-Hands Associates Ltd will display the method in which Bostik has been used to seal the stained glass windows at Coventry Cathedral. In addition, the latest mastics and specially designed guns for applying mastics will be shown including Noxallac facade decorative weatherproofing process for curtain walling, Noxallac clear finishes for timber, Bostic contact Bondup adhesive (for laminated plastic panelling) and Bostik glazed tile adhesive. The



Two items from Dexion: upper, Tecton roof joist with sloping top flange; lower, Tecton trussed purlin for cross wall construction



Prototype model of Aglite stand

company's advisory service will be available to advise on problems of joint-sealing in construction.

194

The Carter Group of Companies

The stand will show clay tile, mosaic, terrazzo, marble and glass mosaic, materials offered by the companies in the Group. New features will include prefabricated ceramic faced panels, tiling sheets and the Dorset range of hard flooring tiles. The new Similpierre markle will also be shown.

195

D. Anderson & Son Ltd

The stand designed by John Bruckland ARIBA will feature aluminium E decking, Andek, Pyrodek and the Thermovent



Model of BB Chemical Co's stand

system of laying built-up roofing.

E decking is an aluminium trough
decking for spans up to 12ft available in
lin, 2½in and 3in deep sections. Andek
is suitable for roofing up to 15ft and
provides against condensation. Pyrodek
is a gypsum concrete roofing and the
Thermovent system provides ventilated
waterproofing which permits drying out
of the moisture from lightweight
concrete screeds, etc. Various patterns
of roof decking, the Anderson Red Hand
range of roofing and underslating felts
and dpc will also be shown.

196, 197 The British Aluminium Co Ltd

The theme of the display will be concerned with Information for Architects, and will feature the recently introduced British Aluminium Building Service and the manual Aluminium for Architects.

214 The Limmer and Trinidad Lake Asphalt Go Ltd

As contractors in asphalt for road and building construction, the theme of the company's stand will be the contracting service offered to architects and civil engineers. In addition items to be featured will include mastic asphalt for roofing, flooring, damp-proof coursing and tanking, together with a wide range of industrial and decorative floor finishes. Two new items to be shown will be Trinasco plastic roofing, a sprayed lightweight roof covering, and Trinasco resin flooring, designed for premises in which animal fats and mineral oils are a hazard.

215 Shanks & Go Ltd

A representative selection of sanitary fixtures manufactured by the company will be shown including some new items and some items being shown for the first time. Among the latter will be the Curzon bath with hand rails, Durester glass fibre panels for baths, hinged Perspex showerscreen, infants' bath in vitreous china, foot-operated supply valves for wash trough and foot-operated cistern mechanism, stainless steel plaster sink for hospital use, and the new range of Sannox fixtures for schools and public installations.

216, 217 Eastwoods Ltd

The stand, designed by Robert Gutmann of the Design Research Unit, lays emphasis both on Eastwood's production of heavy building materials (stock and fletton bricks, cement, aggregates and concrete tiles) and on Eastwood Sales Ltd, the distributing organisation. A new interlocking concrete tile specifically designed for low pitch roofs will be included.

218, 219 James Haistead Ltd

In addition to the Poly-Flor flexible pve

flooring which will be the basic feature of the stand, a new range of vinyl floor tiles simulating marble and terrazzo will be displayed for the first time. A comprehensive range of Ejecta flooring accessories such as nosing, coving, and stairtreads will also be shown, with a range of products produced by the new Glass Laminate Division including bathroom suites, sink units and the new Decracel translucent panels suitable for office partitioning, ceiling panels and curtain walling.

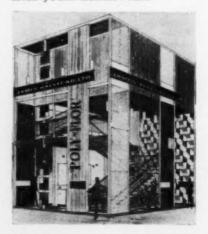
Architectural Press Ltd

The chief item of interest on this stand is a representation of the manner in which information is being processed in the AJ to meet architects' needs and the requirements of the sfs classification. Among the books published since the last exhibition are Lettering on Buildings, by Nicolete Gray; The Landscape of Roads, by Sylvia Crowe; Design and Detail of the Space between Buildings, by Elisabeth Beazley; New Buildings in the Commonwealth, by J. M. Richards; and the 7th and 8th volumes of Architects' Working Details.

222 John Ellis & Sons Ltd

The stand will be showing a selection of reconstructed stone, exposed aggregate finishes, mosaic cladding panels, cement finishes, cement paint, granite concrete paving, ceramic panels and the Stronghold coal bunker. The mosaics will include material from Scandinavia and Italy. The firm's granite concrete paving includes Texitone textured paving suitable for landscaping. Wealden ceramic cladding panels have a clay tile facing and are cast on to the face of precast concrete panels. Other products will include flower boxes, litter bins, bollards, floor beams, fence posts, and Stafford unit single-storey buildings.

Model of James Halstead's stand



Model of Eastwood's stand



223

British Constructional Steelwork

The main theme of this stand will be new lightweight methods for protecting structural steelwork from fire. A selection will show the various forms in which such protection can be applied including sprayed profile casings, casings built up on expanded metal and preformed units with and without additional plaster. Different types of suspended ceilings for fire protection will also be displayed.

224, 225 British Plimber Ltd

The stand is designed specifically to display the merits of the 16ft, 8ft and 4ft modules. In association with this, the specially treated surface of all standard plimber will be displayed for the first time. The material will be shown used for flooring, roofing, linings, panels and partitioning and for special application in shops, farm buildings and factories.

226

Hickson's Timber Impregnation Co (GB)

The stand, designed by J. Fox, ARIBA, will be built of protected wood, and will feature the subject of treated timber and timber products. The methods to be shown will include Tanalith water-borne fixed preservative, Pyrolith and Pyrestos Dribord flame-proofed fibre insulation board.

254 Cape Building Products Ltd

The display will feature the company's plan for the presentation of technical information which is being launched to coincide with the exhibition. The presentation will be based on the international sfn system and UDC classification divided into three volumes.

255

Lead Development Association

On an adjoining stand to the Zinc Development Association the LDA stand will illustrate the current practice in the use of lead sheet and pipe both in modern and traditional construction. The display will also show the sound insulation properties of lead sheet laminated to other materials for use in partition construction. Demonstrations of lead burning will be given, showing a technique that has come to be widely used by plumbers in building work.

256

Zinc Development Association

The ZDA stand has been designed to demonstrate some of the uses of galvanised structural steelwork and sheet zinc. Full size sections of zinc roofing, flashings and weatherings show the use of sheet zinc, and other zinc applications in modern building projects, will be illustrated.

257

The Key Engineering Co Ltd

As manufacturers of pitch fibre pipes, electrical conduit and duets, the company will be featuring several new products. These will include an 8in drain in Key drainpipe with coupling, bends and junctions in addition to a range of new fittings for underground drainage. A display of the Key stack plumbing system will include a 20ft stack installation with a range of new fittings for connecting plastic waste pipes to Key stack pipes.

258

Holoplast Ltd

New colours and finishes of corroplast corrugated sheets for roofing and cladding, the latest developments in Holoplast curtain walling techniques and new Decorplast patterns and colours will be featured on the stand.

260

Quicktho Engineering Ltd

In addition to the company's aluminium sliding and rolling windows and Windowall system of curtain walling, a new aluminium double-hung sash will be shown. This window operates on the spring balance system and incorporates a pvc running and weathering strip.

262

Durasteel Ltd

The main feature of the stand will be structural fire protection. This emphasis will be relative to the new powers of inspection conferred by the Factory Act and the increased activity of the Brigade Fire Prevention Officers, and thus the display will be particularly concerned with fire risks in industrial projects and multi-storey buildings.

263

Allan Blunn Ltd

The stand will display Galt fibre reinforced products in the form of corrugated roof lights, dome lights and decorative sheetings with examples of the Morlite lantern type ventilator, Continental building sheets and Westmorland green slate panels.

267

A. Elder Reed & Co Ltd

The display will show a selection of glass mosaic, ceramic mosaic, marble and quarzite wall and floor cladding materials, and flooring materials including marble and Norwegian quartz terrazzo. The materials include Saivo glass mosaics, Vaccari ceramic mosaics and Salirma marble tiles, all manufactured in Italy.

292, 293

Electro-Hydraulics Ltd

Automatic door operating equipment will be demonstrated in which the operating mechanism is normally activated by low voltage floor mat switches either side of the door.

294, 295

Walker Crosweller & Co Ltd

Three new products in the field of water temperature control will be shown by Walker Crosweller & Co Ltd, manufacturers of Leonard thermostatic mixing valves. These will include a new design of thermostatic mixing valve combining thermostatic control and flow control, a mechanical mixing valve for domestic showers and basins, and the company's sn 4 valve specially designed for controlling the circuit temperature of small bore heating installations. In addition, the company will show a wide range of mixing valves and the latest type of Unatap spray mixing tap

298

British Ceramic Tile Council

The council's stand will feature ceramic tile fix. cTF is a thin bed fixative for fixing ceramic tiles to brick, concrete or cement, aiming to avoid the mixing and use of sand and cement. It consists of a ready-mixed plasticised cement requiring the addition of water before use. There are two grades for walls and one grade for flooring.

4

This is a part of the exhibition floor which is being slowly turned into a one-subject section. The subject is heating—by all fuels except electricity—and the confluence of heating firms has been much speeded up by the consideration that Dallow Lambert (534, 535) have serviced the area with exhaust flues so that, if a firm want to burn their fuel on the spot, this is the only part of Olympia where they can do it. This is not a great year for heating innovations, but Richard Baxendale (407) have a new warm air central heating unit, Glow-Worm Boilers (431-433) some recently introduced panel radiators and skirting heaters. ESWA (446) show a new ceiling heating system from Norway, while CDA (449, 450), CUC (416, 419) and the Gas Council (426, 427) are showing prefabricated copper plumbing, small bore central heating and gas heating, respectively.

K401

Hall-Thermotank Ltd

The main feature on the stand will be the new Hallmark ceiling recently introduced by Lumenated Ceilings Ltd. The standard modules are constructed of tensioned pvc film and are supported on a lightweight galvanised rolled steel framework. Sections of other types of Lumenated Ceilings, a sound resistant window manufactured by Sound Control Ltd, a model escalator to represent the equipment manufactured by J. & E. Hall Ltd, and various patterns of ventilation louvres and diffusers manufactured by Thermotank Ltd will also be displayed.

402

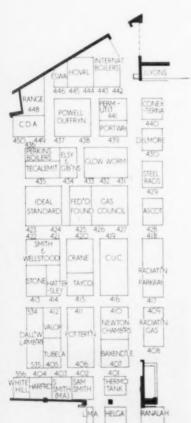
Samuel Smith & Sons Ltd

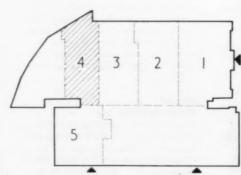
Two new appliances will be shown at the exhibition, the Kensington convector fire and water heater and the Knights-bridge drop front fire. The Kensington unit will be of interest.

403

8. Smith & Sons (England) Ltd

The stand will feature Smiths
Models 30 and 40 domestic oil-fired
boilers. The heat output of the first is
30,000 Btu/hr and has fully automatic
ignition and thermostatic control, a
time switch and a safety device
incorporated in the thermostat. The
Model 40 is similar in appearance but it







Redfyre Centramatic 50 oil-fired boiler

has a heat output of 40,000 Btu/hr achieved by employing a fan in conjunction with baffles in the heat exchanger. The Model 40 also has fully automatic ignition and thermostatic control.

405

Tubela Engineering Co Ltd

The stand will show a selection of the company's tube bending machines. The Hainault Engineering Co Ltd, an associate company, will exhibit their new H.400, 400,000 Btu/hr automatic oil fired air heater, a free standing or ducted installation designed for heating areas of 3,000 sq ft to 6,000 sq ft (depending upon height and construction).

406, 411

Thomas Potterton Ltd

A representative selection of Potterton oil-fired and gas-fired boilers will be displayed. The new gas-fired Potterton Warm Air Circulators will be featured on the stand. These are available in three sizes, 35,000, 55,000, and 75,000 stu/hr.

407

Richard Baxendale & Sons Ltd

Baxi will be showing three new exhibits on their stand: the Baxi patent fire, Burnall model, specially produced to meet requirements in the smoke control areas; the Baxi-Pak open fire central heating unit to supply domestic hot water; and the Baxi-Oil 30A oil fired warm air central heating (incorporating stub ducts) designed for central location in a house.

408, 409

Radiation New World Ltd

As a member of the Radiation Group, New World will be showing a varied selection of appliances. The New World Sunbeam 888 gas room heater, which incorporates automatic ignition, will be shown for the first time. The display will include other forms of gas heating, cooking appliances, refrigerators, and water heaters.

410

Newton Chambers & Co

To be shown for the first time at the Building Exhibition are the fully automatic oilfired central heating boilers, the Redfyre Centramatic 35, and 1961 Design Centre Award winner, and the Redfyre Centramatic 50 Series II. The latter is designed to fit into a kitchen layout and incorporates a printed circuit for its main control system. Capacity of the Series II is 53,000 Btu/hr, and the unit is fitted with electric ignition to achieve economy of fuel. The theme of the stand will be home heating and will include a selection of Redfyre solid fuel fires and backboilers.

The Valor Co Ltd

Several new domestic heating products will be shown for the first time. The stand will include a working system with a Valor oilfired boiler incorporating

the Valor copper rod heat exchanger system. This boiler is available in three sizes 15,000, 30,000 and 45,000 stu/hr. A second working system will be fired by the recently introduced sa 40 G gasfired boiler with an output of 40,000 stu/hr. In addition, new pressed steel panel radiators, the Valor industrial warm air heater with an output of 100,000 stu/hr, and a range of Valor domestic kerosene heating appliances, electric radiators, new water and sanitary fittings manufactured by Aston Brass, a division of the Valor Co Ltd, and a selection of Valor fire extinguishers will be displayed.

J. Stone & Co (Deptford) Ltd

The stand will show Stone-Vapor boilers which are oil-fired, forced circulation water tube boilers, that provide in single or multiple installations, an automatically modulating output that closely follows the steam demand. The model ok 4616 occupies a floor area of approximately 5ft 6in by 3ft 9in and has a capacity of 2,105 lb steam per hour from and at

Tayco Boilers Ltd

The stand will display the company's range of Thermatic boilers together with Tayco National waste disposal units. The boilers to be shown will include the Tayco Super Thermatic (27,500 stu), the Tayco Thermatic 25 (25,000 Rtu) and the Tayco 21/60 (21,000 Btu) which run on solid fuel and the Tayco Pacesetter (13,000 Btu) which is oil fired. The units incorporate the Quartic boiler body designed to achieve greater efficiency by increasing the heating surface by 5.8 per cent over the normal circular boiler.

416, 419

Coal Utilisation Council

Solid fuel small pipe central heating will be the main feature of this stand. There will be a working demonstration of the small pipe system for radiators and domestic hot water in conjunction with open fire installations, in addition to a typical whole-house central heating installation. Incorporating a guide to the advantages of fuel bunkers for houses and flats, there will be a display of grades of coal and suitable smokeless

417, 418 Radiation Parkray Ltd

In addition to their wide range of central heating equipment, this firm are showing two new room heaters, the Parkray 33 and the Parkray 66. These have a heat resisting glass door "to provide open fire attractiveness and full stove efficiency.

420

Grane Ltd

The stand will include the new Petite oil burning domestic boiler designed for use on the smaller house. The







Pelmore Model 80 oil-fired boiler

company's solid fuel domestic boilers (20,000 and 25,000 stu/hr rating) and both solid and oil-burning boilers for central heating and indirect hot water supply (with outputs from 30,000 stu/hr to 1,615,000 stu/hr), skirting heating panels, radiators, and a selection from the wide range of Crane valves and malleable iron pipe fittings, will be included in the display.

421, 422 Smith & Wellstood Ltd

A feature of the stand will be a display of acoustic ceiling tiles by the Acoustics Division of the company. Esse and Courtier stoves and cookers will also be shown, including both solid fuel and oil burning cookers. The stand will also display heating stoves including the new Lo Courtier with glass firepanels and fire doors and the Esse Autovector with a built-in storage hopper.

423, 424 Ideal-Standard Ltd

Ideal-Standard will be showing both Ideal heating equipment and Standard sanitary appliances. Ideal boilers on show will include the Kingston gas boilers, the large Ideal Elite, the Paragon boilers and the solid fuel units, with a wide range of Ideal radiators and ancillary equipment. Standard bathroom equipment will include the new Kingston range of bathroom equipment, the Standard Trimline suite for low-cost housing, the Vitural slab urinal and other accessories.

Federated Foundries Ltd

This stand will show a selection of Sofono domestic solid fuel appliances, with particular emphasis on those suitable for full or partial central heating, together with a representative range of other products, including baths, the FF joint suitable for all plumbing installations and the FF rotor-waste. The Fed-Flex representing the latest development of the FF joint consists of a flexible connection for we pan arms. The FF rotor-waste is a new kitchen waste disposal unit.

426, 427 The Gas Council

The stand will present information available on all aspects of gas utilisation in modern buildings. Particular attention will be given to the new developments in gas domestic central heating systems, including small bore heating, gas warmed air heating systems, and combined air heating unit and hot water service.

428 Ascot Gas Water Heaters Ltd

Designed by Dennis Pugh, ARIBA, the Ascot stand will feature the Se-duct system of venting room sealed off gas appliances. Water heating and warm air heating units will also be shown in addition to sink water heaters, which will include a new boiling water heater g 501/1.

429

Steel Radiators Ltd

Panel radiators, column radiators, Stelelectrics oil-filled electric radiators of the column or panel type thermostatically controlled, Nuvello radiators, and the new Devon pump, a silent nunning hot water accelerator which is water lubricated, will be displayed.

430 Delmore Engineering Co Ltd

The stand will display a range of Delmatic oil-fired boilers incorporating automatic ignition. The latest equipment on show will include Delmore domestic model 40 with standard High/Low flame operation, Double Delmore model 80 de luxe with standard high/low flame twin burners electrically controlled, Delmore air heating unit for providing ducted air heating to medium sized houses, Delmorad pencil-slim Swedish steel panel column radiators and the Delmore Package Deal for heating installers and estate developers. The latter is priced individually to incorporate model 30, 40 or 60, domestic and de luxe in each case.

431-433 Glow-Worm Boilers Ltd

The complete Glow-Worm–Sunrod range of central and water heating boilers covers outputs of from 7,500 to 250,000 atu/hr with appliances for solid fuel, oil or gas firing. Three new solid fuel Glow-worm boilers will be shown: the hopper-fed Major (20,000 atu/hr.), the Minor (10,000) and the Junior De Luxe (10,500) a luxury version of the established Junior Aristocrat. The display will include Glow-worm radiators and the recently introduced panel radiators 1½ in thick and skirting heaters available in lengths of 3ft, 2½ in to 9ft 9in, 6in high.

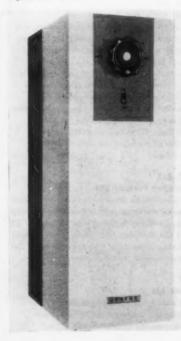
434 Elsy & Gibbons Ltd

The display will show copper sheet, direct and indirect hot water tanks, the Elson hot water tank for multi storey flats, and the new recessed pattern electric solid fuel Elso combination. This unit combines cylinder and storage tank and can be fitted within a single storey. The tanks provide a gravity supply and can be supplied directly from the mains or from a storage tank.

436 Perkins Boilers Ltd

The stand will feature the new oilfired Mini-Boiler 50, a unit measuring 36in by 11in by 11in giving a heat output of 50,000 stu/hr. The unit requires no outside chimney or flue, but the cabinet is built into the brickwork of an outside wall—similar to a window frame—and the boiler is fitted within this cabinet. Also on this stand the Mini-Boiler 25, with a heat-output of 25,000 stu will be featured.





437, 438 Powell Duffryn Heating Ltd

This company was formed to manage the business previously carried on by Janitor Boilers Ltd, Gulf Radiators Ltd, Hurseal Ltd, and Powell Duffryn Modulair Ltd. The full range of the company's products will be shown.

439 Charles Portway & Son Ltd

The company's complete range of oilfired boilers (12,000-60,000 Btu) will be shown, incorporating the recent innovation of electric ignition to vapourising burners. The stand will also show a warm-air heating system as installed in a house. The cost of under £200 includes boiler, tank, valves, warm-air convector and installation.

440 Sanbra Ltd & Conex-Terna Ltd

The stand will show sanitary fittings and plumbing materials of the two companies. As manufacturers of plumbers' brassfoundry, Sanbra Ltd will show their Easilyne fittings including new designs in taps, mixers and combination lavatory basin and bidet fittings, New-drip tap washers, bath, shower and sink mixers and general plumbers' brassfoundry. The Conex-Terna display will include Conex and Conexcel joints, stopcocks, valves, traps and waste fittings.

441 The Permutit Co Ltd

A representative selection of the company's main supply water softeners will be displayed. These will consist of cylindrical type units fabricated of mild steel plate, hot dipped galvanised internally and externally and finished in either cream or white stoved epikote enamel.

442, 443 International Boilers & Radiators Ltd

A new boiler will be featured on this stand—the Super 45. It is available as gas or oilfired and has an output of 45,000 Btu. It is supplied as a package unit incorporating the Termopak pump and a balanced flue designed to obviate the need for a chimney.

444, 445 Hoval Boilers (UK) Ltd

The Swiss designed Hoval boilers are now to be manufactured in this country. The model available is a combination oilfired boiler (providing also domestic hot water) and incinerator for dry refuse. It is possible to change from oilfiring to solid fuel without modification and the units range from 80,000 to 1,600,000 stu/hr output.

446 ESWA Ltd

In addition to the installations still under production, a new electrical low temperature radiant ceiling heating



International Super 45 boiler

system will be shown for the first time. This incorporates an electrically heated resistance foil sandwiched in resin treated mat of Kraft paper, which are installed immediately behind the ceiling face. The system aims to give even distribution of heat over large areas at low temperatures and would be suitable for ceiling heights from 7ft 6in to 30ft 0in.

447, 448 Range Boilers Ltd

Range Boilers Ltd will be showing a comprehensive range of hot water storage vessels in copper including the specially featured Primatic indirect cylinder and several patterns of the Fortic combination tank.

449, 450 Copper Development Association

Copper and several of its alloys are incorporated in the design and construction of the stand. Prefabricated copper plumbing, particularly for multi-storey buildings, and the use of copper in domestic heating systems, will be featured.

534, 535 Dallow Lambert Ltd

Dust control equipment designed, manufactured and installed by Dallow Lambert will be shown. A complete wood waste suction plant will be shown for the first time, operating under working conditions. Collected wood waste will be discharged with a Typhoon dust separator and the installation will include two types of fabric filters—a Drytube and the new Dalamatic filter. In addition, the stand will show the latest development of the Unimaster unit dust collector, series UMA.

The Building Exhibition Olympia 1961

Empire Hall

Section

5

This part of the exhibition ground is being slowly converted into an electrical section, though so far the process of conversion is still far from complete and only about a third of the stands are in this preferred category. The Electrical Development Association is very properly here (332, 333) and is showing underfloor heating (of course) and recent electrical apparatus for built-in kitchens. GEC (323) show an American air conditioner, but apart from these the interest is mainly non-electrical. Isora show their new Thermalucent ceiling on 349, Bourner's (334) a new sink with a non-rising head.

308

Robinson Bros Cork Growers Ltd

The stand will show the many building applications of cork ranging from thermal insulation, acoustical and anti-vibration qualities to flooring and wall tiles. Cork underlay and Robinson Superlite insulation of polystyrene will also be featured.

309

Fenton, Byrn & Co Ltd

A new range of narrow forced warm air circulators incorporating centrifugal fan units will be shown for the first time. Each unit is fitted with an adjustable thermostat with sensitive response to actual room temperature.

310

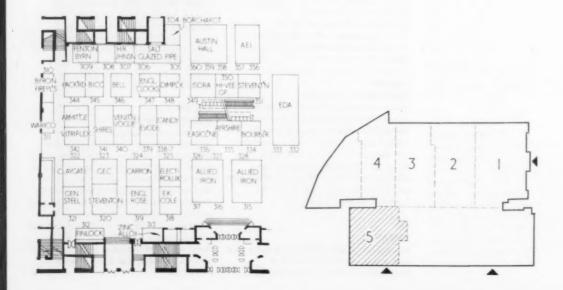
Byron Fireplaces Ltd

This will be the first time that Byron Fireplaces Ltd will have shown at the Building Exhibition. A variety of fireplaces from Adam type to Hi-level fireplaces incorporating special features, will be included in the display.

312

Finlock Gutters Ltd

The stand will show the full range of combined precast concrete eaves and gutter units. The recently designed Finlock verge unit with Royston type fascia to replace timber barge boards at gable ends will be included. There will also be a range of hollow and solid load-bearing concrete building blocks.





Bourner Spa Dec tap

313

Zinc Alloy Rust-Proofing Go Ltd

Examples of various iron and steel components rust-proofed by the sherardizing process, and components protected against heat oxidation, corrosion and wear, by Arkrom chromium diffusion will be shown. The company specialise in carrying out these two processes for the actual makers of such items as bolts, nuts, washers, hinges, etc.

315-317 326-328

Allied Ironfounders Ltd

The stand will show the company's products. In kitchen equipment, two Leisure kitchens will be on view-the new Leisure Line range, to be shown for the first time, and the individually built Leisure Luxe. Four complete bathroom sets will be shown. Aga domestic appliances will be on display including the current range of solid-fuel, gasfired and oilfired boilers and a range of Agavector warm-air heaters with the new Wall Model 10. Among several Rayburn and other fires and room heaters are appliances with back boilers. Allied Ironfounders gas and electric cookers, cast iron rainwater and soil fittings will also be shown.

318 Ekco Heating & Electrical Ltd Ekco Plastics Ltd

Electrical space heating will be featured on this stand. Models being shown for the first time include domestic and industrial storage heaters, a tangential fan heater and a clothes dryer-airer, new inset convectors and industrial infra-red heaters. Models being shown for the first time include the Ekco Thermostore domestic and industrial storage heaters, the Fandair II turbo fan heater with 2 kW loading and a seven position switch for fan and heat control, a new inset convector the Ekco Thermovent, and industrial infra-red heaters. Ekco Plastics Ltd will show a range of plastic we seat assemblies, the Ekco Supersink draining board and sink unit moulded in polypropylene, and polythene

319 English Rose Kitchens Ltd

The stand will show four kitchen displays. These will incorporate Arborite laminate wood grain finishes. A design carried out in aluminium will also be displayed.

322 Claygate Fireplaces Ltd

Two new fireplaces incorporating brick and tile will be shown.

323 GEC Lighting and Heating Group

The GEC stand will show a wide selection of their standard equipment. This will include the recently added Californian air conditioner, Nightstor heaters, unit fan heaters, overhead radiant heaters,

duct air heaters, tubular heaters, hot water circulators, a new range of air thermostats, incinerators, water storage heaters. The lighting equipment to be shown will include the Comfort in Lighting range of fittings incorporating specially designed louvres to control glare, the Executive range and the 101 range of fittings. The new GEC Slim Jim range of fluorescent fittings and the GEC Variform range of tungsten fittings will also be shown.

324

Carron Company

The stand will feature the "Calesto" solid fuel firegrate which can be combined with a boiler unit for domestic hot water. In addition a range of solid fuel units will be shown including the New Vesper housewarmer which provides heating by radiation and convection, and the Carron 508 cooker and water heater. A selection of electric fires will be shown including the Carron Charmer, which will be shown for the first time. Three bath models will also be included in this display.

325

Electrolux Ltd

The stand will show a wide range of built-in refrigerators including the new M40 4 cu ft model, the MB16 1·6 cu ft and the MA27 2½ cu ft models.

332, 333, 352, 353 Electrical Development Association

The display will illustrate the latest techniques in electric underfloor heating installations, ring circuit practice and recent apparatus for built-in kitchens. Power tools for the building industry will also be shown.

