

THE ARCHITECTS' JOURNAL



standard contents

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

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

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society, 66, Portland Place, W.1.	Langham 5721
ABT	Association of Building Technicians, 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain, 4, St. James' Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association, 33, Grosvenor Street, W.1.	Mayfair 7501/8
APRR	Association for Planning and Regional Reconstruction, 34, Gordon Square, W.C.1.	Euston 2158-9
ArchSA	Architectural Students' Association, 34, 36, Bedford Square, W.C.1.	
ARCUK	Architects' Registration Council, 68, Portland Place, W.1.	Langham 8738
ASB	Architectural Science Board of the Royal Institute of British Architects, 66, Portland Place, W.1.	Langham 5721
AsCW	Association of Scientific Workers, 15, Half Moon Street, Piccadilly, W.1.	Grosvenor 4761
BAE	Board of Architectural Education, 66, Portland Place, W.1.	Langham 5721
BATC	Building Apprenticeship and Training Council, Lambeth Bridge House, S.E.1.	Reliance 7611, Ext. 1706
BC	Building Centre, 26, Store Street, Tottenham Court Road, W.C.1.	Museum 5400
BCC	British Colour Council, 13, Portman Square, W.1.	Welbeck 4185
BCCF	British Cast Concrete Federation, 17, Amherst Road, Ealing, W.13.	Perivale 6869
BCIRA	British Cast Iron Research Association, Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association, 10, The Boltons, S.W.10.	Flaxman 7766
BEDA	British Electrical Development Association, 2, Savoy Hill, W.C.2.	Temple Bar 9434
BIA	British Ironfounders' Association, 145, Vincent Street, Glasgow, C.2.	
BIAE	British Institute of Adult Education, 29, Tavistock Square, W.C.1.	Glasgow Central 2891
BID	Building Industries Distributors, 52, High Holborn, W.C.1.	Euston 5385
BINC	Building Industries National Council, 11, Weymouth Street, W.1.	Chancery 7772
BOT	Board of Trade, Millbank, S.W.1.	Langham 2785
BRS	Building Research Station, Bucknalls Lane, Watford.	Whitehall 5140
BSA	Building Societies Association, 14, Park Street, W.1.	Garston 2246
BSI	British Standards Institution, 28, Victoria Street, S.W.1.	Mayfair 0515
BTE	Building Trades Exhibition, 4, Vernon Place, W.C.1.	Abbey 3333
CABAS	City and Borough Architects Society, C/o Johnson Blackett, F.R.I.B.A., Borough Architect, Town Hall, Newport, Mon.	Holborn 8146/7
CAS	County Architects Society, C/o F. R. Steele, F.R.I.B.A., County Hall, Chichester.	Newport 3111
CCA	Cement and Concrete Association, 52, Grosvenor Gardens, S.W.1.	Chichester 3001
CCP	Council for Codes of Practice, Lambeth Bridge House, S.E.1.	Sloane 5255
CDA	Copper Development Association, Kendals Hall, Radlett, Herts.	Reliance 7611
CIAM	Congrès Internationaux d'Architecture Moderne, Dolderal, 7, Zurich, Switzerland.	Radlett 5616
COID	Council of Industrial Design, Tilbury House, Petty France, S.W.1.	Zurich, Switzerland
CPCRE	Council for the Preservation of Rural England, 4, Hobart Place, S.W.	Whitehall 6322
CUC	Coal Utilization Council, 3, Upper Belgrave Street, S.W.1.	Sloane 4280
CVE	Council for Visual Education, 13, Suffolk Street, Haymarket, S.W.1.	Sloane 9116
DGW	Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1.	Reading 72255
DIA	Design and Industries Association, 13, Suffolk Street, S.W.1.	Reliance 7611
DOT	Department of Overseas Trade, 35, Old Queen Street, S.W.1.	Whitehall 0540
EJMA	English Joinery Manufacturers' Association (Incorporated), Sackville House, 40, Piccadilly, W.1.	Victoria 9040
EPNS	English Place-Name Society, 7, Selwyn Gardens, Cambridge.	Regent 4448
FAS	Faculty of Architects and Surveyors, 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
FASSC	Federation of Association of Specialists and Sub-Contractors, 5, Arundel Street, Strand.	Temple Bar 6633
FBI	Federation of British Industries, 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission, 25, Savile Row, W.1.	
FCMI	Federation of Coated Macadam Industries, 37, Chester Square, S.W.1.	Sloane 1002
FDMA	The Flush Door Manufacturers Association Ltd. Trowell, Nottingham.	Ilkeston 623
FLD	Friends of the Lake District, Pennington House, nr. Ulverston, Lancs.	Ulverston 201
FMB	Federation of Master Builders, 26, Great Ormond Street, Holborn, W.C.1.	Chancery 7583
FPC	The Federation of Painting Contractors, St. Stephen's House, S.W.1.	Whitehall 3902
FRHB	Federation of Registered House Builders, 82, New Cavendish Street, W.1.	Langham 4041
FS (Eng.)	Faculty of Surveyors of England, Buckingham Palace Gdns., S.W.1.	Sloane 2837
GC	Gas Council, 1, Grosvenor Place, S.W.1.	Sloane 4554
GG	Georgian Group, 27, Grosvenor Place, S.W.1.	Sloane 2844
HC	Housing Centre, 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881
IAAS	Incorporated Association of Architects and Surveyors, 75, Eaton Place, S.W.1.	Sloane 5615
ICA	Institute of Contemporary Arts, 17-18 Dover Street, Piccadilly, W.1.	Grosvenor 6186
ICE	Institution of Civil Engineers, Great George Street, S.W.1.	Whitehall 4577
IEE	Institution of Electrical Engineers, Savoy Place, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society, 32, Victoria Street, S.W.1.	Abbey 5215

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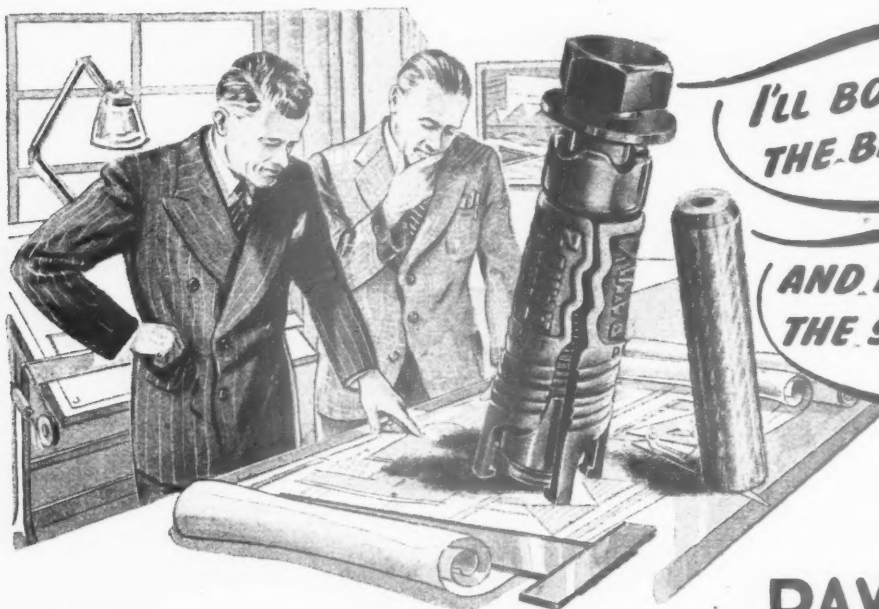


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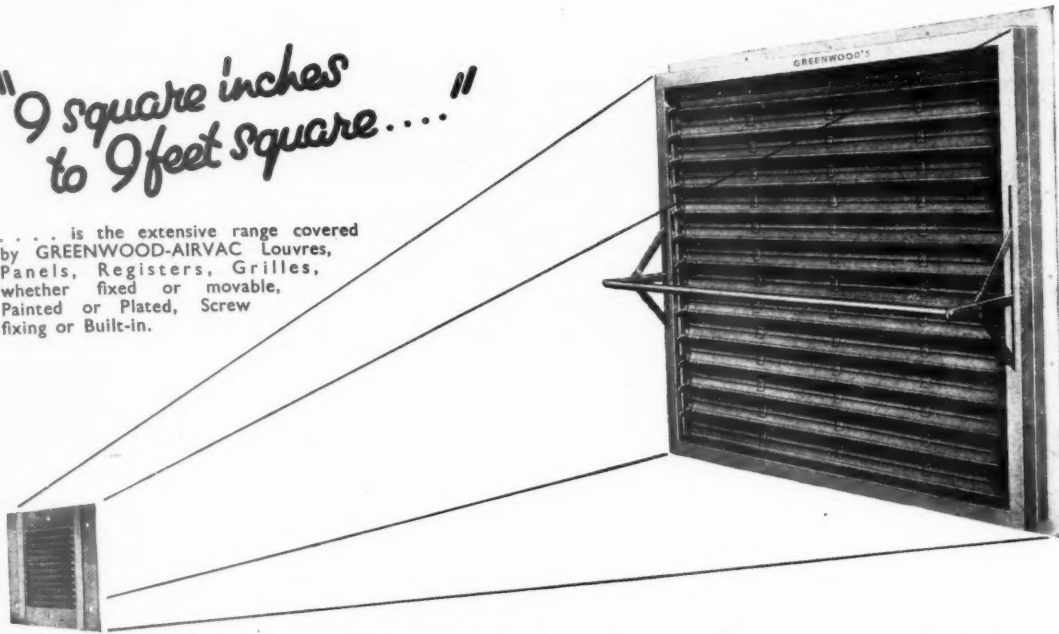
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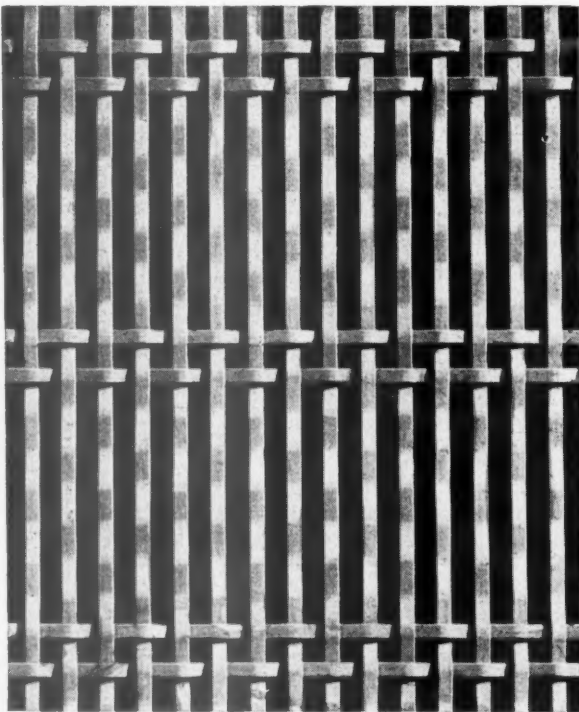
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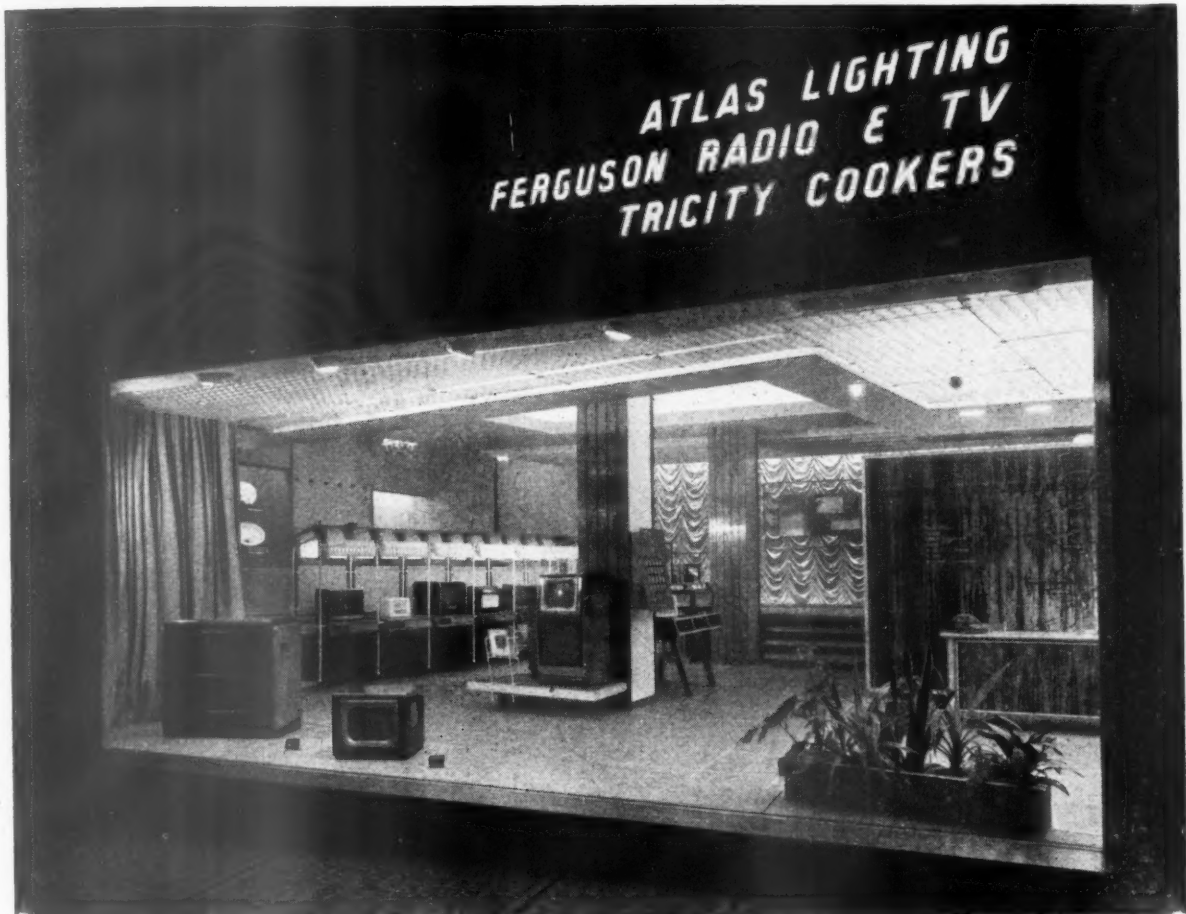
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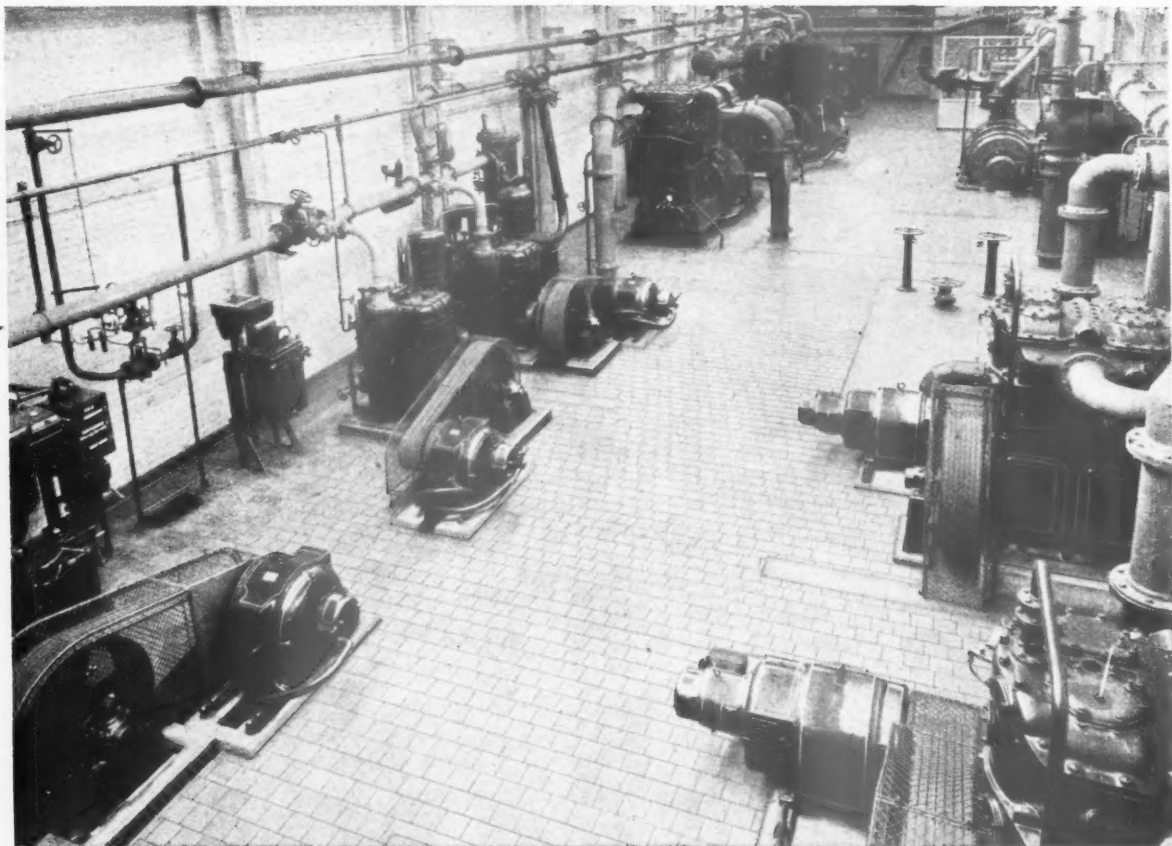
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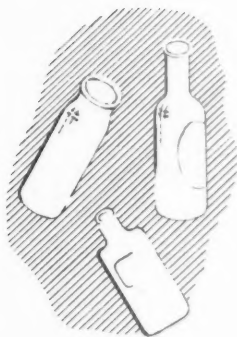