334

F. H. Bourner & Co (Engineers) Ltd

A new kitchen sink tap incorporating a non-rising head will be shown at the exhibition for the first time. While the head of the tap remains at the same position, the internal spindle moves up or down to operate the valve.

226

Easiclene Porcelain Enamel (1938) Ltd

The display will include a range of the company's kitchen sinks and kitchen fittings.

337, 338 Candy & Co Ltd

The stand will show the various uses of ceramic tiles and mosaics. Panels will display wall tiling with glossy and matt colours with several screen printed patterns, and a newly developed tile with a natural Crackle pattern. Glazed mosaics will be featured in a large abstract design by C. Woodger.

339

Evode Ltd

The stand will show the respective uses of the firm's products throughout the building operation, commencing with products used in the early stages (eg cement and concrete waterproofers).





Evomastic sealing compounds will be featured. The Building Chemicals Division will be introducing Evokote floor topping, a new jointless industrial flooring. Evode built-up roof waterproofing, Evoseal waterproof membrane, and Evo-stik industrial adhesives will also be displayed.

340

Venetian Vogue Ltd

In addition to Sunway blinds, Sunway venetian blinds, the Skylight blind for glass roofs, and the Sunway fan blind for internal partitioning, an entirely new product, the Sunway Awning, will be shown. It is made of corrosion-resisting painted aluminium alloy and incorporates rubber covered rollers. The Sunway Awning provides side protection and is suitable for shops, hotels, restaurants and other commercial and domestic uses.

341 Shires & Co (London) Ltd

The highlight of this stand will be the new coloured Lynx eistern which is being shown for the first time. It is made of polypropylene and is available in five colours. The Shires Uni-Lynx we suite—a close-coupled suite with plastic eistern and pottery wash-down pan—will also be shown. A film entitled The Inconvenience will be shown every day.

342 Vitreflex Ltd

As manufacturers of vitreous enamelled rainwater and soil goods, the company will be showing their new Cleanline gutters for the first time. These are designed to give clean lines and incorporate fixing brackets. The display will include Vitreflex box and moulded gutters, square and rectangular pipes.

343 Armitage Ware Ltd

The stand will show the recent additions of orchid and sky blue that extends the range of coloured sanitary fixtures to 10 different colours. Particularly interesting is the recently introduced Nuastyle Series 3 patterns vitreous china plumbing fixtures and wide range of Nuastyle chromium plated fittings. The new Salonex hairdressers' basin, the redesigned Aqualon drinking fountain will be displayed and the Muria clear-of-the-floor we is also displayed.

344 Packard & Ord Ltd

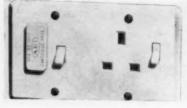
The stand will show a range of fireplace designs in marble and tile including the new Marlborough fireplaces, and a range of composite tile panel designs for use in bathrooms, kitchens, patios and general wall decoration. New designs in door finger plates and decorated bathroom fittings will also be shown.

345

British Insulated Callender's Cables Ltd

The BICC stand will emphasise Panalec

heating systems and cables, wiring and general cables including the use of mineral insulated wiring units for multi-storey development. Telcon Plastics Ltd, a member of the BICC Group, will show domestic applications of polythene tubing. Panalec heating systems include a rewirable floor warming system, a pvc solid embedded floor warming system and butyl rubber insulated NBR compound sheathed heating cables specially developed to withstand severe site conditions.



AEI combined switch socket outlet and fused spur unit

346

A. Bell & Co Ltd

This stand will show two new items of interest: the Bell Supaheat 4D fire for smokeless zones has a deep ashpit that is removed through a two-piece grating with controlled underfloor draught, and the Hole-in-the-Wall type fireplaces in stainless steel and polished copper. The Belco chlorinators for sterilisation of water supply will be of interest to overseas visitors.

349 Isora Illuminating Ceilings Ltd

The new Isora Thermalucent ceiling will be featured. This is a development from the original Isora design and consists of a supporting gridwork of 18 swg hot dip galvanised mild steel with V-shaped flanges to all sections. The translucent panels consist of two layers of pvc mounted on to a light ms frame and separated by a 1 in space. The pvc film is in the self extinguishing fire category, and includes coloured, printed, translucent and opaque films. The standard module will be 3ft 4in

356, 357

Associated Electrical Industries Ltd

Inter-communication aids, electrical equipment and industrial flooring will be shown on the AEI stand. The Cable Division will show a new combined switch socket outlet/fused spur 13 amp unit, which can be for surface or flush mounting, as one or two-gang units, with or without pilot lights. Among the electrical accessories will be the Reguplug, a 3-pin unit with a built-in Simmerstat which can be used to control electrical heating devices not fitted with a thermostat. Rising main systems for multi-storey blocks of flats will be illustrated. A new feature in the Telecommunications Division will be a new "room call" intercommunication system and radio programme system particularly for hotels, an AEI PARX cordless telephone switch board and the Entryphone for contact between street door and individual apartments. Mettaflor, a heavy duty cast-iron industrial flooring manufactured by Henley Foundries Ltd will be shown on the same stand.

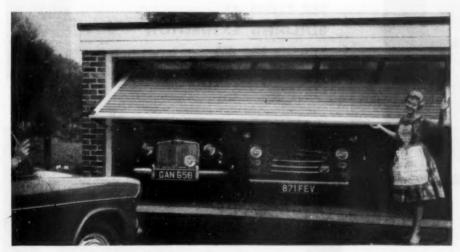
The Third Car . . .

Many homes today, new and old, want garage room for three motor cars. His—Hers—Guest. Doorways should permit cars to enter and stand abreast. Swinging doors want a centre post, take up yard space, slam about in the wind. Ideal doors either slide out of the way down side walls or up overhead, permit unobstructed openings.



'Tangent Senior' carries doors befitting Rolls Royce

House at Conways Bridge, Henley-on-Thames



Cedar lap one-piece overhead door on 'Ultra 325'

When side walls are spare use "Tangent Senior" round the corner doors which are made in sections. The outside ones under each curve swing as service doors. If no spare walls fit an overbead door.

House at Fryerning, Essex

QUIET

'TANGENT SENIOR'

'Tangent Senior' around the corner Garage Door Gear specified by leading Architects sin:e 1925. Trolleys enclosed in top tubular track take min.mum headroom, fixing either to inside face of lintol or up to ceiling. Used for any and every width and height of doorway. Simple to fix.

OUIET

'ULTRA' 325

New impressive overhead door gear for doors up to 18 ft, wide by 7 ft, high, up to 325 lb, weight. Light action, safe, silent, on roller bearin is. No projection when up—no rain trap. Simple secure locking. Timber doors are kind and warm to handle, quiet, no drumming, picturesque.

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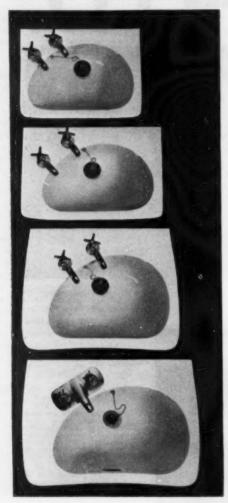


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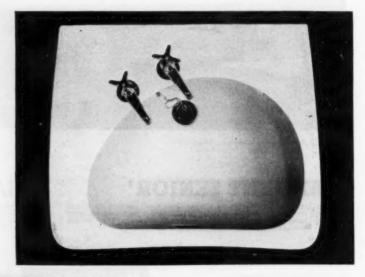
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The Building Exhibition Olympia 1961

Empire Hall First Floor

Section

6

This is one of the new specialised sections of the exhibition and is devoted primarily to painting and decorating. Primarily, but not exclusively, for there are two important stands in the section which do not come into this category: the LCC stand (1035, 1036), which presents the Council's courageous attempt to relate art and architecture, and the Canada stand (1088–1040), which presents the courageous attempt of the Canadian timber trade to persuade British home owners to build in timber. It is difficult to do justice to painting and decorating stands in a note of this kind, but architects will enjoy the Wall Paper Manufacturers' display on 1104–1107. Storeys of Lancaster (1133) show techniques for protecting surfaces with pvc and Blundell Spence (1120, 1121) have some new primers.

1027, 1028

Southern Forge Ltd

The use of Alminal aluminium alloys in many aspects of the building trade will be displayed. The applications to be shown will include window framing, curtain walling, partition framing, scaffolding and ladders, shop fronts, shop fittings, builders' equipment and various structural applications. A wide range of extruded shapes which Southern Forge produce will also be shown.

1029, 1030

Hygena Limited

The stand will demonstrate the flexibility of the Hygena unit system for kitchen fittings. The display will include units related to cookers, washing machines, sinks and refrigerators, in addition to a snack counter, food store, cleaning cupboard and wall units.

1032-1034

Vanguard Engineering Co

Two newcomers to the Vanguard range of electrical fittings will be shown—the UP 5ft 125 fitting designed to utilise the Philips 5ft 125 double-flux tube and the range of circular fluorescent lighting fittings also using Philips tubes.

1037-1040 Canada

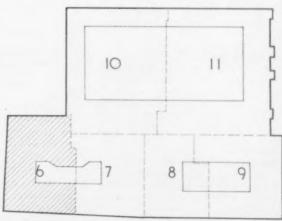
The main feature of the Canadian display is a detailed half scale model house showing techniques and materials used in timber frame construction. A full scale room interior will show several Canadian wood types and finishes including Canadian wallpaper and acoustic tiles.

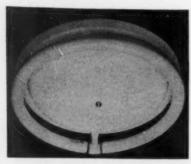
1101-1103

The Walpamur Co Ltd

The display of Walpamur products will include a demonstration of primers for







Vanguard circular fluorescent light fitting

various surfaces, special finishes including (poxide resin and polyurethane lacquers, the recently introduced Darwen flat finish and the Walpamur high opacity ready mixed paint. In addition rotating panels will display various standards of finish ranging from minimum three-coat Housing Scheme to high gloss Coach finish in Duradio five-year enamel paint.

1104-1107 The Wall Paper Manufacturers Ltd

The stand designed by the Conran Design Unit will display new ideas in the use of wallpapers for specific contract needs. Painted areas will be covered in Lincrusta with new textured effects. A wall insulating material manufactured from expanded polystyrene. Kotina, which can be applied under wallpaper with a special adhesive is being shown for the first time.

1113, 1114 Dixon's Paints Ltd

The theme of the stand will be concerned with contemporary finishes. The main feature will be an abstract mural executed with the company's materials by Ray Howard-Jones.

1115, 1116 Sissons Brothers & Co Ltd

The new Porterfleck multicolour paint will be featured. The multicolour finish gives a choice of 60 standard multicolours including 20 soft-tones and can be applied to most surfaces including brick, plaster, boards and ceramic tiles.

1117-1119 R. Gay & Co

As a member of the Courtaulds group, the company will demonstrate the technical resources available to them for formulating manufacture and testing their products. The Gaymel colour range will be shown.

1120, 1121 Blundell, Spence & Co Ltd

The theme of this stand will be the scientific control in paint manufacture and the technical assistance available through the company's advisory service.

New products to be exhibited will be

Blundell's new wood and metal primer, Blundell's heat resisting aluminium paint and the new 2½gal magnum tin of Pammastic emulsion paint.

1122, 1123 Nicholls & Clark Ltd

The main display will show Nic-o-Bond tile cement for fixing ceramic tiles and mosaics. The stand will include Nicofil instant filler, a filler that is ready for immediate use, Nic-o-Bond multipurpose adhesive, a cement additive, and Nic-o-Bond impact adhesive.

1124 The United Paint Co Ltd

This company has specialised in the production of protective and decorative coatings for the treatment of exterior and interior concrete, cement, brick, stone and plaster surfaces and the exhibit will show a complete range of products including Unistuc liquid stone, Unistuc multi-colour process and Unistuc vinyl acetate-acrylate-copolymer coating.

1131 Kenitex Textured Coating Ltd

Kenitex, a new textured wall coating for exterior surfaces, guaranteed for ten years against chipping, flaking or peeling, will be publicly exhibited for the first time in this country. The special pressure pump and gun for applying the material, a film showing its application and photographs of contracts will also be displayed.

1133 Storeys Brothers & Company Ltd

The stand will show a variety of techniques for decorating and protecting surfaces with pvc and will illustrate special forms of pvc covering designed to suit particular conditions. The display will include Plastolene a new form of industrial fabric consisting of plasticised vinyl bonded with a reinforcing mesh of Terylene. The material can be used for airhouses, swimming pool liners, tarpaulins, stack covers, etc.

1134 Farmiloe Sealants Ltd

A range of Butyl rubber based sealing compounds and components wil' be displayed, and a demonstration given of their uses. This will include Farocaulk non-hardening mastic, Farostrip, soft compression adhesive laminate, Faroform soft compression adhesive seal, gaskets and extrusions, Farosheet, Faroled, which consists of lead/butyl laminates for roofing and flashings, Farobase primers and Faroflor floor tiles and sheeting.

1135 Pearl Paints Ltd

The main display will be concerned with the company's flame retardant paints including the new Intumat (a flame retardant paint that can be applied to timber, chipboard, hardboard and metals) and the established Trerock flame retardant paint for fibre insulation board. Demonstrations will be given on these materials. In addition a new catalysed coating Traffanol Lacquer will be shown for the first time, designed for exterior wood cladding but also suitable to give resistance to abrasion, heat and chemicals to interior wood.

1139-1141 Paniquil Ltd

Exhibiting for the first time, Paniquil will be showing a number of new products. The Paniquil 21 and Paniquil 43 padded and quilted plastic panelling aims to combine insulation with a decorative finish. Both will be available in a full range of 13 colours, quilted designs, established sheet sizes and in the form of ceiling modules. Royaltex an American manufactured flexible wall covering (which includes patterns formed by real leaves, grass, fibres, and even butterflies) will also be shown for the first time. The material is fixed like an ordinary wall paper, and aims to provide a washable surface.

1144 Rust-Oleum Corporation Ltd

Methods of applying the new Rust-Oleum rust inhibitive primer will be the main interest of the stand. Rust-Oleum 769 damp-proof red primer forms the basic foundation for stopping rust. The primers for new bare metal consist of Rust-Oleum x60 red bare metal primer, Rust-Oleum 960 zinc chromatic primer and Rust-Oleum 678 quick drying red primer. The range includes top coat colours and Galvinoleum coatings for protecting galvanised metal or aluminium surfaces.

1145, 1146 A. Sanderson & Co Ltd

The stand will feature two completely new products—the Kingston Stawhite, a permanent white gloss paint designed to withstand polluted atmospheric conditions, and Long Life Translac, a new polyurethane lacquer designed for the treatment of timber cladding. The stand will also show Kingston Kurust primer, a new coating for rusty metal, which applies direct to rust.

1147 The Donald MacPherson Group

The companies participating in this exhibition will be Donald Macpherson & Co Ltd (Foochow paints) and Sherwoods Paints Ltd. The stand will display a comprehensive range of the group's paints and paint systems for both decorative and industrial decorative usage. The group services will be featured with an emphasis on their colour scheme and specification department.



Bath after bath



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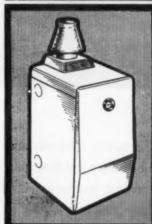
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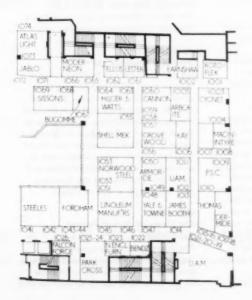
The Building Exhibition Olympia 1961

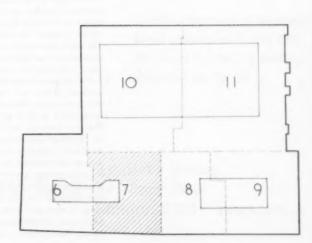
Empire Hall First Floor

Section

1

This is a very varied section from which it is difficult to pick stands for mention. Our choice is James Booth Aluminium (a new exhibitor) for Boxrib aluminium sheet and aluminium fascias and copings (1013, 1014), UAM (1019-1021) for their asbestos cement sunbreakers, Frederick Thomas (1015, 1016) for a new range of porcelain light fittings and Rotaflex (1001) for the new Rotaflex lightplan ceiling.







Earnshaw Nu-Lyne kitchen furniture

1001 Rotaflex (Great Britain) Ltd

The new Rotaflex Lightplan ceiling will be shown for the first time. This aims to provide a basis for any module in any material and consists of a system of aluminium extrusions to which cladding is fixed. Prismalux wall and ceiling mounted light fittings, the ceiling Downlighter coloured lens fitting and the Opalux one-piece chassis fitting with hinged opal diffuser will be included among the light fittings to be displayed.

1002 Earnshaw Bros & Booth Ltd

The company's latest range of Nu-Lyne furniture, the Albany range of kitchen units with formica teak woodgrain for tops and fronts, will be featured. Other additions include cabinets to accommodate Tricity oven and hob-surface units, and refrigerators.

1003, 1004 Cygnet Joinery Ltd

Cygnet Joinery Ltd specialise in laboratory installations of which the S unit furniture will be familiar. The stand also will display the T type unit, a new range of furnishing now being manufactured by the company.

1006 Kay & Co (Engineers) Ltd

The stand will show a wide variety of fittings cast in gunmetal. This display will include waste pipe fittings and traps, standard Kontite compression fittings, fittings for use with soft copper tube, heavy pattern fittings for use with non-standard heavy copper tubes, fittings for use with polythene tube and polythene fittings, a range of Kontite soil pipes, Konaxal joints for co-axial cables and a range of standard fittings for marine applications.

1011, 1012, 1019, 1020, 1021 The UAM Group of Companies

This group that includes the Universal Asbestos Manufacturing Co, Union Fibre Pipes, UAM Plastics & Chancery Insulations Ltd with Allied Structural Plastics Ltd have two stands designed by Edward D. Mills. The main stand (1019 to 1021) concentrates on asbestos cement, plastic sheeting for natural roof lighting and demonstrates the purpose and methods of the UAM Group Advisory and Information Service. The second stand (1011 & 1012) is devoted to pipes. The new items on display will include the Bombolo cold water cisterns, pressure moulded in asbestos cement; asbestos cement sunbreakers; the Aspect medium impact rigid pvc pressure pipe for water distribution, sewage, air conditioning and electrical conduit, available in a range of sizes and working-head classes. Aspect pvc non-inflammable plastic sheet is also a new product.

1013, 1014

James Booth Aluminium Ltd
Showing at the exhibition for the first
time is the newly formed Building
Products Division of James Booth
Aluminium Ltd. Among new products to
be shown will be the Booth Boxrib, an
in pitch troughed aluminium sheet with
1-in ribs intended primarily for wall
eladding. Also a 3-in corrugated sheet
in deep, a mansard sheet with a 6-in
pitch and an industrial trough type A
with a 5-in pitch, all with flashings and
accessories, will be shown for the first
time. A wide range of aluminium sections

1015, 1016 Frederick Thomas & Co Ltd

will also be on display.

The stand will show a varied range of light fittings with an emphasis on the latest Scandinavian shapes in lighting glass and comparable English glass. A range of lights made for hospitals and schools, a new range of porcelain lighting fittings to be on view for the first time, and fittings suitable for modular ceilings will also be on display.

1017, 1018 Dermide Ltd

In addition to Rossella floor covering which consists of a heavy coating of pve bonded on underfelt, Rossella Inlaid will be shown for the first time. This range has the design inlaid with a coloured pvc coating. Dermide wall-covering 1961 range of vinyl-coated fabric will also be shown.

1023 The North of England School Furnishing Co Ltd

The exhibit will feature laboratory furniture for industrial and educational purposes including typical wall and island benches. A working model of a motorised chalkboard for lecture theatres will also be shown.

1026 Falcon Ferge (Thomas Haywood & Sons Ltd)

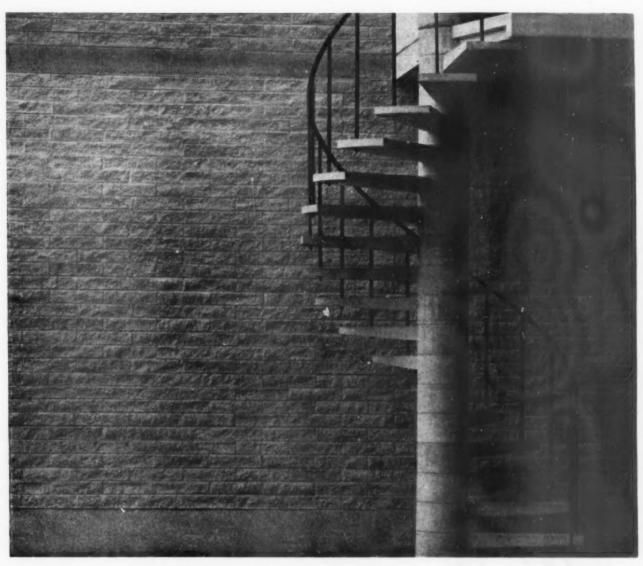
The stand will show examples of handwrought ornamental ironwork

1043 1044 Fordham Pressings Ltd

As manufacturers of flushing cisterns, the company will be displaying their complete range of products. This will include a section devoted to Volta and Eterna plastic cisterns. In addition to the Aquasave ball valve, a complete range of Fordham Cleanline and Panel seamless pressed steel cisterns both in porcelain enamel coloured finishes and galvanised finishes and the Fordham polythene syphon will be shown.

1045, 1046 The Linoleum Manufacturers' Association

The stand has been designed to demonstrate the advantages of linoleum as a floor covering as well as to show all the latest linoleum developments and



Cement & Concrete Association Research Centre at Wexham Springs

Photograph by John Donat

Riven block by Atlas Stone

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who make and supply electricity to 12 Area Electricity Boards in England and Wales (which re-sell to consumers) and British Railways.

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trends. Technical experts will be in attendance to give advice on flooring

1047, 1048

Yale & Towne Manufacturing Co

Security will be the theme of the stand. Special security considerations will be illustrated photographically and a demonstration panel will feature the Yale grand master key system. A full range of mortice, rim, cabinet locks and padlocks, cupboard latches and door furniture will also be shown.

1051-1053

Norwood Steel Equipment Ltd

The new President partitioning system will be displayed. The structure of the panel incorporates rolled steel posts and transomes, with pressed steel skins, double or single which can be any height making a half glazed borrowed light or solid full height panel. The panel modules range from 45in, 39in, 33in, 27in, 21in and 15in in one range, and 41in, 35in, 29in, 33in and 17in in the second range.

1054, 1055 Shell-Mex & BP Gases Ltd

The stand will show a Jetaire portable heater, cable jointer's furnace, blow torch and two Tilley BT44 floodlights. A roof section will display a bitumen melting pot with Barter burner and a Hy-Lo Ace heater. Certain Shell chemicals including epikote resins and plastic products will also be shown.

1056, 1057 The Grovewood Company

Three new aspects of Daintymaid kitchen furniture are to be shown; a complete new range of sliding door sink, base and corner units; a new Vysheen finish in which a plastic sheet is vacuum-formed on to the furniture itself; also an apparent natural woodgrain finish protected by melamine.

1061

A. S. Lester Ltd

The Italian-produced Decopan melamine boards can be seen on this stand. The material has a hard glossy or semi-matt finish in a range of nearly seventy patterns and colours.

1065, 1066

Modern Electric (Installations) Ltd

The display will comprise a range of neon and perspex letters and signs. New items to be shown will include the latest range of Princess, Empress and Emperor box signs. All signs will incorporate a new patented seal against weather and dust. The stand may include a new range of decorative lighting fittings using cold cathode tubing.

1067

Bulgomme-Silence Flooring

In addition to the established flooring, two new pvc floor coverings—FoamPlastylon and Plastylon will be shown. Foam-Plastylon is a Plastylon pvc flooring with a fabric interliner and a cellular rubber base for sound absorption and resilience. Plastylon is a top grade quality pvc floor covering with a fabric backing in sheets 4ft 10in wide. The seams are welded by hot-air process giving a jointless appearance.

1068, 1069, W. & G. Sissons Ltd

The stand will show the company's range of stainless steel sink tops, sinks specially on offer to municipal authorities and large contractors for use in housing schemes and special purpose sinks. A complete kitchen showing Sisson kitchen furniture will be displayed, and food waste disposal units suitable for caterers and domestic application including the Whirl-a-Waste will be installed on the stand and available for demonstration.

1073, 1074

Atlas Lighting Ltd The emphasis of the stand will be on new developments in lighting techniques. The new Atlantic 2 range of fluorescent fittings for industrial and commercial applications will be featured. The display will include 'an entirely new individual trunking system ' and a new lightweight trunking system for commercial uses, and the recently developed Atlas Super-8 high efficiency circuit which uses either trim or quadruple tube eight-foot fittings particularly suitable for installations involving large areas. New tungsten lighting fittings will include additions to the established range of Chelsea handwrought glassware fittings and the recently announced Mayfair range of commercial glassware.

National Hall Gallery Section

This is a smaller section than any of the others and, with the exception of the Typhoon air conditioning system on British Werno's stand (921, 922), the items of interest which we can signal in advance are small also: a new range of chromium plated bathroom fittings by Metlex Industries (981), new Handypack panels by Laconite (976, 977) and some Danish venetian blinds on the Christensen stand (928).

920

British Technical Cork Products Ltd

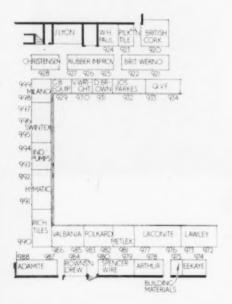
The company's latest product the Decor Tile made of finely granulated cork bonded with Hycar nitrile rubber, \$\frac{1}{2}\$ in thick and available in seven shades, will be displayed. Zecor, a specially formulated machinery mounting material will also be shown for the first time. The established Britcork and cork wall finishes will be included on the stand.

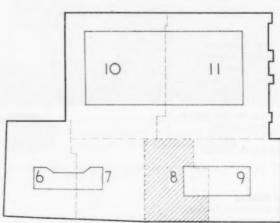
921, 922 British Werno Ltd

This stand will be made up of Werno iron-metallic timber framed panels to show various finishes and designs and will display three new developments. The Fairhurst unitfold wall consists of independent units that slide away to pack against a wall or pocket, the Nieder sliding door, an Italian folding screen similar to the modernfold system but built up in laminated veneered plywood, and an air conditioning system, Typhoon, manufactured by the Hupp Corporation of America will also be shown. The latter aims to provide air conditioning for separate offices in buildings which have no centralised plant.

923 Pilkington Tiles Ltd

The material to be shown will display a complete cross section of the company's products. The complete plain tile range, a range of new designs in bathroom accessories, prefabricated ceramic tile partitions, silk screen printed and embossed decorative tiles, and transfer decorated tiles will all be represented. Mastic and thin-bed cement adhesives for tiling work will also be shown.