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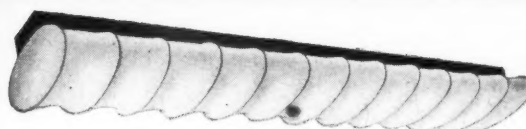
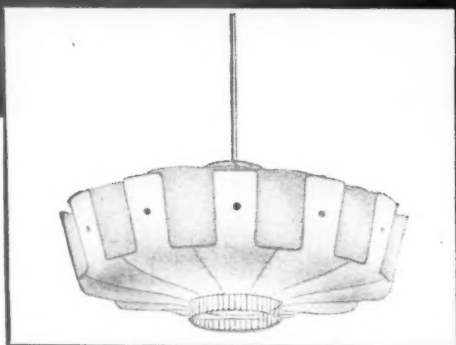
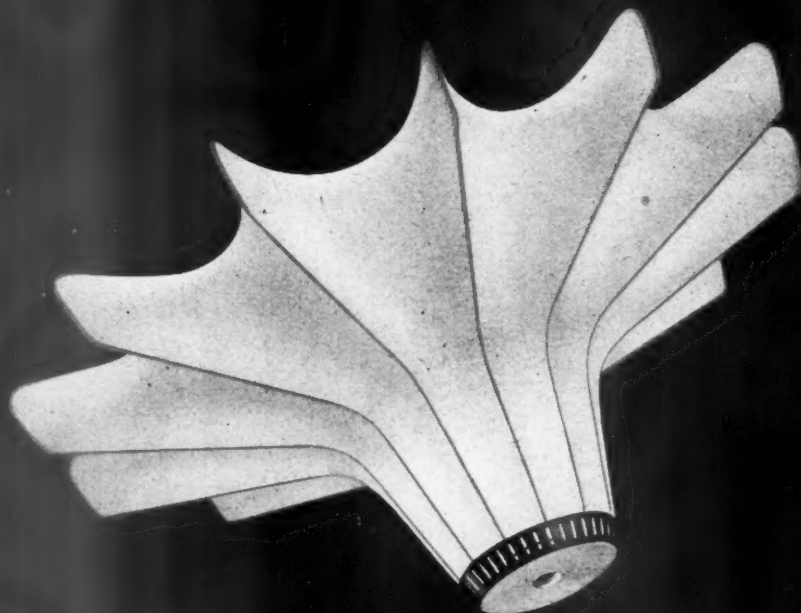
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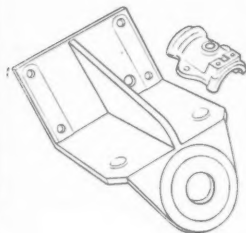
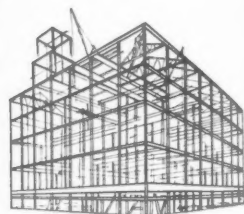
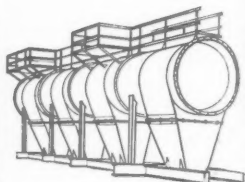
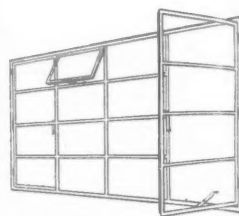
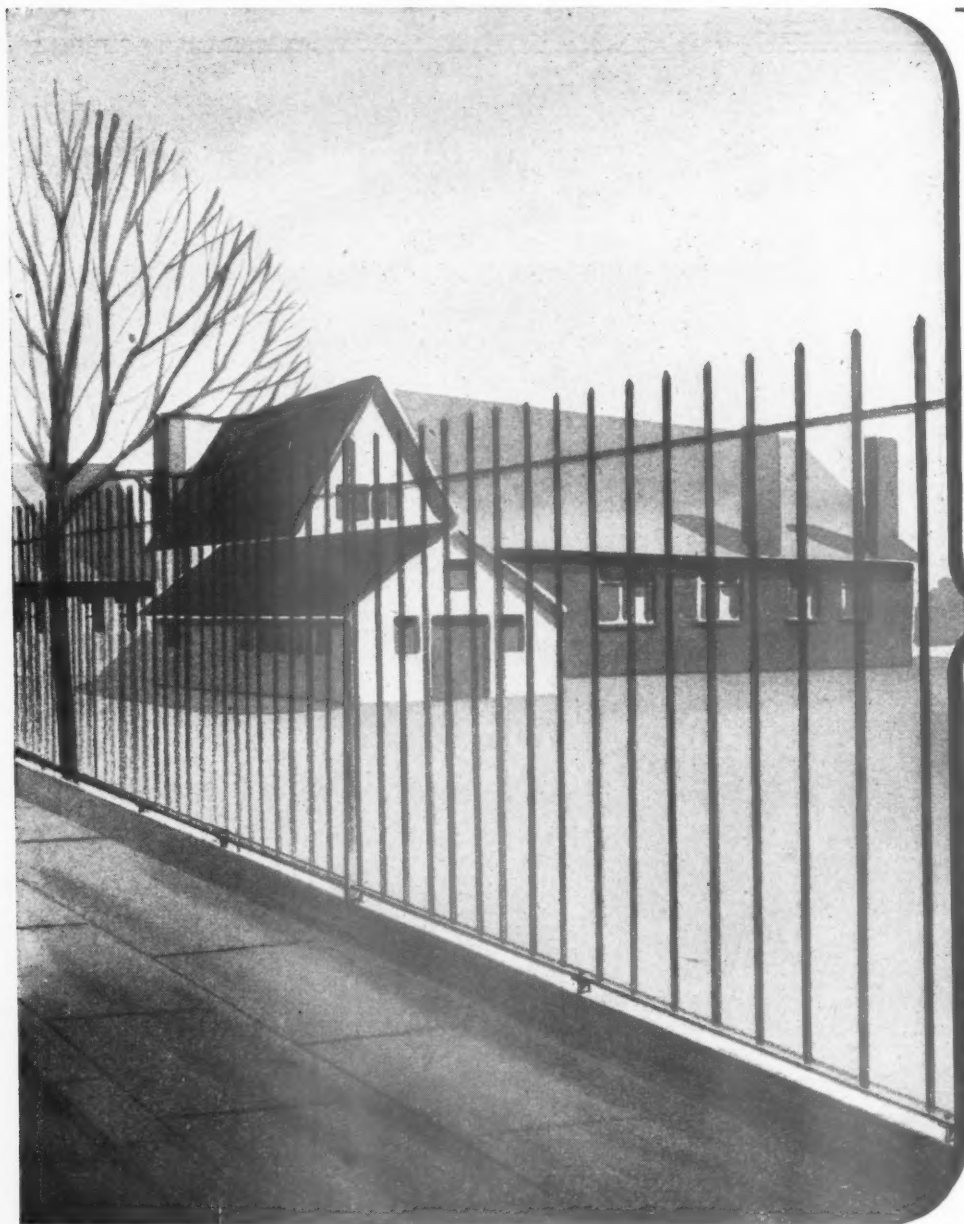
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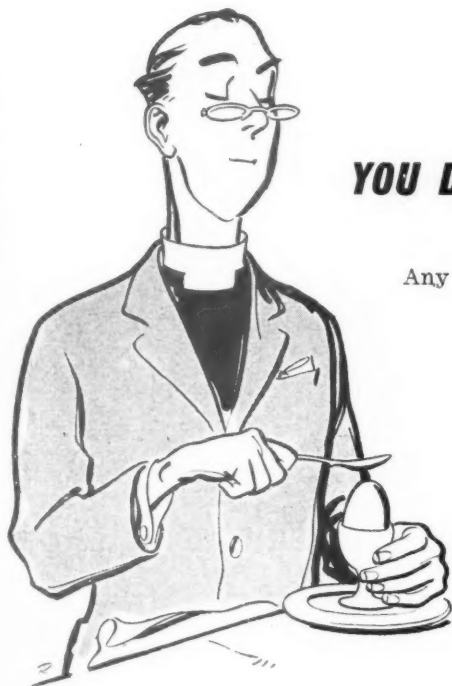
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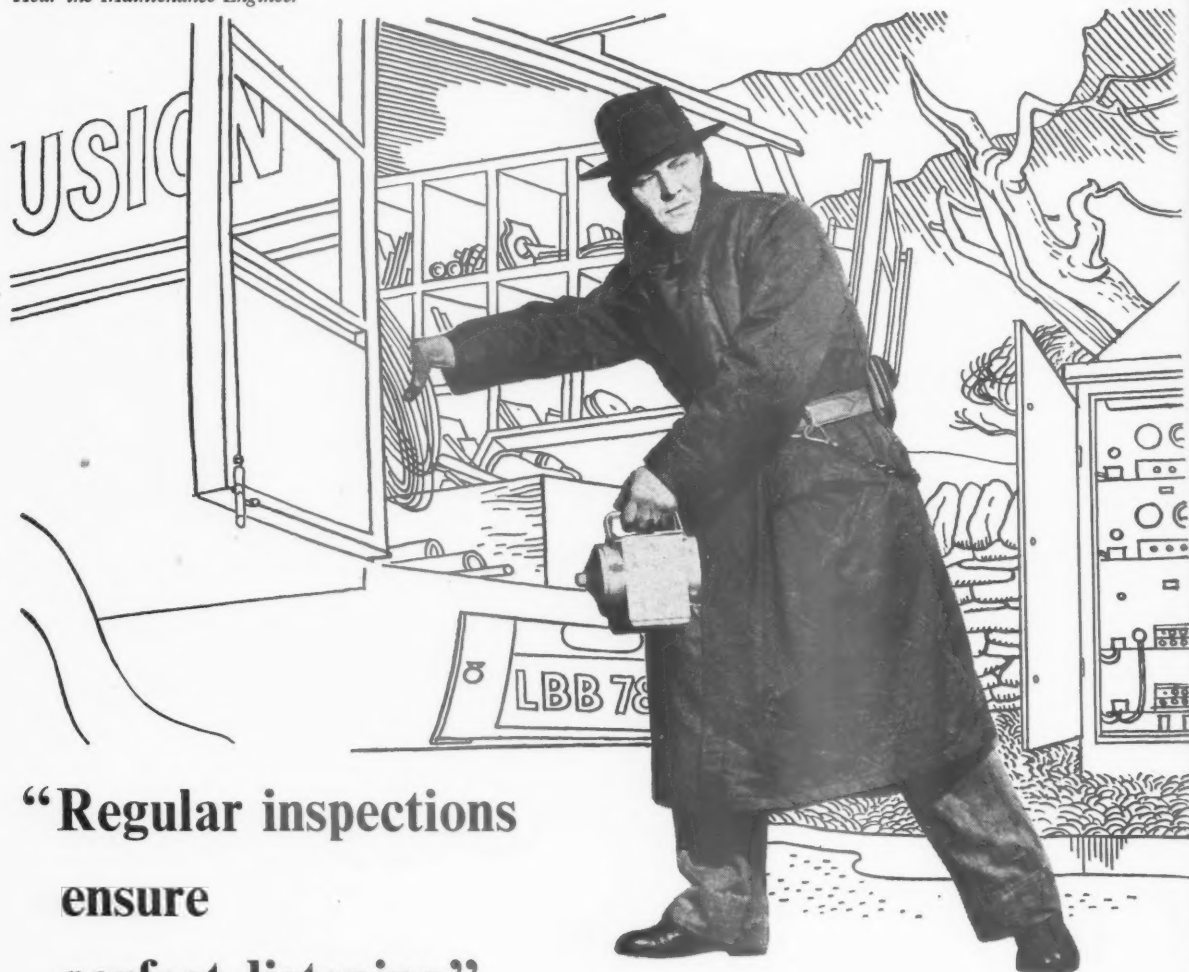
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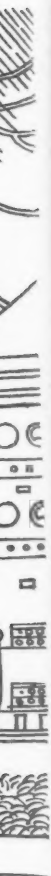
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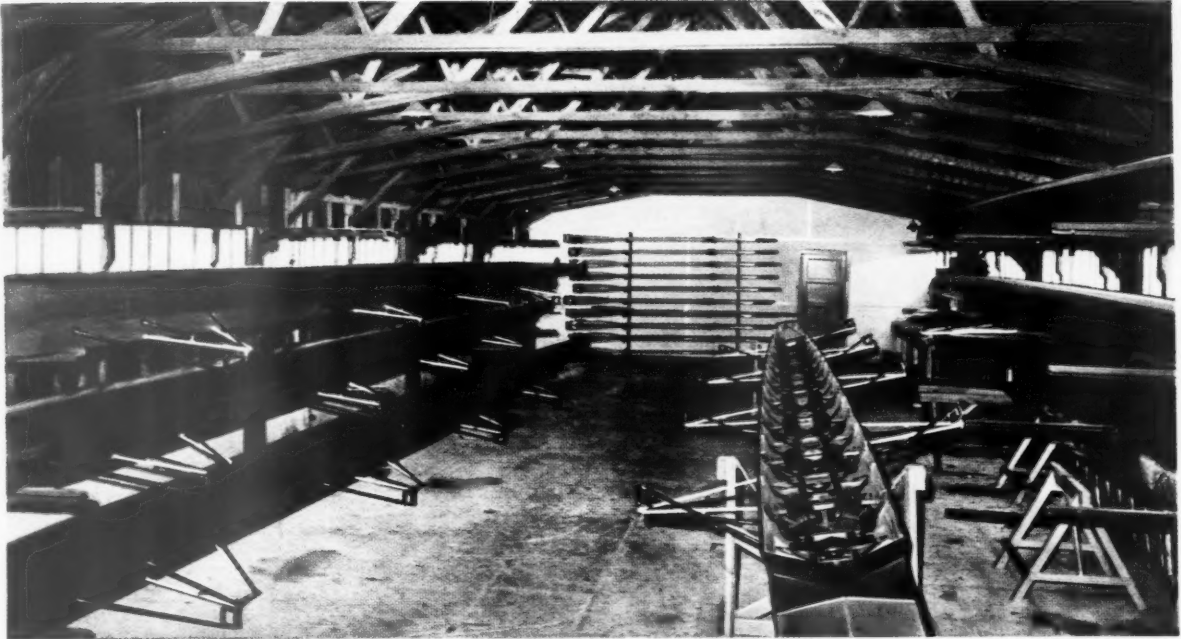
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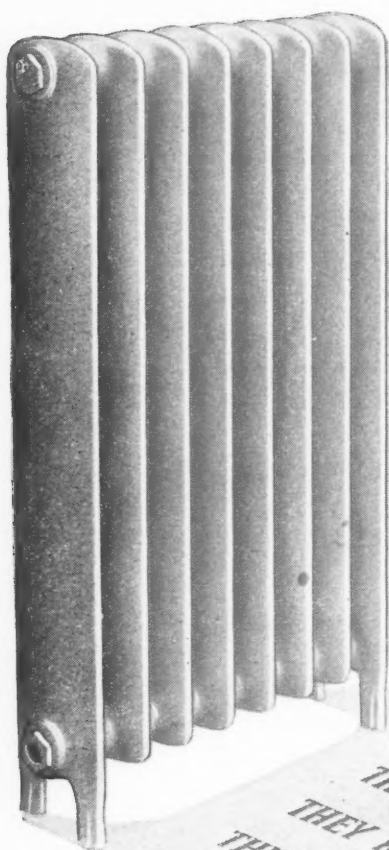


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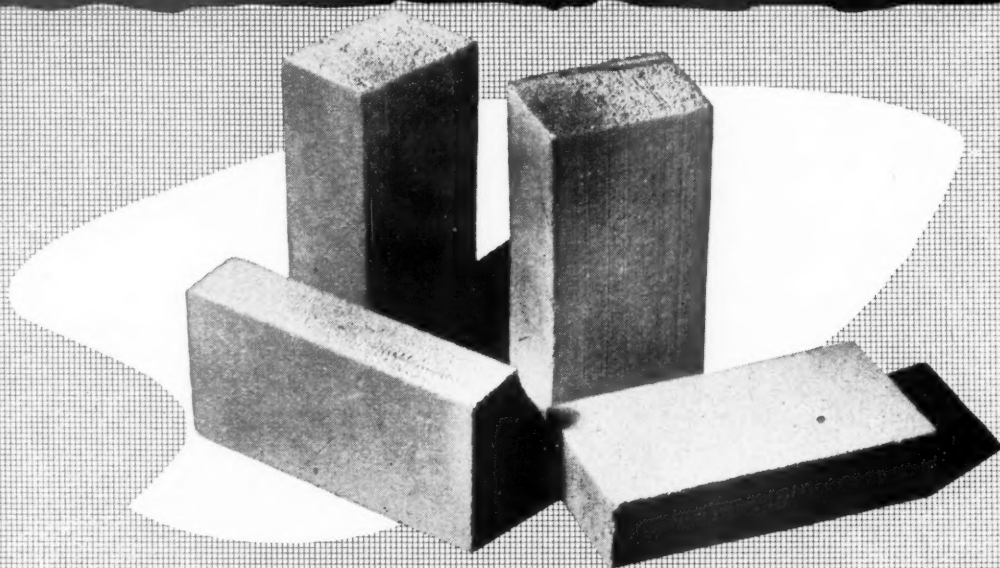
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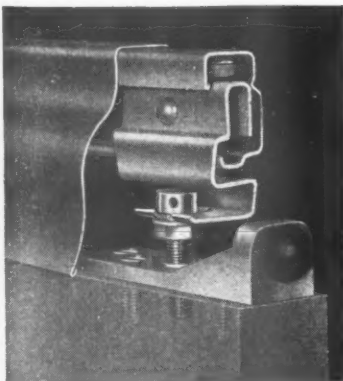
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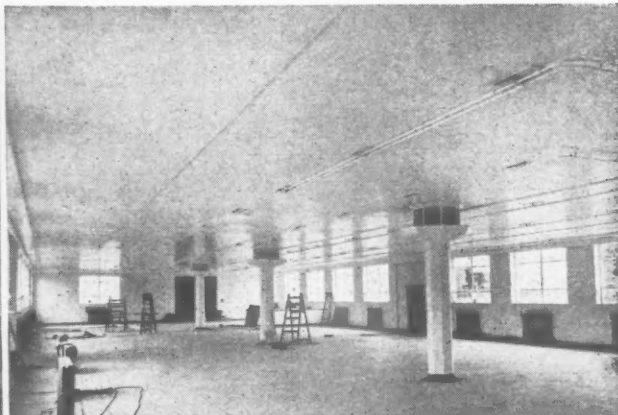
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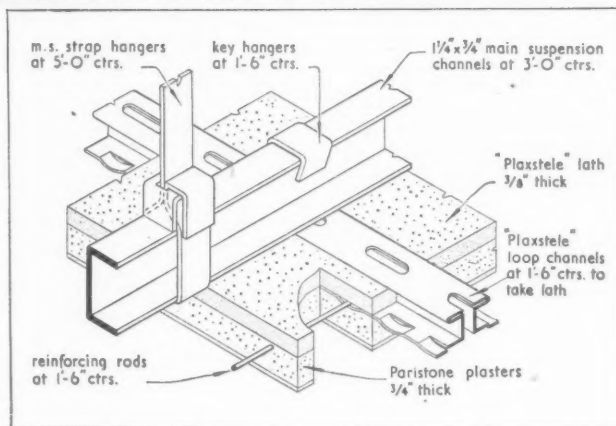
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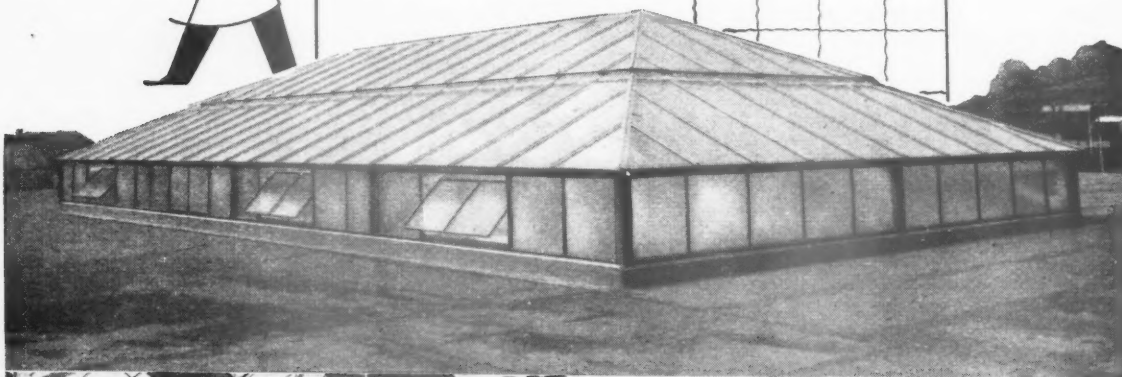
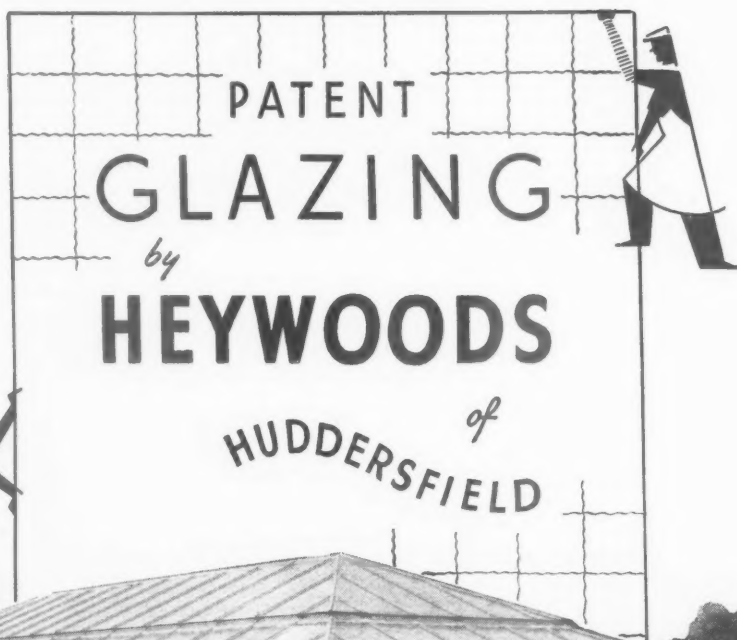
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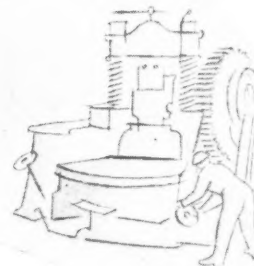
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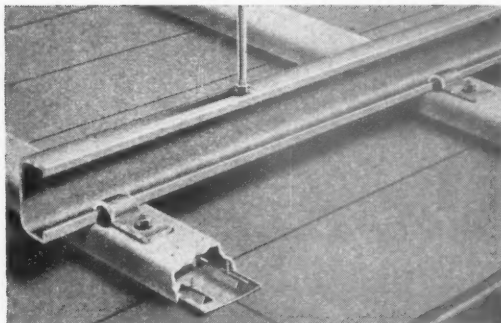
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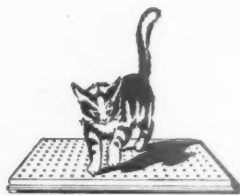
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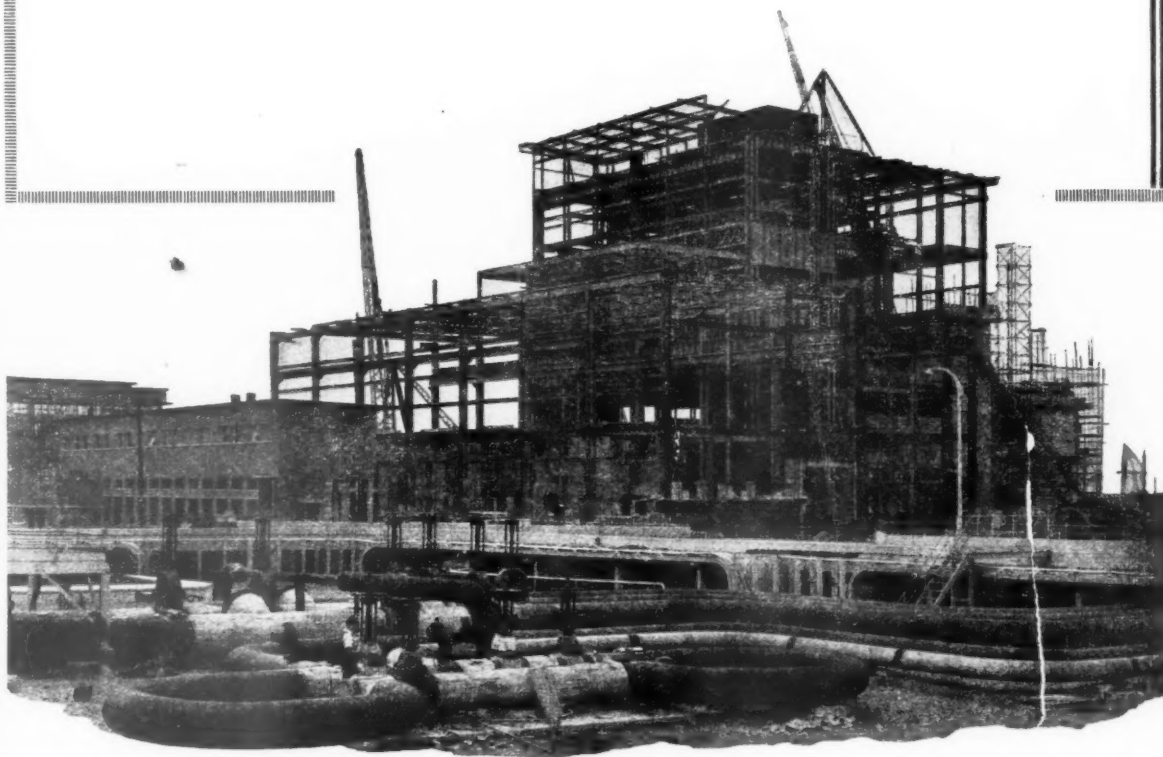
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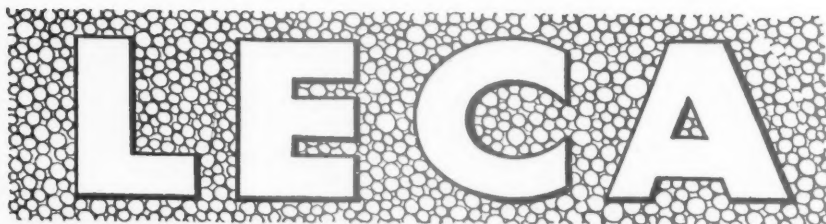