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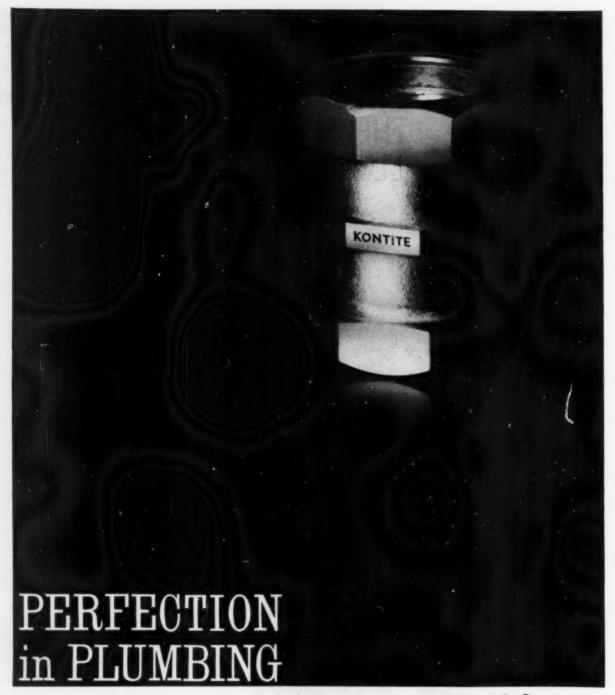
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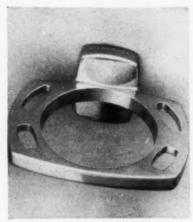
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Meltex toothbrush and tumbler holder

925-927 Rubber Improvement Ltd

The stand will feature Reltex, Rilite and Riquilt materials. Reltex consists of a laminate of two plies of high grade pvc reinforced with a specially woven synthetic fabric. It is manufactured in different grades, from a grade suitable as tentage and light coverings, to a heavy grade material, suitable for use in place of tarpaulin. Rilite is a roofing material, manufactured in an extensive range of corrugations and profiles to match other sheet material. Rilite is also manufactured in flat sheets and in reeded glass profile. Riquilt is an all plastic quilted material in a range of over 30 colours suitable for modern décor. A range of vinyl and thermoplastic floor finishes, and moulded styrene wall tiles will also be shown.

928

P. I. Christensen & Co Ltd

The Danish Metalet 61 and Metamatic venetian blinds will be of interest. These units discard double cord systems of lowering and tilting blinds and adopt control in the case of Metamatic by means of either a continuous cord or a collapsible swivel rod, and in the case of Metalet 61, finger-tip tilt adjustment with an independent lifting cord.

932

Josiah Parkes & Sons Ltd

In association with their associate company Edwin Showell & Sons Ltd, the display will show the complete range of locks, brass foundry and door fittings including the new 678 series Bello design lever furniture.

933, 934 QVF Ltd

The stand will display a typical arrangement of over glass drainlines and traps fitted into a laboratory bench. New methods of fixing traps direct to sinks and a selection of other standard fittings will also be shown.

972, 973 W. & J. Lawley Ltd

The stand will show the company's range of overnight burning fires, convector fires, fire baskets and frets, together with a range of black plastic and thermoplastic cisterns. A selection of plumbers' brasswork will also be shown.

974 E. & E. Kaye Ltd

The stand will feature the latest products made by E. & E. Kaye Ltd, as suppliers of aluminium extrusions to the building industry. The display will show prefabricated systems of curtain walling and wall cladding, partitioning, aluminium windows, louvres, ventilators, suspended ceilings and aluminium ladders. There will also be examples of the recently introduced high strength welding alloy Durcilium N.

976, 977 Laconite Ltd

Laconite plastic coated wallboards will be shown. The new Laconite Handypack 2ft. by 2ft panels which can be applied to walls and ceilings will be featured.

978

Arthur Productions (Clydebank) Ltd

This stand will show the Ideal packaged sink cabinets of timber construction that aim to save storage space, handling, labour and damage on the site by being packed flat in a carton, designed for quick assembly on the site.

979, 980 Spencer Wire Co Ltd

Spencer Mesh manufactured by the company will be featured on the stand. This forms reinforcement for concrete in roads and buildings and is made from hard-drawn, high-tensile steel wire.

81

Meltex Industries Ltd

The stand will include Meltex bathroom equipment including a new range of chromium plated fittings with concealed fixing. This range will include towel rails, shelf brackets, tooth brush and tumbler holders, soap dish, soap dispenser, toilet roll holders and both single and double hooks.

982, 983

J. S. & F. Folkard Ltd

The stand will be a composite display of both the Plastics and Brassfoundry Divisions. The extended range of Vulcathene waste drainage equipment will include underbench drainage. A new Visual Base diluting trap and a new control valve developed mainly for use with fluids of a corrosive nature will be among recent additions to be shown. The brassfoundry range will include Vultex laboratory service outlets displayed on bench tops complete with fume cupboard, and the Vultex laboratory range will include a new universal coupler assembly and newly designed multi-service units. Hospital fittings and both industrial and domestic type shower equipment will also be displayed.

984

Rowson, Drew & Clydesdale Ltd

The new Courtware de Luxe bathroom suite in orchid (also available in primrose), the Plan Line radiators with flat front, manufactured in six different heights and seven different thicknesses, the Rowson's adjustable Flushvalve, the New Trafford latch and lock furniture, and a range of kitchen sinks in porcelain and stainless steel with cabinets, will be displayed on this stand. A new 63 in × 18 in stainless steel sink with double bowl and drainer will also be shown.

987, 988

The Adamite Co Ltd

The stand will show the range of Adamite products including new enlarged ranges and finishes both of Altro heavy duty and safety flooring and of Vynoleum flooring—pvc flooring on felt and hessian backing on 72in rolls—and a new form of Altro safety treads as decorative non-slip inserts for terrazzo stairs. Adamite applications to concrete work and cement paint will also be displayed.

989 990 Richards Tiles Ltd

Unifab glazed ceramic tile partitions will be shown for the first time. The units are prefabricated and are particularly suitable to industrial and institutional washing. The stand will also show Richafix Dri-Set grout, a compressible white grouting cement; Richards Floor-set, a new floor tile fixative; Richaslab, a fireplace slabbing technique designed to prevent crazing, cracking and adhesion failure; and weatherproofing of glazed ceramic tiles.

The Building Exhibition Olympia 1961

9

National Hall Gallery Section

The TDA stand (949, 950) should certainly be worth a visit. They are showing some new flooring systems—one of them a suspended ground floor using a plastic ground sheet in lieu of a concrete site slab—and two new roof systems using manufactured boards. Beves (943), only a few stands away, are showing a folding truss and a new window with a two-way opening. Falks (915) are showing some special light fittings for hospitals, Granwood (948) a new wood topped composition flooring and Thames Plywood (955) have two new products to show. Lastly, the Building Exhibition organisers have devoted stand 951 to the subject of Design for the Disabled—which could be a useful counterpart to MOHLG's exhibit on design for old people in Section 10.

901

The Welsh Tinplate & Metal Stamping Co Ltd

The stand will show two new sizes in the Luxury vitreous enamel sink top range. The sizes are 63in by 21in (double drainer and a bowl) and a left or right hand drainer 36in by 18in. Other sink tops in the Luxury range will be shown.

902 Rediweld Ltd and subsidiary Glass Fibre Developments Ltd

The parent company, er gineers and fabricators in plastics will show examples of plastic plumbing with photographs of laboratory fittings and fume extraction plant. The use of pve sheet as a roof liner will be illustrated. The subsidiary company will exhibit laminates for use in curtain walling, balcony panels, fascias, etc.

903

Junkers (London) Ltd

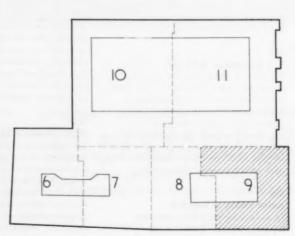
This will be the first time that Junkers flooring will be shown at the Building Exhibition. The stand, designed by Birger Brondum of Copenhagen, will show the complete range of Junkers Danish hardwood floorings available in this country.

905

Temple Tubes Ltd

Temple Tubes Ltd. are exhibiting at the Building Exhibition for the first time. The stand will be mainly devoted to pitch fibre pipes for drainage both above and below ground, with special emphasis on stack drainage. The pipes are available in diameters from 2 in upwards and will





BUILD AND FINISH: IN ONE OPERATION SPECTRA-GLAZE

the structural glazed unit, with the satin-smooth finish for commercial, municipal and industrial applications

Quick, efficient, low cost construction plus most elloclearance and low maintenance, characterize this new concept in glazed structural walls, spectra-Class has a coloured, cart, thermoset finish that is an integral part of the unit—as permanent as the wall it forms, eliminaring the need for further cosfly finishing operations.

Apartia Glase

units are mane in the United Kingdom by

THE ATEAS STOLE COVERNY LYD ARTILLERY HOUSE ARTILLERY ROW LONDON S.W.1

THE LILLESHALL COMPANY LTD OAKENGATES SHOPSHIRE

Complete technical details on reques

The overall lace dimensions of a standard size Spectra-Glaze unit are 8§ 174 (nominal 9° 18) with the thickness w. Shapes, halves and counting units as supplied as standard. Of the 58 colours, 18 are Instruately available.

See the Spectra-Sieze stand No. 10 (Hatlanal Harl Cahory)

Spectra-Claze in the requested trade of the plan.
 the Surne and Presett Canada, Scilling Maryland USA

The Building Exhibition Olympia 1961

9

National Hall Gallery Section

The TDA stand (949, 950) should certainly be worth a visit. They are showing some new flooring systems—one of them a suspended ground floor using a plastic ground sheet in lieu of a concrete site slab—and two new roof systems using manufactured boards. Beves (943), only a few stands away, are showing a folding truss and a new window with a two-way opening. Falks (915) are showing some special light fittings for hospitals, Granwood (948) a new wood topped composition flooring and Thames Plywood (955) have two new products to show. Lastly, the Building Exhibition organisers have devoted stand 951 to the subject of Design for the Disabled—which could be a useful counterpart to MOHLG's exhibit on design for old people in Section 10.

901

The Welsh Tinplate & Metal Stamping Co Ltd

The stand will show two new sizes in the Luxury vitreous enamel sink top range. The sizes are 63in by 21in (double drainer and a bowl) and a left or right hand drainer 36in by 18in. Other sink tops in the Luxury range will be shown.

902 Rediweld Ltd and subsidiary Glass Fibre Developments Ltd

The parent company, er gineers and fabricators in plastics will show examples of plastic plumbing with photographs of laboratory fittings and fume extraction plant. The use of pve sheet as a roof liner will be illustrated. The subsidiary company will exhibit laminates for use in curtain walling, balcony panels, fascias, etc.

903

Junkers (London) Ltd

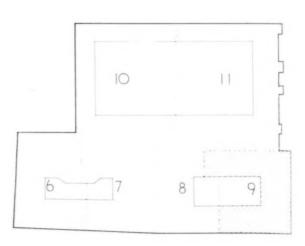
This will be the first time that Junkers flooring will be shown at the Building Exhibition. The stand, designed by Birger Brondum of Copenhagen, will show the complete range of Junkers Danish hardwood floorings available in this country.

905

Temple Tubes Ltd

Temple Tubes Ltd. are exhibiting at the Building Exhibition for the first time. The stand will be mainly devoted to pitch fibre pipes for drainage both above and below ground, with special emphasis on stack drainage. The pipes are available in diameters from 2 in upwards and will

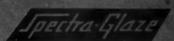




BUILD AND FINISH IN ONE OPERATION SPECTRA-GLAZE

the structural glazed unit, with the satin-smooth finish for commercial, municipal and industrial applications

Quick, efficient, low cost construction, plus rapid site clearance and low maintenance, characterize this new concept in glazed structural walls. Spectra-Glaze has a coloured, casi, thermoset finish that is an integral part of the unit – as permanent as the wall it forms, eliminating the need for further costly finishing operations.



units are made in the United Kingdom by

THE ATLAS STONE COMPANY LTD ARTILLERY HOUSE ARTILLERY ROW LONDON S W 1

THE LILLESHALL COMPANY LTD OAKENGATES SHROPSHIRE

Complete technical details on request

The overall face dimensions of a standard size Spectra-Glaze unit are $8\frac{3}{4}$ ' $17\frac{3}{4}$ ' (nominal 9' 18') with five thicknesses. Shapes, halves and coursing units are supplied as standard. Of the 58 colours, 18 are immediately available.

See the Spectra-Glaze stand No. 910 (National Half Gallery) and Atlas Stone Stand No. 886/7 at the Building Exhibition Olympia

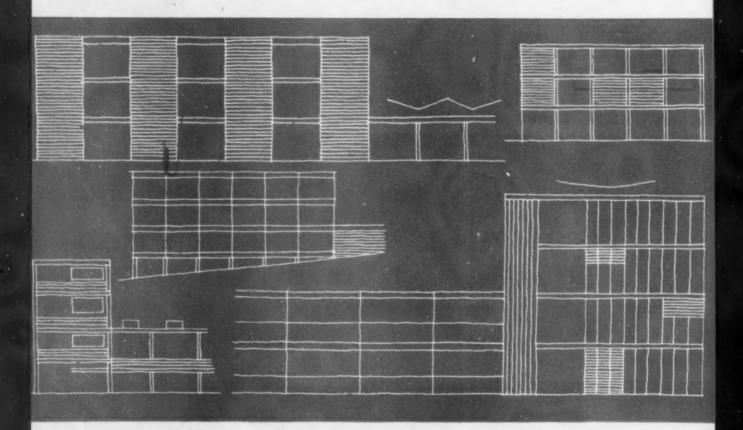
Spectra-Glaze is the registered trade mark of the Burne and Russell Company Baltimore Maryland USA

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The Bison

PREFERRED DIMENSION frame

gives major reductions in structural costs



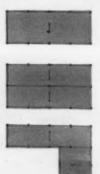
"Preferred Dimension" is a precast concrete technique which reduces the costs of frame construction by as much as 15%-20% and at the same time allows the architect free aesthetic expression

Full information available on request



CONCRETE LIMITED the largest structural precast concrete specialists in the world

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be shown with a full range of pitch fibre and plastic fittings. The display will include the new Temple plastics waste pipe connector, examples of telescopic joints, the special hand lathe for tapering pipe ends on site and a range of pitch fibre conduit in light and heavy grades, 2in to 6in diameter, also manufactured by Temple Tubes.

Griffin & George Ltd

The stand will feature the new Griffin-Grundy all metal furniture for laboratories and industrial installations. This furniture is made from stove enamelled zinc-coated steel sheet for general use. It is also manufactured in aluminium, stainless steel or plastics coated steel. All units have adjustable feet for levelling and removable base

Wallington Weston & Co Ltd

Both Marleybord and Marlica melamine products will be shown in the new special sizes additional to the standard 8ft by 4ft and 6ft by 4ft. A furniture gauge 1 high pressure malamine laminate available in 69 standard patterns, a partition walling material of Marleybord with a honeycomb core, and a vinyl mould for casting concrete are all new.

Lovell & Hanson Ltd

This company will be showing the complete range of Hanlo and Hanlite compression joints for use with light gauge copper tube for plumbing and heating services. In addition, the Hanlo cast brass and gunmetal range of stopcocks will be on show for the first time, and the Hanlo gunmetal compression joint will be featured.

Danfoss (London) Ltd

Danfoss, whose manufacturing range includes automatic actuators and safety devices for heating systems, will concentrate on showing the instruments that enter into the temperature control of the automatic circuit for their stand. This will include a room thermostat type st, and thermostatic radiator valve type RA.

Falk Stadelmann & Co Ltd

Falks will be showing a number of new products, and the stand will concentrate on specially designed hospital fittings. This will include all metal louvre ceiling fittings for general ward lighting, recessed ceiling fittings for mental wards, a series of three ceiling fittings for operating theatre general lighting and low level bed lighting to obviate eye level glare. The main units are fitted with emergency lights and the mental ward unit incorporates safety devices. In addition two versions of the

Trilux range of light fittings will be shown. Two new heating appliances will be displayed—the Supersil Infra Red 2½kW panel heater and the Falcon high level Infra Red #kW heater, both designed by J. M. Barnicot MSIA, with Falks range of shallow head immersion heater and the Florawarm floor heating

919 Rylands Brothers Ltd

The display will include a wide range of wire strand and cables for prestressing with photographic representation of various projects in which the company's wires have been used. Chain link fencing, both galvanised and plastic coated in a range of colours, meshes and gauges, wire rails and wire ropes for Ruston Bucyrus equipment will also be shown.

935, 937 Formica Ltd

The main feature will be a wide range of new colours and patterns displayed in 8ft patterns. The material will be available in a grade for both interior and exterior application.

The African Building Board Corporation Ltd

The stand will feature Timberit hardboard in its various applications. Three grades will be shown—standard Timberit for interior work, tempered Timberit for hard wear and exterior use and armour board Timberit made specifically for concrete formwork. Perforated Timberit available in nine different patterns will also be displayed.

942

Spencer Lock and Co Ltd

The stand will display the application of Royal Board, the Swedish hardboard, to the various branches of the building industry, including use in door and partition construction, as a base to decorative finishes and as a skin to enclose sound and heat insulating materials. In addition to standard board, the use of perforated material, oil tempered board for exterior use and of thicker grades, are shown.

Beves & Co (Joinery) Ltd

The principal products of the companytimber windows, the Roto ply panel purlin will be displayed. The Roto window gives a two-way opening system (bottom hung inward and side hung inward), friction stayed, and can be locked to provide ventilation. The HA window is purpose made and incorporates adjustable friction controlled pivot hinges. The Roto folding truss which is delivered in identical half units is designed to give clear spans up to 30ft with pitches of 35 and 40 degrees.

Denny, Mott & Dickson Ltd

The stand will feature several new products. These will include: Panawall three-ply timber panelling on which the face side comprises a series of random width hardwood veneers machine grooved at each joint; Kewlox construction, which replaces fixatives with an entirely new principle embodying a combination of telescopic, angular and interlocking actions, a system suitable for enclosed or framed structures; Triangel Boards, a three-layer highquality particle board, made in standard fire resistant and exterior qualities, suitable for veneering. In addition, Nickey Oak flooring, Western Red Cedar shingles, Pacific Coast Hemlock/ Balsam, Polypanol decorative pvc surface hardboard, and Brunek flameproofed insulation board will also be shown.

Granwood Flooring Co Ltd

Safari, a new wood topped composition block, will be on show for the first time. This consists of a cement composition base moulded on to a 2mm selected hardwood face, manufactured 6ft & in by 2ft kin by lin. Safari is suitable for heated floors. The Granwood Flooring Company will also display their new buff Granwood, an additional colour to their present range, and two suggested alternative sizes to the present standard range.

Timber Development Association

This year TDA will be featuring timber as an economic and functional material for house building. Flooring systems to be displayed will include strip flooring on battens on concrete, suspended floor without concrete ground seal slab, with plastic flooring and sound insulated intermediate floors. Two roofing systems will be shown; stressed skin panel construction and solid timber plank and roof construction using manufactured wood boards.

954

Getalit Ltd

A full range of patterns and colours in plastic laminate will be shown, including two new finishes—the new Natural finish gives wood grain patterns and the new Glowmat stripped surface incorporates alternate glossy and matt stripes.

Thames Plywood Manufacturers Ltd

The stand will be constructed from special types of plywood, blockboard and laminboard developed by Thamesply. Two new products, Sealskin and Veeline, will be shown for the first time. Thame Sealskin plywood is factory primed, filled and undercoated ready for top coat. Thames Veeline plywood has a V grooved

PRODORITE RETAIN WORLD LEADERSHIP WITH

NEW to pa

With the recent addition of a number of new, improved grades of corrosion-resisting cements, the already extensive PRODORITE range is now the most comprehensive and complete in the world, and PRODORITE hold total leadership in this field. The new cements are covered by world patents owned by Farbwerke Hoechst A. G. and PRODORITE have the sole U.K. manufacturing rights.

CORROSION-RESISTING CEMENTS!

These are the new cements-

NEW CEMENT PRODOR H.F.R.

A super potassium silicate cement which has valuable properties and advantages over existing silicate cements. It has a greater adhesion to acid-proof bricks than any other silicate cement; has a lower porosity; will resist all acids except hydrofioric, and has the highest known strength in compression. It provides a mortar for a wide variety of applications including foundation work, bedding and jointing pipes and tiles, lining of tanks, vessels and power station chimmeys,

NEW CEMENT PRODOR H.P.D.

An improved sodium silicate cement which is a development of the well-known general purpose Cement Prodor S.W.D., which is still available. It too has increased adhesion to acid-proof bricks; reduced porosity and an increased compression strength although not as high as H.F.R. Both of these cements have excellent resistance to acid solutions.

NEW ASPLIT 0

This is a special resin cement which has been developed for the more complex problems of dealing with acid alkali conditions. It is entirely resistant to acids, alkalies, bleaching solutions and most solvents. Most important, it can be used in contact with foodstuffs or beverages without danger of tainting. Its adhesion properties are excellent, and it will harden even under cold conditions in 24 hours. It is an excellent bedding and jointing mortar, and is available in slurry form also.

NEW ASPLIT C.N.

This new resin cement has been developed for use in situations which do not demand the more expensive Asplit O. This does not imply that it is a second grade cement, but only that it is available as an alternative for economic reasons. It has a high resistance to oxidising solutions.



Cement Prodor is used for these power station chimneys

Chemical resisting cement used in a continuous stainless steel strip pickling plant



The CEMENT PRODOR and ASPLIT range of corrosion-resisting cements complement each other, so that from these two types a suitable cement can be found to solve any chemical corrosion problem.



For full technical information, including detailed specifications of these new cements, the services of the Prodorite Sales and Technical Organisation are at your disposal. Preliminary advice and inspection is available free of charge.

* SEND FOR YOUR FREE COPY OF THE PRODORITE BOOKLET

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London Office: Artillery House, Artillery Row, S.W.1. Telephone: Abbey 7601 (6 lines)
ASSOCIATED COMPANIES THROUGHOUT THE WORLD





Two types of Tweeny waste disposal unit

plank effect. The display will include doors, floor and wall construction, shuttering, and decorative panelling in the company's materials.

956 CIBA (ARL) Ltd

The display will show an extensive range of exhibits to illustrate uses of synthetic resins and synthetic resin adhesives in the building industry. The uses of Aerolite and Aerodux glues and the surface protecting resins such as Melolan melamine resin will also be shown with an interesting development in the epoxy field in which Araldite is used for mending concrete.

957, 958 Burn Brothers (London) Ltd

The salient feature of this stand will be the new Terrain pvc gutters, soil pipes and ducting. The rainwater system includes a 4in half round gutter manufactured in black, grey and putty colours. The soil and waste system uses solvent weld cement for joints and includes accessories and traps. The Terrain ventilation systems are fixed together by means of cold solvent welding and includes branches, tees, offsets, bends, dampers, inspection doors, diffusers and grilles.

959, 960 BIP Reinforced Products Ltd

This stand will feature the new 6 oz
Filon translucent sheeting. Approximately
two dozen profiles and the new colour
range will be on view. Strength and fire
resistance qualities will be illustrated.
The stand will be roofed with a continuous length of profile made especially
for the Queen Elizabeth II Grandstand
at Ascot.

962 Thomas Hedley & Co Ltd

The principal feature of the stand will be a large calculator designed by Hedley's research chemists and used to simplify the re-balancing of concrete mixers when the advantages of air entrainment are required. Hedley's new liquid air entraining agent, Tricon, and the mortar plasticiser, Entrainit, will also be shown.

964 Bruynzeel Wood Products Co Ltd

Besides the Bruynzeel system of adjustable timber shelving, a two tier unit with built-in staircase will be shown as an example of multi-tier Bruynzeel storage units.

965 The Haigh Engineering Co Ltd

In addition to the Tweeny waste disposer and the Disposamatic waste disposer, a new waste disposal unit will be introduced—the Tweeny estate model.

966, 967

North British Plastics Ltd

The stand will feature applications of Panax decorative melamine surfaced laminates and Challenge stoveenamelled hardboard.

968 Holmsund Flooring Ltd

The stand will show Holmsund vinyl flooring available in 20cm and 30cm squares, strips and nyletters. Holmsund vinyl acoustic tiles, which consist of plastic slotted cassettes 40cm square containing glass wool, will also be shown.

969 Applied Acoustics Ltd

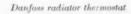
Micropor, Woodacoustic and Profilia acoustic materials will be shown.

Micropor panels and partitions consist of a micro-porous membrane mounted on special board. Special coloured acoustic lacquer is applied in the factory, the panels are washable and the sizes range from 2ft × 2ft to 8ft × 4ft.

Woodacoustic panels are veneered on both sides with wood veneers and are designed to permit sound waves to enter longitudinal grooves. Profiles are acoustic profiles of solid wood.

970 Saniguard Appliances Ltd

The Barrywald automatic incinerator, a 1 kW wall mounted sanitary incinerator will be displayed here.





The latest developments in Solid Fuel Central Heating

The cheapest system and the most flexible

You know already that solid fuel is the cheapest central heating to run—that's why so many of your clients specify it.

You are probably aware that solid fuel central heating can be most economically adapted to suit any house, any budget. Central heating can be tailor-made to suit every household because solid fuel gives as much or as little heat as is wanted. Where it is wanted. How it is wanted. And when it is wanted. With two radiators or twenty. Here we show four different solid fuel central heating systems.

But do you know about the very latest techniques of designing and installing small-pipe systems? How to use them most economically for the smallest systems? The C.U.C. have several booklets, written by experts, which you would find helpful. Two are FREE, one costs 2/6d. You can get them by posting off the coupon below.

	UPPER BELGRAVE STREET, LONDON, SW1 Please send me:
7	FREE BOOKLET 'Small Central Heating Systems'
	FREE BOOKLET 'The Design and Installation of Small-pipe Heating Systems with Automatic Temperature Control'
	'Central Heating for Houses' for which I enclose a postal order for 2/6
OR.	

Four Solid Fuel Central Heating Systems



2/3 RADIATORS FROM AN OPEN FIRE

A modern open fire with a high output back-boiler will give lots of hot water, heat a radiator, say, in the living room or hall, another in the bedroom, and a towel rail in the bathroom (with a warm living room thrown in). This is comfort! And very economical.



BACKGROUND CENTRAL HEATING FROM AN INDEPENDENT BOILER

Another way of getting a warm house, with three or four radiators placed just where they are wanted and as much hot water as is needed, is to fit one of the new independent boilers with thermostatic controls.



FULL LUXURY CENTRAL HEATING

For full central heating with the luxury of radiators in every room, solid fuel is the cheapest of all systems to run. The new central heating boilers are very streamlined and labour-saving and can heat anything from six to twenty radiators and provide constant hot water too.



ROOM HEATERS CAN ALSO HEAT RADIATORS

When there is an existing hot water system and a large living moom to heat, it is a good plan to install a modern room heater with back boiler. This will give efficient and very economical heating of the room in which it is installed, plus heating for, say, two or three radiators in cold spots in the house, independently of the hot water system.

The Building Exhibition Olympia 1961

Grand Hall Gallery Section

This half of the Grand Hall Gallery is traditionally ennobled by the presence of the Government departments. With the exception, perhaps, of Housing and Local Government (857, 858), who are displaying their work for old people, they seem less interesting than usual. DSIR's exhibits (855) on the sound insulation between dwellings and fire precautions should be worth a visit, but Mow's exhibit (852, 853)-of the buildings they have put up to serve science-seems likely to provoke, among architects, a rather different response to that intended. After these, the commercial exhibitors will come as something of a relief. Airscrew Co and Jicwood's new system of suspended flooring (867, 868) will be worth a look, and so will Thomas Crompton's safety window ironmongery (844) and Avery's Ghost cubicle track (837).

Conran & Co Ltd

The Conran stand will be featuring a collection of furnishing double-sided fabrics from Finland, designed for contract work 60 in wide and in a range of 43 colours. Three new chairs—an executive swivel chair, a conference chair and a typist's swivel chair will also be shown.

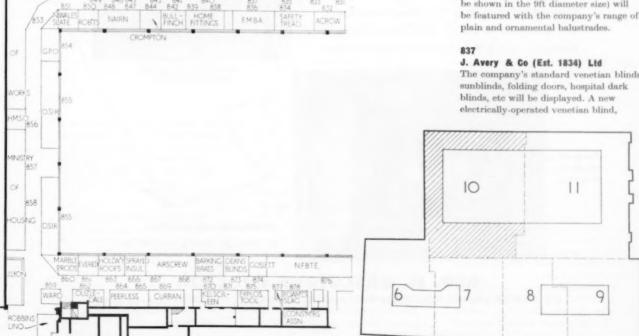
833 Lawford Phillips Ltd

The Design fireplace system will be shown. This consists of a hole-in-the-wall fireplace with a surrounding aluminium framework into which decorative panels can be fitted. The system was designed by Derek Hodgkinson, MSIA, and includes a wide selection of panel dimension and decorative finish. Finish-variations on the doublesided panels include tweed or velvet to match upholstery, wallpaper, timber veneer, leather cloth or silk. The system can incorporate glass panels for protecting drawings or fabrics.