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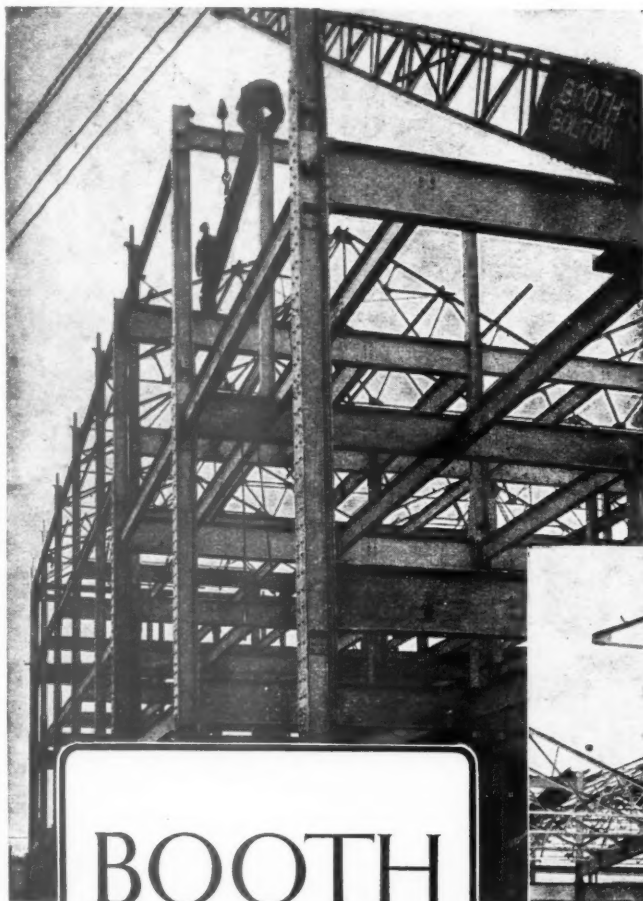
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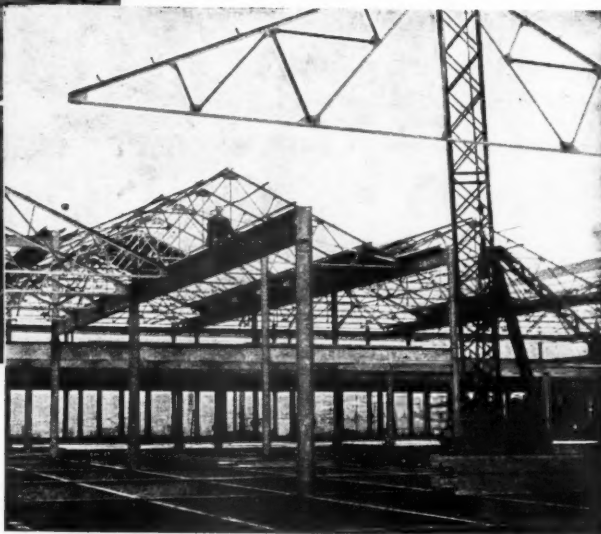
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Tangible Proof

The accompanying photograph shows one of the tiles recently removed during work on a Tunbridge Wells hotel. Its face is inscribed: "Thomas Rack his tile June the 21, 1777" and on the back it bears the name of the burner. The tiles were replaced for a further period of service.

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(Photograph by courtesy of F. W. Winchester Ltd.)

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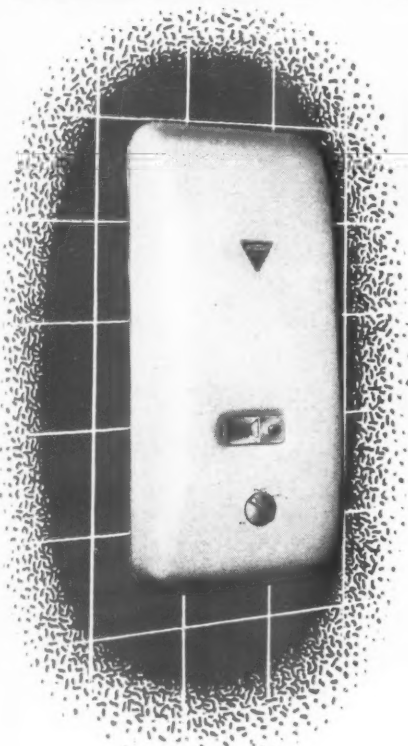
"The Clay Tile Bulletin", published quarterly, post free on request. The National Federation of Clay Industries, Drayton House, W.C.1

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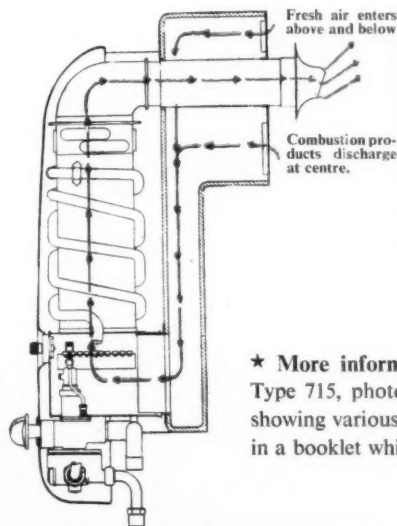


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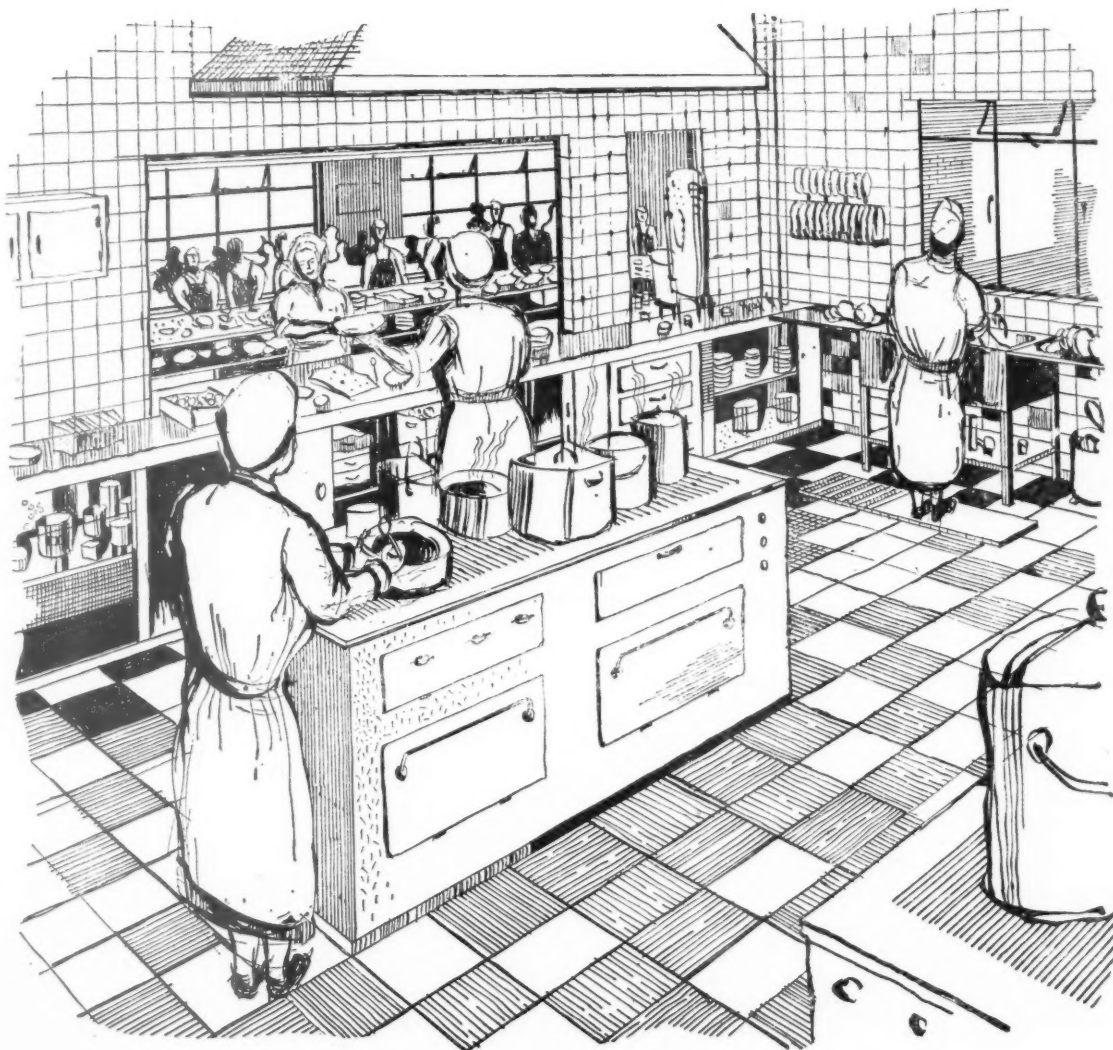
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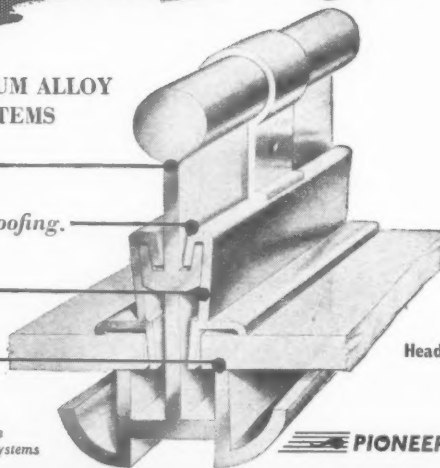
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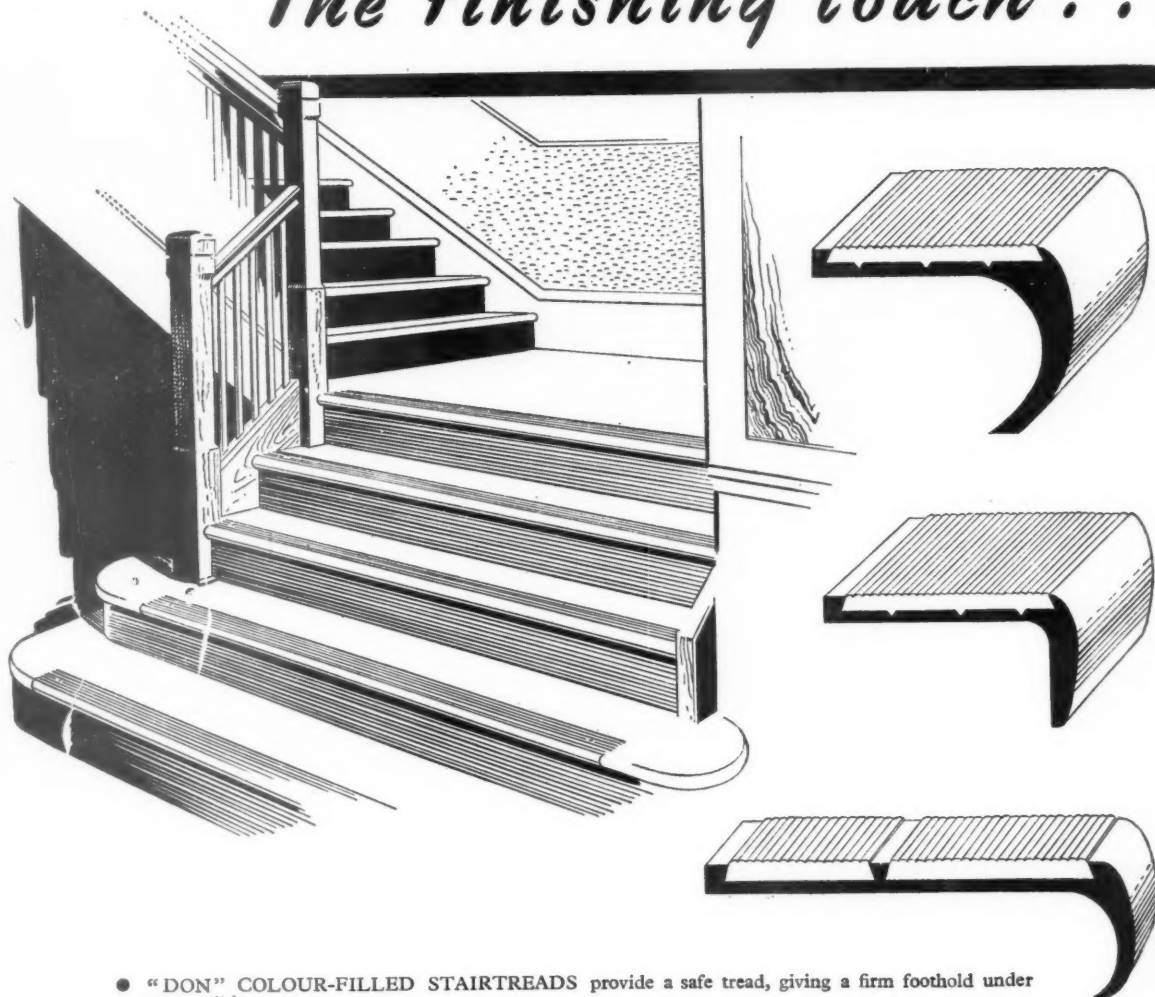
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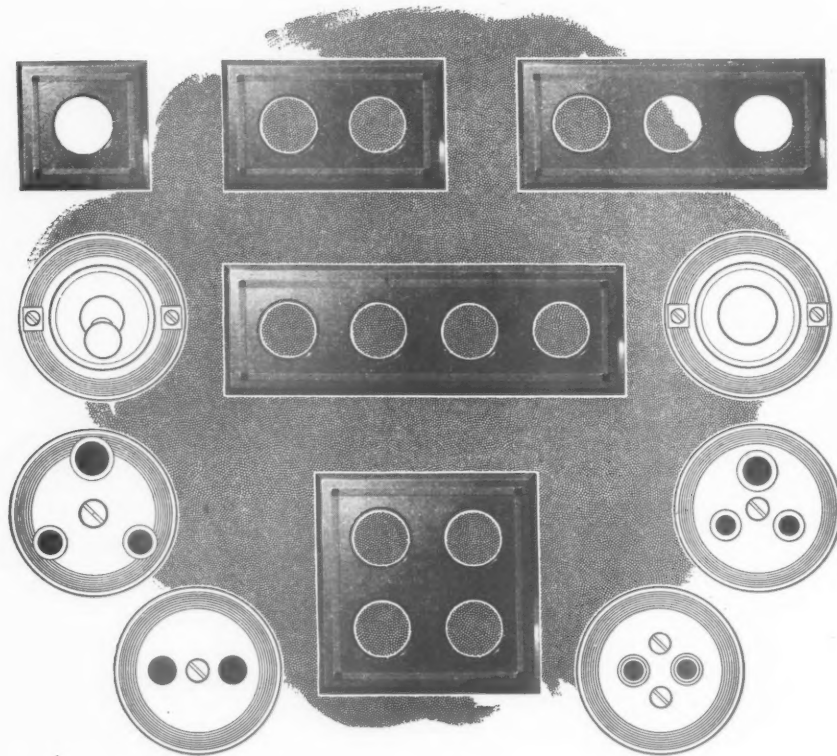
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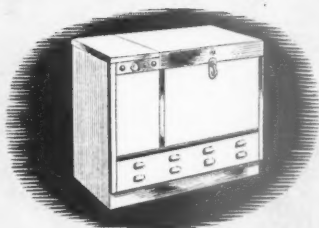
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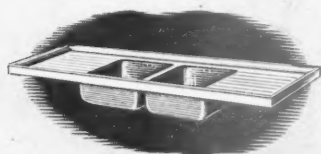
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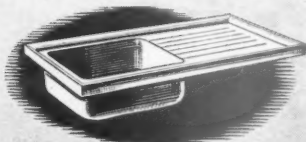
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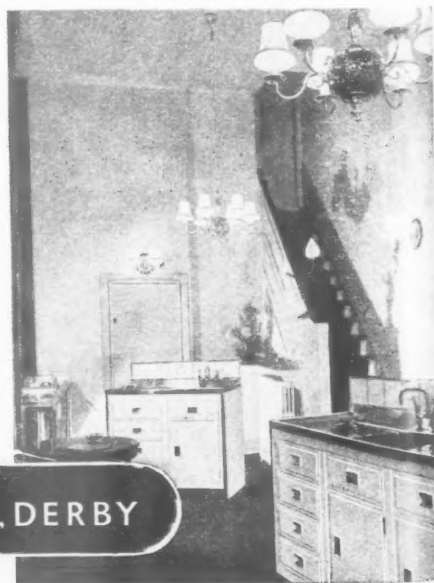
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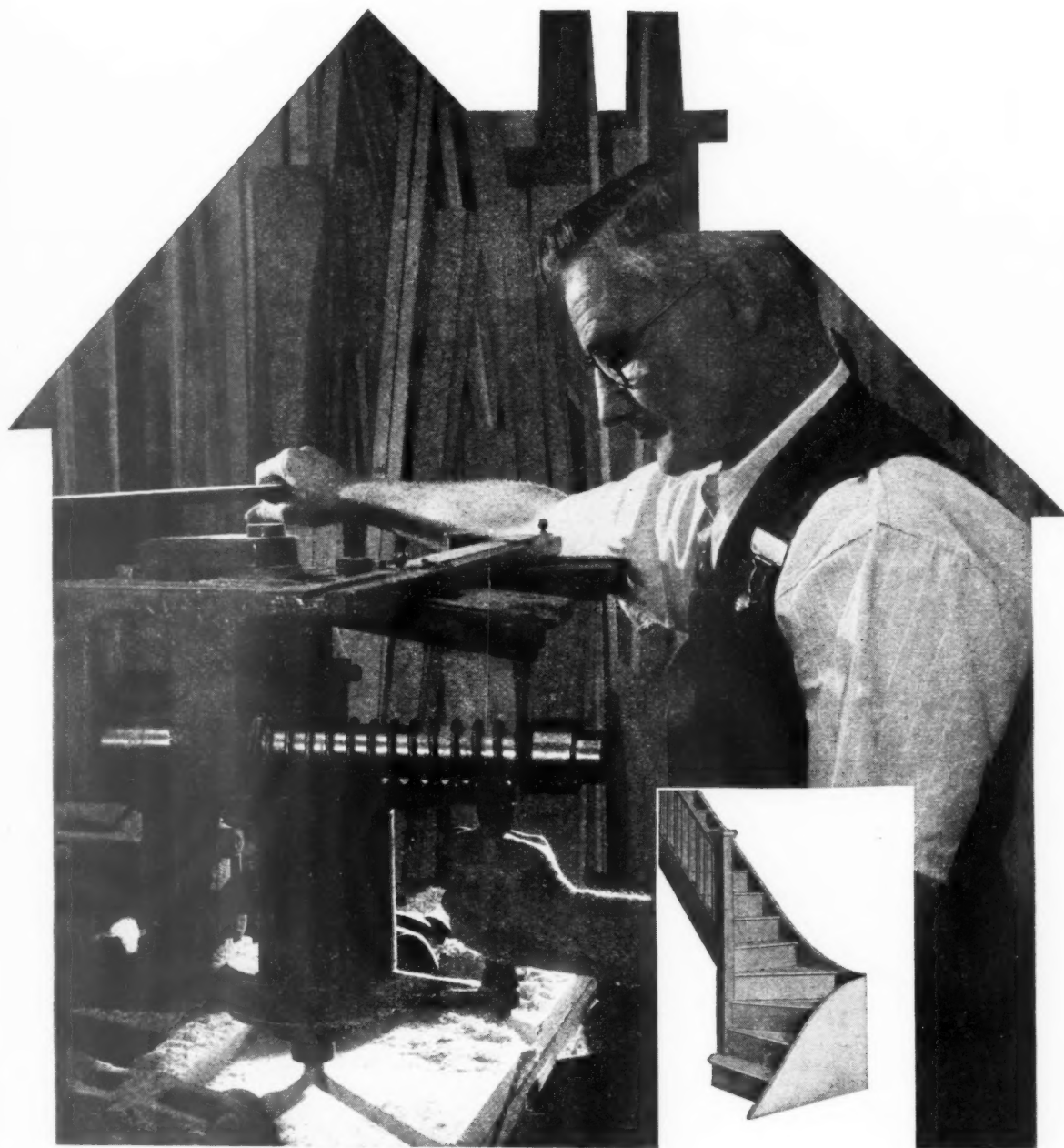
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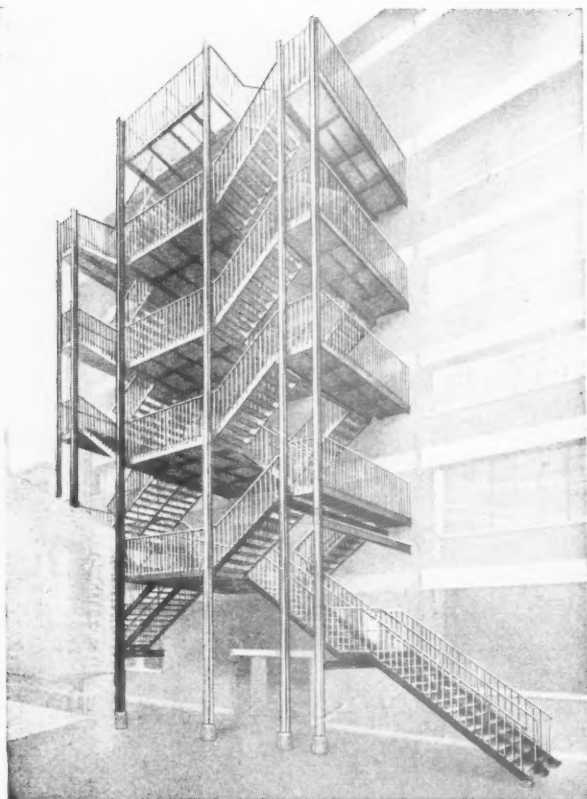
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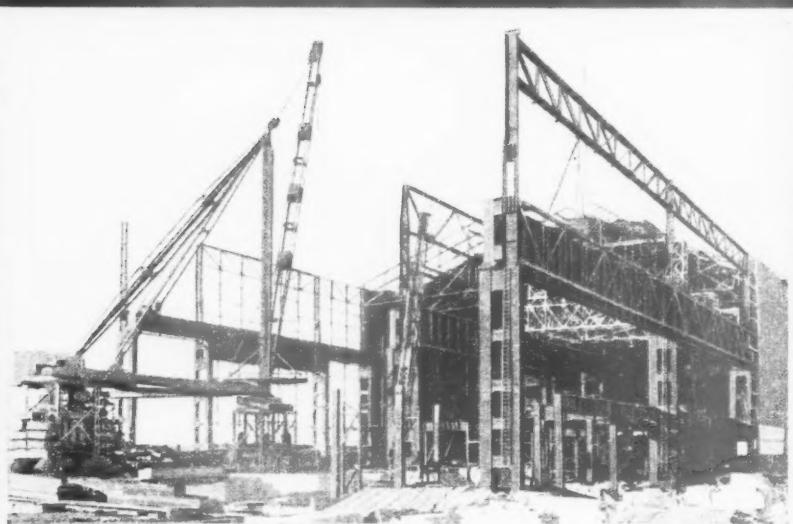
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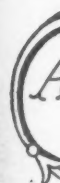
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THE ARCHITECTS' JOURNAL

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Subscription rates: by post in the U.K. or abroad, £2 10s. 0d. per annum. Single copies, 1s. ; post free, 1s. 3d. Special numbers are included in Subscriptions; single copies, 2s. ; post free, 2s. 3d. Back numbers more than 12 months old (when available), double price. Half-yearly volumes can be bound complete with index in cloth cases for 25s. 0d. ; carriage, 1s. extra.

No. 2971 FEBRUARY 7, 1952 VOL 115



WASTED ASSETS?

Said the industrial correspondent of *The Observer*, on January 27: "Apparently it can be shown, statistically at all events, that, in spite of the waiting lists, the number of houses and flats in the country almost coincides with the number of families." That gave me a start. But the MOHLG told me that the statement was wild and could not be corroborated until the census reports were published. On the blower then to *The Observer's* correspondent to ask where he got his facts. Reply: they were obtained from an article in the *Manchester Guardian's* recent "Review of Industry" by Professor Chester, of Nuffield College, who had arrived at his conclusions by his own methods. Next on to the Registrar General's office to ask when the census figures on housing accommodation and

population would be published. Reply: the 1 per cent. pilot estimates will be out in April but the full figures not for a couple of years or so.

Meanwhile, assuming Prof. Chester to be right—and casual observation suggests that he may be. Surely something should be done to make more use of the housing accommodation we already have? Obviously many existing houses are obsolescent, and others are unsuitable for conversion, but even so we are probably not making the best use of what we have, especially since the problem is now largely one of providing provisional housing to ease the present pathetic state of numberless families. Moreover, in a generation or so we may have too many houses—that is if the statisticians are right about the coming drastic fall in population. By then we shall have sprawled ourselves over land we desperately need for growing food. We shall have built up new areas, many of them vast, dreary, cultural deserts, around what may soon become half-uninhabited and wholly uninhabitable cities.

Obviously one cannot just force people to let unoccupied, or partly occupied, premises at uneconomic rents or to convert old houses into flats. But one *can* make it worth property owners' while to sub-let, convert and repair their property by altering the Rent Acts. At present it is financially impossible for the individual owner to do these things, both because of the Acts and because of what they call swingeing taxation.

As *The Observer's* correspondent writes: "Many old houses are falling into a bad state because rent restric-

tion deters landlords from doing repairs; the return they get in rent no longer bears any relation to the cost of maintenance." Perhaps, too, one of the troubles is that, since politics are not always altruistic, building new houses is better publicity for a party than applying some of the available labour and materials to making better, if improvised, use of existing walls, roofs and land.

Whatever the answer Profesor Chester's challenge is as disturbing as the lack of reliable facts about the position. Here, surely, is a field for some really valuable research—so long as we don't have to wait too long for the findings.

EXIT CUBIST ARCHITECTURE

Research, incidentally, came twice into the news last week. One occasion was an amusing one, a talk by Hope Bagenal at the AA on "Exposure, Durability and Maintenance." "Amusing" is perhaps hardly the term, for, although the audience laughed a good deal, Mr. Bagenal's dry humour is such as to promote titters from sheer nervousness and alarm. Hunched over the reading desk, looking for all the world like Godpapa Drosselmayer in the fairy tale of *The Nutcracker*, Mr. Bagenal's high but soothing voice bored into his subject, and all but suggested: "farewell concrete"—and half-a-dozen other materials and techniques.

Reminding his audience that permanent buildings were scheduled as having a life of 100 years, he pointed out that no one today could guarantee the length of life of reinforced concrete, and that our records of its performance

CREATION WITH CRAFTSMANSHIP



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were very inadequate. Nor did he feel that the common machine-made brick of today could be used with the confidence which we have falsely acquired in this material from a study of the selected hand-made bricks of the past 200 years.

Mr. Bagenal also appealed for the use of mouldings and drips and copings to protect wall surfaces from the rain. Here, I hope, all architects agree. The little cubist house-boxes—clean-lined and stream-lined—though pioneers in their day are now object lessons for showing how not to deal with concrete. They exemplify the triumph of fashion over common sense.

BUILDERS AND RESEARCH

Research came into the news last week a second time, quite unexpectedly, at the annual (and very sumptuous) dinner and dance of the NFBTE at the Dorchester Hotel. The reference was made by David Eccles, Minister of Works, in his speech replying to the toast of His Majesty's Government. It arrived, with a suddenness that seemed to stun everyone present: "You are taking over from me," said Mr. Eccles, "the cost of the registration of apprentices . . . that is a step in the right direction. But why not go further? What about saving the taxpayer the £1 million a year which he puts up for research?" Those who have read the sad news on page 178 of the death a few days ago of Sir Reginald Stradling, the pioneer of building research and the director of BRS throughout its formative years, will appreciate the cruel irony of fate.

Sir Reginald throughout his life had to fight for research in building, and he rarely had the official backing and appreciation which he deserved. His plans for research and development were far wider and more comprehensive than the organization we have to-day. It is a tragedy for us, in these difficult times, that ill-health, aggravated by vicious opposition, prevented him from realizing his aims. How he would have welcomed a Minister like David Eccles, who could challenge the building industry to finance its own research and develop it fully.

TUT-TUT—TV

The first serious effort to deal with architecture on TV—the Coventry



The destruction of many buildings in the recent riots in Cairo does not, fortunately, add much in the way of architectural loss to the horrifying loss of life. They were mostly modernistic cafes and cinemas, but the Turf Club was a pleasant homely Victorian building and Sheppard's Hotel (shown above) will be greatly missed, more perhaps for its associations than for intrinsic architectural merit. Nevertheless, its facade had a dim Colonial-style dignity, which had survived the fact that the street it was in had become seedy and unfashionable, noisy with the clamour of trams. The famous terrace was one of the world's meeting places. The sumptuous Turkish-style interior had often been renewed but not altered in character.

scheme—made a good start. But the performance last week was not as good. The material was sound—the idea being to discuss the Pimlico and Roehampton schemes with the aid of models and films. But the whole thing was so soaked in those "popular" and "matey" touches which are—quite erroneously—supposed to make this kind of programme more palatable, that there was no programme left! Anyone who wanted seriously (not necessarily technically) to learn something about these two housing schemes must have switched off pretty quickly. The BBC must learn—will they ever?—that their professionals can look after the "matey" stuff all right and without making everyone hot round the collar, but that the most fascinating thing any technician can be allowed to do is to tell you about his job, and tell you straight.

Incidentally, the studio "mock-up" of a Roehampton flat was so good that it came as a bit of a shock when someone, standing in the middle of the kitchen, said "Well, and when are you going to build?" *Quo*, as MGM say, *Vadis?*

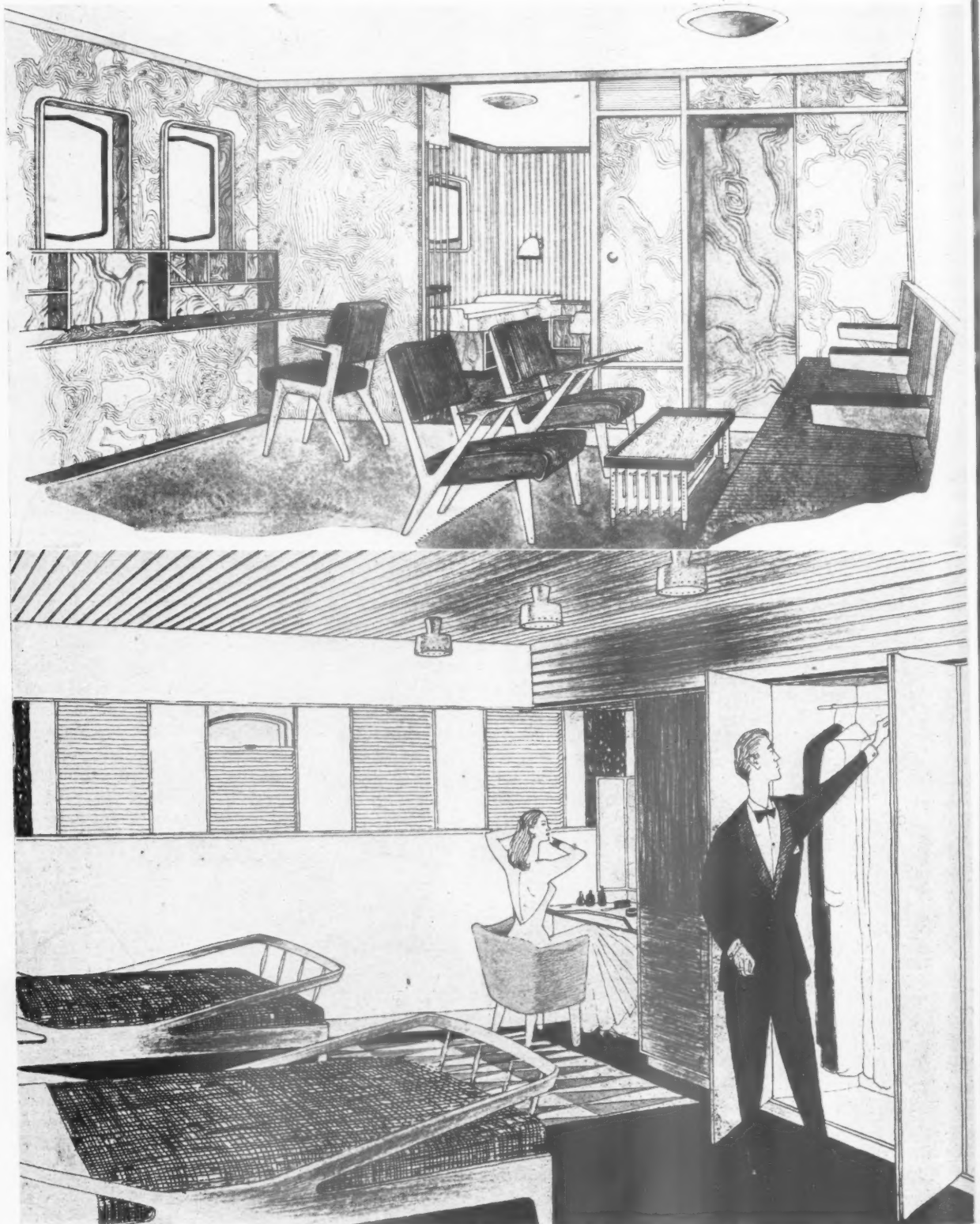
VAN RIEBEECK REBUKE

Some weeks ago, when discussing in this column the coming Van Riebeeck

Exhibition in Capetown, ASTRAGAL repeated a piece of information given to him by one of his spies—that it was to be for white folk only. A Capetown colleague has sent a rebuke in the form of a local newspaper cutting, which states that non-Europeans will be admitted—though not, presumably, unless there are special relaxations of the separate places of entertainment rule, on the same days as the whites. (No mention of this point in his paper.)

Apologies for the mistake—but no further apologies to the correspondent who adds that, in his view, a professional journal should not be a forum for political comment. Obviously the JOURNAL is not, and should not be, a political journal in the narrowest sense, but architects are not disenfranchised just because they are architects, and whether we like it or not, architecture and politics—which the dictionary defines as the science of art and government—are hopelessly interlocked.

Almost every leader which the JOURNAL has published during the last fifty years must have involved some degree or other of political comment, and there are several paragraphs in our columns this week—as usual—which



COID Competition Results

The winning entry (prize £250) in a ship's cabin design competition organized by the COID Scottish Committee was won by Ian T. Samuel, of Newtongrange, Midlothian. Top, a perspective of the sitting room. The bed-settee on the right has folding arms and a sliding seat. Under the writing desk on the left is a folding bed. Through the

sliding doorway can be seen part of the principal cabin. Below this perspective is seen part of the special prize-winning design (£100) submitted by Professor Russell and Associates, Royal College of Art, London. This sketch shows the double cabin. Both designs will be illustrated more fully next week.

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POINTS FROM THIS ISSUE

raise political issues. Not, however, the next item, which touches upon Scandinavia but not upon NATO.

SHADES OF SCANDINAVIA

Comparisons, as Dogberry tells us, are odorous, but one can't avoid them after inspecting the GEC's new range of lamp shades and fittings of modern—sorry, contemporary—design. Most of these fittings, which are on view in the firm's new Racey showroom in Kingsway, W.C.2, make use of pleated parchment and must, therefore, be measured against the similar products imported from Scandinavia. By comparison a few of the GEC's shades are cumbersome for, unlike the Swedish models, which are strengthened by collars of patented design, they are sewn on to wire frames and, in some cases, are spoiled in appearance by threads that run through the pleats.

However, it is interesting to see such a break away from the type of product one usually finds in the GEC's showrooms. Not that a *complete* break has been made. Certainly, one or two of the designs are pleasant, but others are intended to catch the eye of the candelabra harpbourer, and to introduce him to contemporary design with the mildest of pleats.

Postscript: The GEC Press handout on the new fittings has just reached me. It describes them as "a British interpretation of the contemporary trend in design." Surely that's one of the things nicely brought-up people are usually careful not to say.

LIFE'S PORTFOLIO

The international edition of *Life* for January 28 contains a portfolio of photographs of "Distinguished Britons," "a representative group of British men of stature." You can imagine the names: Augustus John, Trevelyan, Fleming, Russell, Gilbert Murray, Christopher Fry—seventeen altogether, but, oddly enough, no musician amongst them. There is, however, an architect. He is shown, scale in one hand and a roll of drawings in the other, posed with dignity on a staircase and looking every inch the "parfit gentil knight" he is: Hugh Casson. It is good to see, from such a portrayal, the first signs of international recognition of his fine qualities.

ASTRAGAL

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The Editors

ECONOMY CUTS AND THE ARCHITECT

THE announcement last week of the Chancellor of the Exchequer's list of economies in capital expenditure for the nation may not yet have aroused the apprehension of the architectural profession who, like the rest of the citizens of this island, are no doubt inured to drifting from crisis to crisis *via* the headlines of the daily papers. Nevertheless, the Chancellor gave a list of cuts which comes at an inopportune moment for a profession which is undergoing a rapid increase in numbers.

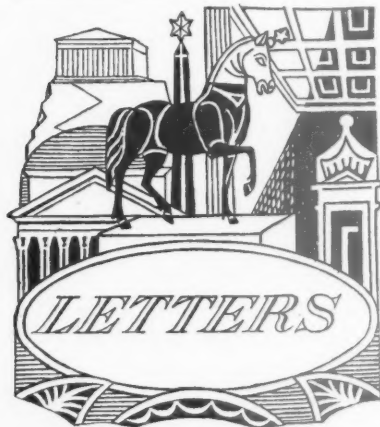
Apart from the increased housing programme—and this has never been a very remunerative side of the architect's practice—there will be fewer licences for shops and offices and "the programmes for rebuilding the blitzed cities . . . will have to be further delayed." More important still: "work on some industrial projects of high, long-term value to our balance of payments will have to be slowed or stopped altogether and the start of a large number of similar new projects will have to be postponed. *This is inevitable because factory buildings generally are large users of steel*" (our italics). The Chancellor also referred to economies in the school building programme. This last cut, details of which have now been announced by Miss Horsbrugh, Minister of Education, postponing as it does a year's programme, may affect the architects income the least. Nevertheless, this postponement, slight though it may be, will, in combination with the other building cuts announced, have a marked deflationary effect on the architect's practice and on the value of architectural assistants.

The cut in shop, office and factory building, however, may well cause hardship, if not immediately, at least in a year or so, amongst those architects who are not occupied with defence work or with designing buildings for overseas. Their lot might be slightly alleviated if licences were granted more readily for factory buildings which were designed to need only the minimum amount of steel. A system which rewarded ingenuity and economy of materials in design by granting licenses to build would provide an incentive to better design and would allow more buildings to be built. We hope that

the government will endeavour to ensure that essential works do not, by the extravagant use of steel, cripple the long-term programme of buildings of value to our balance of payments.

STEEL VERSUS REINFORCED CONCRETE

A manufacturer, however passionately he may desire the recovery of his country from a financial crisis, will feel a certain reluctance about co-operating in the necessary remedial measures if by so doing he opens his market to a rival commodity. Such a struggle between conscience and cash is going on now in the minds of some of the bosses of our nationalized steel industry. The rival in the building world to structural steel is reinforced concrete. The present steel shortage could act as a spur on the building industry to compel it to concentrate on, and perfect its technique in, building in reinforced—and possibly prestressed, or precast—concrete. There is more profit to be made by the manufacturer from simply-rolled heavy steel sections than from steel rods and wire. There is thus an immediate financial inducement to the steel manufacturer to keep reinforcing rods, rather than heavy steel sections, in short supply, quite apart from the long-term one of not making the building industry too familiar with an alternative structural technique which uses a small amount of what has not always been a rare commodity—steel. David Eccles, Minister of Works, speaking the other day at a luncheon given by the LMBA said that the Minister of Supply had in hand the task of securing a better supply of reinforcing rods and wire. This shows that the Government is aware of the steps to be taken to make the best use of the steel available. It remains to be seen, however, if the Government can persuade an industry to adopt a course which the steel manufacturer knows will be damaging to him in the long run and which he can doubtless “prove” will upset the balance of his production.



Transport : A Remedy

SIR,—While reading ASTRAGAL'S comments on transport in the JOURNAL for January 3, I was instantly affected by the remark that: “Obviously there is no quick remedy.” I must say that I was shocked and saddened to observe such a martyr-like attachment (upon

R. G. Hollis
H. C. Parsons, A.R.I.B.A.
L. A. MacIntosh
John Carter
J. Calder Peeps, B. Arch.
Marcus Whiffen
J. E. McComb

reading further) to that, by now, somewhat shamefaced panacea for all evils, planning, in such influential quarters.

I do not mention it because of its being unusual, but because, related as it is to one of the more stubborn practical problems of the “Scientific Age,” a vivid impression is obtained of the degree to which adequate remedies to past problems are relied upon, with an air of almost desperation and defiance, to alleviate the problems of the present and future.

The character of the transport problem is essentially one of this age—when our destinies are literally controlled by numbers. Up till now, it has been possible to satisfy

transport requirements by the simple expedient of using more and more transport vehicles, and by speeding up the services wherever possible. This procedure presented all the apparent indications of being a sound policy and the balance sheets continued to reflect this financially. Now everything is different; it is apparent that this “crowding on” process has reached and passed an optimum. The capacity for more vehicles (even if we could afford them) on the rail, tube, bus and tram routes in the larger cities (not only in this country) has reached saturation, whereby any further increase of these services will precipitate difficulties and excessive costs which would virtually run them to a standstill, if the losses were not compensated for from tax revenues.

Already we have seen the tramways abandoned for reasons of economy, but the full purport of this does not seem to have been widely appreciated.

In these times of tremendous industrial production, when the development of television has made it possible for each family to possess its individual source of entertainment, independent of the crush, the queue, and the inevitable bacteria, it is altogether inconceivable that each family, or at least each worker, should not possess its individual means of transport, so that shortly the majority of the ponderous public service vehicles with all their lack of manoeuvrability could be dispersed to serve the less populated areas, leaving the high streets for the sole use of the far more manoeuvrable and rapid individual vehicles. The consequent reduction in numbers of pedestrians and a policy of discouragement of pedestrians about the major routes, could enable speed limits to be increased and fewer traffic lights used, on the high streets. The transport of freight into London might be effected by use of the Tube, and any excessively large vehicles, lorries and the like would be discouraged in the high streets. This policy renders the complete isolation of shopping centres, a logical and natural development, quite impossible to envisage with the populace at the tender mercies of the public transport system.

Why should this not be a quick remedy? Why must it be necessary for at least 50 per cent. of the population to endure such unpleasantness in addition to the resulting incalculable loss to the nation's attenuated economy, as a result of this outstanding example of staggering inadequacy? Why?—and this is the biggest “why” of the lot—should there be this mute acceptance of this state of affairs as though inevitably unavoidable, whilst we all gaze in silent wonder at the prospect of spending what may well be fifty millions of pounds each year for the next twenty years, or far more, for the reconstitution of London so that, no doubt, among other things of undeniable merit, we may then begin to expect assurance of the doubtful luxury of a seat to ourselves in the middle of the rush hour.

R. G. HOLLIS.

London.

How Not To Get a Home

SIR,—Your correspondent, whose letter appears under the above heading in the JOURNAL for December 13, has evidently not had the benefit of any professional advice in connection with his proposals, or he would be aware of the answers to the various problems outlined in his letter.