834 The Safety Tread Ltd

The range of Allite, Alfab and Mason's non-slip stair nosings will be shown. The Endurail plastic handrail available in nine colours and five sizes) and the Flyover spiral staircase (available from 4ft to 10ft diameter, to be shown in the 9ft diameter size) will be featured with the company's range of

The company's standard venetian blinds



...by over half the size of a football pitch!



The open plan of the storage platform.

This new Morphy-Richards building could contain over half a football pitch! Within its 4 walls, a Kee Klamp storage platform, 233 ft. x105 ft., and 12 ft. 5 in. high, completely free-standing, provides 24,000 sq. ft. of floor area at a loading of 150 lb. per sq. ft. with free access to the equivalent storage area beneath.

Planned and erected by "Kee Klamp" engineers, it is another example of "Kee Klamp" storage know-how which is so much in demand today.

Free access to ground floor stores



STORAGE PLATFORMS

gain an extra

24,000 sq. ft.

floor area for

ORPHY-RICHARDS



Advice on any problem of storage freely available.

GEO. H. GASCOIGNE CO. LTD.,

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...,



Typist's swivel chair in the Conran office furniture range



Conran executive's swivel chair, at rear, and a conference chair

the pg venetian blind for double-glazed windows, the Dampa acoustic ceiling, made both in the form of tiles and panel strip, and the new hospital cubicle track, the Ghost track, which will be shown for the first time.

838, 839 Home Fittings (Great Britain) Ltd

The Woodmaster a new type of expanding door, constructed of wood with veneered surface will be displayed. The stand will include a motorised version of Modernfold expanding walls and doors, Modernfold doors running on a curved track, models of the new pivot and glide switching devices which facilitate unobtrusive stacking, and an improved version of the Soundmaster expanding door. A display

of Sun-Aire venetian blinds with various innovations will also be shown.

Andrews Bros (Bristol) Ltd

The stand will show a newly designed unit in the Elizabeth Ann range of kitchen furniture. This consists of a double-drainer sink unit, wall shelves and wall cupboards. Two other groups of Elizabeth Ann kitchen furniture—the 21in series and the 18in series will also be on display.

844 Thomas Grompton & Sons Ltd

Safety problems involved when horizontally-pivoted windows are used, will be the main theme of the stand and the range of hinges and fittings to be displayed. This will include a new adjustable friction pivot hinge which works with expanding brake principle and a new pivot hinge with a safety stop device designed to be used with the friction pivot hinge. Two new casement fasteners, a double action fastener which works on a torsion bar principle and a single action of similar design which locks at one position instead of two, and a new safety retaining stay will also be shown.

847, 848 Michael Nairn & Co Ltd

The stand will show the company's range of vinyl tiles including $3 \cdot 2mm$ gauge for heavy commercial use, $2 \cdot 0mm$ gauge for light commercial use and $1 \cdot 6mm$ Houseproud tiles which are being shown for the first time.

850 Alfred G. Roberts Ltd

In addition to a selection of English manufactured hardware, the emphasis will be on the Wehag range of anodised aluminium door furniture for which Alfred G. Roberts Ltd are sole agents in the Uκ and the Commonwealth. The Universal Hydraulic Check Single Action Door Closer also of Continental design will be featured. The Huba door-raising device suitable for terrace doors or french windows, which consists of a lever fitted to the face of the jamb to raise the door on rising butts, thus disengaging the rebate along the bottom of the door from the threshold, will also be shown.

852, 853 Ministry of Works

Building for science is to be the theme of the Ministry of Works stand. The size and scope of the Ministry's programme will be expressed by illustrations of the compressed air installation at the National Gas Turbine Establishment, Pyestock, the supersonic tunnel at the Royal Aircraft Establishment, Bedford, and the wave basin building at DSIR Hydraulics Research Station featured by models, drawings and photographs.

Also featured on the stand and of particular interest to architects and designers will be the two brs items—the Rotating Wall Laboratory for research into heat transfer through different types of walling material under varying conditions of exposure and the Anechoic Chamber and Reverberant Room for research into transmission of sound from partition walls amongst other things.

855 Department of Scientific and Industrial Research

Data in respect to sound insulation between dwellings as published in a recently compiled handbook will be presented. The exhibit on the London Noise Survey will describe the application and use of recordings made during the survey. The stand will also illustrate some of the work being done towards efficient utilisation of Britain's new forests, by the Forest Products Research Laboratory. A working model to demonstrate how opening vents in conjunction with doors and other openings at ground level can clear the lower part of a single storey factory type building of smoke and hot gases resulting from fire, will be shown by the Fire Research Station.

857, 858 Ministry of Housing and Local Government

This stand is devoted to the Ministry's work on flatlets for old people. There is a model of some flatlets which the Ministry are now building at Stevenage, using the CLASP system and a display of some of the components used. Lastly some drawings prepared by an anatomist give anthropometric data on old people.

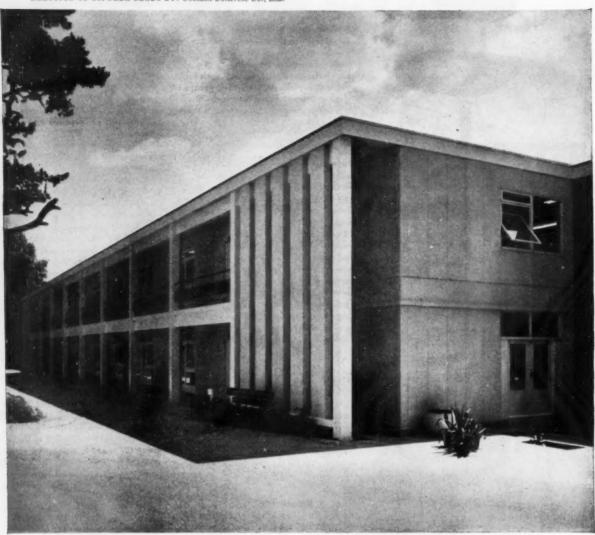
859 Ward & Co (Letters) Ltd

Ward and company specialise in the manufacture of applied lettering for buildings and a representative selection of their products will be shown. This will include varying sizes and styles of raised letters, door nameplates, cast aluminium crests, illuminated signs and notice boards.

1075, 1076 Robbins Linoleum Ltd

Robbins Linoleum Ltd are the sole importers of the American Kentiles which will feature on this stand. The materials used for Kentiles include solid vinyl, crystalite vinyl, rubber, vinyl asbestos, asphalt, cork and terrazzo. There is an extensive range of patterns from plain colours to metallic chip, terrazzo, woven texture and cork appearances. The Kentile conductive solid vinyl tile for hospitals, laboratories and surgeries, is designed to equalise electrical charges between personnel wearing conductive shoes and conductive equipment making contact with the floor.

ARCHITECT: H. Stanley Smith, A.R.I.B.A.
MAIN CONTRACTORS: Richard Costain (Construction) Ltd.
ERECTION OF SIPOREX SLABS BY: Costain Concrete Co., Ltd.



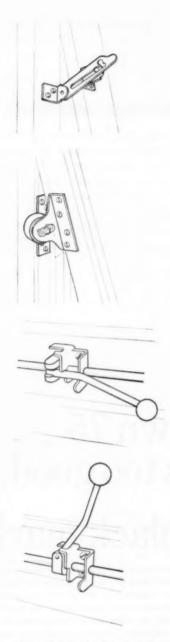
THE **CEMENT AND CONCRETE ASSOCIATION**

CHOSE SIPOREX

The Cement and Concrete Association's new laboratory at Wexham Springs is constructed throughout in Siporex, Costain's new cellular concrete. Siporex for the roof, Siporex for the walls, Siporex for partitions. Siporex pre-cast, lightweight units offer architect, structural engineer and client outstanding practical advantages. They are light, less than one third the weight of brickwork. They have a thermal insulation six times greater. They combine strength with dimensional stability. They are resistant to fire and frost and can be sawn, cut, nailed, drilled and chased with simple hand tools. They give higher speed of erection and require simple finishes. In short: Siporex, today's outstanding building material.

Siporex may be seen on Stand No. 1308 at this year's British Industries Exhibition (Olympia, 15-29 November). Visitors to the stand will be very welcome,





Above, Thomas Crompton's new safety window gear. From top to bottom: retaining stay, pivot hinge with safety stop, double action casement fastener shown in two positions

Below, Ward and Company's Formalite box sign



860

Marble Products & Flooring Co Ltd

The display will show a wide range of coloured marbles and granite suitable for internal and external use.

861 Evered & Co Ltd

Among the range of products to be shown, there will be Surreyware metal and Everite plastic door furniture, taps, castors, the Circulatair ventilator, bells and door chimes, Isis laboratory fittings, tracks, slides, Everine polystyrene wall tiles and a selection of locks from the Erebus Manufacturing Co.

864, 865 Peerless Built-In Furniture Ltd

The latest development of Pre-Coated Package Units will be featured. The units are packed in prefabricated sectional parts for transportation and safe storage before installation, and are ready to receive their final coat on site.

866 Sprayed Insulations Ltd

The stand will show the use of Silbestos sprayed asbestos for thermal insulation, fire protection, sound absorption and condensation control. Silbestos is produced by blowing on specially prepared asbestos fibres in atomised water, and can be applied to such surfaces as plaster, brickwork, asbestos cement, timber or metal, in thicknesses ranging from $\frac{1}{4}$ in to 6in.

867, 868

The Airscrew Co & Jicwood Ltd

This will display the Weyroc building boards and their application, including a system of suspended flooring recently approved by Brs. Weyroc panels with decorative facings and the company's film New Materials and Techniques—Wood Chipboard will also be shown.

869 Edward Curran Engineering Ltd

The company will be showing their range of vitreous enamel sinks and architectural enamel panels. The range of sinks will include three new models—the Tay, a double drainer sink top 54in by 18in; the Cam single drainer 36in by 18in, with an octagonal shaped bowl; and the Avon double drainer 63in by 21in. Curran also manufacture the Seaporclad vitreous enamel on steel infill panels and Seaporcel facing panels, available in almost any of the British Standard colours.

874 Alfred Goslett & Co Ltd

The stand will show a wide selection from the company's range of Swanlyne and Cygnet basins and closets made in vitreous china. An entirely new jointless shower enclosure moulded in perspex will be featured.

878

Foamed Slag Producers Federation Ltd

The stand will display many uses of foamed slag including the latest developments in the field of reinforced lightweight concrete. The aggregate in lightweight concrete is suitable for external walls and is designed to combine structural strength with thermal insulation. It can also be used as a sound absorption medium.



Crown 75 was too good...

it earned us a black mark.

The demand for Crown 75 surprised even us:—and our trouble has been to keep pace with it. As a result we have got black marks for delivery. That phase is now over. We began making Crown 75 two years ago on one plant; a year ago we got a second into production; we now have three. Now, we can keep pace and can offer short deliveries. In fact, we are ready to deliver Crown 75 when you want it, where you want it and in any quantity you ask for. So you, the architect can specify Crown 75 with certainty of not having to accept 'or equal'—for there is none.

Builders will save on costs since Crown 75 can now be delivered to the site precisely when it is needed.



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The Building Exhibition Olympia 1961

11

Grand Hall Gallery Section

This half of the Grand Hall gallery is enlivened for the architect by the presence of Profilit constructional glass on the BTB Ltd stand (811), by a new double glazing unit and some new curtain walling on the Plyglass Ltd stand (814), and by some ceramic murals on Ceramic Consultants Ltd stand (830). Osma Plastics Ltd (826, 827) have a newly developed glass-fibre window, and Pyrene Co Ltd (879) a new fire detecting alarm system. The organisers of the Building Exhibition have a stand dealing with SfB (called, shamingly "SfBEE HIVE") on 808

803

Cordar Ltd

The stand will show a wide range of single and double skin insulated roof lights available in clear, opal, amber and various other shades of perspex. The new Cordar polyester glass fibre 45° splayed curbs suitable for Cordar domes will also be displayed. There will also be a Neolith channel reinforced roofing slab unit that incorporates a Cordar dome.

804

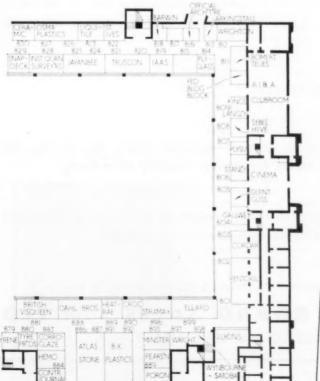
Sir John Gallwey (Instruments) Ltd

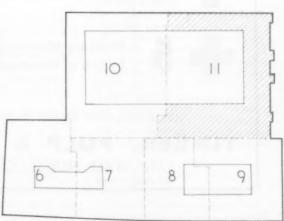
The Protimeter Concretemaster (a development of the Surveymaster), a new portable moisture meter specially designed for the determination of moisture in concrete screeds, will be shown. This electric moisture meter is designed to contact efficiently the section of the screed where most of the moisture lies and to make adjustments for temperature variations.

806

W. F. Stanley & Co Ltd

The stand will display a full range of Stanley surveying instruments and equipment which will include the A.1 optical micrometer reading theodolite, the A 505 mean-reading level, the Popular builder's levelling outfit and the Allbrit all-metal levelling staff. The Draftmaster Parallel Motion unit drawing office equipment will be of particular interest. The portable Skid Resistance Tester to ascertain the friction coefficient between a skidding tyre and a wet road surface will also be shown.

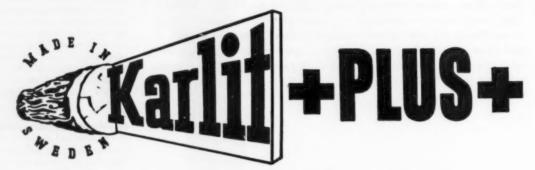




SfB Ri1

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- 3
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- **4** 5

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Osma plastic rainwater goods

807 Pivsu Sales Ltd

The stand will show the company's contemporary mosaic tiles which are handled in foot square sheets and comprise polystyrene tiles, heat sealed to a fabric for application. The mosaics are fixed with Plysu Mastic, grouted with Super Snowcem and give a range of 15 standard colours.

811 BTB Ltd

The Profilit constructional glass being shown for the first time at the Building Exhibition will be of particular interest. Profilit has been used extensively on the Continent, and consists of a trough section 10 ½ in wide in units up to 16ft high. It gives the light diffusing effect of cathedral glass and has been used for curtain walling, vertical glazing, roofs and canopies. It can be fixed into metal or wood channels or direct into concrete or brick chases. Profilit can also be made up into double glazing.

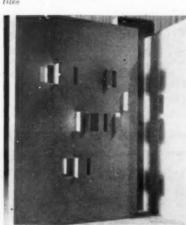
812 F. Wrighton & Sons Ltd

Two new ranges of built-in furniture will be shown for the first time—the contract range fitted kitchen furniture and built-in wardrobes. The contract kitchen is based on 21in multiples and the built-in wardrobe is adaptable in height from 7ft 6in to 8ft 6in and, based on a 4in module, may be built to any length.

814 Plyglass Ltd

The stand will demonstrate the use of the range of Plyglass sealed double glazing units for environmental control. The display will include a new type of curtain walling infill panel known as Multitone Vitroslab, and a new double glazing unit incorporating an improved edge seal suitable for use with compression glazing systems. Decorated Plyglass and Plylite fully insulated and diffusing roof light will also be shown.

Ceramic Consultants shadow or projection



818 P. Barwin Ltd

Ceramic mosaics and small glazed and unglazed tiles of Joo-Gresite (Milan) and Titangres (San Marino) will be shown, with Gresiflex flooring which consists of Joo Gresite ceramic mosaics set in rubber, the Italian IRMA vitreous glass mosaics and Edalit marble composition floor tiles.

820, 821 Truscon Ltd

The company's activities will be illustrated by photographs and films of recent contracts, which have been carried out by the Construction, Engineering Design, Precast and Hy-Rib divisions of the Truscon organisation.

824, 825 Jayanbee Joinery Ltd

The company will display their range of standard products in windows, flush doors and kitchen units. New items will include the Paragon 100 range of kitchen units, the Paragon 50 range in which the low level units are raised off the floor; the Jayanbee Kitchette designed for single living room accommodation incorporating storage, work surface and sink in an area of 15 square feet; and the Paragon Prolaca hardboard faced flush door. The Pierson full vision sashless window will be included in the display.

826, 827 Osma Plastics Ltd

The stand will show a number of recently developed products in reinforced plastics and pve Standard Osma Plastics. Rainwater goods with gutters in pvc or glass fibre, will be featured. The new Osma cold water storage cistern in glass fibre with 30/25 gallon capacity will be shown and the display will include Osmarail pve handrail, a newly developed glass fibre window, and a new plastics cellular structure for doors, partitioning, etc used in the construction of the stand.

630 Ceramic Consultants Ltd

Following the show at the Ceylon Tea Centre, Ceramic Design in Modern Building, Ceramic Consultants will display their work both on Stand 830 and in the RIBA clubroom at the Building Exhibition. This group, which consists of designers, industrial ceramists and manufacturers, offers a service for producing designs, prototypes and products. The display will include tiles suitable for decorative murals, a selection of domestic pottery, ceramic sculpture, exterior stoneware panels, ceramic reliefs, pierced ceramic screens, and various architectural uses of ceramics. The association of designers and manufacturers promises a most interesting display.

879 The Pyrene Co Ltd

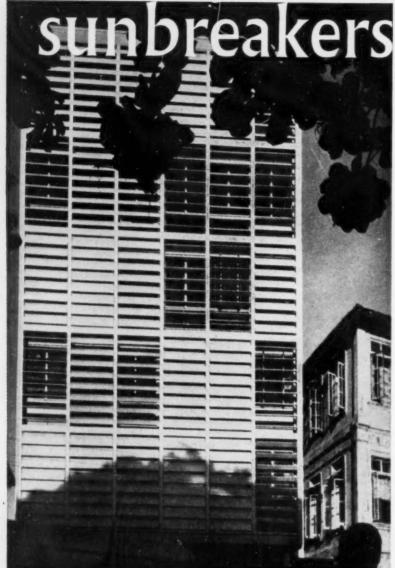
The company will show a representative range of fire protection equipment. In addition to the established range, two new Pyrene maintained pressure type hand fire extinguishers, charged with a new general purpose fire extinguishing powder, will also be shown. The powder is a non-conductor of electricity, is non-injurious and non-toxic. The new Pyrene automatic fire detecting and alarm system, which incorporates open circuit detector heads, will be displayed.

880

Tyre Products Ltd

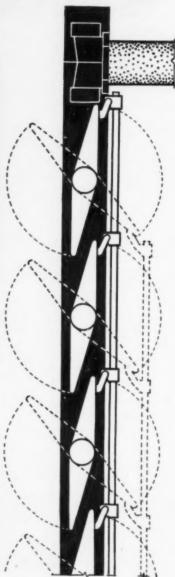
The stand will show types of link matting, the patented Wipermat, and Close weave mat. All mats are available

HOPE'S windows &





The main elevation is faced with an aluminium grid divided into 30 openings of equal size, each containing eight aluminium "aerofoil" sunbreakers. These are horizontally pivoted, linked together, and operated by hand from inside, through vertically pivoted casements in the windows.



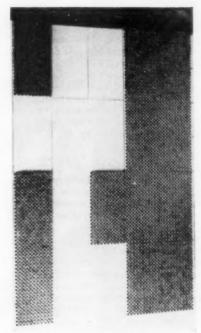
HOPE'S Sunbreakers are made in. a variety of profiles in pressed steel or aluminium, both single and double skinned, fixed and movable: the latter can be hand or mechanically operated.

HOPE'S WINDOWS
The Name Guarantees



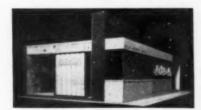
HENRY HOPE & SONS LTD SMETHWICK, BIRMINGHAM LONDON: 17 BERNERS ST., W.





Upper, Ceramic Consultants relief numerals, and lower ceramic panel mural

Below, model of Atlas Stone Company's stand and, bottom, British Xylonite Group's experimental plastic building





either in natural self colour or dyed red, blue, green, rust-brown or black.

886, 887 Atlas Stone Co Ltd

The stand of the Atlas Stone Co Ltd and its subsidiary company, the Atlas Asbestos Cement Co Ltd, designed by Robin Butteral of Building Industries Services Ltd, will include the new Spectra-Glaze, Riven block, Shadowall and Windowall, Atlas corrugated sheets and cladding panels of decorative exposed aggregates. Atlas reconstructed stone and the new garden paving Hortex will be shown. The Atlas Asbestos Cement Co's major span double cladding system will be featured. As main distributors of Aspect pvc rainwater goods (manufactured by Allied Industrial Plastics Ltd) the company will show a full range of these materials.

888 Dahl Brothers Ltd

The stand will be in two sections, one showing central heating equipment and one showing a range of sink tops and bowls. The latter will include Scandia s/s sink tops, Sanisteel s/s sinks and Sanisteel/Formica postformed sink tops.

Heatrae Ltd.

The Heatrae Sleekline decentralised electric heating panels will be shown which consist of a lightweight, switch controlled, portable or wall mounting electric panel heater. The unit is made from aluminium sheet with tubular channels to take the electrical elements.

890 Croid Ltd

In addition to a selection of samples from their 200 grades of glue, Croid will be showing specific examples of joinery, cabinet work, waterproof adhesion, concrete adhesion, concrete additives and Stormur for adhesion of plastic wall and ceiling coverings.

891, 892 British Xylonite Group

Four companies in this group, Cascelloid of Leicester, Expanded Plastics Ltd., BX Plastics Ltd. and Extrudex Ltd. will be showing on the stand. Established and new developments in the use of plastics in building will be displayed, and an experimental demountable building designed by C. W. Glover and Partners will be featured. The materials to be shown will include Bexthene, Velbex, Polyzote, Onazote, Cobex, Cascalite and Hipact.

299 Ellard Sliding Door Gears Ltd Canada

This stand will show the application and wide range of the Ellard sliding doors, overhead doors, sliding and folding partitions and light sliding gears by means of working models and samples together with photographs.

This section is dominated by two large groups of stands, one group (1300–1320) comprising manufacturers from Sweden and the other (1321–1340) manufacturers from Finland. Attached to the Finnish stand is another (1341) representing a Finnish sauna bath, but the interest of this is other than technical. These two groups of stands should be interesting: both show such items as door furniture, marbles, glass and mosaic, and the Swedish group is also showing some kitchen equipment and a range of boilers which will burn almost anything. These two countries are not the only foreign exhibitors up here for George E. Gray (Distributors) Ltd (1287, 1288) show the Zone range of American roof coatings and there are some interesting home exhibitors also, such as Roneo Ltd (1289,1290) with their modular steel partitioning and Abbey Tile Co (1255) have some new ceramic mosaics.

1233

W. Lusty & Sons Ltd

The stand will show the new Maidsaver range of kitchen units. These comprise 11 basic units, based on a 21in module and include base and wall units, refrigerator and cooker units, broom cupboards and sink units. The range is supplied in whitewood or part-painted with or without laminated plastic tops. The design incorporates a fold-down plinth to facilitate cleaning.

1234

J. T. Ellis & Co Ltd

The stand will show the Vanitory units of the company. These range from a simple handbasin unit, to a handbasin with a pedestal of drawers either side.

1235

Prestige Furniture Ltd

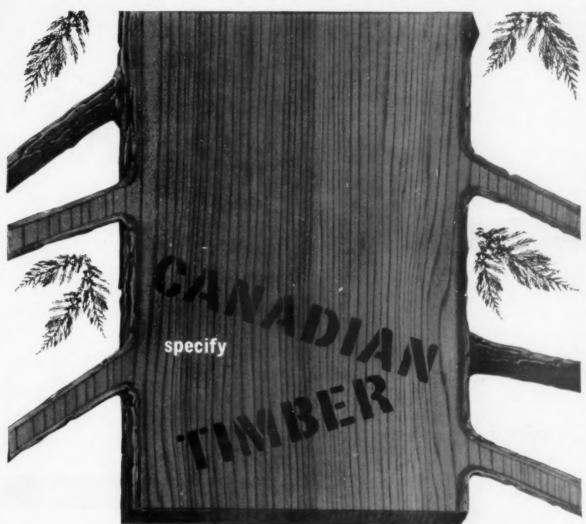
The new Prestige range of fitted kitchen units, the Bermuda range, will be shown for the first time. The framework of these units is of natural polished timber and working tops will be finished in plastic laminates.

1236

County Furniture (London) Ltd

The new County Kitchens 600 range with Fablonite working surfaces will be shown.





cedar

Western red With a tree of great age (1,200 years is not unusual) a timber of enormous resilience may be taken for granted. Yet Western Red Cedar is also the lightest of all commercial softwoods and is unsurpassed in its also the lightest of all commercial softwoods and is unsurpassed in its easy workability. Free from pitch or resin, highly resistant to decay, acids and alkalies, handsome both in texture and coiour–few timbers combine so many rare qualities, or provide a better material for so many uses. Roof decking, exterior cladding, interior panelling, door and window framing, moulding and partitioning, are just some examples. For information: The Commercial Secretary (Timber), Office of the High Commissioner for Canada, No 1 Grosvenor Square, London W1, or The Canadian Trade Commissioner (Timber), 144 West George Street, Glasgow, C2.

Inspect Canadian Timber on Stand No. EF 102/5 at the Building **Trades** Exhibition Olympia Nov. 15-29



West Coast woods give shape to an exciting architectural design



all eyes are on Ferodo non-slip stairtreads



Here's the kind of shapely design that brings a gleam to the eyes of students of modern staircase architecture. Goodlooking Ferodo non-slip Stairtreads set new standards of safety... protect stairs from wear...last for years without maintenance or renovation.

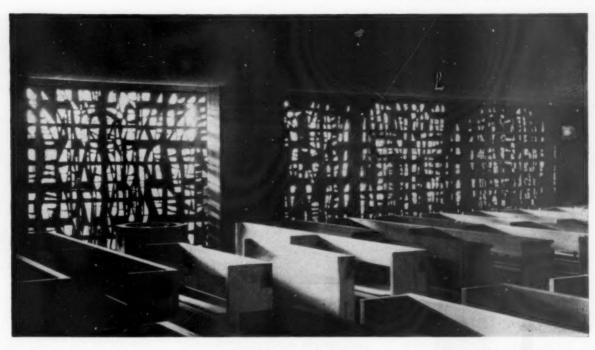
- * 7 attractive colours.
- * Comprehensive range—29 treads with nosings, 3 flat treads.
- * Aluminium, silver bronze or manganese bronze channels.
- * Special orders can be manufactured.

See Ferodo on Stand 275, Row J, Grand Hall, Olympia



FERODO LIMITED CHAPEL-EN-LE-FRITH

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Swedish hewed glass

in fitted kitchens, one with 21in deep units with hinged doors and the other 18in. deep units with sliding doors. Both incorporate Polyester finish.

1252

Concrete Improvers Ltd

Concrete Improvers Ltd are industrial flooring consultants and their stand will be exhibiting their service. Roeflor is a hardening treatment which may be applied to new or existing industrial concrete floors, making it impervious to oils and similar chemicals, non-slip, waterproof and prevents dusting.

1255

Abbey Tile Co Ltd

An extensive range of imported glazed and unglazed ceramic mosaics will be displayed, many patterns of which are being shown for the first time.

1257

Plastics & Resins Ltd

Pallidux plastic coating, a new resinbased plastic decorative and anticorrosive coating will be introduced by Plastics & Resins Ltd. It is supplied as a soft paste and is available in white and pastel shades. The addition of a catalyst causes polymerisation and a hard-coating is produced. It can be applied by spray gun, paint brush or roller. The material has undergone several years of practical development in France, and has been used for lining swimming pools, sealing and protecting cold stores, and sea-going vessels and insulation of electrical power house walls. It can be applied to most building materials.