He refers to “four months of maddening correspondence and telephoning to establish that there would not be a development charge.” Any official of the Central Land Board would have advised him that no development charge was payable in the first moments of an informal consultation. This is established by the Board's statement on January 14, 1950, referred to in the RIBA Journal's practice notes for February, 1950, and is also clear from paragraph 18 of the Board's Practice Notes, 1949.

With regard to bye-law requirements your correspondent states that he had a "clean bill" from the sanitary engineer and the building department, and that he received bye-law approval to his proposals. He does not state the nature of the bye-law requirements cited by the building inspector, but obviously no authority can demand the impossible, and if it does there is a right of appeal.

The condition of the electric wiring was unfortunate and this sort of thing occurs on even the most carefully planned jobs. But it seems to me unfortunate that your correspondent did not complete his conversion and then apply for a licence for the electrical work only. Or he could have decided to make shift for a year with lamps, (or even a few candelabra might not have been entirely out of place in this old building), and then re-wired the premises under another year's free limit.

However, since he decided to apply for a licence, surely three months is not an unreasonable time to wait for it, bearing in mind the amount of work on the waiting list and the limited allocation controlled by the local authority.

Finally, the selling price inserted on the building licence. The normal way of assessing this, certainly the one used in this area, is to take the purchase price plus the cost of the alterations plus any development charge. This total is divided equitably between the separate dwellings created by the conversion, and becomes the maximum selling price for each. It is difficult to see why this should mean "financial ruin" for your correspondent. It is, of course, true that this price will not bear any relation to the market price of similar accommodation in the district, an anomaly of which we are all aware.

I would suggest that your correspondent takes the question of selling price up with the licensing officer again, and preferably in a personal interview, which will accomplish in one day what may otherwise take months' of correspondence. Since he has surmounted all the other difficulties and actually started operations it would be a pity to let this one snag nullify his previous endeavours.

HOWARD PARSONS.

Somerset.

How To Get a Home

SIR,—May I suggest to your correspondent:—(1) He has the building licence cancelled. (2) He makes the physical division of the properties (the party wall) within the free limit. (3) He sells the half he does not want, preferably to an architect (I would myself be interested south of the Thames) for whatever he can get. (4) He and the new owner make separate licence applications to make each part habitable.

L. A. MACINTOSH.

Croydon.

"Misshapen and Hideous"

SIR,—May I respectfully, but emphatically, protest against the design of the new street lamps now being installed in Bedford Square—the last surviving fine Georgian square in London? The old lamps were not beautiful; but they were respectable and inoffensive. The new ones, which seem to me to give neither more, nor more agreeable, light, are vulgar, cheap-looking, misshapen and hideous. It is difficult to believe that their design can have been approved either by the Commission or by the Council of Industrial Design, to whose chairman I am sending a copy of this letter.

JOHN CARTER.

Bedford Square.

More Men of the Year

SIR,—Why not follow your inclusion of a well-known horse-owner in "Men of the Year" (AJ, January 17) with well-known punters? I enclose a suggestion for an opening.

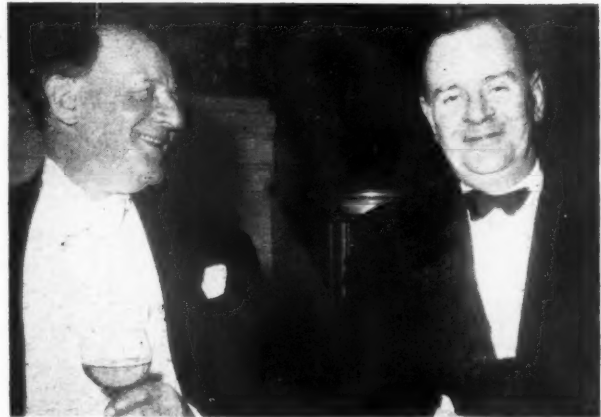
PAT ROGER.

London.

[The punters are shown below: on the right is Douglas Wallis, the horse-owning architect referred to in the letter.—Ed.]



"Punters of the Year."—Matthew Tait, director of Diespeker and Co. Ltd. (left) and Patrick Roger, director of Wiggins - Sankey Ltd. (See letter above.)



RIBA's Action "Improper"

SIR,—The RIBA Board of Architectural Education have, regretfully and, of course, politely expressed their inability to deal with cases of "alleged hardship." Insult is to be added to injury.

As soft words butter no parsnips, might I suggest that there is a fundamental principle involved transcending individual moans which could have been best and only observed by the simple expedient of righting the initial wrong. One ventures now to ignore the fact that the action was inconsiderate and to question whether it was not, in fact, improper.

I noted ASTRAGAL's remarks of December 20 with interest and should like to clarify one point. It is not primarily those persons qualifying during 1952 who are affected but those of us who qualified in June of 1951—or at least some of us. As the regulation became operative in January, 1951, and was apparently intended to affect those qualifying during that year, it would be interesting to know just how whole-hearted the Board was in its initial decision and, if it was whole-hearted, to whom the congratulations are due in ensuring that the election lists of December 11 last and January 8 were so extensive.

J. CALDER PEEPS.

Newcastle-on-Tyne, 2.

cliché. It had begun, in Italy, as an expression of combined arch and lintel construction; the Upper Sixth of the Burlingtonian School used it because it made a pretty sort of hole in the wall; the Lower Fourth because it was one of the first things that came into their heads; in the hands of the latter it became a cliché. And the modern cliché? To stick to windows and the like, we have had the circular window, the corner window (which Mr. Gibberd mentioned), the staircase wall of glass bricks—all motifs which had become clichés by the late 'thirties. (Note that the original justification of the motif that becomes a cliché need not be structural or functional, but may be purely æsthetic as in the case of the circular window; the rubble wall, à la Corbu, is another example.)

Most of the things examined by Mr. Gibberd are not, in fact, clichés, though some of them, such as the projecting window frame, may well be on their way to clichéhood. What's in a word? you may ask. Only this: that we can't write or talk about architecture without words. Many of the terms used in architectural criticism have already accumulated several layers of ambiguity; let us keep the rest of them clean.

MARCUS WHIFFEN.

Hampstead.

Runners and Betting

SIR,—May I draw attention in the article by ASTRAGAL of January 3, to an error which is not arithmetical, under his sub-heading of "Runners and Betting." Welwyn Garden City New Town reported to the Minister that it had completed 35 dwellings. I think that this New Town, therefore, should be entered as one of the "runners."

J. E. MCCOMB.

Welwyn Garden City.

Let's Keep it Clean

SIR,—You have deserved well of all your readers by printing Mr. Frederick Gibberd's valuable paper on expression in modern architecture at length. But why, please, should the things he deals with be called clichés? A cliché, in the literary sense of the term, is a phrase which through constant and unthinking repetition has lost half its meaning and all its force. Surely an architectural cliché should be something similar. The so-called Venetian window, as so often used in Georgian architecture, seems to me the perfect example of the architectural

The EDITORS reserve the right to shorten letters from readers. Whenever possible, however, they are published in full.



NFBTE

David Eccles at Annual Dinner of Federation

If taxes could be reduced, the building industry might keep more of its profits, and spend that extra on research. This suggestion was made by David Eccles, Minister of Works, when he spoke at the annual dinner of the NFBTE, at the Dorchester Hotel, on January 29. Following are extracts from his speech:—

"The building industry and the Ministry of Works must so arrange the flow of contracts that you can see ahead and order bricks and other materials rather further in advance and more smoothly than has been possible. How are we going to do that?"

"We aim at a more flexible starting-date procedure. We are arranging that the amount of work started shall be determined as we go along after consultation with the industry. We shall listen attentively to what you tell us are the local conditions in any given area. As far as housing is concerned this will not be part of the job given to the new housing boards but will be an extension of the existing machinery of the regional committees."

"The partnership between the Government and the building industry has been too lopsided. The Government has tried to do more than its share. The starting-date procedure has been too rigid; the control over the use of land too obstructive; the price controls and the central planning too irksome and arbitrary."

"Mr. Macmillan and I will work steadily to redress the balance in your favour. It will take time and goodwill and courage. But given these things we shall make progress."

"I want to give you one example of the changing partnership which I welcome very much. You are taking over from me the registration of apprentices. I am grateful that the industry is relieving the taxpayer of this modest burden. It is a step in the right direction. But perhaps you could go further. What about the £1,000,000 a year which the taxpayer puts up for building research? Are we getting value for money? I simply do not know. I have not yet been able to investigate this question in detail. But as a great industry, which tonight is entertaining the Minister of Works on a charming and generous scale, are you sure that money spent on research could be any less paying than money spent on refreshment?"

"I have a feeling that if we could get the taxes down, and you could keep more of your profits, and spend some of that extra on research, you and I would have made a good bargain for the nation. I just throw this out. Please give it a thought."



This first Health Centre in Harlow New Town—a temporary one—is an adaptation by Fry, Drew and Partners of a design for a pair of semi-detached "lower income group" houses.

OBITUARY

Sir Reginald Stradling

R. Fitzmaurice writes:—

Sir Reginald Stradling, C.B., M.C., D.Sc., Ph.D., M.I.C.E., F.R.S., died on January 26 at the age of 60. It was his enthusiasm and abounding energy which laid the foundations of building research in the United Kingdom and he was Director of the Building Research Station through its formative years from 1923 until he went as Chief Scientific Adviser to the Home Office and later the Ministry of Home Security in 1938. It was uphill work, for the Building Industry never took kindly to scientific research and only his exceptional personality and drive made it possible for the Research Station to occupy the position it does today. He had a broad sympathy with the problems of the building industry and a wonderful capacity for making friends. He also had a breadth of vision for the potentialities of research in our Industry which nobody else ever attained. After the war he became Chief Scientific Adviser to the Ministry of Works and if his health had not broken down we might have seen building research on a much broader base than it is today.

His own particular subject in the early formative period of building research was volume change in building materials due to changes in moisture content. He drove the subject with tremendous energy and enthusiasm and, looking back over the years, we can see how right he was, for these phenomena are at the root of so many problems of building technique. On a personal note, he drove me hard in working out functional requirements of building materials and structures. It is commonplace today to look at building problems in this way, but it certainly was not so when we started to develop a logical approach in the early 1930's. Without his inspiration and enthusiasm the difficulties of the task would have defeated me. In common with very many of his own colleagues I shall miss him keenly as guide, philosopher and friend, in all of which capacities he was almost unrivalled.

RIBA

Library Group Meeting

The RIBA Library Group meeting at 6 p.m. on February 11, at 66, Portland Place, W.1, will be devoted to the work of George Edmund Street, R.A. (1824-81), and will be introduced by H. J. Goodhart Rendel, a past president of the RIBA. Drawings on

display will include those of Carlisle and Edinburgh Cathedrals, the Guards Chapel, and a number of churches, including St. John the Divine, Kennington and All Saints', Middlesbrough; several of Street's sketch books will also be on view.

The next meeting of the Library Group will be devoted to the identification of drawings possessed by the RIBA Library.

MOHLG

Report on "Living in Flats"

A recommendation that homes for as many people as possible should be provided in houses and maisonettes, even in areas where there must be high densities of building, is contained in a report sent by the Minister of Housing and Local Government, Harold Macmillan, to local authorities in England and Wales concerned with the building of flats. The report is the work of a sub-committee of the Central Housing Advisory Committee under the chairmanship of Henry Brooke, set up to consider the social needs and problems of families living in large blocks of flats. It may be obtained from HMSO at 1s. 6d.

ICA

Sculpture Competition

Henry Moore gave details last week of the first world-wide sculpture competition ever to be held. It is sponsored by London's Institute of Contemporary Arts. Prizes totalling £11,500 are offered payable in any currency in any country. Already 74 countries have agreed to take part and nine judges have been invited to form a jury.

The subject of the competition is the "Unknown Political Prisoner." Details of this, together with the rules of the competition, are given in a prospectus in English, Russian, French, German, Italian, Spanish and Portuguese.

Eighty maquettes will be selected for exhibition in London. The sculptor of each of the accepted entries will receive £25. From these will be chosen four prize-winning sculptures, each of which will be awarded £1,000. There will also be eight honourable mentions, each carrying an award of £250.

Following the selection by the jury, the four prizewinning sculptors will be given time in which to execute their sculptures on a large scale, and from these four the jury will finally choose the grand prize winner, who will receive an additional £3,500.

The donor of the prize is anonymous.

BIRMINGHAM

First City Architect

A. G. Sheppard Fidler, chief architect of the New Town of Crawley, has been appointed the first city architect of Birmingham.

Mr. Fidler trained at the Liverpool School of Architecture and made history by winning both the Rome and Victory scholarships in one year. He also studied civic design at Liverpool with Sir Patrick Abercrombie and holds the University Diploma in Civic Design. After two years' study at the British



A. G. Sheppard Fidler, Birmingham's first City Architect

School at Rome, and travel in Europe and America, he worked in the offices of various well-known architects, and was then, in turn, chief architect to the Land Settlement Association, Barclays Bank, and at Crawley.

DIARY

Annual AA Exhibition of Photographs by Members. At 36, Bedford Square, W.C.1. Monday to Friday: 10 a.m. to 6 p.m. Saturdays: 10 a.m. to 1 p.m. UNTIL FEBRUARY 22. *Space Frames and Stressed Skin Construction*. F. J. Samuely. At 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m.

FEBRUARY 12

The Landscape Architect in Continental Practice. Kenneth Booth and D. L. Anderson. At 28, King Street, W.C.2. (Sponsor, TCPA; Student Planning Group.) 6.30 p.m.

FEBRUARY 14

In the talk published here, which Robert H. Matthew gave to students at the RIBA on Tuesday, the author discusses the workings of a public architectural office and the relationship between the public architect and the public client.

ROBERT MATTHEW

The Public Architect

Looking over some recent addresses, presidential and otherwise, I re-read one given by Michael Waterhouse in 1950; at that time he was not long returned from touring America with the British building team, who were all much impressed with the architect-builder-client relationship, particularly in relation to jobs where all three were in partnership, so to speak, before designing work started. And so, on that occasion, as president, Mr. Waterhouse chose as his subject that aspect of the architectural world that could hardly fail to interest most students looking forward to future practice, namely, clients.

I read this paper with great interest, not only because I happened to be a member of the same building team, and therefore appreciated his acute references to American practice, but even more so on account of what he left out.

As a private architect—a third generation of private architects—Mr. Waterhouse naturally had in mind the private client, and he had very sound advice to give on "How to Treat your Client," with all his idiosyncrasies and weaknesses, *when you found him*. And it is the significance of these last four words that gives me my theme, for I propose to take up the same story but from another angle, namely, that of the public client, and to add to it some references to the public architectural office.

THE GROWTH OF PUBLIC ARCHITECTURE

With every passing year the private client becomes more and more elusive, and this New Year has been no exception; in fact, since the recent standstill on licences, many architects must be wondering if they will ever see a private client again. On the other

hand, the volume of public work is immense, and public clients ever increase in numbers and in variety of form and type.

This is not to say, of course, that all public work is carried out, or will be carried out, by public offices. Indeed, the inquiry carried out for the RIBA in 1949 into the present and future of private architectural practice pin-pointed the fact that a considerable volume of public work is in the hands of private architects. But at that time—in 1949—it was estimated that roughly 40 per cent. of the whole profession was engaged in public offices, slightly over 50 per cent. in private practice, and the remainder in teaching and other activities.

If one can gauge the situation now in relation to the census carried out in connection with that inquiry, at least half of you will probably go into public offices of some kind—probably more, unless the bottom drops out even of public work; and so, one way or another, the majority of you will almost certainly come to take a considerable interest in some manifestation of the public client.

I have mentioned variety of form and type; you may have noticed a week or so ago that THE ARCHITECTS' JOURNAL this year will give special study to the problems of the public architectural office, and the first job of the group of guest editors (who are all architects in public offices) was to review the various kinds of public building clients. The list is considerable, beginning with central government offices—a great variety of these and an even greater variety of work (the Ministry of Works alone covers a span from the China Station with its far eastern embassies to great research plants at home). There are the hospitals and the nationalized industries, the Coal Board, the railways, the air lines, the electricity concerns with their vast programme of high priority power stations, the Forestry Commission with its new forestry villages, the Highland Hydro-Electric Board—what an opportunity there for putting Scotland right on the architectural map, as TVA did at the time in America.

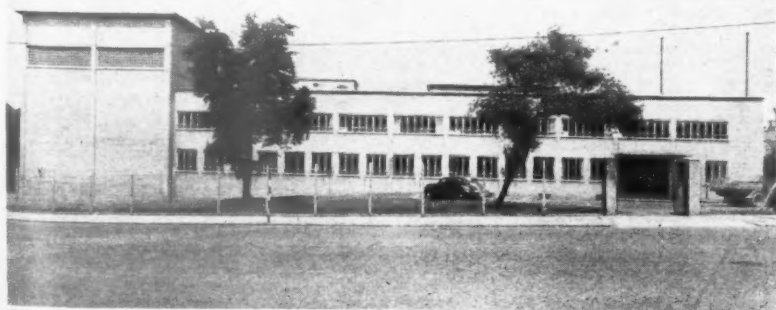
Then the New Towns—they still have more of a future than a past, but some are now getting well under way, after rather a slow start; and in Scotland and Northern Ireland the Special Housing Associations—unusual bodies, with great scope, national in character; all these and many others represent in the aggregate architectural opportunity on the grandest of scales.

In addition to this, to round off the picture, there are, of course, the more modest spheres of the local authorities, rural and urban, again presenting a variety of organization and scope of responsibility. They range from the fortunate and enlightened authorities where the architect is fully in charge of all constructional and planning operations to those (and I will not attach appropriate adjectives) which I think are disappearing, where the architectural work is carried out by an embarrassed junior in the department of some other official—who is probably, at times, equally embarrassed!

The architectural work of local authorities is too well known to mention in detail; I would just remind you that it can vary—depending on the degree to which the particular authority takes its visual problems seriously—from the design of lamp standards and litter baskets and street furniture to city redevelopment and redeployment on the widest scale, and with almost everything in between.

Obviously, to look closely at all these clients is well beyond both my time and capacity: I will not apologise, therefore, for taking as my sample, in a general way, though not in every detail, a local authority which I know well.

Now and again, I am surprised to find that some people expect that the controlling individuals, in the form of Ministers of



This nuclear physics research laboratory at Liverpool, designed by Prof. W. Holford, has a basement, ground floor, first floor and high tension sections. (Framework, structural steel; floors and roofs, precast concrete beams; walls, cavity brickwork with specially selected facing bricks.) It will be fully described and illustrated later.

State, committees, boards or councils, will be technical or professional experts in the particular field of activity concerned. This is not the way of British administration, and this fact, in the opinion of many both here and abroad, is of some importance to the successful working of our domestic democratic institutions.

Members of these bodies are elected or nominated for a variety of reasons, but mainly for the common sense and understanding which enables them to represent the large numbers of people who—because of sheer numbers—cannot be individually articulate. The detailed knowledge required is expected from hired servants—the officials.

THE COMPOSITE CLIENT

Such, however, is the complexity of this British way of official life, that it often happens that the public client becomes a multiple one, involving both laymen and officials. In the field of housing, for instance, this composite client, in my case, is represented by three distinct organizations.

There is, first, the estate management organization, the official department of the council responsible for the day to day problems of management, whose accumulated knowledge of how people live and use their homes and gardens and other facilities, and of the behaviour of the buildings themselves in use, can be of the greatest value to the architect in designing new schemes.

Then, secondly, there is the Council itself, the elected members, acting through several committees—mainly housing, town planning and finance. The architect in charge of particular schemes will be expected to attend meetings of these committees to speak up for his plans, and you may be surprised at the first-hand knowledge that committee members have on all aspects of building.

It is unwise to talk down to your committee; on the other hand, many things that may appear to you to be obvious will need explaining; you would do well to develop the facility to put your ideas across, briefly, but clearly! Above all, be definite. Let in decision or lack of conviction appear, and your cherished scheme may be rent in pieces, or, in committee language, "referred back for reconsideration." It is also useful to remember that the layman is firmly convinced—not without some reason—that experts were born to disagree. Some considerable tact and foresight is frequently required to ensure that all officials speak with one voice, even if they are not all of one mind—an object not so easy to achieve as it may sound. The architectural angle may be only one among many—some more acute and some more obtuse than others!

It is a popular idea that public authorities tend to spend money recklessly; a few minutes at a finance committee meeting will soon dispel this pleasant idea rapidly. A recent building scheme included a tall block of flats which—*à la mode*—stood on pillars. The accompanying financial statement contained, perhaps unwisely, an item showing the exact cost of elevating the building. The chairman of the finance committee concerned asked the architect responsible for the design just why he had thought it necessary for the council to spend *x* pounds on hoisting the building off the ground, instead of allowing it to rest on the earth in the normal and less costly way.

Well, of course, there were several good reasons why this should have been done; but, faced unexpectedly with the question, the architect took several obvious seconds to marshal his reply, and quite a considerable time longer to convince the committee he was right!

ESTIMATING IN PUBLIC OFFICES

I must tell you that in most public work today the X-ray eye of the finance committee penetrates deeply both into estimates and accounts, and I would just like to say one word about estimating. Of all things that committees dislike—and here they may differ

from the average private client, for they see a never-ending succession of schemes—probably they dislike most of all a constant excess of costs over estimates. Sometimes, it must be said, this is the fault of the clients themselves. A sudden request for a spot estimate is given which, once put on paper by the unwary architect, inevitably comes back later like a boomerang. No amount of qualifications inserted to safeguard the position can completely obliterate that fatal figure from the mind of the committee. One advantage of the large public office, where the quantity surveyor works continuously as part of the building team, is this—the art of accurate estimating can be elevated to a very high level. But beware of the "spot" figure! Much better to say frankly you don't know and avoid that boomerang.