1282

H.V.E. (Electric) Ltd—Thermoduct Ltd HVE (Electric) Ltd and their associate company Thermoduct Ltd will be

featuring their withdrawable electric floor heating system. An entirely new type of thermal insulation Kay Fibre will be shown for the first time. This is for use as an under-screed insulation, particularly where floor heating is installed. Thermocore pneumatic rubber core tubes for forming continuous ducts in concrete will also be exhibited.

1287, 1288

George E. Gray (Distributors) Ltd

The Zone range of roofing materials recently introduced from America will be displayed for the first time by George E. Gray (Distributors) Ltd also taking part in the exhibition for the first time. Zone liquid roof coating is manufactured by the South-Western Petroleum Company Inc and claims that it can be applied even on a damp roof without loss of effect. Applications of Pestcure timber preservatives will also be shown.

1289, 1290 Roneo Ltd

New developments in modular steel partitioning for offices, and new doors for industrial partitioning will be featured on the stand in addition to a new range of steel lockers, items of office equipment and a new vertical planfile. The Roneo Flushline modular partitioning is designed on a 4in module with height adjustments between 7ft and 10ft 8in. The door units will include a new sliding door with a 3ft 6in leaf giving a 2ft 8in opening. The Roneo Flushline Vertical Planfile consists of a steel cabinet divided into compartments by pivoted wave-shaped sheet steel dividers.

1300-1320 Sweden

Thirty-six Swedish firms, manufacturers of a wide range of building materials

1239 Thomas Eastham & Son Ltd

The stand will show the company's kitchen fittings including the two low level units, Eastham Minor and Eastham Major. These units have polystyrene interiors.

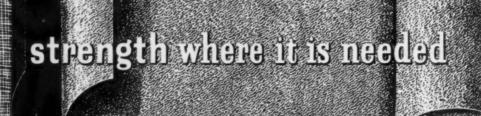
1241

Metwood Industries (Sales) Ltd

The stand will show a selection of Debonair kitchen units, including base units with lift-up-and-slide-away doors, tall units, including a refrigerator unit, wall units and sink units. The units are constructed of timber and incorporate Formica surfaces.

1246, 1247 Blue Gate Products Ltd

Representing specialists in kitchen furniture, the stand will display a large range of sink unit bases and two designs



.... strength embedded right in the core of SISALKRAFT

by the unique reinforcement of tough, nonhygroscopic, unspun sisal fibres that are laid in both directions and sealed in two layers of high grade bitumen and covered by outer sheets of stout kraft paper. This 6 ply construction gives the tough, supple strength of SISALKRAFT, making it easy to handle yet exceptionally tear resistant and proof against moisture and damp.



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Upper, Bahco home laundry unit; lower, Prestige Bermuda kitchen units

and household equipment, are for the first time exhibiting as a group at Olympia. Entry into the exhibition has been arranged by the General Export Association of Sweden acting for the exhibitor's organisation, the Swedish Building Industries Association (AB. Svensk Byggtjanst). The majority of these firms have British agents to market their products in this country.

A.B. Svenska Jarnvagsverk Staderna (Swedish Railway Works Ltd)

as heating plants comprise universal boilers for firing with not only oil, but also coke, wood and kitchen waste. The Parca Sonnett and Binett domestic boilers will be displayed. The Sonnett is manufactured for an output of 15,000 to 75,000 Btu/hr, and it is produced in two versions-B which incorporates a Parca battery of copper tubes to form the heating element and M version which is provided with a copper lined hot water storage tank to be used when the supply water is very hard. The Binett oil and solid fuel boiler, has an output for type 1 of 32,000 to 84,000 BTUS/hr. The Binett is also produced in B and M versions. The general agent for asj in Great Britain is Steel Radiators Ltd.

AB Svensk Blacking Industri of Orebro, Sweden

A new range of Epoxies, resin-based compounds for concrete restoration, will be shown. These products are being marketed in this country by the Cementex (UK) Company. The materials have a high degree of adhesion to concrete, plaster, brick, glass, stucco, tile, stone, and wood and are resistant to water and chemicals. They are for use in the repair and restoration of concrete and other constructions subject to cracks, spalls, honeycombing, roughness, cleavages and porosity. They are also used for waterproofing, for the

construction of non-skid surfaces as well as for bonding facing materials and grouting. Coloured Epoxies can also be used in external decoration.

AB Ifoverken

The display will feature IFO vitreous ceramic floor and mosaic tiles.

Aug Stenman AB

The stand will exhibit complete Swedish doors and frames, fitted with hinges and locks in the factory, a complete range of ASSA cylinder locks and lever locks. The cylinder locks incorporate 7 pier cylinders which permits a large number of combinations. The stand will also show a new security feature consisting of electrical locks, code-controlled, designed for banks and other institutions requiring special security measures. A range of door furniture will also be displayed. In addition, brass and plastic coated welded iron tubes, and their construction, finishes and application, will be demonstrated.

AB Bahco

The company will be introducing their fans, building driers and laundry driers to the British market. The display will include the Bahco interior fan, the Bahco Silent installation and the Bahco small propeller fans for ventilation. Building and laundry driers will also be shown.

Aktiebolaget Tilafabriken

The decorative Swedish plastic Coronet will be shown on this stand. Coronet is a plastic laminate consisting of layers of processed resin impregnated papers fused together to form a homogeneous sheet with a hard melamine surface. It is available in different colours and patterns. Sole distributors in this country are the Phoenix Timber Company, Rainham, Essex.

Masonite Ltd

Two new finishes of Masonite Panelboard will be shown. Masonite Vynl Panelboard is an ICI Vynl coating laminated on to Masonite medium hardboard, either one or both sides giving thicknesses of \$\frac{1}{4}\text{in.}\$ and \$\frac{1}{4}\text{in.}\$ Masonite Fasada recently introduced from Sweden, is designed for use as external cladding, and is manufactured in 3ft by 9ft and 4ft by 9ft sizes with weatherboard units of 1ft by 9ft.

Svenska Cellulosa A.B. Sweden

This stand features all sca's fibreboard products. This will include Esca Board hardboard that requires no sealing, filling or priming, Esca Flor, Panelboard and Esca Tint. In addition, two standard hardboards and sca Ankarboard insulation board will also be shown.

The agents for sca in the UK are Martin Olsson (Fibreboards) Ltd.

Svenska Glas E Mettalldesign

The display will show a selection of the Svensk Glas e Mettalldesign door furniture to be marketed in this country by Alfred G. Roberts Ltd.

Kockums Emaljerverk

The main products of this Swedish company consist of hot rolled thin sheets, Grey Iron goods, both electric and gas cookers, steel casting and enamelled cast iron household ware. The electric cooker No 8272 will be featured. This is an interesting design with a one-piece pressed vitreous enamelled hob with sink recesses under swing-up hotplates, arranged for easy cleaning.

AB Standardsnickerier

The Swedish Kalmar kitchen units manufactured in timber to conform with Swedish standards will be shown.

Paul Ssonbolagen AB

This stand will show Swedish techniques in coloured glass, A new system of casting and gluing has made it possible to develop Swedish hand-moulded coloured glass as a design element. The glasses are available in 18 standard geometric blocks in 43 different colours. Glass door furniture will also be shown.

Hoganas-Billesholms Aktiebolag

The Hoganas 3D glazed ceramic coloured wall tiles designed to give relief treatment to internal and external walls will be shown. The tiles were designed by the Swedish sculptor Torsten Treutiger.

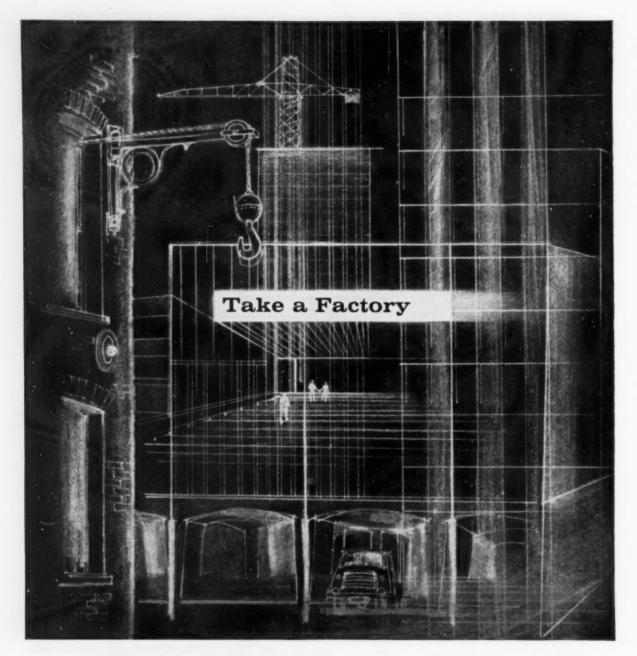
Proctor and Lavender Ltd

As the British agents for both Kosta Glasbruk and Axel H. Agrew AB, the stand will include the materials of these two Swedish firms. The full range of colours, shapes and sizes of Kosta Glasbruk glass mosaics will be shown with Swedish marbles and Quartzite, Norwegian marble, quartz chippings suitable for external precast panels and terrazzo work produced by Axel H. Agrew AB.

1321-1340

The Finnish Foreign Trade Association

The stand will show a wide selection of Finnish products including the Otto wallpapers designed by Ulla Juti-Peltonen, manufactured by Tapetti Oy, the new Sandura wallpapers designed by Heikki Kavjalainen, manufactured by Sanduddin Tehdas Oy and door furniture manufactured by Ovila Oy. Tammers Tapetfabriks Aktiebolag (Finnwallpapers) will also be shown.



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Like any other industrial unit, it needs a range of services, precisely tailored to its own individual needs. laid on and taken for granted. It may be pipework for water, steam, gas, compressed air, chemicals or effluent. It may be heating, cooling and air conditioning for comfort and productivity, or dust and fume removal for the better standards of good factory

housekeeping that are so strongly urged today. Or it may be stringently controlled conditions for specific manufacturing requirements.

Factories and plants of every kind owe some of their inherent efficiency to Haden's 145 years experience. So also do shops, schools, offices, hospitals and public buildings all over the world.



Heating, Air Conditioning **Piping and Sanitary Engineers**

Index

The figure in brackets is the Building Exhibition stand number: it is followed by the number of the section in AJ in which the stand is described. Not all firms' names appear on the stands and not all stands are described in the text

Abbey Tile Co Ltd London Scottish Works, London Road, Barking, Essex (1255) 12 A.B. Mould & Construction Co Ltd Vulcan Way, New Addington, Surrey (702) A.B. Plastics Ltd (see Burn Bros Ltd) (957, 958) 9 Abraham Ltd, Robert 43 Bankhall Street, Liverpool, 20 (296) 3 Access Equipment Ltd Maylands Avenue, Hemel Hempstead, Herts A.C.E. Machinery Ltd Porden Road, Brixton, London sw2 (729,754) Acrow (Engineers) Ltd South Wharf, London w2 (721, 722, 734, 735, 748, 749, 832) Adamite Co Ltd, The 94 Petty France, London sw1 (987, 988) 8 Adamsez Ltd 75 Victoria Street, London sw1 (246) 1 African Building Board Corporation Ltd, The Seal House, 107 Upper Thames Street, Londo Ec4. (940) 9 ECS. (1940) Agren AB, Axel H (Proctor & Lavender) Box 2140, Göteborg, 2, Sweden. (1300–1320) Airserew Co & Jiewood Ltd, The Weybridge, Surrey. (867, 868) 10 Aklstrom, A. Osakeyhtiö, Pihlava, Finland (1321–1340) 12 Alcan Industries Ltd (203) 1 Banbury, Oxon. Alcometaller, AB Mosas, Sweden. (1300-1320) 12 Allam & Co Ltd, E. P. 132/135 Sloane Street, London sw1. (760,777) Allied Ironfounders Ltd 28 Brook Street, Loudon w1. (315-317, 326-328) 5 Allied Structural Plastics Ltd Tolpits, Watford, Herts. (1011,1012) 7 Anchor Building Products Ltd Broomhills Road, Leighton Buzzard, Beds. (105) 1 Anderson & Son Ltd, D. Stretford, Manchester. (195) **3** Andrews Air Conditioning Ltd (see Powell Duffryn Heating Ltd) (437,438) **4** Andrews Bros (Bristol) Ltd Carlton Works, Regent Street, Liverpool 3. (840) 10 Anglo-African Timbers Ltd (see Denny, Mott & Dickson Ltd) (944) 9 Antifyre Ltd Shaftesbury Road, Acton, London w3. (835) 10 Applied Acoustics Ltd 76 Wimpole Street, London W1. (969) 9 Arborite Co (UK) Ltd. The Bilton House, 54/58 Uxbridge Road, Ealing, London w5. (1005) 7 Architect and Building News, The Dorset House, Stamford Street, London SE1. (161) 3 Architectural Press Ltd, The 9/13 Queen Anne's Gate, London sw1. (221) 3 Areoy Products
Division of A. Robinson & Co Ltd
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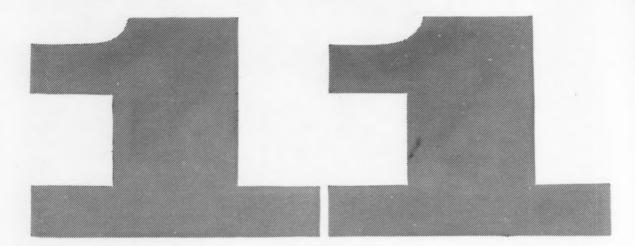
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THE LOGICAL USE OF COLOUR IN BUILDING



The eye-chromatic adaptation

Few subjects cause more confusion than chromatic adaptation in the selection and creation of decorative schemes. The reasons are not far to seek.

Chromatic adaptation here refers especially to those transient changes in colour sensitivity due to stimulation of the cones of the retina which are in turn reflected in colour perception.

During daylight chromatic adaptation of the eye is taking place constantly but is unnoticed unless action is caused by the changes in sensitivity. If you examine a colour card on a desk, lying upon a sheet of cream blotting paper, the chromatic adaptation can transfer a slight blue hue to all other colours. The effect of the basic parameter, yellow-blue, is immediately apparent. Action taken upon choices made under these circumstances can be faulty and if colour matching is involved this can be seriously at fault.

Basically red adaptation depresses red sensitivity and suppresses red in the perceived colour; green adaptation suppresses green sensitivity and suppresses the green sensation; blue adaptation suppresses the blue, and yellow adaptation suppresses the yellow, and all possible combinations follow.

The use of the terms "simultaneous" and "successive" contrasts has further complicated the subject because all contrasts are successive in the sense that the eye receives the reflected energy from coloured objects successively.

The effect of chromatic adaptation is always with us and must be taken into account in critical colour selection.

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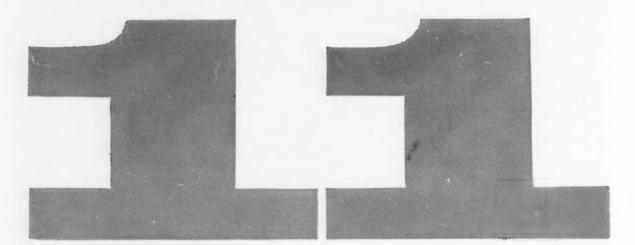
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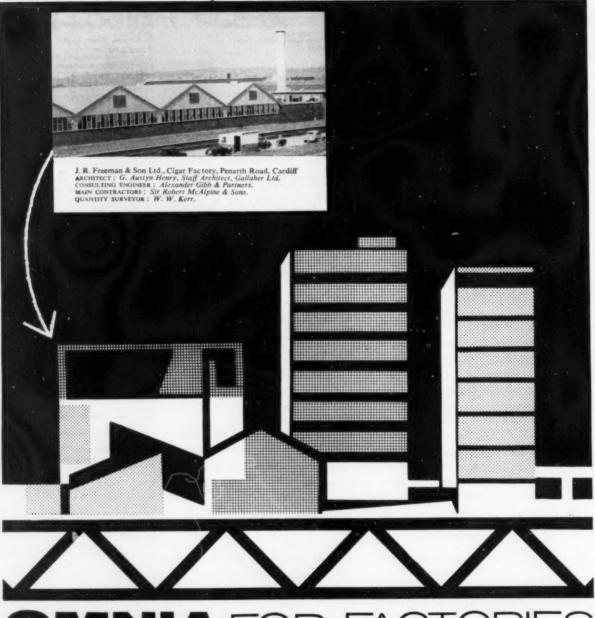
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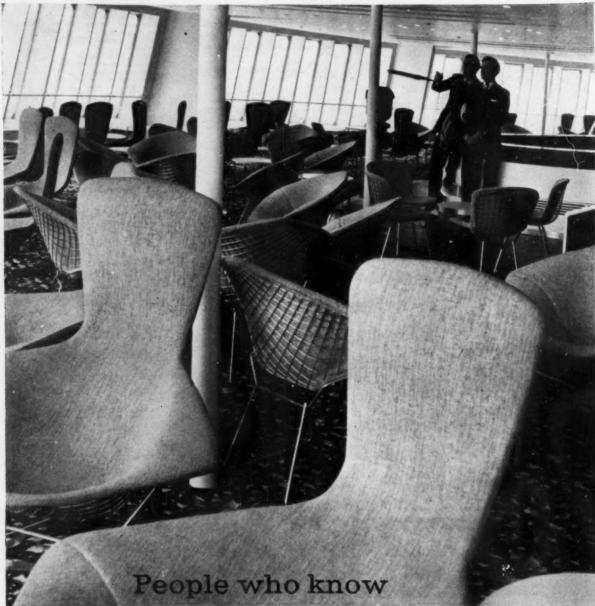
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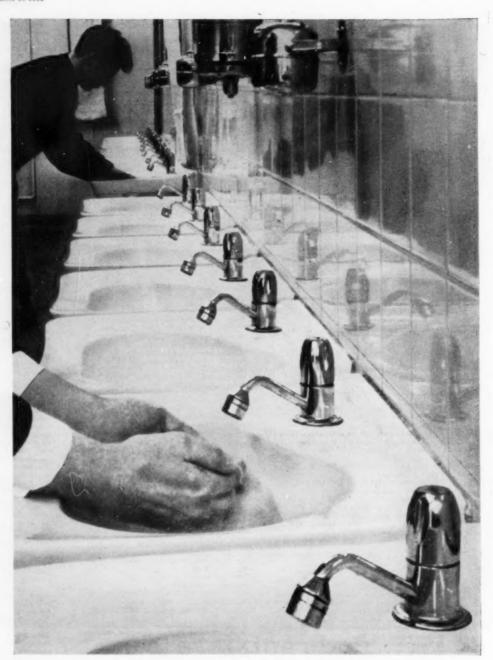
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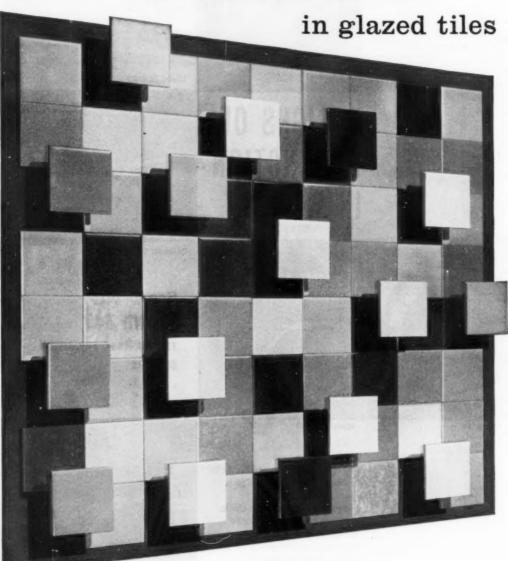
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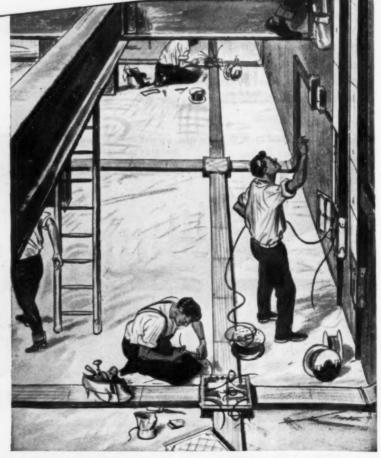
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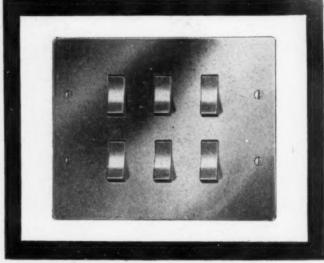
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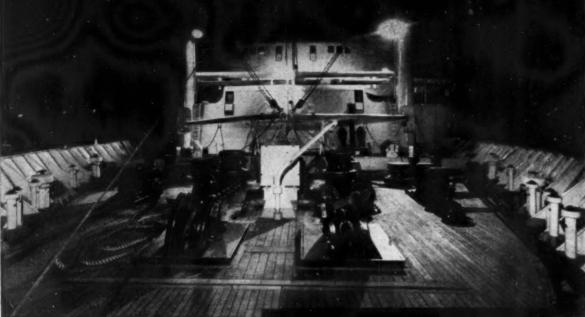


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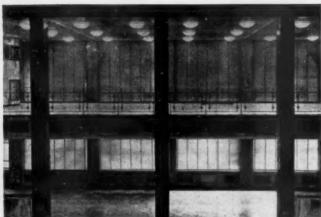


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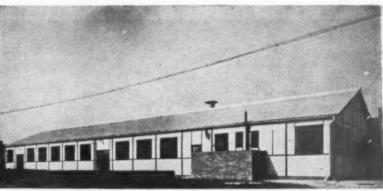
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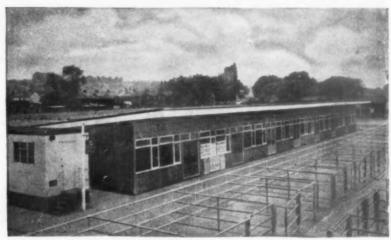


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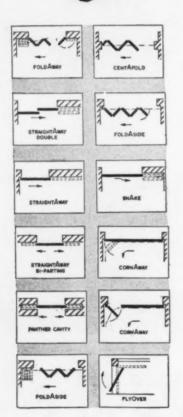
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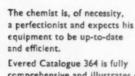
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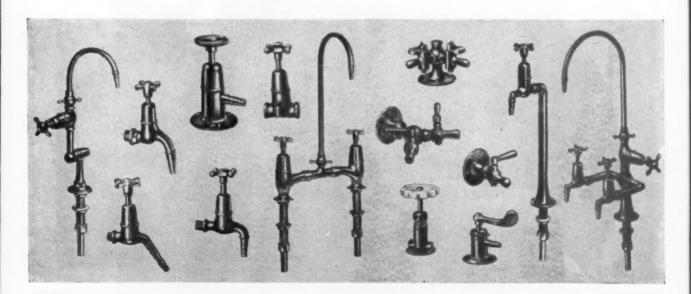
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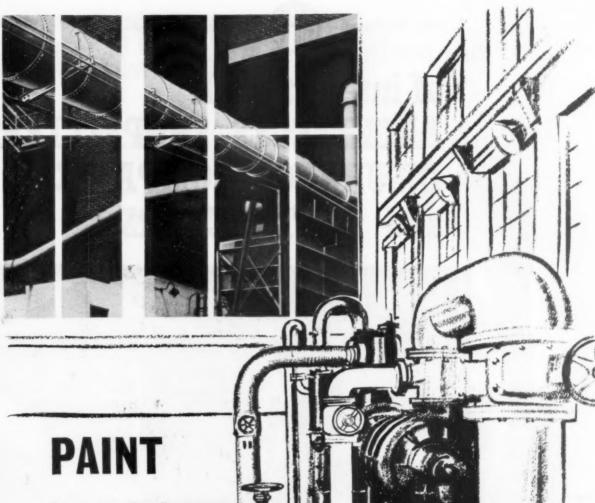
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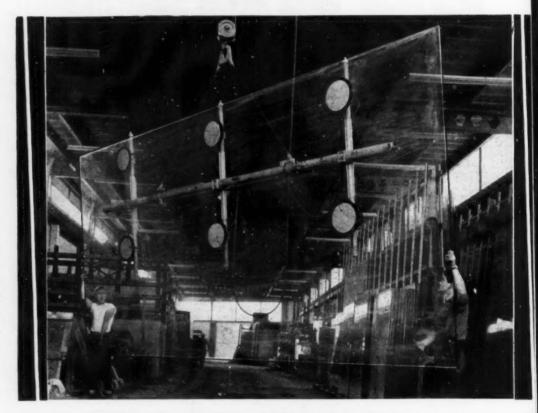


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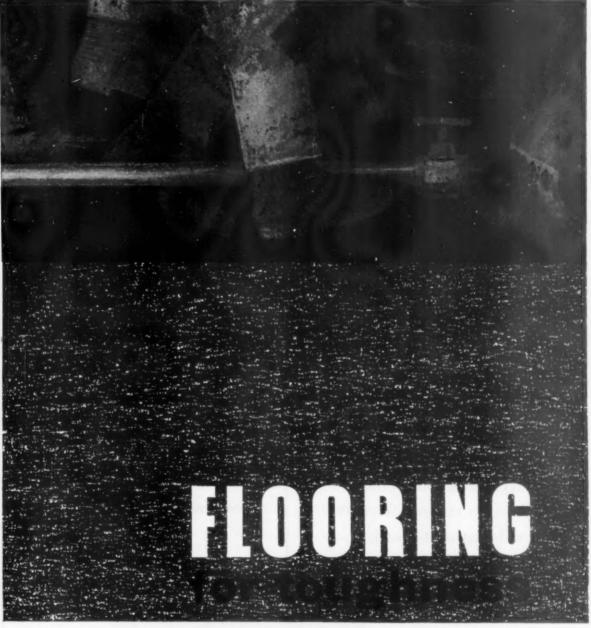


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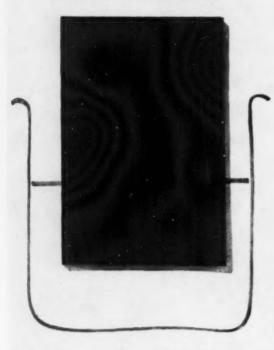
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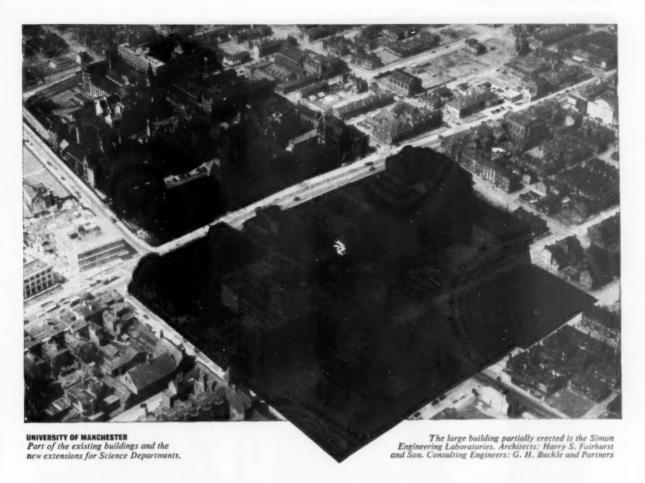
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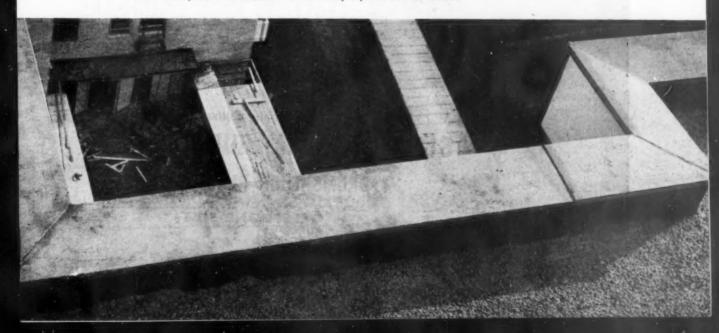
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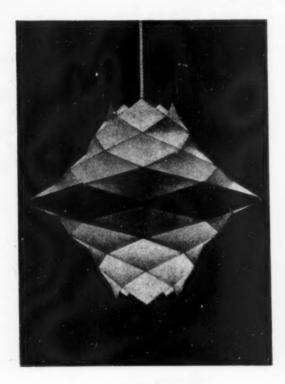
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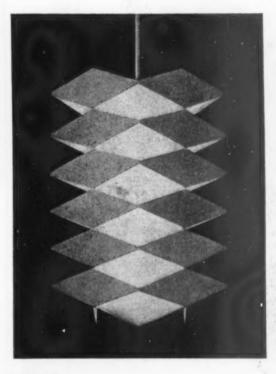
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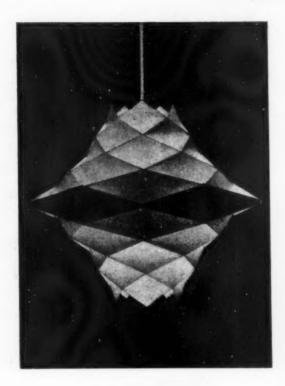
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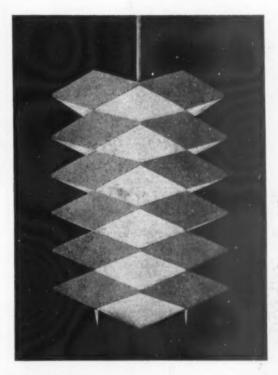
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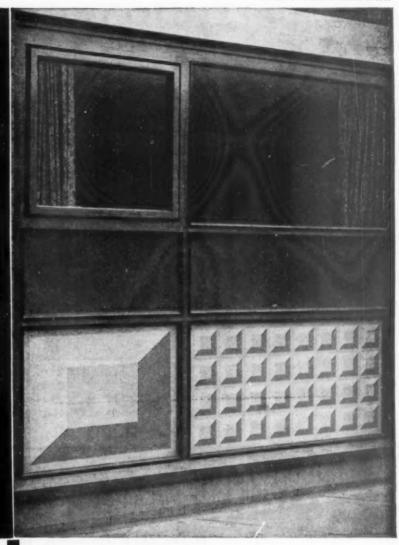


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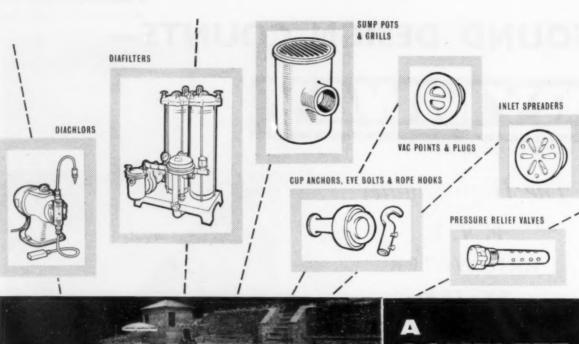




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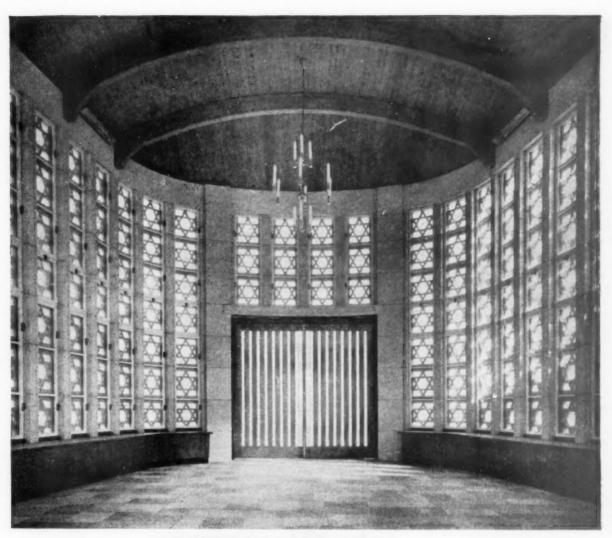
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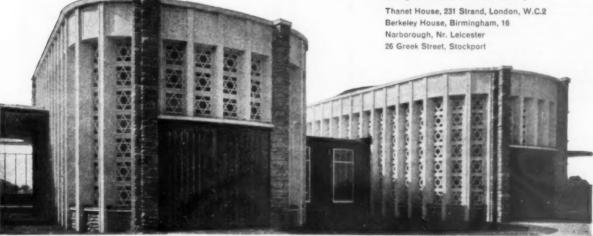
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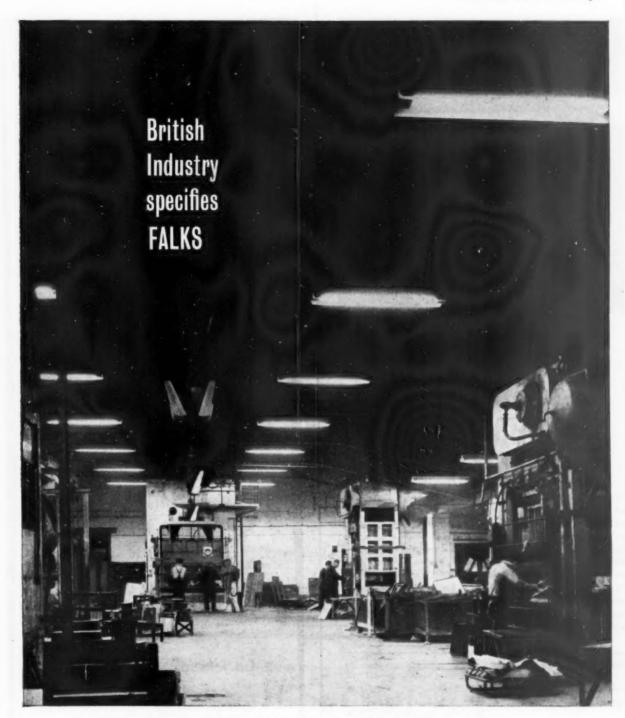
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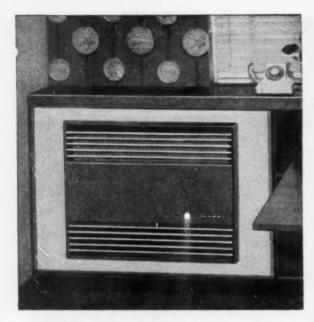
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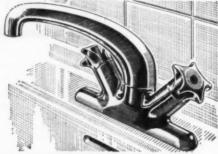
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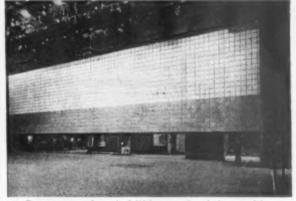
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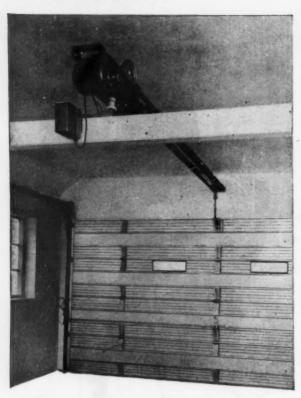
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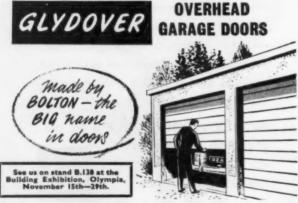
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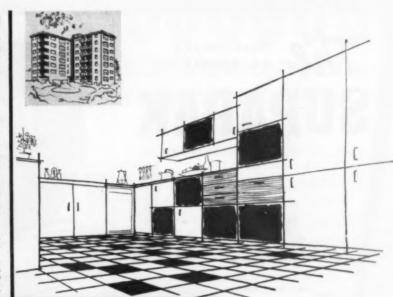
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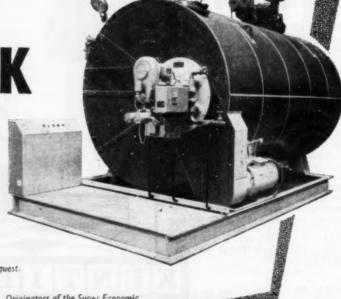
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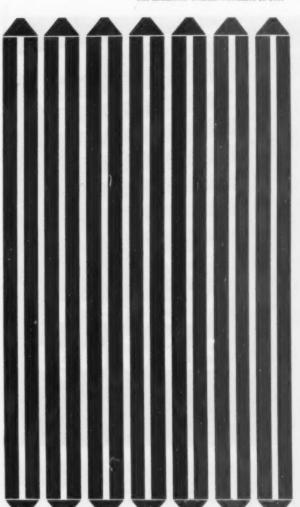
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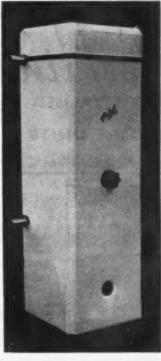
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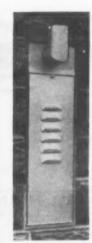
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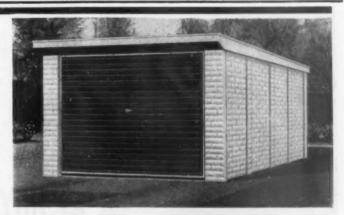
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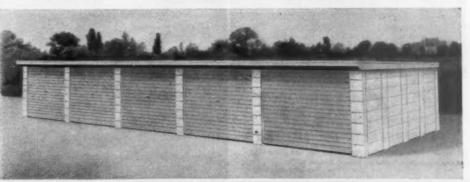
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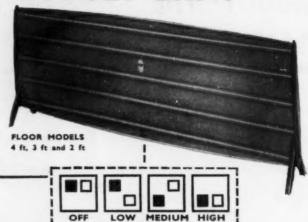


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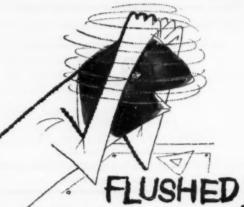
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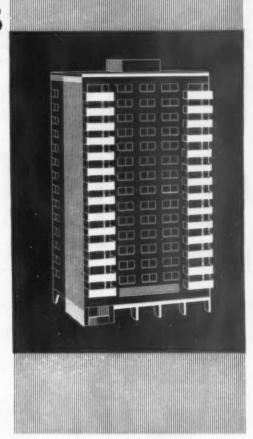
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Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address ahe

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Salary up to £1,560 p.a.

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The salary scale for these assistantships is up to £1,560 per annum with placing according to experience. Preference given to young and enthusiastic qualified men who have the ability but lack a real opportunity to apply it. There will be scope for personal initiative in this office. A five-day week is in operation and the usual conditions concerning Superannuation apply. Advances up to 100 per cent of valuation will be made available, where needed, for the purchase of suitable houses in or near Glasgow by successful applicants.

Please apply on application forms from the Principal Administrative Officer, 20, Trongate, Glasgow, C.1.

A. G. JURY.

City Architect & Director of Planning

CITY OF SHEFFIELD CITY ENGINEER & SURVEYOR'S DEPARTMENT

AREA PLANNING OFFICER, GRADE B

AREA PLANNING OFFICER, GRADE B
Applications are invited from suitably qualified persons for the above appointment on the staff of the City Engineer and Surveyor and Town Planning Officer (Mr. C. R. Warman, B.Sc., M.I.C.E., M.I.Mun.E., M.T.P.I.).
The post is established in Grade B (£1,480—21,670 p.a.).
Candidates should have a Town Planning qualification and an architectural or other suitable additional qualification would be an advantage.
The commencing salary will be in accordance with experience and qualifications.
Contribution will be made towards approved removal expenses.
Superannuable post, N.J.C. Conditions of Service, medical examination.
Applications, stating age, education and training, qualifications, experience, present and past appointments (with dates and salaries) and quoting the names of two referees, should be submitted to the undersigned by the 27th November next.

JOHN HEYS.

JOHN HEYS. Town Clerk.

89958

There are vacancies for ASSISTANT ARCHITECTS in the Architect's Department to assist with the Board's expanding building programme. Salary scale £905 × £35 (1) × £45 (6) × £50 (2)—£1.310.

Salary scale £905 × £35 (1) of the control of the Boyal Listing and have passed the Final Examination of the Royal Institute of British Architects. Experience in hospital design desirable, but not essential. The work offers excellent opportunity for gaining experience in the whole field of hospital architecture and covers all stages from sketch plans to supervision of construction. Please apply to the Secretary. Highcroft. Romsey Road, Winchester, for application form which should be returned by the 30th November. 1961.

TARVIN RURAL DISTRICT COUNCIL
ASSISTANT (ARCHITECT'S DEPARTMENT)
Applications are invited for the appointment of
Assistant in the office of the Council's Architect.
Applicants must have had sound training by
pupilage and had previous experience in design
and construction of building works, particularly

and construction of busing.

and construction of building works, particularly in relation to housing.

The salary will be in accordance with a point within Grade I, A.P.T. rising to A.P.T. II, plus travelling allowance for a IB H.P. Car in accordance with the Whitley Council Scale.

The appointment will be subject to one month's notice in writing on either side.

Applications stating age, qualifications and experience, together with copies of three recent testimonials should be addressed to Mr. Thomas Pritchard, L.R.I.B.A., M.I.Mun.E., and enclosed in an envelope endorsed "Assistant (Architect's Department)" and should reach this office not later than Monday, November 20th, 1961.

(Signed) J. L. VINCENT, Clerk to the Council.

Westminster Buildings, Newgate Street, Chester. 31st October, 1961.

BOROUGH OF SCUNTHORPE
(Population—67,000; Area—7,895 acres;
R.V. £1.562.541)
APPOINTMENT OF
SENIOR ASSISTANT ARCHITECT
Grade A.P.T. IV
Applications are invited for the above appointment in the Borough Surveyor's Department at a salary in accordance with Grade A.P.T. IV
(£1.140—£1.310 p.a.).
Applications and invited for the above appointment in the Borough Surveyor's Department at a salary in accordance with Grade A.P.T. IV
(£1.140—£1.310 p.a.).
Applications will be fixed within the Grade according to qualifications and experience.
Housing accommodation available if required.
Approved removal expenses reimbursed in full. Five day working week.
Applications, stating age, details of present and ass appointments, training, qualifications and experience. together with the names of two persons to whom reference may be made, should be sent to F. J. Bowyer, A.M.I.C.E., M.I.Mun.E., Borough Engineer & Surveyor, Borough Surveyor's Department, Lancham Street, Scunthorpe, on or before Friday, 24th November, 1951.

ASSISTANT ARCHITECT required by HAYES & HARLINGTON U.D.C. Salary within grade APT.IV i.e. £1.140-£1.310 p.as. plus appropriate London "Weighting." Preference given to finalists of the RIBA. Successful candidate must be capable of preparing sketch designs, full working drawings, specifications, sunervision of building contracts, etc. Housing accommodation provided if necessary. Five day week. Further particulars and conditions of service and form of application obtainable from the undersigned, which when completed must be returned by 28 November, 1961.

GEORGE HOOPER.

GEORGE HOOPER.
Clerk and Solicitor.

own Hall. Haves, Middlesex.

Haves, Middlesex.

RITI.AND COUNTY COUNCIL.

APPOINTMENT OF ASSISTANT ARCHITECT
Applications are invited from qualified Architects to work on a varied programme of new buildings. Details of age, qualifications and experience, with names and addresses of two persons to whom reference may be made, to be sent to the County Architect and Planning Officer. T. Brian Kennedy, A.R.I.B.A., M.T.P.I., County Offices, Oakham, not later than 13th November, 1961.

A. BOND,

Clerk of the County Council.

81023

SURREY COUNTY COUNCIL

Applications invited for appointment of ASSISTANT ARCHITECT. Grade IV (£1.140-£1.310 p.a. plus £45 p.a. London Allowance). Must be A.R.I.B.A. and have had experience in preparation of drawings and specifications and be capable of assuming responsibility for medium to large scale contracts.

Some housing accommodation available.

Applications stating age, qualifications, education and experience, present salary and three copy testimonials, preferably one from present employer, to County Architect, County Hall, Kingston, as soon as possible, marked (H) in top lefthand corner.

BOROLIGH OF RICHMOND (SHERRY)
APPOINTMENT OF SPNIOR ASSISTANT
APPOINTMENT OF SPNIOR ASSISTANT
APPOINTMENT OF SPNIOR ASSISTANT
APPOINTMENT OF SENIOR ASSISTANT
ACHITECT
ARCHITECT at a salary in accordance with
Grade A-P.T. IV (£1,140-£1,310) plus London
Weighting.
Applications should be delivered to the Borough
Engineer and Surveyor. King's Road. Richmond.
Surrey, not later than 27th November. 1961, giving
the names of three referees and stating relationship. If any, to Members of the Council or Senior
Officers.

shin, if any, to memorie of the commence of th

Town Hall. Richmond, Surrey.

METROPOLITAN BOROUGH OF GREENWICH APPOINTMENT OF PRINCIPAL ARCHITECTURAL ASSISTANT

PRINCIPAL ARCHITECTURAL ASSISTANT Applications are invited for the appointment of a PRINCIPAL ARCHITECTURAL ASSISTANT in the Borough Engineer and Surveyor's Department, Salary grade A.P.T. v (£1,355-£1,525 per annum, including London weighting). Commencing salary in accordance with qualifications and experience. Car allowance available and assistance with housing and removal expenses.

Candidates should be Registered Architects, preferably Associates of the R.I.B.A., with experience in housing and other municipal

Application forms obtainable from the Borough Engineer and Surveyor are to be returned to him by noon on Thursday, 23rd November, 1961.

G. C. TURK. Town Clerk.

Town Hall, Greenwich, S.E.10. November, 1961.

91048

1070

BOROUGH OF TAUNTON

ARCHITECT'S DEPARTMENT
Applications are invited for the following appointments in the Borough Architect's Depart-

Ment.

ASSISTANT ARCHITECTS, Grade A.P.T. III/IV

(£960-£1,140-£1,310 p.a.).

The Council have an interesting programme of estate development and re-development schemes including flatted accommodation, groups of shops, old persons accommodation, market offices and other ancillary buildings.

other ancillary buildings.

The posts are superannuable, subject to medical examination and to National Conditions of Service. Salary placing according to qualifications and experience. 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, within 14 days of the appearance of this advertisement.

Housing accommodation will be made available a suitable applicants if required.

K. A. HORNE, Town Clerk.

81052

COUNTY BOROUGH OF WIGAN BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT

Applications are invited for the appointment of PRINCIPAL ARCHITECTURAL ASSISTANT, on the established staff of the Borough Engineer and Surveyor, at a salary in accordance with Grade A.P.T. IV/V (£1,140-£1,480).

There is an interesting and varied programme work in the Department.

Housing accommodation can be offered if

The point of entry to the salary Grade will be determined by qualifications and experience.

Applications, giving name, address, age, present appointment and salary, previous appointments, and also the names of two persons to whom reference may be made, should be sent to the Borough Engineer and Surveyor, Municipal Buildings, Wigan, to be received by him not later than 20th November, 1961.

ALLAN ROYLE, Town Clerk,

Municipal Buildings, Wigan.

BLETCHLEY URBAN DISTRICT COUNCIL APPOINTMENT OF ARCHITECTURAL ASSISTANT

APPOINTMENT OF ARCHITECTURAL ASSISTANT

The Council is engaged in the second stage of Town Development which will require the provision of some 1,200 dwellings of all kinds, Shops, Factories and Offices, as well as other associated buildings over the next four or five years.

Applications are invited for an ARCHITECTIRAL ASSISTANT in connection with this work, at a salary within Grade III of the A.P.T. Division of the National Scale of Salaries, and subject to one month's notice on either side and the Southern Provincial Council Scheme of Conditions of Service.

Applicants should have had a sound training in architectural work and have reached the Intermediate R.I.B.A. Standard.

Housing accommodation will be provided, and if the successful candidate uses his own car in connection with his duties, an allowance will be made on the Casual Users Scale, for a car not exceeding 1014 c.c.

Applications stating details of age, qualifications, experience, present and past appointments, with the names and addresses of two persons to whom reference ray be made, should be delivered to the undersigned by noon on Monday, 20th November, 1961.

J. P. SMITHIE, O.B.E., M.I.Mun.E., Engineer and Surveyor.

Council Offices, Bletchley, 3rd November, 1961.

B1042

LANCASHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT
Applications are invited for the following
appointments on the permanent staff. The
Quantity Surveying Branch of the Department
undertakes work in all stages, from Cost Planning to Final Accounts, and the programme is
both interesting and varied.
(a) ASSISTANT QUANTITY SURVEYOR—
A.P.T. IV (£1,140-£1,510 p.a.). Applicants
should be Chartered Quantity Surveyors
and the person appointed will be a senior
member of a team of surveyors.
(b) QUANTITY SURVEYING ASSISTANT—
A.P.T. II (£1515-£950 p.a.). Applicants
should have passed the Intermediate
Examination of the R.I.C.S.
(c) QUANTITY SURVEYING ASSISTANT—
A.P.T. I (£646-£815 p.a.). Applicants should
have passed the First Examination of the
R.I.C.S.
Application forms are obtainable from and
returnable to the County Architect, P.O. Box 26,
County Hall, Preston, by the 18th December.
1961.

COUNTY BOROUGH OF DEWSBURY

1961.

COUNTY BOROUGH OF DEWSBURY
DEPARTMENT OF BOROUGH ARCHITECT
AND PLANNING OFFICER
Applications are invited for the following appointments within the scope of the grades stated:

(a) TOWN PLANNING ASSISTANT—A.P.T.
Grade IV.V. (£1,140—£1,480 p.a.).

(b) TOWN PLANNING ASSISTANT—A.P.T.
Grade IV.V. (£1,140—£1,480 p.a.).

Successful applicants for posts in (a) and (b) will be members of a group working on a Review of the Development Plan and on Central Area Redevelopment.

(c) ASSISTANT QUANTITY SURVEYOR—A.P.T. Grade IV (£1,140—£1,310 p.a.).

(d) JUNIOR QUANTITY SURVEYING ASSISTANT—General Division (£260—£530 p.a.).

p.a.).

(e) ARCHITECTURAL ASSISTANT — A.P.T. Grāde I (£645—£815 p.a.).

(f) JUNIOR ARCHITECTURAL ASSISTANT/DRAUGHTSMAN—General Division (£260—

DEA COLL. 6530 p.a.).
9 provision of housing accommodation will onsidered if required for appointments (a), be considered if
(b), (c) and (e),
Applications

(0), (c) and (e), Applications for forms and particulars of appointments to A. G. Beckett, A.B.I.B.A., A.M.T.P.I., Borough Architect and Planning Officer, Town Hall, Dewsbury, Closing date 27th November, 1961. A. NORMAN JAMES, Town Clerk.

Town Hall. Dewsbury. 6th November, 1961.

Dewsbury.
6th November. 1961.

WARWICKSHIRE COUNTY COUNCIL
ARCHITECT'S DEPARTMENT
ASSISTANT ARCHITECT'S, Grade A.P.T. IV
(£1,140-£1,310).
Applications are invited from qualified architects. The persons appointed will work in groups on large projects and an opportunity will be given to men with enthusiasm and ability to design and carry out projects under a group architect.
ARCHITECTURAL ASSISTANTS, Grade A.P.T.
II (£155-£960).
Vacancies exist for assistants who are up to Intermediate R.I.B.A. standard and who require experience in a variety of interesting projects.
The commencing salary can be within the grade according to ability. Five-day week worked. The Council have schemes for the payment of removal expenses and a lodging allowance to married officers. Application forms and full conditions applicable to the appointments can be obtained from Eric Davies, F.R.I.B.A., A.M.T.P.I., County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS.
Clerk of the Council.

COVENTRY CITY
Senior Group Housing Architect
41,560 to 41,825-8cale "C"
Applications invited for DEFUTY TO PRINCIPAL HOUSING ARCHITECT.
Design ability, enthusiasm and drive required
to implement urban renewal and neighbourhood
projects on imaginative basis. New ideas
encouraged.
Commencing salary according experience. Application forms returnable by 27th November, 1961,
to Council House.

ARTHUR LING.

ARTHUR LING. City Architect. S1051

Applications invited for the following perma-nent appointments in the office of the City Architect.

nent appointments in the office of the City Architect.

(a) SENIOR ASSISTANT ARCHITECTS—J.N.C. Scale "B," £1,420/£1,670.

(b) SENIOR ASSISTANT ARCHITECTS—J.N.C. Scale "A," £1,375/£1,565.

(c) ASSISTANT ARCHITECTS—A.P.T. Grade V, £1,310/£1,480.

(d) ASSISTANT ARCHITECTS—A.P.T. Grade III. 11V, £960/£1,310.

(e) ARCHITECTURAL ASSISTANTS—A.P.T. Grade I.II. £45/£960.

(f) ASSISTANT STRUCTURAL ENGINEER—A.P.T. Grade III. £45/£960.

(d) ASSISTANT ELECTRICAL ENGINEER—A.P.T. Grade III. 11V, £960/£1,310.

(d) ASSISTANT HEATING AND VENTILA—TING ENGINEER—A.P.T. Grade IV, £1,440/£1,310.

(i) SENIOR ASSISTANT QUANTITY SURVEYORS—J.N.C. Scale "B," £1,375/£1,565.

(k) ASSISTANT QUANTITY SURVEYORS—J.N.C. Scale "A," £1,375/£1,565.

(k) ASSISTANT QUANTITY SURVEYORS—AND MEASURING ASSISTANT SURVEYORS—AND MEASURING ASSISTANTS—A.P.T. V. £1,310/£1,480; A.P.T. III/IV, £960/£1,310; and A.P.T. III. £960/£1,140.

Commencing salary for each appointment according to qualifications and experience.

and A.P.T. III. £960/£1,140.

Commencing salary for each appointment according to qualifications and experience.

Five-day week. Removal expenses allowed up to £50. Housing accommodation for a limited period may be provided; position (e) excepted. The department has an extensive programme of municipal building work ahead, comprising a new abattor, libraries, schools, technical colleges, aged persons' homes, etc. Interesting and varied work with excellent opportunities for promotion on merit.

Forms of application from the City Architect, Town Hall, Manchester, 2, returnable by the 24th November, 1961.

ISLE OF ELY COUNTY COUNCIL
COUNTY ARCHITECTS DEPARTMENT
Applications are invited for the following
appointments:
CHIEF ASSISTANT ARCHITECT—Grade A/B
(£1,315—£1,670) with essential user car
allowance, Applicants must be A.R.I.B.A.
ASSISTANT ARCHITECTS—A.P.T. III or
A.P.T. IV according to experience, Applicants should be A.R.I.B.A. or have completed Parts I and II of the R.I.B.A. Final
Examination, or have satisfactorily completed a course at a School of Architecture.
In fixing commencing salaries for the above
posts, ability and experience will be taken into
account. All posts are subject to N.J.C. Conditions and the passing of a medical examination.
Application forms and further particulars may
be obtained from the County Architect, County
Hall, March, Cambs., to whom they should be
returned by not later than 30th November, 1961.

R. F. G. THURLOW.

Clerk of the County Council.
County Hall,
March.
S1099

CUMBERLAND COUNTY COUNCIL
There are vacancies on the staff of the County
Architect's Department for ASSISTANT ARCHITECTS on A.P.T. Grades III, IV and V.
Applicants must be suitably qualified.
Further particulars and forms of application
may be obtained from the County Architect, IB,
Portland Square, Carlisle.

G. N. C. SWIFT,
Clerk of the County Council.
1101

BOROUGH OF COLCHESTER
BOROUGH ARCHITECT'S DEPARIMENT
Applications are invited for the appointment of
ASSISTANT ARCHITECT on Grade A.P.T. V,
£1,310-£1,480 per annum.
Candidates must be qualified Architects and
the appointment is mainly in connection with
a major extension of the Municipal Offices.
The successful candidate will be required to
pass a medical examination. Five-day week in
operation. The Council will be prepared to assist
in the provision of housing accommodation, if
required, and to contribute towards removal
expenses.

expenses.