Thoughts on costs lead me, perhaps in not altogether a happy way, to the last of my hydra-headed clients—the government departments responsible for particular services. Theirs is a great responsibility; they must seek to maintain standards on a national basis and, today above all, must try to ensure that the national ration, in terms of labour and materials, meagre and insufficient as it is to satisfy all, is spread equitably where it is most needed.

It is in some ways an unenviable task, inevitably saying "no" on many occasions to enthusiastic architects; cutting, pruning, and sometimes completely eliminating. Plans may be changed time and again, in order to get marginal savings, and this is always a heartbreak to the designer. Some departments, however, have taken a sensible line about this, and have set up development groups—such as Johnson-Marshall's notable team in the Ministry of Education—for the precise purpose of converting a negative attitude of regulation into a highly charged positive one of guidance. Remember that the central department is no less part of your client than your immediate employer; if treated as such, it will come more than half way to help.

In the '30's there was a feeling that government departments had about them a whiff of public works administration—and PWA, in this connection, meant a refuge from the storms of economic distress, a safe haven where those unfortunates who fell out of the private practice boat could find sympathetic shelter for a while until they could come out again with the sun. This feeling was probably stronger in America than here, and still persists, much to the detriment of public architecture in that country. But, however this may have been the case here then, it is certainly not so today. Some of the keenest architectural minds in the country are in government service, and if their work is anonymous it is all the more to their credit.

THE PUBLIC ARCHITECT'S OFFICE

I would like now to leave the wide field of the public client and devote my few remaining minutes to one or two thoughts about the public architect's office.

The chances are that the office will be larger—often very much larger—than a good sized private office, and size, by itself, presents great problems to the creative mind. Instead of being introduced by a friend to a partner in the firm, perhaps over a glass of beer, for a chat about a job, you may be faced with recruitment board procedure, and the larger the office the more formal this approach will be.

You will, in any case, be sick of examinations, tests, orals and assessors, and you will resent this further ordeal before getting down to work. Furthermore, you will get letters written in rather formal terms. Perhaps they will be signed, not even by the Chief Architect, but by someone called the Establishment Officer. Don't be put off by these formalities—it is impossible to run a large organization equitably and well without something of this kind, especially where competition for entry is keen, as it is in all the well-known public offices today.

The Establishment Officer is, in fact, usually a very human person, with a difficult job to do; he has almost certainly taken endless trouble to find out what the successive waves of young architects are thinking—you don't by any means all think alike—and particularly how new members react to life in the office. I may say that I frequently have pungent remarks quoted back at me by my Establishment Officer at our frequent talks on office organization—he thinks they are good for the complacent souls of the senior staff! I am not going to give you "Hints on How to Appeal to Recruitment Boards"—I have noticed the great variety of possible approaches! But if I were you, I would not take as a model the answer given to me not long ago when I asked an applicant if he would like to add anything to what had already been said: "There's just one thing I would like to say"—and this came very weightily—"in my considered opinion it is quite inconceivable that anyone should be better qualified for this job than myself." I may add that the Board considered that, while this opinion should be respected, it should not necessarily be final.

Of course there are rules and regulations, and some of these will appear to you at first sight irritating and unnecessary. Most of them I think you would later recognize to be reasonable, when seen in the general context of the service as a whole. There is a well-known story in my department—so often told that it must have a grain of truth in it—about Victor Passmore, when he was a junior assistant. He felt that regular hours of work did not suit his temperament, so in order to comply with the attendance rule, he entered in the book for his reason for appearing an hour or two after the rest, "Fog in Channel." Weather was evidently even worse in those days, as fog persisted sometimes for weeks on end! I can't help thinking that today my resourceful Establishment Officer, after a few of these foggy reports, would probably make a very quick check on the Meteorological Office!

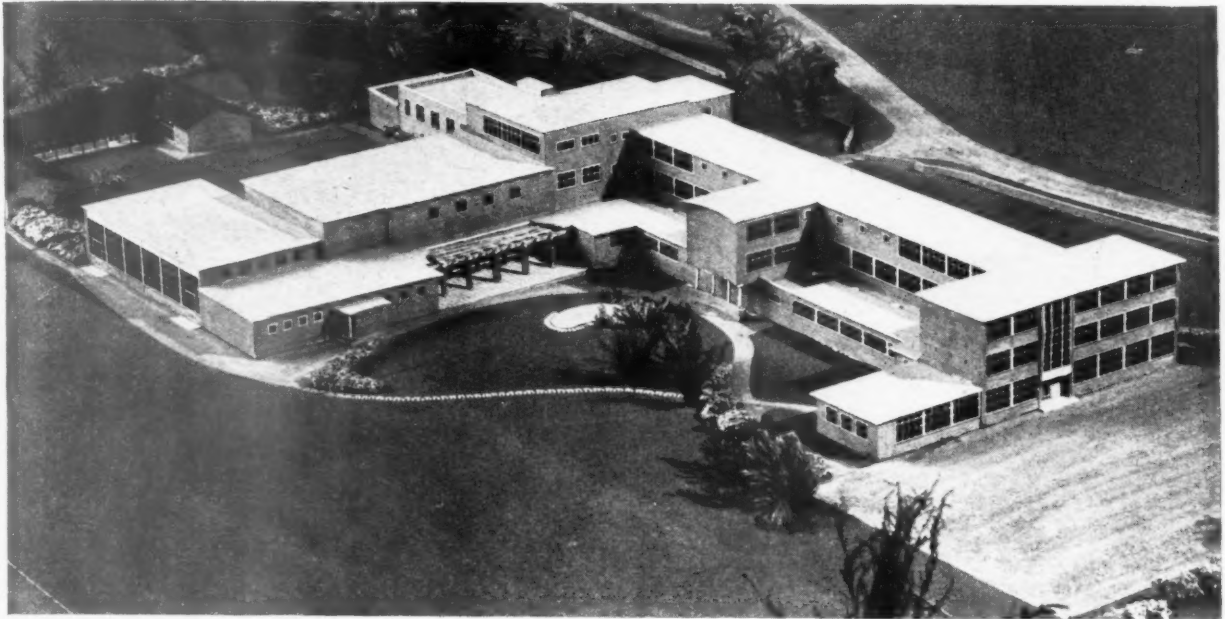
INDIVIDUAL RESPONSIBILITY

I would like, in finishing my address, to touch on the question of individual responsibility for design. (In passing, I should say that this does not always work out well even in small offices—too often junior assistants never get near the job.)

The traditional idea of a Public Department is an anonymous junior at the bottom, sending his work up through a succession of higher and higher architects (their grades are instantly recognizable by the size and pattern of their carpets) until it reaches the Olympian desk of the Chief. His remoteness is such that he is never visible to the human eye—his very name is uncertain, and his history is even more obscure. After a long period of agonizing suspense, the drawings return through the same channels to the unfortunate junior, who is left to do what he can with the mangled remains. This charming cap probably fitted quite a number of official heads in the not too distant past—and still may fit a few today. I can, however, speak from my own experience in the last few years, when I have had the opportunity to guide the development of two very different architectural and planning offices, in central and local government: on both occasions I took some trouble to find out what was happening elsewhere.

Today, up and down the country, there are many offices working on the group method, under first-class leaders, where the most junior member becomes part of a team, seeing the job or jobs through from start to finish. I believe that it is through this method—which can be worked out in detail in many ways—that a sense of responsibility can be immediately given, and the frustrations often thought to be inherent in the

PROPOSED SECONDARY SCHOOL AT LOUGHBOROUGH, LEICESTERSHIRE

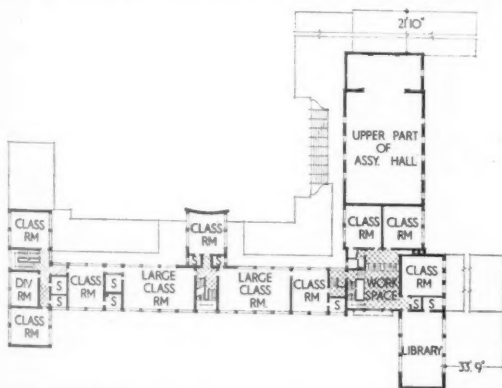


The photograph above is of a model of the proposed Thorpe Acre secondary school, designed by T. A. Collins, County Architect, and E. D. Smith, Assistant County Architect. The site is on high ground on the northern outskirts of the town and affords

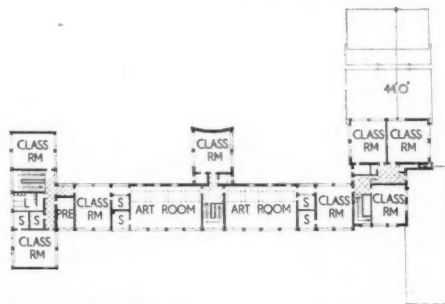
excellent views towards the Charnwood Forest. The three-storey planning leaves the maximum area available for playing fields and gardens. Economy in circulation areas has been gained by staircase access and it is expected that a high intensity of lighting in teaching rooms will enable ceiling heights to be reduced to approximately 9 ft. The kitchen is placed so that

meals for about 500 children can be served in the small hall, part of the foyer and, if necessary, one classroom. Gymnasium changing rooms will be used for theatrical shows in the assembly

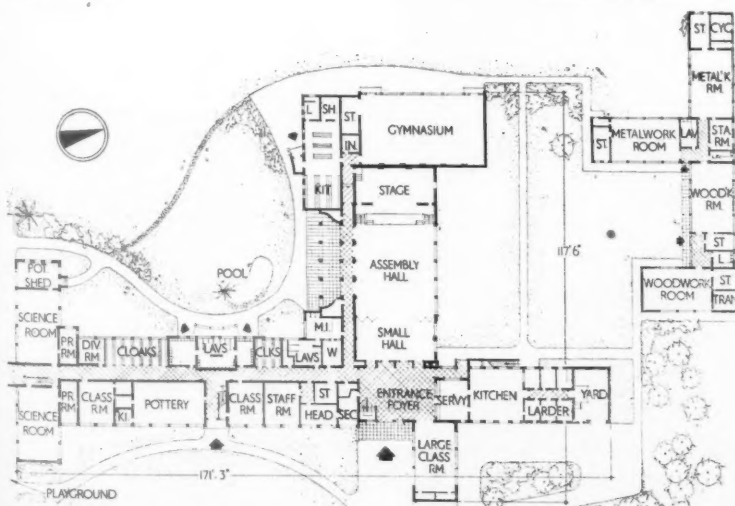
hall. The model photograph below is looking north-west. This is a four-form entry school for a five-year course and the gross cost is estimated to be £156,381, i.e., £229.19s. 5d. per place.



First floor plan



Second floor plan



Ground floor plan [Scale: 1/32" = 1' 0"]



large public office may be avoided. I don't pretend for one moment that all the problems have now been solved—far from it; but you can be assured that a very large number of architects in high official positions are only too well aware of the fatal "cog-in-the-machine" attitude of mind, and are now developing, in a variety of ways, their own solutions. I have spoken of the obvious disadvantages of a large office; let me mention some things that may, on the other hand, be advantageous.

First, the opportunity to meet women and men from many schools, possibly other countries, and consequently a wide range of thought, outlook and experience.

Second, the possibility of working in a team, not only with architects, engineers and surveyors, but with members of other departments directly representing education, housing and the other social services. This aspect of the "client-architect" relationship is, I think, one of the most valuable characteristics of the public office, and one that I am certain will develop to a very great degree in future. I have, unfortunately, not the time to expand this idea, except to say that not the least of the advantages of this very close and continuing relation is the avoidance of architectural isolation—a warning well given by Professor Budden in his address to students in 1948. But I must pass on.

Third is the opportunity for development and research in relation to a continuing programme of work which even the severest of austerity conditions cannot completely shatter, and again I can only just mention as a brief heading this great field of work in which lies the seed, already just breaking the husk, of a major revolution in technique; and

Fourth (by no means least!), the availability of a good administrative staff to take the burden of non-technical work, now the plague and despair of the private office.

IMPROVEMENT IN STANDARDS

My last word will be a warning, which I think is also a sign of hope for architecture in this country. The standard of design ability required in public offices has in the last ten years gone up like a rocket. One has only to compare similar work, such as schools, in public offices in America—so reminiscent of pre-war days in this country—to realise just how much advance has been made here.

A minister of the Crown addressing a distinguished gathering of architects a week or two ago—I won't say where—made the bland assumption, which he evidently thought would go down well in the profession, that "fine architecture," as he called it, inevitably postulated the private client. He was clearly quite unaware not only that this assumption would not be accepted by at least half the profession but, more importantly, that the facts were patently against him.

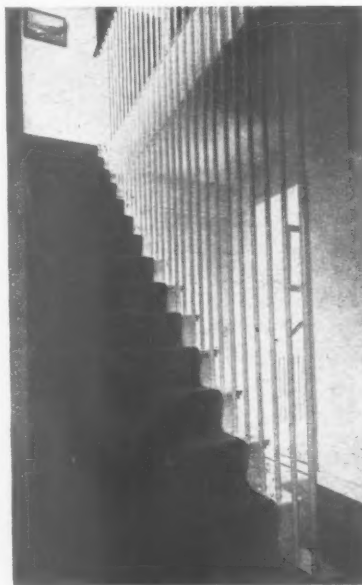
A distinguished Indian architect who had come to this country recently came to see me and I asked him why he had come to work here. "Well," he said, "I hadn't formulated any very clear reason, but it seems natural to-day to look to Great Britain for architectural inspiration." This is a heartening thought, if it is true, and I believe in some measure it is. These are hard times indeed, but I will say this in all seriousness: the stringencies of our circumstances have imposed a severe discipline upon the architect; but this very discipline may enable us to throw off the last accumulated, muddied overburden of the architectural wilderness and to expose the hard, precious metal of conviction that lies beneath.

The public service has no great material rewards to offer; but building is becoming more and more a part of that service. If you enter it, and many of you will, you may find satisfaction in taking part, even a vital part, in this exciting operation.

HOUSE AT HOLBROOK, NEAR

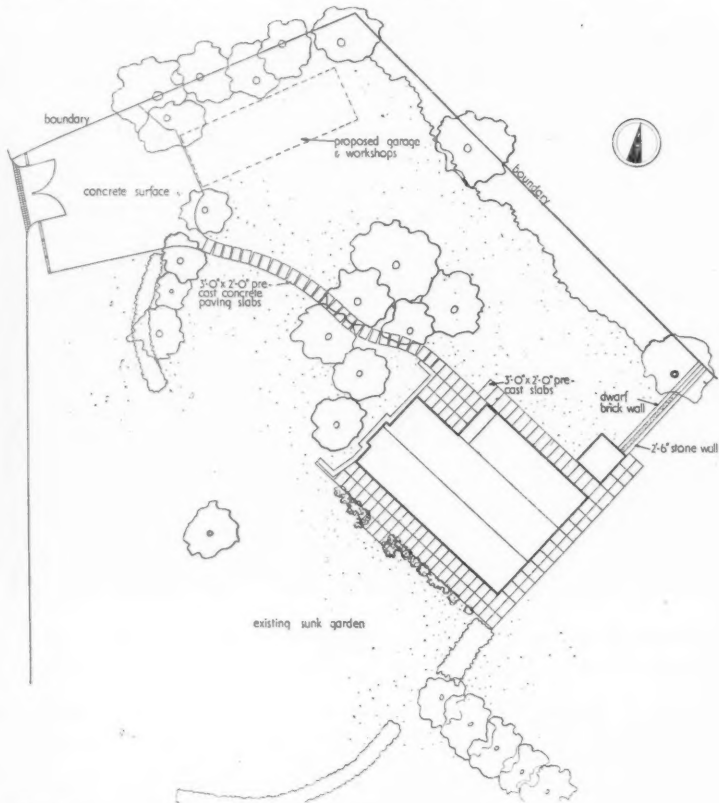


This house, originally designed in 1947, was not granted a licence until 1949 and the licence has not yet been allowed for the fuel stores, covered yard, laundry or bedroom cupboards to be built. The architects, Gordon and Eleanor Michell, have planned the house to take advantage of a magnificent view of hills and a tidal estuary towards the south-west. To the south-east, seen from the breakfast table in the kitchen, is a more enclosed view down the garden to a stream. The house is approached through a grove of Scots pines, which form a background to the horizontal lines of the house and terrace when seen from the garden. The completed plan has a superficial area of 1,496 sq. ft. and the maximum area on the ground floor has been left open, with the possibility of sub-division later by folding doors. The external walls are 10½ in. thick with an outer skin of rendered flint bricks, a cavity and an inner skin of 4-in. no-fines concrete blocks. The roof, which is of nailed, trussed timber rafters at 2-ft. centres, has a 20° pitch and is covered with cedar shingles. The long



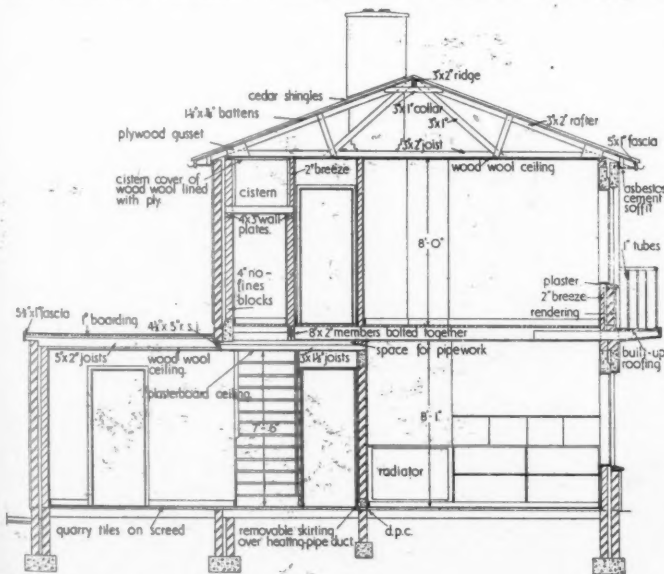
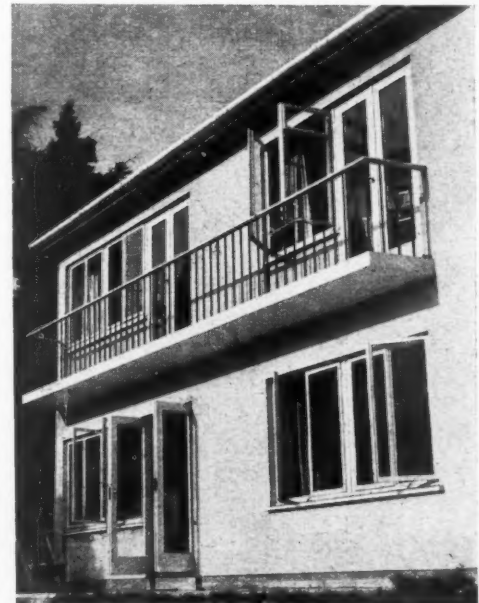
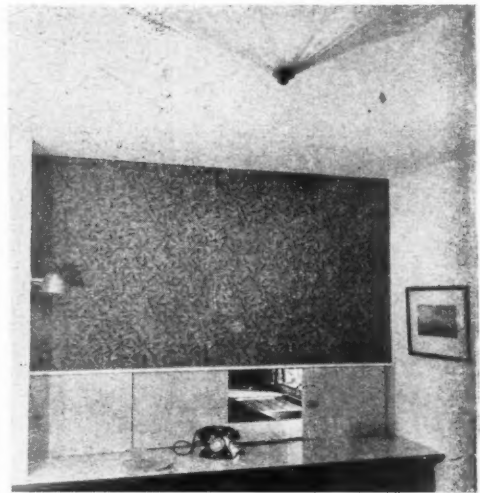
Ground and first floor plans [Scale: 3/32" = 1'-0"]

IPSWICH, SUFFOLK



Site plan

elevations are rendered white, with windows painted yellow, and the gable walls are grey with windows white. The balcony balusters, seen bottom right, are $\frac{3}{4}$ -in. tubular steel painted dark red and the staircase balustrade (bottom, left, on the opposite page) is of similar tubes painted white. The top photograph opposite shows the south and west facades; above, right, is the dining-room wall to the kitchen, which has a William Morris design wallpaper; centre, right, is the porch on the north facade. The general contractors were W. T. Wheeler & Sons, Ltd. For sub-contractors, see page 200.



Section A-A [Scale: $\frac{1}{2}$ " = 1' 0"]

RECONSTRUCTION OF SHOP IN EAST STREET,

Alterations to Messrs. Jaeger's premises at 59, East Street, Brighton have been made to the designs of Charles Kenrick in order to increase selling and display areas for ladies', children's and men's retail clothing. In the new plan the ground floor is devoted entirely to men's wear with a waiting area at the foot of the main staircase, seen in the photograph below. On the first

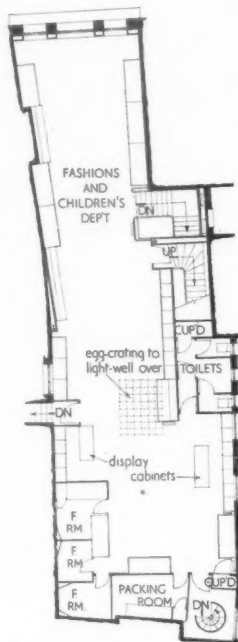
floor ladies' fashions are situated at one end and children's wear at the other, with underwear and wool also on sale. The existing matchboard lining to walls has been covered with plaster board and skim. The shop front, seen above, has pilasters and string course of trowelled cement, sealed and painted navy blue and white. The fascia is 3-in. weatherboarding painted white and with applied bronze lettering. Windows have bronze frames, and the main doors are armour-plate glass with teak meeting rails and on each leaf a gilt letter "J" on main area of glass. Below right is a photograph of the tie display fixture inside the main



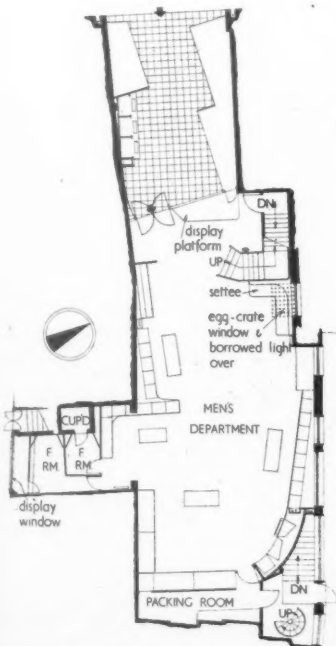
entrance, from which it is protected by a glazed screen to prevent ties being disturbed by draughts. The stairs have treads and handrail in teak, main balusters in matt steel and intermediate balusters and baluster rail in steel painted white. Heating is by gas radiators and electric tubular heating under first floor front windows. There are adjustable glass louvred windows in rear section of first floor and extract fans built into wall vents of front walls for air circulation. The photograph on the opposite page is of the entrance lobby. The general contractors were Cookes (Finsbury), Ltd. For sub-contractors, see page 200.