Applications, stating age, qualifications, experience, together with the names of two referees, should be submitted to the Borough Architect, Vinton Hall, A.R.I.B.A., A.M.T.P.I., 64, West Stockwell Street, Colchester, by Tuesday, 5th December, 1961.

CATCHIOLE

N. CATCHPOLE, Town Clerk.

Town Hall, Colchester. November, 1961.

BOROUGH OF RUGBY
ASSISTANT ARCHITECT
Applications are invited for the above appointment in the Borough Engineer and Surveyor's Department, which has an interesting and varied programme of work. Salary A.P.T. Grade V (£1,310—£1,480). Housing accommodation will be provided if required, and a car allowance on the "essential user." scale will be paid.
Further particulars and form of application may be obtained from the Borough Engineer and Surveyor, Town Hall, Rugby, to whom completed applications must be sent not later than 21st November, 1961.

T. L. DUFFY,

T. L. DUFFY, Town Clerk

CORPORATION OF DUNDEE
CITY ARCHITECT'S DEPARTMENT
Applications are invited for the undernoted architectural posts in the City Architect's Department:
SENIOR ASSISTANTS (G)—Salary Scale

architectural posts in the City Architect's Department:—
SENIOR ASSISTANTS (G)—Salary Scale £1,385—£1,620.

ASSISTANT ARCHITECTS (F)—Salary Scale £1,320—£1,485.

ASSISTANT ARCHITECTS (E)—Salary Scale £1,220—£1,375.

The Department has an extensive programme of work including large Housing Estates, the Re-development of Central Areas, including multi-storey and other types of housing, the designing of Primary and Secondary Schools, and various other types of buildings erected by a Local Authority, providing a good opportunity for architects with creative ability.

Applicants should be Associate Members of the Royal Institute of British Architects and placings in the grades will be according to experience.

placings in the grades will be according to ex-perience.

Applicants should be under 45 years of age and may be required to pass a medical examination.

A five-day week is in operation.

Applications, stating age, qualifications, train-ing and experience, naming two referees, also the applicant's housing needs, should be lodged with the Subscriber not later than 28th November, 1961.

ompri-Strip

THOS. W. WARD LTD ALBION WORKS · SHEFFIELD Tel: 26311

SEALING

WORTLEY RURAL DISTRICT COUNCIL

ASSISTANT ARCHITECT OR

ARCHITECTURAL DRAUGHTSMAN
Applications are invited for the above appointment in the Department of the Engineer and Surveyor.

Salary payable in accordance with A.P.T. II of the National Scales of Salary (2815-2960 per annum) according to experience.

Persons will be expected to work on their own intiative and carry out design and detailing of small and medium sized works with scope for own ideas.

Applications on form to be obtained from the undersigned to be returned not later than Monday, 27th November, 1961.

Housing accommodation offered if required.

ADRIAN M. KELLY.

Clerk of the Council.

Council Offices. Grenoside. Sheffield

BOROUGH OF ASHTON-UNDER-LYNE APPOINTMENT OF (a) QUANTITY SURVEYOR, Grade A.P.T. IV (21,146-21,310 per annum).

(b) ASSISTANT ARCHITECT, Grade A.P.T. III (£950-£1,140 per annum).
Applications are invited for the above appointments in the office of the Borough Engineer and

for. provision of housing accommodation uccessful candidates will be considered

necessary
Particulars of either appointment and Applica-tion Forms may be obtained from the Borough Engineer and Surveyor, Municipal Offices, Ashton-under-Lyne, and should be returned to me by 24th November, 1961.

G. A. MALONE,

Town Hall, Ashton-under-Lyne 7th November, 1961.

STAFFORDSHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT
Applications are invited from suitably qualified
candidates for the following post:—
ASSISTANT QUANTITY SURVEYOR—Grade
A.P.T. IV. £1,140—£1,310 per annum.
The Architect's Department is a busy and
expanding office, dealing with a wide variety of
projects including Fire Stations, Colle.es,
Schools, Police Stations, Offices, Ambulance
Stations, Clinics, Libraries, etc.
Good working conditions, five-day week, assistance with removal expenses and housing accommodation will be made available.
The appointment will be subject to:—
(a) The National Scheme of Conditions of
Service.
(b) The Local Government Superannuation
Acts and the passing of a medical examination,
Forms of application, which must be returned
by the 27th November, 1961, may be obtained
from the County Architect, Green Hall, Lichfield Road, Stafford.

T. H. EVANS.

d. T. H. EVANS. Clerk of the County Council. 1069

BASINGSTOKE DEVELOPMENT GROUP

BASINGSTOKE DEVELOPMENT GROUP
This Group has recently been set up to design and implement a project for the expansion of Basingstoke from its present population of 25,000 to 75,000 by 1975. The Group is responsible to a Joint Committee representing the Borough of Basingstoke, Hampshire County Council and London County Council. The work encompasses all aspects of town building, including the comprehensive redevelopment of the Central Area within the framework of a total concept for the town and its environs. Strict time schedules will be adhered to.

Basingstoke is a lively town, 47 miles W.S.W. of London, 13 miles N. of Winchester, 35 miles from the New Forest and the coast.

Applications for the following posts are invited from candidates who should hold architectural and/or planning qualifications, and each will be judged on design ability, experience and general architectural outlook. Gradings and commencing salaries to be within the ranges indicated, according to qualifications and experience. Those who are successful will be appointed to the staff of the Hampshire County Council and will work under the direction of the Chief Architect/Planning Officer for Basingstoke, Allam G. McCulloch, A.R.I.B.A. A.M.T.F.

1. A.S.S.I.S.T.A.N.T. A.CHITECT/PLANNING OFFICERS are required for general development and Central Area work—Scale A.C. (el.4490—el.256).

2. JUNIOR ASSISTANT ARCHITECTS AND DRAUGHTSMENNA-P.T. Grades I-IV (6645—el.310) are required for a wide range of work.

The posts are pensionable. Separation allowances and assistance with removal expenses will be baid in anoroved cases.

Applications, stating full details of age, education, qualifications and experience, including present grade and salary, and the names of two referees, should reach the Clerk of the County Council. The Castle, Winchester, by 28th November.

QUANTITY SURVEYING ASSISTANT required by the National Coal Board in their Divisional Production Department at Llanishen, Cardiff. The successful applicant will assist the Quantity Surveyor in the preparation of Bills of Quantity: interim valuations; and final accounts on building contracts. Applicants should preferably have passed the Intermediate examination of the R.I.C.S. but applications will also be considered from persons with outstanding practical ex-perience.

perience.
Salary range £825—£1,275 per annum.
Applications (quoting 584/39) should reach the
Divisional Chief Staff Officer, National Coal Board,
Ty Glas Avenue, Llanisheu, Cardiff, by 24th
November, 1961.

EDINBURGH CORPORATION
DEPARTMENT OF THE CITY ARCHITECT
ASSISTANT ARCHITECTS qualified by
examination. Salary: Professional Assistants
Scale £850-£1,320 per annum, with placing
according to experience.
ARCHITECTURAL ASSISTANTS, unqualified,
with some experience. Salary Scale: Executive
Division Grade 1-IV. £640-£925, with placing for
suitable applicants.
Applications, giving age, full details of qualifications and experience and the names of two
referees as to character, to the City Architect,
City Chambers, Edinburgh, 1, marked "Staft—
Confidential."

HAMPSHIRE COUNTY COUNCIL
ARCHITECTURAL ASSISTANTS, A.P.T. I/II
(£645—£960) required for pensionable posts in
County Architect's Department. Candidates should
be studying for, or have passed the Intermediate
Examination of the R.I.B.A. and have had several
years' experience in an Architect's Office. The
commencing salary will be determined by experience and degree of qualification. One of the
posts to be filled is in the section engaged on
development work in connection with a newly
formed Consortium for school building. Assistance
with removal and other expenses in approved
cases. Five-day week. Canteen facilities.
Application forms (send s.a.e.) returnable by
30th November from the Clerk of the County
Council, The Castle, Winchester.

Council, The Castle, Winchester.

L.C.C. BRIXTON SCHOOL OF BUILDING Ferndale Road, S.W.4.

Required January, 1962, ASSISTANT GRADE B in the DEPARTMENT OF ARCHITECTURE AND SURVEYING with specialist interest in TOWN PLANNING. Candidates should be members of T.P.I. and preferably R.I.B.A. In addition to work for R.I.C.S. students the school is developing a course to Intermediate T.P.I., and the Assistant will be required for lecture and studio work. Good professional experience needed; teaching experience a recommendation.

Salary £815-£1,410 (subject to ratification), point of entry and maximum dependent on training, qualifications and experience.

Forms (foolscap s.a.e.) from Secretary, quoting (FE.3a/A/3894/11). Closing date: 24th November, 1951.

BOROUGH OF WILLESDEN
Applications are invited for the following permanent appointments:—
(a) ARCHITECTURAL ASSISTANT, Grade
A.P.T. V (£1.310—£1.480 p.a.).
(b) ARCHITECTURAL ASSISTANT, Grade
A.P.T. II (£315—£956 p.a.).
London weighting is payable in addition to the above.

Candidates for post (a) must be Associates of the R.I.B.A. and for post (b) should have passed the Intermediate Examination of the R.I.B.A. The Council are prepared to make a mortgage advance for house purchase and to contribute towards the cost of removal expenses up to a maximum of £25.

Forms of application and conditions of appointment may be obtained from the Borough Engineer, Town Hall, Dyne Road, Kilburn, N.W.6, and must be returned by not later than 10 a.m. on Monday, 4th December, 1961.

R. S. FORSTER.

R. S. FORSTER. Town Clerk. 1125

CORBY NEW TOWN

SENIOR ASSISTANT ARCHITECT

Applications are invited for an appointment of Senior Assistant Architect, the salary to be within A.P.T. Grade VII (21,415 to £1,570 per annum). The commencing point within this Grade will denend upon experience and qualifications.

The appointment is one of two principal assistants in the Benartment of the Chief Architect for which administrative, as well as architectural, ability is required. The appointment offers exceptional experience in a rapidly developing new town, with plenty of work on very interesting projects for some years ahead.

Housing is available and removal expenses will be paid. There is a Superannuation Scheme, either under the Local Government Superannuation Actor under the New Towns Pension Fund. Applications stating age, present appointment and salary, details of qualifications and experience, with the names of two referees are required by Monday. 27th November, 1961, addressed to R. F. Brooks Grundy, General Manager, Corby Development Corporation, Spencer House, Corby, Northants.

COUNTY BOROUGH OF SMETHWICK BOROUGH ENGINEER & SURVEYOR'S DEPARTMENT APPOINTMENT OF SENIOR ASSISTANT ARCHITECT

Applications are invited for the above appointment—salary A.P.T. IV-V (£1,140—£1,480 per annum). The commencing salary will be according to the qualifications and experience of the successful applicant.

The post is subject to the provisions of the National Scheme of Conditions of Service: the Local Government Superannuation Acts 1937-53; the passing of a medical examination and to termination by one month's notice on either side. Form of application may be obtained from the Borough Engineer and Sarveyor, Council House, Smethwick, and should be returned, in envelope suitably endorsed, to reach him not later than 30th November, 1961.

E. L. TWYCROSS, Town Clerk

Council House. Smethwick.

CITY OF LEEDS CITY ARCHITECT'S DEPARTMENT

CITY ARCHITECT'S DEPARTMENT
There is considerable scope within the department for imaginative and progressive Architects
willing to accept the challenge of designing
major redevelopment schemes embracing multistorey flats, shopping precincts, major education
projects, Fruit and Vegetable Market, Abattoir,
Fire Stations and other public buildings all
forming part of a most ambitious programme of
capital works, and applications are invited for
the following permanent appointments.

No.

SENIOR ASSISTANT

SENIOR ASSISTANT ARCHITECT—Grade A.P.T. V. Salary Scale: £1,510—£1,480.

ASSISTANT ARCHITECT-Grade A.P.T. III. Salary Scale: £960-£1,140.

ARCHITECTURAL ASSISTANTS — Grade A.P.T. II. Salary Scale: £815—£960.

ARCHITECTURAL ASSISTANTS — Grade A.P.T. 1. Salary Scale: £645—£815.

Candidates should be suitably qualified.
The appointments are superannuable—medical examination.
Five-day week. Assistance will be given in providing housing accommodation in approved cases, if required.
Application forms obtainable from the undersigned are to be returned by 7th December, 1961.
Canvassing disqualifies.
J. R. SHERIDAN-SHEDDEN.
City Architect.

Priestley House, Quarry Hill, Leeds, 9. 3rd November, 1961.

CITY OF LEEDS CITY ARCHITECT'S DEPARTMENT QUANTITY SURVEYORS

Applications are invited from persons holding the appropriate professional qualifications for the following permanent posts in the QUANTITY SURVEYING SECTION.

The Department is engaged on a wide and varied programme, including Multi-storey Flats. Hostels, Fire Stations, Schools and other public buildings; and the preparation of Bills of Quantities and other work in connection with these schemes will be handled by the Quantity nese schemes wil

5. SENIOR ASSISTANT QUANTITY SUB-VEYOR-Grade A.P.T. V. Salary Scale: -£1.480

SENIOR ASSISTANT QUANTITY SUI VEYOR—Grade A.P.T. IV. Salary Scale £1,140—£1,310.

7. SENIOR ASSISTANT QUANTITY SUR VEYOR—Grade A.P.T. III. Salary Scale

ASSISTANT QUANTITY SURVEYOR-Grade A.P.T. II. Salary Scale: £815-£960.

ASSISTANT QUANTITY SURVEYOR-Grade A.P.T. I. Salary Scale: £645-£815.

10. JUNIOR ASSISTANT QUANTITY SUR-VEYOR-Grade G.D. Salary Scale: £260— £630, (Salary according to age and/or qualifications.) £630. (Salary qualifications.)

The appointments are superannuable medical camination.

rhe animation.

Five-day week. Assistance will be given in providing housing accommodation in approved cases, if required.

Application forms obtainable from the undersigned are to be returned by 7th December, 1961.

Canvassing disqualifies.

R. SHERIDAN-SHEDDEN.

J. R. SHERIDAN-SHEDDEN

Priestley House.
Quarry Hill.
Leeds, 9.
3rd November, 1961.

CITY OF CARDIFF
CITY ARCHITECT'S DEPARTMENT
plications are invited for the following

CITY ARCHITECTS

Applications are invited for the following appointments:—

(a) SENIOR ASSISTANT QUANTITY SURVEYOR. A.P.T. Grade IV, £1,140—£1,310.

(b) ASSISTANT ARCHITECT. A.P.T. Grade III/IV, £960—£1,310.

General Conditions of Appointment may be obtained from the undersigned.

Applications, stating age, qualifications, appointments, details of experience and the names of two persons to whom reference can be made, should be delivered to me in appopriately endorsed envelopes and must be received not later than the 27th November, 1961.

S. TAPPER-JONES.

City Hall, Cardiff, November, 1961

ARCHITECTS AND MAINTENANCE SUR-VEYORS. Pensionable posts for men and women at least 25 and under 35 on 1.1.61 (extension for regular Forces service, Overseas Civil Service, established civil service and temporary Government service as Architect or Maintenance Surveyor). Candidates must be registered Architects or, atternatively, for Maintenance Surveyor posts, have achieved Corporate Membership of B.I.C.S. (Building Section), or have passed examinations necessary for attaining Corporate Membership. National salary £356—21,258 according to age, rising to £1.430. Frome-tion prospects. Write Civil Service Commission, 17, North Audley Street, London, W.I., for application form quoting \$160-61.

CITY OF ROCHESTER
ARCHITECTURAL ASSISTANT
GRADE A.F.I. 111/IV (£960-£1,510)
Applications are invited for the above permanent appointment in the City Surveyor's Department,
Candidates must have passed Parts I and II of the R.I.B.A. Final Examination, or their equivalent, and have a good general experience. The commencing salary will be according to qualifications and experience.
Housting accommodation available if required. Approved removal expenses paid after one year in appointment. Five-day week.
Applications, with details of age, qualifications, education and experience, including past and present appointments, together with the names of two referees, snould be delivered to James A. Peel, Esq., A.M.I.C.E., M.I.Mun.E., City Surveyor, 66, Maidstone Road, Rochester, not later than Wednesday, 6th December, 1961.

PHILIP H. BARTLETT,
PHILIP H. BARTLETT,

Guildhall, Rochester. 3rd November, 1961.

BOROUGH OF ILFORD

BOROUGH ENGINEER'S DEPARTMENT
Appointment of:—

(a) SENIOR ASSISTANT ARCHITECT, Grade
A.P.T. IV (Salary £1.85—£1.355 p.a. inclusive).

(b) ASSISTANT ARCHITECT, Grade A.P.T. III (III (Salary £2.65—£1.185 p.a. inclusive).
Candidates for appointment (a) should preferably be Associate Members of the R.I.B.A. and have suitable experience in the development of council housing, multi-storey flats, schools and other public buildings.
Candidates for appointment (b) should have passed the Intermediate Examination of the R.I.B.A. or equivalent. The commencing salaries will be fixed within the scales, according to qualifications and experience. Five-day week.
THE COUNCIL IS PREPARED TO CONSIDER, F NECESSARY, THE PROVISION OF HOUSING ACCOMMODATION IN CONNECTION WITH THEES APPOINTMENTS.
Appointments permanent, subject to one month's notice on either side, to the provision of the National Conditions of Service and to medical examination.
Application forms, obtainable from the Borough Engineer, P.O. Box 7, Town Hall, Ilford, should be returned not later than Thursday, 30th November.

WAR DEPARTMENT. Applications are invited to fill posts of ARCHITECTURAL ASSISTANTS in the WORKS DIRECTORATE, CHESSING-TON. Successful applicants will be employed in the class of Draughtsman but will be expected to qualify by examination as Architects at the earliest possible moment. Only those who are studying the Royal Institute of British Architects' examination or can show sufficient aptitude and are prepared to study for these examinations will be considered. Candidates must be British of British parentage.

Starting pay on a range of £603 (age 21) to 2993 plus London weighting of £35/£40 in accordance with quals, and exp. Prospects of establishment and promotion, five-day week of 42 hours including meal intervals. State age, full details of training and experience to Chief Architect (Works Abroad), War Office, Leatherhead Road, Chessington, Surrey, or apply to any Employment Exchange quoting Westminster O/N 4692.

CITY ARCHITECT'S OFFICE, MANCHESTER
The following vacancies exist in the newly formed Management and Planning Division:

(a) SENIOR PLANNING ASSISTANT: A.P.T. Grade V (£1,310/£1,480). Applicants should be qualified quantity surveyors with particular abilities in the field of contract procedure. Duties include planning of work programmes, placing of nominated sub-contracts, and maintaining up-to-date cost records.

(b) SENIOR PLANNING ASSISTANT: A.P.T. Grade IV (£1,140/£1,310). Applicants should be qualified cost accountants with building industry experience. Duties include cost control of time spent by professional and technical staff on the respective projects, and cost control of all constructional work on sites.

(c) ASSISTANT PLANNING OFFICER: A.P.T. Grade III (£960/£1,40). Applicants should be quantity surveyors whose training has been mainly with a building contractor, with special emphasis on experience with job programme and job progress schedules and incentive bonus workings. Duties include the recording of constructional work progress on sites.

(d) ASSISTANT PLANNING OFFICER: Clerical Division III (£36)/£915). Preference will be given to applicants whose experience and background is that of a building technician, not necessarily professional. Duties include the creating and maintaining of a technical catalogue library and assisting with building materials research.

Commencing salary for each appointment according to qualifications and experience. Fiveday week. Removal expenses allowed. Housine

research.

Commencing salary for each appointment according to qualifications and experience. Fiveday week. Removal expenses allowed. Housing accommodation for a limited period may be provided (position (d) excepted).

Forms of application from the City Architect. Town Hall, Manchester 2, returnable by 24th November.

COUNTY BOROUGH OF PRESTON
ENGINEER & SURVEYOR'S DEPARTMENT
APPOINTMENT OF ASSISTANT
ARCHITECT
A.P.T. IV—e1.140/e1.310 p.a.
Applications are invited from suitably qualified persons for the above post in the Borough Engineer and Surveyor's Department.
Applications, stating age, qualifications, present position and salary, previous positions and full details of experience, together with the names and addresses of two referees, to be received by me not later than Monday, 27th November, 1961.

W. E. E. LOCKLEY,

W. E. E. LOCKLEY. Town Clerk.

Municipal Building, Preston. 6th November, 1961.

6th November, 1961.

NORTHUMBERLAND COUNTY COUNCIL COUNTY PLANNING DEPARTMENT (a) ASSISTANT COUNTY PLANNING OFFICER (NEW DEVELOPMENT), J.N.C. Scale "C" (£1,560-£1,325).

Applications are invited from suitably qualified and experienced persons for this new post of Assistant County Planning Officer (New Development). The successful applicant will be responsible for the supervision of the planning and execution of all major schemes of new development or redevelopment. These include central area redevelopment schemes, new town proposals and the layout of industrial estates. Design ability essential.

(b) AREA PLANNING OFFICER—J.N.C. Scale "B" (£1,465-£1,670).

All development control work in the County is carried out at headquarters in Newcastle and the successful applicant will be in charge of one of the County areas dealing with approximately 1,000 applications. Applicants should be appropriately qualified and have good appreciation of design problems encountered in urban and rural areas.

(c) ASSISTANT AREA PLANNING OFFICER

design problems encountered in urban and rural areas.

(c) ASSISTANT AREA PLANNING OFFICEB.—Grade A.P.T. V (£1,310—£1,480).

Applications are invited from suitably qualified persons for this appointment in the Development Control Section. The successful applicant will assist the Area Planning Officer and, where necessary, deputise for him.

The County Council operate a five-day week. The salary for each post will be fixed in accordance with previous experience and ability. Application forms and further details obtainable from the County Planning Officer, County Hall, Newcastle upon Tyne, 1. Applications to be returned not later than 8th December, 1961. 1109

BUCKS COUNTY COUNCIL
PLANNING DEPARTMENT
Applications are invited for the post of
BRAUGHTSMAN/PLANNING ASSISTANT in
the Area Office at Amersham. Candidates should
have had training in a Planning, Architectural,
Surveying or Engineering Office. Salary £645—2815.
The appointment is superannuable and subject to
a medical examination.
A weekly allowance of 25s, and return fare
home once every two months may be paid for
six months to newly appointed married officers of
the Council unable to find accommodation.
Application forms from the undersigned must
be returned not later than 1st December, 1961.
F. B. POOLEY.
County Offices,

County Offices, Aylesbury, Bucks.

BOROUGH OF ENFIELD
BOROUGH ENGINEER & SURVEYOR'S
DEPARTMENT
AMBNOED ADVERTISEMENT
APPOINTMENT OF CHIEF PLANNING
ASSISTANT—J.N.C. SCALE "B"

(£1,525 × £75 × £70—£1,570 per annum)
Applications are invited for the above post.
The Borough has a population of 110,000 and an area of 12,400 acres, of which 2,750 acres are preserved as Green Belt plus approximately 1,000 acres as parks and public open spaces. The Department has under preparation Schemes of Comprehensive Development including the replanning of the Town Centre and the lay-out of an Industrial Estate.
The successful applicant will be a Section Head and must have considerable ability, leadership and imagination.
All applicants must have passed the Final Examination of the Town Planning Institute, and Membership of another related professional body will be considered an advantage. Experience in the control of Staff, Committee work, Planning Inquiries and general administration is essential. The appropriate London weighting allowance will be paid in addition to the above salary, which will be fixed at a point within the Scale commensurate with qualifications and experience. An "Essential Car Users'" allowance is payable in connection with the duties of the post.
The Council are prepared to consider the provision of housing accommodation if required, or 100 per cent. advance to the successful applicant for house purchase within the Borough. Five-day week.
Details of appointment and application form obtainable from H. D. Peake, M.Sc. (Eng.), Borough Engineer and Surveyor, 7, Little Park Gardens, Enfield, Middx. to be returned not later than 11th December, 1961.
CYRIL E. C. R. PLATTEN, Town Clerk.

Civic Centre, Enfield, Middx.

NORFOLK COUNTY COUNCIL SENIOR PLANNING OFFICER (Amenity and pecial Subjects), J.N.C. Scale "B," £1,410 to

SENIOR PLANNING OFFICER (Amenity and Special Subjects), J.N.C. Scale "B." £1,610 to £1,670.

Applications are invited from persons holding suitable qualifications in planning, architecture and/or landscape architecture for appointment to the above new post as head of the Amenity and Special Subjects section of the Department. The section is faced with an extremely interesting programme of work, and a person possessing an appropriate degree of enthusiasm and organising ability is required.

An "essential user" car allowance and part removal expenses are payable, and the National Conditions of Service will apply.

Further particulars will be supplied on request. Closing date for applications 27th November, 1961.

R. I. MAXWELL. County Planning Officer. 41/43. Thorpe Road, Norwich, O2T.

BOROUGH OF ENFIELD
BOROUGH ENGINEER & SURVEYOR'S
DEPARTMENT
AMENDED ADVERTISEMENT
(Population 110.000—Area 12.400 acres)
Applications are invited for the following appointments:—
(a) ASSISTANT ARCHITECTS—Grade A.P.T.
V (£1.310—£1.340 p.a.).
The appropriate London weighting allowance will be naid in addition to the above salaries, which will be fixed at a point within the Scale commensurate with qualifications and experience. Candidates for post (s) must be Associates of the Royal Institute of British Architects, and should have wide experience in the design and administration of major building works.
The Council are prepared to consider the provision of housing accommedation if required, or 100 per cent. advances to successful applicants for house purchase within the Borough.
Five-day week.
Details of appointments and application forms obtainable from H. D. Peake, M.Sc. (Eng.), Rorough Engineer and Surveyor, 7. Little Park Gardens, Enfield Middx. to be returned not later than 11th December, 1961.
CYRIL E. C. R. PLATTEN.
Civic Centre.
Enfield, Middx.
S1162

Civic Centre. Enfield, Middx. 91162

WAR DEPARTMENT requires a MODEL MAKER in the Directorate of Works, War Office Chessington, Surrey, which is engaged on a wide variety of building nrojects at home and abroad. Applicants should be able to interpret sketches and working drawings and to prepare preliminary and presentation models using various media such as naner, wood and perspex and should have a good sense of texture and colour. Salary: \$605 (at age 21) to \$905 (at age 28) to \$993 (National) n.a., plus Outer London woighting of aither £35 or £40 accoming to salary. Application forms obtainable from Ministry of Labour, Employment Exchange, Chadwick Street, London, S.W.1, quoting Westminster O/N 4996.

ARCHITECTS

Senior Architects
Assistant Architects
Architectural Draughtsmen

CRUDENS Architects' Departments in Musselburgh (near Edinburgh), Glasgow and Newcastle, have vacancies for assistants with ability, initiative and a progressive outlook for interesting and varied work on multi-storey housing, low level housing, school and factory projects.

Salaries will be commensurate with qualifications, experience and ability. Staff Pension Fund.

Applications which will be treated in strictest confidence should be made to:

G. Bowie, D.A. (Edin.) A.R.I.B.A., A.R.I.A.S., Chief Architect, Crudens Limited, Musselburgh, Midlothian, Scotland. Tel: MUS. 2244

Professional Indemnity

The claims made against Architects in recent years alleging professional negligence show a striking increase both in number and size. It is found, of course, that many of these claims prove to be without foundation, but inevitably legal expenses—often very substantial—are incurred in rebutting the charges made. Experience shows that costs awarded against an unsuccessful claimant may, in fact, be irrecoverable.