BRIGHTON, SUSSEX



First floor plan



Ground floor plan [Scale: 1/4" = 1' 0"]



This feature covers aspects of legislation, parliamentary news or statutory rules and regulations which are of special significance to the architectural profession. This week Ernest Watkins deals with the second and final report of the Local Government Manpower Committee.

ERNEST WATKINS

The Architect and Current Affairs,

THE MANPOWER COMMITTEE'S REPORT

The Local Government Manpower Committee was appointed in January, 1949, to see how man-power could be saved, between the Central Government and local authorities, by examining the distribution of functions and the possibility of relaxing supervision from the centre. Its first report was published in December, 1949; its second, and final, last month. The three years of labour have produced a rather mixed litter, particularly on this second occasion, but three of the papers in the last report are of direct interest to housing and planning.

REGIONAL ORGANISATION

The first of these is the regional organization of government departments. The local authorities complained—and they are not the only people who have done so—that, in general, the regional officers of departments had not sufficient authority. Matters had first to be discussed with a regional officer, who could not give a decision. Then they had to go to head office and the work had to be done all over again.

The departmental reply is, first, that the regional organization has two purposes, to give decisions where it can but also to pass information back to head office. It was, therefore, no criticism that the regional officer had to be consulted even though he could not give a decision. The second argument is that the general plan has been to devolve greater power and responsibility on local authorities themselves; not to maintain control from the centre in its present detail but to exercise it through a regional organization. Therefore, even where possible, it would not be an advance to widen the powers of a regional officer. Regional

organizations were not to be regarded as good things, from an administrative point of view, in themselves.

There are the two sides of the argument; the report offers no verdict. It is true that we are governed nationally, not regionally (with reservations, *pace* the Nationalists, where Scotland is concerned). But the process of devolving greater power on the local authority is inordinately slow, and for that there is one main reason: the present unsatisfactory structure of local government itself. This report attempts only to paper over some of the cracks.

Still, it should be recorded that the new T & CP (Development by Local Planning Authorities) Regulations, 1951 (SI 1951 No. 2069), made at the end of last year to replace the 1948 Regulations, does free the hands of local authorities in the carrying out of their own developments. Subject to an understanding that they will themselves "bring important and controversial proposals to the Minister's attention," they have general power to go ahead with development without referring every case to the department.

THE DISTRICT VALUER

The second point in the Manpower Report is on the position of the District Valuer. Local authorities wanted greater use made of their own valuers, the departments holding out for a policy under which virtually all valuations of property, for purchase compensation, or for sale or renting, would be made by the District Valuer. Again, the root of the dispute was left out of sight; no one was rude enough to put into writing that District Valuers are overworked and therefore slow in producing their valuations. But, here, the weight of the arguments does seem to be on the departmental side. Local authorities may be reluctant to face the fact, but in truth, since the Local Government Act of 1948, the task of making all official valuations has passed to the Inland Revenue valuers. Once they were made responsible for rating valuations, we have, whether we like it or not, a national land valuation system, and at least it is sensible to take advantage of the uniformity in valuation that should provide.

DELEGATION OF PLANNING PERMISSION TO DISTRICT COUNCILS

The third point in the report is the question of delegation of planning permission, from the main planning authority, the county council, to the district councils under it. The report includes a memorandum from the local authority side on this, a practical, working document. It favours the full delegation of detailed work wherever this is possible, based on the premise that the "control map" of the county council (its current development plan) should be sufficient to guide the district council in the vast majority of cases. Subject to that, the kind of proposed development that should go to the county council for approval would be new industry or large industrial expansion, mineral working and developments on the boundary of an adjoining area. This proposal—it is, no doubt, already a working scheme in many areas—does make the fullest use of the county's development plan, as should be done. It also leaves with the district council the whole range of detailed protection and of enforcement, which is, as I have argued before, properly a local responsibility.

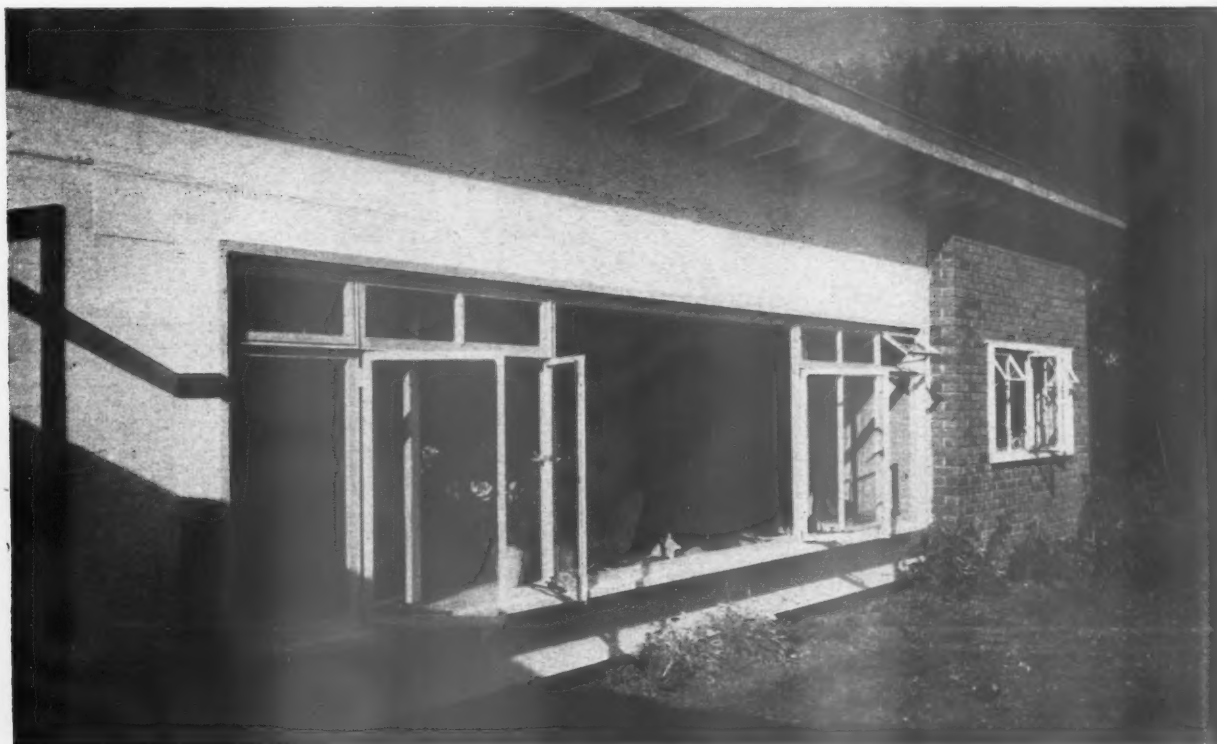
The most encouraging feature of this report, as a whole, is not, I fear, any suggestion that an overhaul of the whole machine is near. Any thought of that, if existent, was rigidly repressed. It is that all the proposals, large and small, are directed towards breathing back as much life as possible into local government, by increasing the responsibilities that, naturally and practically, a local authority should discharge. May that process, at least, continue.

HOUSE

at WALBERSWICK, SUFFOLK
designed by FELIX WALTER

This single-storey house was designed so that the client, an artist, who was disabled in the war, can reach all parts of it in his wheel-chair and can turn the chair and take it through door openings (35 in. wide) without difficulty. A small part of the living area is screened off as a studio.

The twenty-foot living-room window, which overlooks the marshes and sea to the south.



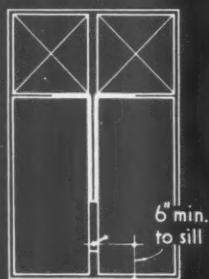
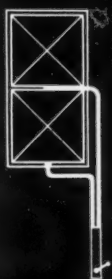
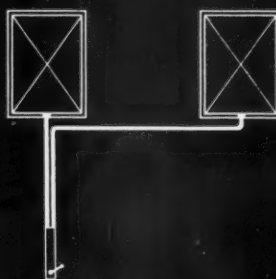
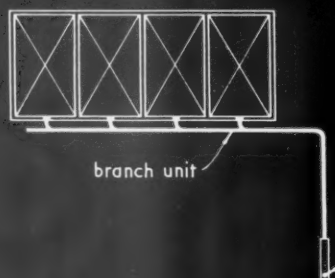
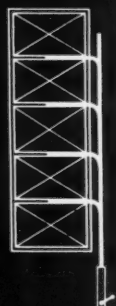
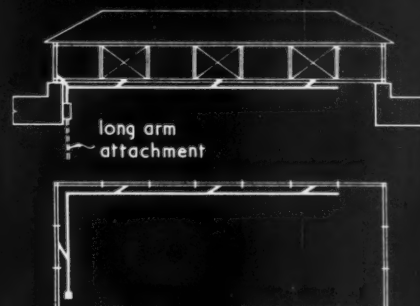
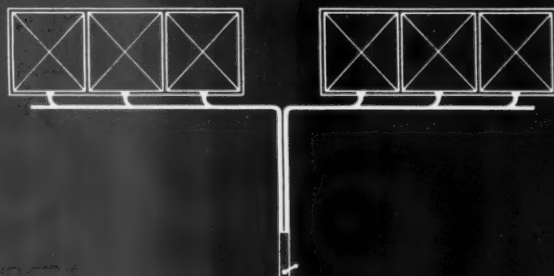
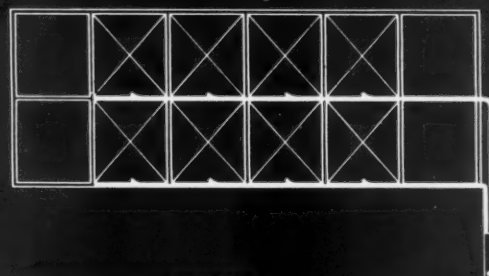
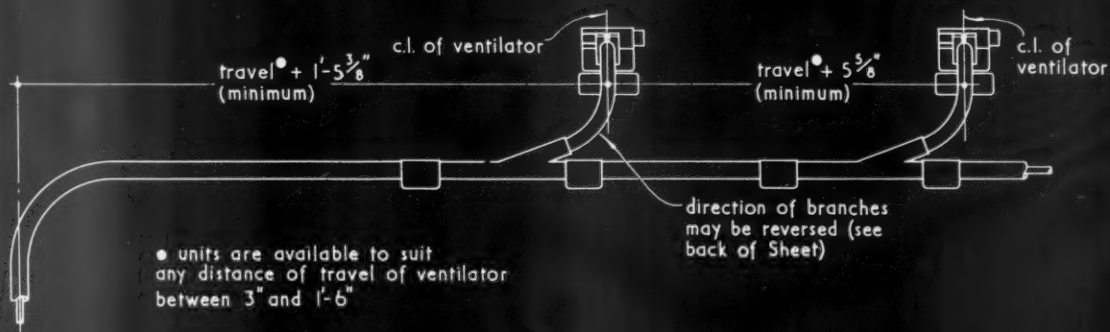
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WINDOWS | CONTROL SYSTEMS**24.S2**

The Architects' Journal Library of Information Sheets 349. Editor: Cotterell Butler, A.R.I.B.A.

transom-operated
for h.c.h. or t.h.sill and transom-
operated for h.c.h. or t.h.sill-operated
for h.c.h. or t.h.head-operated
for b.h. only**TWIN CONTROLS.**sill-operated
for h.c.h. or t.h.transom-operated
for h.c.h. or t.h.sill-operated
for h.c.h. or t.h.**MULTIPLE CONTROLS.**sill-operated
for h.c.h. or t.h.sill and transom-operated
for h.c.h. or t.h. (end lights fixed)**COMBINED TWIN AND MULTIPLE CONTROLS.****DETAIL OF BRANCH UNIT SHOWING FIXING DIMENSIONS.****ARENS WINDOW CONTROL: TWIN AND MULTIPLE TYPES OF UNIT.**

Manufacturer: Arens Controls Limited

24.S2 · ARENS' SYSTEM OF WINDOW CONTROL : TWIN AND MULTIPLE TYPES OF UNIT

This Sheet, the second dealing with the Arens system of window control, describes twin and multiple units which control two or more ventilators. Sheet 24.S1 describes the unit controlling single ventilators.

Construction

Control: The control consists of a tightly compressed galvanised inner spring coiled round a tinned steel cable. This moving inner member is housed in a $\frac{1}{8}$ -in. square or round outer casing which may be bent to any profile, minimum radius $1\frac{1}{8}$ in. (For heavier work a $\frac{1}{4}$ -in. round conduit is available, minimum radius 2 in.) The inner member is connected to the ventilator bracket by means of a cadmium-plated steel trunnion, allowing the projecting portion to follow the arc described by the ventilator as it opens.

Operating gear: The method of operation is by means of a crank handle and worm gearing. Handles can be fixed or detachable and may be obtained with extended shafts up to a maximum length of 10 ft.

Types of Unit

Twin Unit: This makes it possible for two cables to separate ventilators to be operated by one handle.

Multiple Unit: This consists of a single main cable with branches at intervals operating banks of ventilators up to a maximum of ten. The length of each branch must not exceed 4 ft. Where it is necessary to reduce the horizontal distance between the control point and the centre line of the first ventilator the direction of branches may be reversed ; in this case the minimum dimension must be, travel + $1\frac{3}{8}$ in.

Typical twin and multiple installations are given in the diagrams on the face of the Sheet.

Fixing

The control tubing is fixed to the window frame, sub-frame or surround and the end of the cable is

attached to the ventilator. The gearbox may be fixed flush with, or projecting from, any surface. The whole of the control tubing may be concealed behind panelling or plaster work.

Finish

The standard finish of the outer casing is unpolished brass or aluminium alloy ; the operating handle and gearbox are in brass and can be toned or plated as required.

Orders

The following information should accompany orders for Arens Controls :—

Method of hanging, i.e., top hung, bottom hung, horizontal centre hung, side hung or vertical centre hung.

Elevations, stating whether external or internal.

Relevant large-scale sections through window and surrounding work showing depth of reveal.

Height from floor or operating level to sill or any other stated datum.

Position and details of all obstructions such as cockspur fasteners and casement stays—where these occur, possible alternative runs.

Check quantity—total number of ventilators to be operated.

Compiled from information supplied by :

Arens Controls, Limited.

Address : Tunstall Road, East Croydon, Surrey.

Telephone : Addiscombe 3051-4.

Telegrams : Unicontrol, Souphone, London.

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The Architects' Journal Library of Information Sheets.

Editor: Cotterell Butler, A.R.I.B.A.

ALUMINIUM AND ALLOYS: APPLICATIONS 2

Alloy designations are according to British Standards for General Engineering Purposes 1470 to 1477 and 1490.

Application	Required Characteristics of Metal	Recommended Aluminium or Aluminium Alloy and Manufactured Form	Surface Treatment or Finish—General Remarks
Internal wall and ceiling panels and partition covering.	Medium strength, light weight, incombustibility, satisfactory appearance, rolled surface finish suitable for decorative requirements.	Sheet : pressed, rolled and embossed. 1C N3 N4 H10.	Pattern rolled, pressed design; may be painted, stove enamelled, anodised and dyed, lacquered, matt or etched, according to finish required.
Hardware, e.g., window and door fittings.	Medium strength, ease of casting, extruding, hot-stamping, etc., durability.	Extrusions, forgings, pressings, stampings : N6 H9 H10. Castings : LM2 LM4 LM6	Natural, painted or anodised depending on environment and also the finish required.
Sinks, draining boards, lavatory basins, wastes and traps.	Medium strength, ease of casting or working, durability, satisfactory finish with ease of cleaning.	Pressed from sheet or cast. Sheet : 1C N3 N4 N5. Castings : LM2 LM4 LM6.	Pressed : polished or matt. Cast : die-cast finish, buffed, hammered, or barrelled finish.
Kitchen fittings, cupboards, tables, etc.	Medium strength, ease of working, durability, satisfactory appearance and finish with ease of cleaning.	Formed from sheet and extrusions : stamped or forged. 1C N3 N4 N5 H9 H10. Cast : LM2 LM4 LM6.	Painted, stove enamelled, anodised, polished or matt.
Furniture, showcases, etc.	Medium strength, ease of fabrication, welding, etc., satisfactory surface finish.	Sheet, extruded sections : 1C N3 N4 N5 H9 H10. Castings : LM2 LM4 LM6.	Painted, stove enamelled, anodised, lacquered, polished or matt.
Bas-relief and cast statuary.	Ease of casting, working or cutting, durability, superior surface finish with ease of cleaning.	Plate : 1C. Castings : LM2 LM5 LM6.	Natural cast finish, polished, etc., burnished.
Architectural metalwork, e.g., shop fronts, grilles, balustrading, gates and railings.	Medium strength, ease of forming by extrusion, forging, machining, cutting, filing, etc., ease of welding, fine surface finish.	Extruded sections, sheet and strip : 1B 1C N3 N4 N5 N6 H9 H10. Castings : LM2 LM4 LM5 LM6.	Mechanical, e.g., polishing, scratch brushing, etc. Chemical, e.g., anodising, etc. Painting, e.g., lacquering, stove enamelling, etc.
Rainwater goods.	Medium strength, light weight, ease of casting or strip forming, durability, satisfactory appearance.	Wrought : alloys specified in B.S. 1543:1949. Cast and extruded : alloys specified in B.S. 1430:1947.	Wrought gutters, downpipes normally left untreated but, under very severe conditions, may be painted. Cast gutters, downpipes normally painted but may be left untreated under less severe conditions.
Thermal insulation.	Light weight, high reflectivity with non-tarnishing surface, ease of installation, incombustibility.	Foil : 1A 1B 1C crumpled or pleated.	High reflectivity. Building insulation foil is generally fabricated to proprietary forms.

10.B2 ALUMINIUM AND ALLOYS: APPLICATIONS 2

This Sheet supersedes Sheet 10.B2 published 16.9.48 and is the second of two summarising the applications of aluminium and aluminium alloys. It also describes the forms in which the material is available, and surface finishes and gives a list of manufacturers who are members of The Aluminium Development Association and who supply aluminium and aluminium alloys in their many forms. Sheet 10.B1 gives the first part of the summary of applications together with a description of the characteristics of the material.

Available Forms

Aluminium and its alloys can be supplied in all the common forms in which metals are prepared for working into the final product. These include sand castings and gravity and pressure die castings, plate, sheet, strip, foil, extruded and drawn sections, tubes, rod, wire and rivets, forgings, stampings, and also powder and paste for paint. Suppliers of both cast and wrought alloys are glad to collaborate with the architect in choosing materials in order that the form, composition and properties of the semi-fabricated material supplied will be the most suitable for the purpose envisaged. Thus, extruded sections can be produced of shape and size specially adapted to particular needs, such as window frames, mouldings and balustrades. Castings should be designed in consultation with the founders, whose wide experience will be a guide to the choice of alloy and best method of production.

Surface Finishes

For many requirements the manufactured finish of the material is adequate: rolled strip and sheet, and drawn tubes are smooth and bright; extruded sections do not possess a bright polished surface, but are smooth and clean in appearance. Sand castings are clean though rough, die castings are smooth and can be produced to close dimensional tolerances.

Decorative effects are obtained by polishing, burnishing, scratch-brushing and sand or shot-blasting; a satin finish is obtained by scratch-brushing with very fine wire brushes. All these mechanical treatments enhance the pleasant, natural colour of the metal.

Chemical treatments may be used to yield slight variations in colour or in texture on selected areas of the component. Anodising yields a hard and highly protective finish and a distinctive sheen: the anodic film may be dyed to almost any colour.

Further Information

Details of the specialised products of the following companies may be obtained from The Aluminium Development Association, or by direct application. The Aluminium Development Association maintains a Technical Advisory Service and Information Bureau which is available to answer questions and advise on technical problems.

Manufacturers

Producers of aluminium and alloy ingots, semi-fabricated materials, e.g., sections, sheet, etc., and castings who are members of The Aluminium Development Association are listed below.

Alar Ltd. (an association of light alloy refiners),
3, Albemarle Street, London, W.1.

Aluminium Corporation Ltd.,
Dolgarrog, Conway, Caernarvonshire.

Aluminium Union Ltd.,
The Adelphi, Strand, London, W.C.2.
Northern Aluminium Co. Ltd.,
Bush House, Aldwych, London, W.C.2.

Operating in the U.K.
on behalf of the
Aluminium Limited
group of companies.

Aluminium Wire & Cable Co. Ltd.,
Port Tennant, Swansea, Glam.

Birmid Industries Ltd., and the following associated companies:—

Birmetals Ltd.,
Woodgate Works, Quinton, Birmingham, 32.

Birmabright Ltd.,
Woodgate Works, Quinton, Birmingham, 32.

Birmingham Aluminium Casting (1903) Co. Ltd.,
Birmid Works, Smethwick, 40, Staffs.

Sterling Metals Ltd.,
Northey Road, Foleshill, Coventry.

Perry Barr Metal Co. Ltd.,
Oscott Works, Shady Lane, Great Barr, Birmingham, 22A.

James Booth & Co. Ltd.,
Argyll Street Works, Nechells, Birmingham, 7.

British Aluminium Co. Ltd.,
Salisbury House, London Wall, London, E.C.2, and the
associated company:—

William Mills Ltd.,
Friar Park Road, Wednesbury, Staffs.