In conjunction with Underwriters at Lloyds the Agency offers comprehensive Indemnity to Architects covering any amounts the Architect may be required to pay in the event of a claim against him succeeding as well as the full cost of legal defence whatever the outcome of the case. The costs incurred in litigation in recovering or attempting to recover professional fees are also covered. This policy affords the widest protection at a competitive rate of premium. Write for particulars to:—

The Manager,
A.B.S. Insurance Agency, Ltd.,
66, Portland Place,
London W.1.

Telephone: Langham 5533.

WO23

Metropolitan Police

Architect and Surveyor's Department

Applications are invited for the following positions in connection with the design and erection of Police Stations, Single Men's Hostels, Police Housing and Magistrates' Courts and schemes for major alterations to various Police buildings within the Metropolitan Police District.

Leading Architectural Assistants

Salary: £1,048 per annum rising by annual increments to £1,220 per annum.

Qualifications: Inter R.I.B.A., H.N.C., or equivalent.

Architectural Assistants

Salary: £658 per annum at age 21 rising by annual increments to £1,048 per annum. (Maximum salary on entry £960 per annum at age 28 or over). Qualifications: Inter R.I.B.A., O.N.C., or equivalent.

J. INNES ELLIOTT, B.ARCH., F.R.I.B.A. Chief Architect and Surveyor.

Apply, giving details of training and experience,

Chief Clerk, Architect & Surveyor's Department, Office of the Receiver for the Metropolitan Police District, Tintagel House, Albert Embankment S.E.1.

EXPERIENCED ARCHITECTURAL ASSISTANTS and DRAUGHTSMEN

Required for heavy programme of building development.

Good working conditions in pleasant surroundings. 5-day week. Progressive salaries commensurate with age and ability. Continuous employment. Pension scheme. Staff canteen.

Interviews to suit applicants.

Write:-

District Architect,
F. W. WOOLWORTH and CO., LIMITED
1264/1266 London Road, Norbury,
London, S.W.16

SHEPHERD

SECTION LEADER ARCHITECTURAL DRAUGHTSMAN

An experienced detailing draughtsman (32 to 42 years of age) is required for a new position in our Architects' Department a: York.

A thorough knowledge of building construction and the ability to control the work of a section engaged in the preparation of working drawings is essential. The work will entail close liaison with Architects on a variety of projects including industrial and commercial buildings, estate development and multi-storey construction.

This interesting appointment offers a good salary, bi-annual bonus, non-contributory pension and carries with it a private car or car allowance. Assistance with housing will be available.

Applications stating age, details of education and experience and salary required should be addressed to:

Donald W. Shepherd, F.I.O.B.

Technical Director

F. SHEPHERD AND SON LTD.,

Building and Civil Engineering Contractors

Blue Bridge Lane, York

ARCHITECTURAL ASSISTANT

required to work in Architects' section of multiple shop company. Good opportunity for person of real talent and enthusiasm to play responsible part in large programme of work.

APPLY

GERALD DEIGHTON, A.R.I.B.A., RADIO RENTALS LIMITED, EMPIRE HOUSE, CHISWICK, W.4. TEL: CHISWICK 6411

CITY ARCHITECT'S OFFICE MANCHESTER

Applications are invited for the following senior appointments

(a) PRINCIPAL GROUP LEADER (ARCHITECT)

in the Architects General Buildings Division, J.N.C. Scale "D" £1,710—£1,975 per annum. Applicants must be widely experienced, and be capable of organising and controlling the work of a group engaged on an extensive programme of all types of municipal building projects (other than Education).

(b) PRINCIPAL GROUP LEADER (QUANTITY SURVEYOR)

J.N.C. Scale "D" £1,710—£1,975 per annum. This position is next in seniority to the Chief Quantity Surveyor. Applicants must be chartered quantity surveyors with wide experience in an office handling projects of considerable magnitude.

Commencing salary for each appointment according to qualifications and experience. Five-day week. Removal expenses allowed. Housing accommodation for a limited period may be provided.

Forms of application from the City Architect, P.O. Box 488, Town Hall, returnable to the Town Clerk by 24th November, 1962.



Assistant Architect

To control a group engaged on an extensive programme of building work in the United Kingdom and overseas, including production and workshop buildings, offices, training schools, stores, depots and warehouses.

Applicants should be of Final R.I.B.A. standard with industrial design and administrative experience.

The appointment is permanent and progressive.

Housing assistance is available, with removal expenses paid.

There is a pension and life insurance scheme. The annual holiday is three weeks.

Apply to Mr. B. G. Tierney.

Michelin Tyre Co. Ltd., Stoke-on-Trent, Staffs, quoting Ref. 1064/AJ.

COUNTY BOROUGH OF SWANSEA
BOROUGH ARCHITECT'S DEPARTMENT
Applications are invited for the following
posts:

(a) SENIOR ASSISTANT ARCHITECT—Salary
Grade A.P.T. IV (£1,140—£1,310).

(b) JUNIOR ASSISTANT ARCHITECT—Salary
Grade A.P.T. I (£65—£1515 per annum).

(c) QUANTITY SURVEYING ASSISTANT—
Salary Grade C.I. (£650—£101 per annum).

Applicants for post (a) must be Associates of the
R.I.B.A. and have had considerable experience
in the design and supervision of the erection of
schools and other educational buildings.

Applicants for post (b) must have passed the
Intermediate Examination of the R.I.B.A.

Applicants for post (c) must have passed the
Intermediate Examination of the R.I.B.A.

Candidate must be under 45 years of age unless
they are already in superannuated service of a
local or public authority in respect of which
superannuation interchange is available.

The appointment will be subject to the provision of the Local Government Superannuation
Acts and may be terminated by one month's notice
on either side. The successful candidate will be
required to pass a medical examination.

Forms of application may be obtained from the
Borough Architect. The Guildhall. Swansea, to
whom they must be returned not later than
Thursday, 30th November, 1961.

Canvassing disqualifies.

Found Clerk.

The Guildhall.

Swansea.

Swansea. 6th November, 1961.

HACKNEY BOROUGH COUNCIL
ENGINEER AND SURVEYOR'S DEPARTMENT
VACANCIES FOR ARCHITECTURAL STAFF
Applications are invited for permanent appointments of

ments of

ASSISTANT ARCHITECTS AND
ARCHITECTURAL ASSISTANTS
in the Architectural Section of the Department
in Grades ranging between A.P.T. II (£815—
£960 p.a.) and A.P.T. V (£1,310—£1,480 p.a.) plus
London weighting allowance.
Grading and commencing salaries will be fixed
according to training qualifications and experience.

Grading and commencing saiaries will be according to training qualifications and experience.

The Department has on hand a heavy and varied programme of Housing Development and other architectural projects.

In appropriate cases the Council will be prepared to consider 100 per cent. advances for house-purchase within or without the Borough. Application forms obtainable from Town Clerk, Town Hall, Hackney, London, E.8, returnable by 9 a.m., 2nd December, 1961.

CHELSEA BOROUGH COUNCIL

ARCHITECTURAL ASSISTANT

(A.P.T. II. £315-£960 + London weighting) required in Borough Engineers and Surveyors Department. Applicants must have a sound knowledge of architectural drawing, building construction and measurement of existing buildings, and preference will be given to those who have passed R.I.B.A. Intermediate Examination or recognised equivalent.

Forms of application from Borough Engineer and Surveyor, Town Hall, Kings Road, S.W.3. to be returned not later than 28th November, 1961.

CITY OF NEW SARUM
CITY ENGINEER'S DEPARTMENT
CIVIL ENGINEER'S DEPARTMENT
Auplications are invited for the appointment of
Civil Engineering Inspector to assist the Resident
Engineer in the supervision of the construction
of a new sewage treatment plant in Salisbury.
Preference will be given to applicants with
experience of large scale concreting operations.
The appointment will be for a period of two
years at a salary of £15 per week. A casual
user's car allowance will be paid.
Applications, giving full details of experience,
together with the names and addresses of two
referees, should be sent to the City Engineer
and Surveyor, The Council House, Bourne Hill,
Salisbury, to be received not later than Monday, 4th December, 1961.
GEORGE RICHARDSON,
Town Clerk.
S1164

COUNTY BOROUGH OF WOLVERHAMPTON Applications are invited for the appointment of SENIOR PLANNING ASSISTANT within Grade A.P.T. IV (£1.140-£1.510 per annum). Commencing salary according to experience and qualifications. Superannuated. N.J.C. conditions. Housing accommodation and car allowance in appropriate cases. Candidates should be suitably qualified, and have had experience in Development Control. Applications, with two names for reference, to Rorough Engineer and Planning Officer. Town Hall, Wolverhampton, by 30th November. 1111

CITY OF LEICESTER
CITY ARCHITECT'S DEPARTMENT
GROUP LEADER ARCHITECTS, Scale "A,"
21,340-21,565.
SENIOR ASSISTANT ARCHITECTS, A.P.T.
IV/V, £1,140-£1,480.
LANDSCAPE ARCHITECT, A.P.T. IV/V,
£1,140-£1,480.
ASSISTANT ARCHITECTS, A.P.T. III/IV,
£960-£1,310.
Housing accompandation

ASSISTANT ARCHITECT.

2960-£1,310.

Housing accommodation where appropriate. Five-day week.

Applications invited from good Architects wanting to work on a group basis in a modern office on progressive schemes for schools, large scale housing projects and almost every kind of city development.

Closing date: Tuesday, 5th December, 1961.

Form of application from:

J. H. LLOYD OWEN.

B.Arch., F.R.I.B.A...

City Architect.

Halford House.

Halford House, Charles Street, Leicester,

CORBY NEW TOWN
Architects are wanted for various positions in the team working on the many interesting projects for this rapidly expanding New Town. These projects offer exceptional experience which will continue for some years ahead.
Commencing salaries are between £1.000 and £1.480, depending upon qualifications and experience.

Housing is available and removal expenses will be paid. There is a Superannuation Scheme, either under the Local Government Superannuation Act or under the New Towns Pension Fund. Apply by the 27th November, 1961, stating age, present appointment and salary, details of qualifications and experience, and the names of two referees, to:

R. F. BROOKS GRUNDY, General Manager.

Corby Development Corporation, Spencer House, Corby, Northants.

PUBLIC NOTICE

36s. per inch: each additional line 3s

SYMPOSIUM ON HOSPITAL LIGHTING A one-day Symposium on Hospital Lighting is being held in University College, Gower Street, on 5th January, 1962, under the sponsorship of the Ministry of Health and the D.S.I.R. Building Research Station. The Symposium is designed for architects and engineers both from Regional Hospital Boards and in private practice, and others particularly concerned with problems of hospital lighting, Papers will be given on the principles of hospital lighting, light sources and engineering, architectural and medical requirements. These will be followed by a discussion. The Conference will be introduced by Professor Richard Llewelyn Davies and the principal speakers will be Mr. J. Constable, Dr. R. H. Crawford, Mr. J. Green, Dr. S. T. Henderson, Dr. R. G. Hopkinson, Mr. J. Musgrove, Mr. D. J. Petty and Dr. Wellwood Ferguson. The cost of the Course, including coffee, lunch and the Course are limited and applications, together with the price of the tickets, should be made as soon as possible to Miss J. M. Beauchamp, Ministry of Health, Savile Row, W.I. Cheques and postal orders should be made payable to the Ministry of Health and crossed "Bank of England A/c H.M. Paymaster General."

Competition

36s. per inch; each additional line 3s. THE UNIVERSITY OF LIVERPOOL

OPEN COMPETITION

Architects are invited to submit designs for halls of residence for 1.100 to 1.200 students on the Carnatic site at Mossley Hill, Liverpool. The cost of the works will be approximately £1,500,000.

Sir James Mountford, M.A. D.Litt., D.C.L., LL.D. (Vice-Chancellor). Assessors:

Donald Gibson, C.B.E., M.A., D.C.L., F.R.I.B.A., M.T.P.I.

Professor Myles Wright, M.A., F.R.I.B.A., M.T.P.I.

£5.000: £3.000: £1.000. Further premiums, to a total not ex-ceeding £2,000, may be awarded at the discretion of the Assessors for other designs of merit. Premiums:

Sending in Day: 4 September, 1962.

Last Day for 1 January, 1962. Questions:

Conditions may be obtained, upon payment of a denosit of £3, from The Registrar. The University of Livernool, Liverpool, 3. Quoting Reference RVOH (518/AJ.

Architectural Appointments Vacant

Architectural Appointments Vacant

40. per thre; manusum Leo. Bue Number.

including forwarding replies, 20. cetta

A RCHITECTS ASSISTANTS URGESTLY REQUIRED IN BUSY CENTRAL LONDON
OFFICE. DETAILING AND WORKING DRAW.
ING EXPERIENCE ESSENTIAL. QUALIFI.
CATIONS AND EXPERIENCE IN DESIGN
UNNECESSARY. LONG TERM ENGAGEMENT.
FIVE-DAY WEEK. LUNCHEON VOUCHERS.
SALARY UP TO 41.250 PER ANNUM. BOX 1157.

A RCHITECTS AND PLANNING CONSULTANTS, JACKSON & EDMONDS, invite
applications for the following vacancies in their
Birmingham Office:

(a) SENIOR ASSISTANT ARCHITECTS: Associate R.I.B.A. and two years' experience minimum.

(b) JUNIOR ASSISTANT ARCHITECTS: Intermediate R.I.B.A. and three years' experience
minimum.

For grade (a) ability to design will be rated
high in making the appointments.

The work includes Civic Buildings, Swimming
Pools, industrial and military buildings, Halls of
Residence, an Arts Centre and central area redevelopment.

Commencing salaries dependent on experience
will be (a) from £950 upwards, and (b) from £575

Residence, an arts control development.

Commencing salaries dependent on experience will be (a) from £950 upwards, and (b) from £575 upwards for five-day week. Usual study arrangements. Luncheon Voucher and Pension Schemes operate.

Write stating experience, age and salary required to The Secretary, Jackson & Edmonds, Prudential Buildings, St. Philip's Place, Birmingham. 3. 1169

NARIOUS GRADES ASSISTANTS required, salary range 4900—41,500. Fitzroy Robinson & Partners, 3, Gray's Inn Square, W.C.L. S1145

NO be strong right arm in compact Architect's Department of newly formed Construction Company, whose parent ârm is one of the Country's larger Civil Engineering concerns. The work involves industrial, commercial and residential design, and a package-deal operation is envisaged. An A.R.I.B.A. or equivalent with 3-5 years' experience who could fit efficiently into present happy team would be getting in on the ground floor—and might even get rides in the firm's Cessna ?

happy team would be getting in on the ground floor—and might even get rides in the firm's Cessna!

Starting salary would be in the region of £1,350 p.a., with a generous block car allowance. A fiveday week is the norm, and the firm operates pension and bonus schemes.

Please write, with details of your experience, to W. J. Allen, A. R.I. B.A., Fitzpatrick & Nicholson Ltd., 455 Old Ford Road, London, E.S. 1165

A RCHITECT-PLANNER required by Jackson & Edmonds, Architects and Planning Consultants, in their Birmingham Office. The salary which will depend upon experience and design ability will be in the £1,200—£1,600 range. The work will include most aspects of town development and some experience of residential layout would be an advantage. Office arrangements include luncheon vouchers and pension scheme.

Write stating experience, age and salary required to The Secretary, Jackson & Edmonds, Prudential Buildings, St. Philip's Place, Birmingham, 3.

Senting Dunings, St. Philip's Place, BirmingLife Senting Assistant architect (A.R.I.B.A.)

Entor assistant architect (A.R.I.B.A.)

required for interesting and varied construction projects—no housing. Location S.W.1. Full
scope given to progressive designer in modern
materials and finishes, including aluminium.
Engineering and costing staffs in support. Permanent post with contributory pension scheme.
Five-day week operated. Excellent promotion
prospects open in return for ability, drive and
qualities of leadership. Preferred age 30/35. Write
giving full particulars and commencing salary
required to Box AJ 914, L.P.E., 50/62, St. Martin's
Lane, W.C.2.

Lane, W.C.2.

QUALIFIED ASSISTANT with private practice, experience required, for permanent senior position, in varied and progressive practice. Prospects, and salary, commensurate with ability. Very full particulars please to G. Parry Davies and Associates, Denbigh.

Prospects, and salary, commensurate with ability. Very full particulars please to G. Parry Davies and Associates, Denbigh.

A SSISTANT required, now or after Christmas, for small office, interesting general practice. Telephone Lush & Lester, HOLborn 5101.

TC151

RCHITECTURAL ASSISTANT of Interding the control of London Brewers for Public House work. Box S1153.

INTERMEDIATE standard office-trained ASSISTANT for small West End general practice. Must have three years' London experience and be able to work on own initiative under supervision of a principal. Apply Raymond J. Cecil, A.R.I.B.A., 3, Mill Street, W.I. MAYYair 6574, 1154.

C750-£1,600. ARCHITECTURAL ASSISTANTS required (male or female) for work on large and varied projects. Expanding Office. Essex Town, near London. Five-day week. Prospects of Associateship. Apply Box S1161.

EXPERIENCED SENIOR ASSISTANTS REASONING PRACTICE. FOR WORK ON A LARGE AND INTERESTING DEVELOPMENT SCHEME. GOOD SALARIES COMMENSURATE WITH ABILITY. TELEPHONE IN THE FIRST INSTANCE TO STANLEY R. NEVELL & PARTNERS, SMITH SQUARE, WESTMINSTER. ABBey 3971.

£1.000 /22,000 p.s. will be paid to experienced competent ARCHI-TECTS by a private practice in the City of London. The work will be primarily on the drawing board on new and interesting projects of magnitude. A high standard of design and detailing ability in required. Please apply in writing to flow TC9566.

Mytting to Box TC9366.

INTERMEDIATE TO FINAL ASSISTANTS
required immediately. Salary from 21,000
onwards and lancheon vouchers. Theo. H. Birks,
38, Portland Place, London, W.L. LAN 7236.
TC3906

£850-£1,600. ABCHITECTURAL

A RCHITECTURAL A BCHITECTURAL ASSISTANTS of all grades, particularly Intermediate standard, required on varied and interesting projects. High salaries will be paid in accordance with skill or experience of applicant. Lewis Solomon, Kaye & Partners. City 8811.

Kaye & Partners. City coll.

CLIFFORD CULPIN AND PARTNERS need
additional staff in their London and Hemel
Hempstead offices. Men of about Intermediate
standard particularly required to join small teams
of keen men on important, varied projects. All
must have a sound sense of modern design. 39,
Doughty Street, London, W.C.1. CHAncery 5396.
TC9379

ENIOR and JUNIOR ASSISTANT ARCHI-TECTS required with progressive outlook. for work on a wide range of projects. Starting salaries up to £990 for Intermediate standard and up to £1,250 for Final standard, according to experience. Five-day week. Box TC9219.

ELIE MAYORCAS requires ABCHITEC-three years' office experience in this country. Write, giving brief particulars of architectural education and experience, te: 13. David Mews, Baker Street, W.L.

REIC LYONS has place for experienced ASSIS-TANT ARCHITECT who wants responsi-bility and opportunities. Brief particulars to: Mill House, Bridge Road, Hampton Court. Surrey. TC9842

WELLS, HICKMAN & PARTNERS require first-rate ASSISTANTS for varied and interesting work. Salary according to ability and experience. 'Phone: TERminus 1404. 9624

OSCAR GARRY & PARTNERS require
Final standard, with at least two years' office
experience in this country, to work on interesting
projects in early design and contract stages.
Five-day week, luncheon vouchers. Salary by
arrangement, according to qualifications and
experience. Phone WEL 2507 or write 65,
Gloucester Place, London, W.1.

A RE you kept pinned to the Drawing Roard day in day out? If so, we can offer you much greater scope in gaining all round experience and carrying through the varied duties of an ARCHITECTURAL ASSISTANT. Responsibility positively encouraged. Write telling us your experience with the usual particulars; it may well be to our mutual advantage (Box TC 9730) or Telephone MAYfair 3111.

ENIOR ASSISTANTS required for work on large hospital programme, excellent opportunities for the right men. Salary £1,000-£1,400. Luncheon vouchers and five-day week. Write giving full particulars: Watkins Gray & Partners, 57. Catherine Place, S.W.I. TC9590

G. CHERRY AND PARTNERS require an interesting and varied schemes. Write stating experience to 33, Portland Place. London, W.1.

ARCHITECTURAL ASSISTANTS with imagination and designing ability required to assist with large and important new developments in the carrial London Area. Telephone or write: Trehearne & Norman. Pression & Partners, 485, Kingsway, W.C.2. HOLborn 4071.

TC9798

WE have two vacancies in our rapidly expanding and long established practice, for ASSISTANTS of Intermediate standard with two or three years' experience. We can offer plenty of scope to the right applicants, and further their present experience both in the office and on the site. Please contact Box Tc9731 or Telephone MAYIair \$554.

PRYAN AND NORMAN WESTWOOD require a SENIOR ASSISTANT ARCHITECT; salary around £1,200. Apply to 21, Suffolk Street, S.W.I. TRAfalgar 1106.

S.W.1 BASIL SPENCE requires qualified ASSIS-FANTS, preferably having experience of University work. Five-day week, luncheon vouchers, salary up to £1,500 according to ex-perience. Write to Sir Basil Spence, R.A., 1, Fitzroy Square, London, W.1. S9802

INTERMEDIATE / FINAL standard ASSIS-TANTS required immediately. Good draughts-manship essential. Salary by arrangement, Mus-man & Cousens, 12 Upper Berkeley Street, W1.

EDINBURGH. ARCHITECTURAL DINBURGH. ARCHITECTURAL ASSIS-TANTS required immediately for expanding practice. Please write giving details of age, ex-perience, and salary required to Law and Dunbar-Nasmith, 54 Frederick Street, Edinburgh. S9918.

SSISTANT required for small office with interesting and varied work. Salary £1,000/

Green, Lloyd & Son, 5, Pickering Place, St. James's Street, S.W.1. Telephone: WHItehall 8926. TC9842

A SSISTANT for pleasant country practice,
must be good draughtsman or woman.
Opportunity to visit and supervise work. Salary
£750 to £1,000, according to capability. L. H.
Bond & B. W. Read, 44, Castlegate, Grantham.
TC9780

GEORGE, TREW & DUNN. We need help with many projects and invite your application to work with us. Please write, giving the usual details to 50, Eastbourne Terrace, W.2.

TC9884

A BCHITECTURAL ASSISTANTS. Intermediate standard—for the Architect's Department of large Property Company. Salary by arrangenent. L.Va. Apply: Hubert L. Meed, A.R.I.B.A., tritzans Group of Companies, 160. Brompton Goad, S.W.3. Artizans Gre Road, S.W.3.

NTERMEDIATE standard office trained ASSIS-TANT for small West End general practice. Must have three years' London experience and be able to work on own initiative under supervision of a principal. Box TC9903.

BIRMINGHAM - Frustrated PIRMINGHAM — Frustrated ARCHITECTS seeking a change, with initiative to take responsibility, are invited to contact James A. Roberts, A.B.I.B.A., Lichfield House, Small-brook Ringway, Birmingham, 5. Qualifications and salary are secondary to keenness, hard work and ability. Informal atmosphere in new modern offices.

CROYDON. L. A. Macintosh & Haines require ASSISTANTS. Intermediate to Final stan-dard, 2700—21, 200 p.a. Five-day week, varied work and responsibility, contemporary de-sign, good prospects in expanding practice. Telephone CRO 5780. TC9965

NEWCASTLE UPON TYNE. ABCHITECTS
and ASSISTANTS required for varied and
interesting projects, excellent working conditions,
five-day week, pension scheme, salary by arrangement in accordance with ability. Write giving
details of age, training and experience to W. B.
Edwards & Partners, Cathedral Buildings, Dean
Street, Newcastle upon Tyne, 1

S9894

DESIGN RESEARCH UNIT requires ASSIS-and ability to take responsibility essential. Salary about £1,000 p.a. Write D.R.U., 37, Duke Street, W.1.

EXPERIENCED INTERMEDIATE ASSIS-works including Public Buildings, Offices, Schoola, Old People's Homes, etc. Ring WELbeck 8863. Luncheon Vouchers. Salary by arrangement, but not less than £750 per annum. \$998.

NORTH LONDON. ASSISTANTS required, about R.I.B.A. Intermediate standard. Wide variety of interesting work. Five-day week. Facilities for part time day study. Apply C. E. Owen Ward, L.R.I.B.A., Midland Bank Chambers, Palmers Green, London, N.13. PAL 1186/7. 9967

AGOS Office of W. H. Watkins, Gray & Partners requires SENIOR ASSISTANT for responsible position. Varied and interesting work. Write giving full particulars of qualifications and experience to W. H. Watkins, Gray & Partners, 57, Catherine Place, London, S.W.I. TC9970

PARTNERS require additional staff. Opportunities for keen applicants wishing to take responsibility. Varying work including schools, churches, laboratories, industrial buildings and exhibitions. Write giving full details to 9/11 Richmond Buildings, Dean Street, London, W.1.

NTERMEDIATE standard ASSISTANT required in small office for work on variety of jobs. Salary by arrangement. Write Brian Drury, A.R.I.B.A., 34 Selsdon Road, South Croydon.

ARCHITECT salary up to £1,500 per annum according to ability and qualifications, and JUNIOR ASSISTANT, salary up to £6,500 per annum according to ability and qualifications, and JUNIOR ASSISTANT, salary up to £750, required in busy office. Interesting and varied work with opportunities for taking responsibility. Five-day week. Apply with full details of experience, Donaldson and Company, 75, London Ro561, Kingston-upon-Thames. Phone: KINgston-Upon-Tro956

SIR GILES SCOTT, SON & PARTNER require ARCHITECTURAL ASSISTANT, qualified or unqualified, with practical experience. Interest-ing and varied practice. Salary up to £1,000 plus luncheon vouchers. Write to 9 Gray's Inn Square, London, W.C.1.

FARMER AND DARK

Apply to Romney House, 12: ABBey 6311.

TOP ASSISTANT required capable of taking complete control of contracts. Salary accordtonpiece country
ing to ability.
Dalling and Partners, Chartered Architects,
14, Bloomsbury Square, London, W.C.I.
Telephone: CHAncery 4725 or write.

TCI

WATNEYS

A RCHITECTURAL ASSISTANT (Intermediate standard) required in Brewery Architect & Surveyors Dept. for work in connection with industrial and administrative Salary range £900/£1,250 p.a. according to age

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is full, and an extract of the essential terms and upon request.

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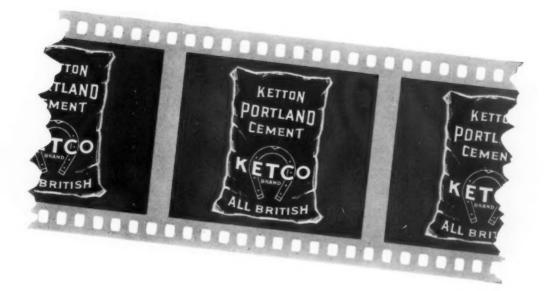
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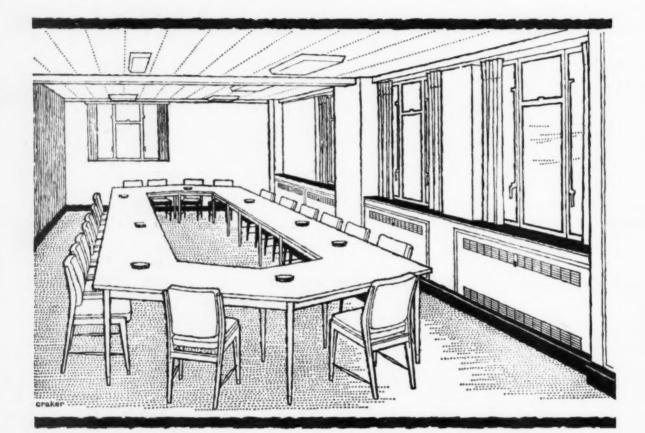
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