High Duty Alloys Ltd.,
Slough, Bucks.

Imperial Chemical Industries Ltd.,
Metals Division, Kynoch Works, Witton, Birmingham, 6.

L.M.F.A. Development Ltd. (a group of companies who are producers of
castings of all types),
25, Bennets Hill, Birmingham, 2.

Richard Thomas & Baldwins Ltd.,
47, Park Street, London, W.1.

T.I. Aluminium Ltd.,
Redfern Road, Tyseley, Birmingham, 11.

Full details of the range of products of individual companies are given in the Directory of Members published by the Association. Member companies do not normally produce finished articles.

This Series of Sheets on aluminium and aluminium alloys gives general data on the properties of the materials and their use in various building applications.

Compiled from information supplied by;

The Aluminium Development Association.

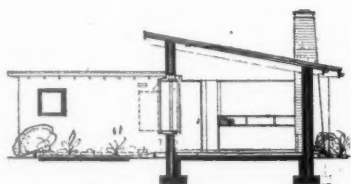
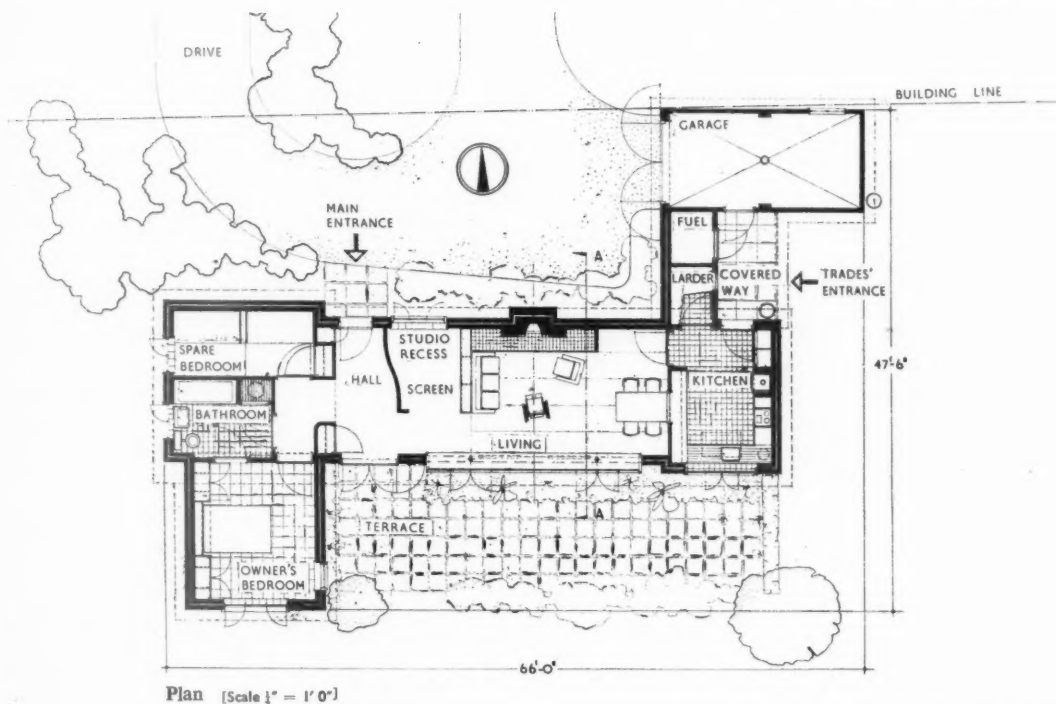
Address: 33, Grosvenor Street, London, W.1.
Telephone: Mayfair 7501-8.

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Another view of the south side. The projecting wing, designed to screen the living area from south-westerly winds, houses the larger of two bedrooms. A paved terrace will eventually be laid here.



Below: the living room. Sawn roof rafters are exposed to make the room seem higher than it is. Part of the studio screen is seen on the left. In the background is the hatch connecting kitchen and living room. The cill of the 20-ft. window on the right is low for the benefit of the client, who is confined to a wheel-chair.



SITE.—The site, of just over one quarter of an acre, is bounded by a road on the north side. To the south is a wide, uninterrupted view of the marshes with the North Sea beyond. A building line of 40 ft.—approximately one-third of the depth of the site—was imposed by the county council. The boundaries of the land were exposed on all sides except the east, which is screened by a high dense hedge—a protection against easterly winds.

PLAN.—The main entrance, the studio recess and the sitting and dining areas are subdivided unobtrusively by screens and fittings. This gives a sense of spaciousness in a house whose floor area was limited in size for financial reasons. Exposed sawn roof rafters are designed to make the living area seem higher than it really is. The two-bedroom "unit," which includes the bathroom, projects from the main block on the south side and screens it from south-westerly winds. All doors—and there are as few as possible—are 35 in. wide, so the client may take his wheel-chair through openings without difficulty. He is able to reach his car comfortably in all weathers, for a covered way leads from the kitchen to the garage, which adjoins the fuel store.



Left: the north side of the house, seen from the road. The window breaking this facade was provided to give a north light to the client's studio—seen below—which is screened off from the living room. Bottom: the living room, viewed from the kitchen. The studio screen is behind the settee in the background.

HOUSE

at WALBERSWICK, SUFFOLK
designed by FELIX WALTER

CONSTRUCTION.—Main external walls: 11-in. cavity, fletton brick. Main roof: one-way pitch, supported by sawn rafters, over which are two layers of $\frac{1}{2}$ -in. insulation board, covered with deeply lapped, non-tear roofing felt, counter and tiling battens and red pantiles. Other roofs: flat and finished with 3-ply felt, laid on rough boarding; beneath are two layers of $\frac{1}{2}$ -in. insulation board, resting upon ceiling joists. Internal walls and partitions: $4\frac{1}{2}$ -in. fletton bricks and breeze blocks. Flooring (except in kitchen): T. and G. deal, on breeze, which rests on a 6-in. waterproof slab with a continuous bituminous membrane between. Main (20 ft.) south window: set in precast concrete projecting frame, the upper members of which are hung from twin RSJ's.

FINISHES.—*External.* Brick walls treated with light buff-peach stone paint. Walls of kitchen (east and south): local red facing bricks. Similar facings for chimney stacks. Four of the metal windows have white stone finished precast concrete surrounds incorporated as frames. Plinth: tar. Fascias, soffits and bargeboards: birch grey. Other paintwork: off white. *Internal.* Walls: finished in plaster and covered with washable distemper, except in kitchen and bathroom, where walls are treated with plastic emulsion coating. Floors: deal boarding (grey carpet in sitting and dining areas); quarry tiles in kitchen; floors in one bedroom and the bathroom to be faced with polished cork tiles. Ceilings: sawn exposed joists, except in kitchen, bathroom, spare bedroom and larder—these have skim-coated plaster board.

Contract price: £2,170 (excluding drive). General contractor: W. Ames, Ltd. Sub-contractors: p. 200.



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SHOWROOMS

in SHAFTESBURY AVENUE, LONDON, W.C.2

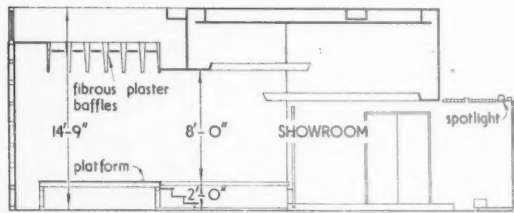
designed by KATZ AND VAUGHAN

New showrooms at 233, Shaftesbury Avenue have been designed for the display and demonstration of incandescent and fluorescent lighting products, wireless and television sets and domestic appliances, which are manufactured by Thorn Electrical Industries, Ltd. Most of the ground floor display area is visible through the large window (right) facing Shaftesbury Avenue.

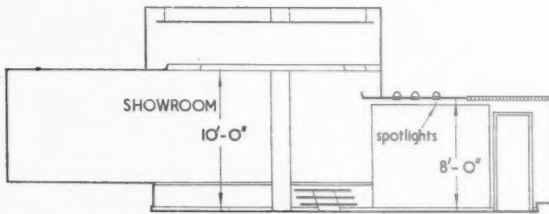


Below, the ground floor showroom from the entrance.

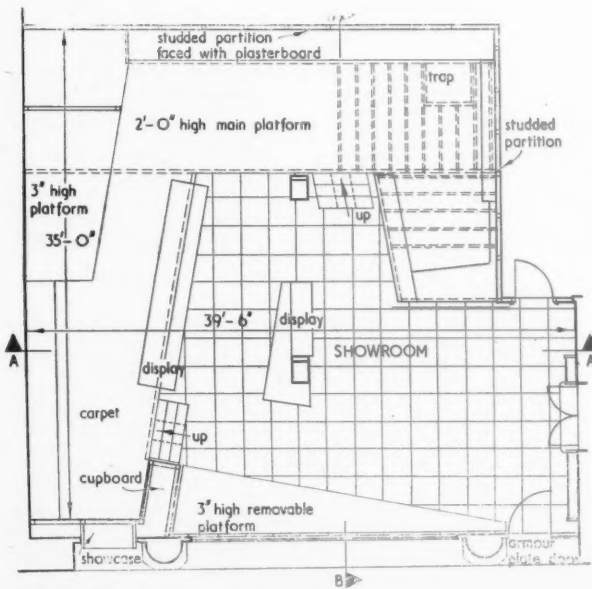




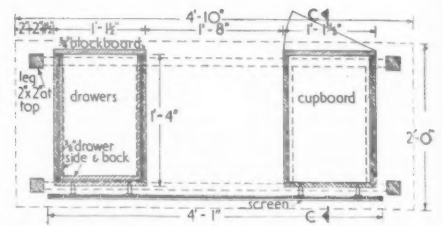
Section B-B



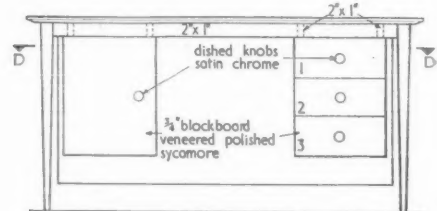
Section A-A



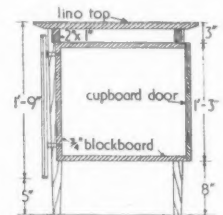
Ground floor plan (Scale: $\frac{1}{16}'' = 1' 0''$)



Plan at level D-D (Scale: $\frac{1}{16}'' = 1' 0''$)



Rear elevation of reception desk



Section C-C

PLAN.—The planning was complicated by the relatively small area available, about 1,200 sq. ft., and the existing structural columns. The ground floor area consists of a central area bordered on three sides by a raised platform 2 ft. high, which serves to segregate the different sections without

Below, left, the ground floor showroom with a feature on the left to show the technique of activating fluorescent tubes. Below, right, display area with two fittings, baffles singly control



SHOWROOMS

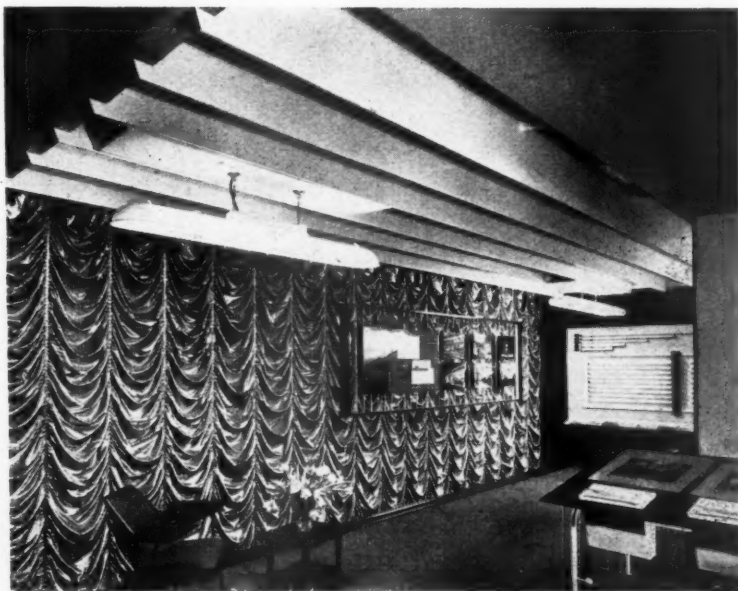
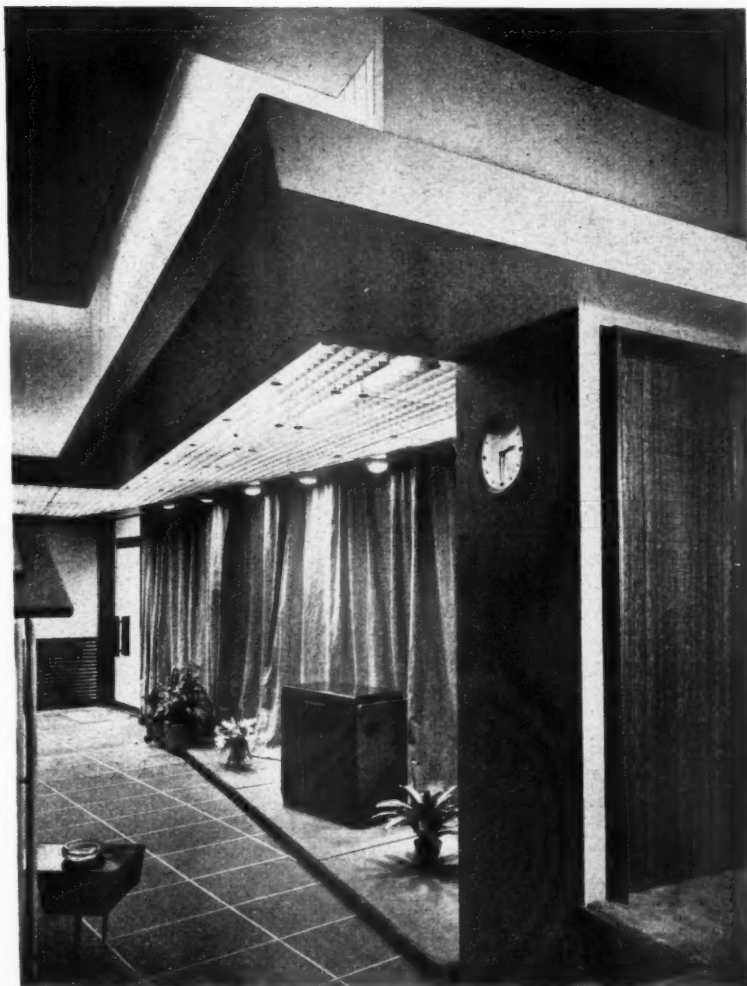
in SHAFTESBURY AVENUE, LONDON, W.C.2

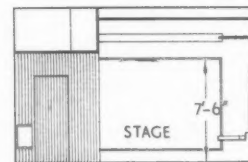
designed by KATZ and VAUGHAN

the use of partitions. Different ceiling levels are used to demonstrate the use of concealed lighting, "egg-crate" fittings, etc. In the basement is a demonstration theatre with a miniature theatre stage.

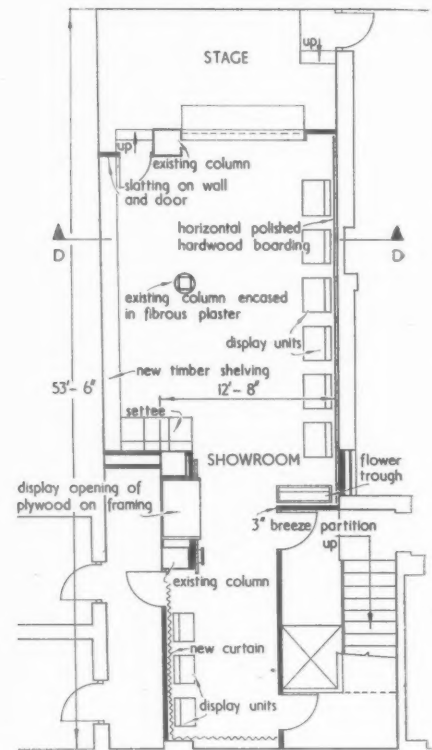
FINISHES.—The new front to the showroom almost eliminates the stall riser and enables most of the showroom to be seen from the street through a large single sheet of glass. The fascia shows the company's principal trade names in blue neon lighting against Italian marble. On the right of the showroom entrance is a specially designed reception desk, behind which is a panel of macassar wood forming a background to an outline map of England, Scotland and Wales in metal relief showing the location of the client's various activities in the United Kingdom. Walls are plastered and either painted or papered, and floors are covered with $\frac{1}{4}$ -in. linoleum tiles. Over the rear raised platform is an original arrangement for demonstrating a range of 26 fluorescent fittings, which are concealed from view between ceiling baffles. At the touch of a switch one or a number of these fittings are lowered and lit up. In the basement the main

Right, ground floor with the curtained display window on the right. Below, two views of the display of fluorescent fittings, which are concealed behind baffles until lowered (seen below, right) singly or in groups by press-button control.





Section D-D



Plan of basement (Scale: $\frac{1}{16}'' = 1' 0''$)

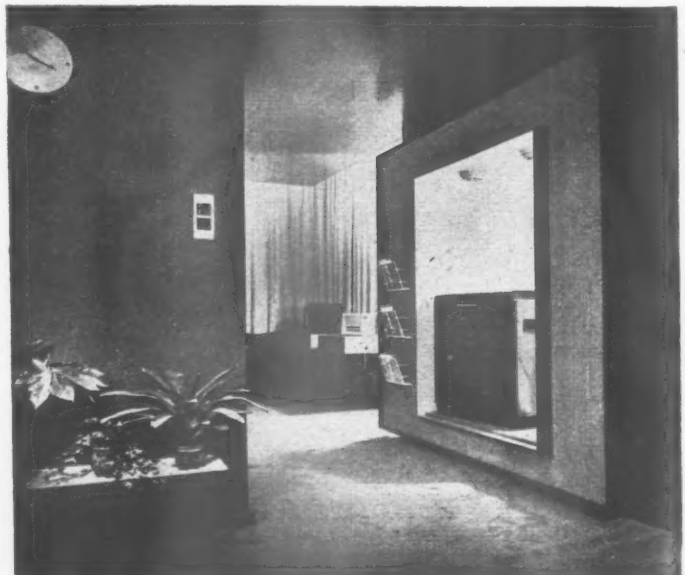
SHOWROOMS

in SHAFTESBURY AVENUE, W.C.2
designed by KATZ and VAUGHAN

colours are lemon yellow and grey, and the wood is mahogany. On one wall are adjustable trays for television sets.

The general contractors were Westminster Joinery, Ltd. For sub-contractors, see page 200.

Above, left and below, three views of the basement demonstration theatre for showing television sets and radiograms.



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TECHNICAL SECTION

As far as can be judged from information at present available, little, if any, of the steel Mr. Churchill has obtained from the United States will be allocated to the building industry. Every effort must, therefore, still be made to economise in the use of steel for constructional purposes.

Architects would do well to refer back to the DSIR's Wartime Building Bulletins. Ignoring the sections on ARP requirements, which, it is to be hoped, we shall not need again, there is much in these bulletins on this subject. In Bulletin No. 10 can be found tables comparing the quantities of steel required for different methods of construction. It is recommended that wide spans be avoided; that beams be as deep as possible; that welded joints be used; that tubular steel be used for trusses and purlins and, of course, that steel or R.C. framing be avoided wherever possible.

These may seem retrogressive steps, but it is better to economise in steel, by using structural techniques which require less, than to reduce the building programme.

R. FITZMAURICE

This week's
special feature

8 ESTIMATING measured rates

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

PRELIMINARIES

To all valuations for measured work add for Preliminaries, Water and Insurances, according to the nature of the job (say) 10%

EXCAVATOR

Excavation

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

Surface digging, 6" deep	per yard super	-/10
Ditto, 12" deep	per yard super	1/8
Excavating not exceeding 10' 0" deep to reduce levels	per yard cube	6/9
Excavating not exceeding 5' 0" deep to form basement	per yard cube	7/7
Ditto, exceeding 5' 0" and not exceeding 10' 0" deep ditto	per yard cube	10/11
Excavating not exceeding 5' 0" deep to form surface trenches	per yard cube	9/3
Ditto exceeding 5' 0" deep and not exceeding 10' 0" deep ditto	per yard cube	12/7
Excavating not exceeding 5' 0" deep to form basement trench, commencing 10' 0" deep	per yard cube	15/11

EXCAVATOR—(continued)

Disposal

Returning, filling and ramming around foundations	per yard cube	2/11
Wheeling excavated soil not exceeding 100 yards and depositing	per yard cube	3/4
Ditto and spreading and levelling	per yard cube	4/4½
Ditto, ditto, and consolidating to make up levels under floors and pavings	per yard cube	5/6
Filling into lorries and carting away	per yard cube	11/7½

Planking and Strutting

Planking and strutting to sides of surface or basement excavation not exceeding 5' 0" deep	per ft. super	-/6
Ditto not exceeding 10' 0" deep	per ft. super	-/8
Planking and strutting to sides of surface trenches not exceeding 5' 0" deep (both sides measured)	per ft. super	-/1¼
Ditto not exceeding 10' 0" deep (ditto)	per ft. super	-/3

CONCRETOR

Concrete (Basic Prices)

Portland cement concrete 1 : 3 : 6 with 1½" coarse aggregate in foundations and masses exceeding 12" thick	per yard cube	60/9
Ditto 1 : 2 : 4 with ¾" coarse aggregate ditto	per yard cube	62/-

CONCRETOR—(continued)

Add to Basic Prices for :—

Working around rod or mesh reinforcement	per yard cube	3/4
Being in beds less than 12" thick (6"-12")	per yard cube	1/8
Ditto less than 6" thick (4½"-6")	per yard cube	5/-
Being in small quantities not exceeding 3' cube	per yard cube	13/5
Being in suspended floors and roofs	per yard cube	10/1
Being in walls not exceeding 6" thick	per yard cube	16/9
Ditto exceeding 6" but not exceeding 12" thick	per yard cube	11/9
Ditto exceeding 12" thick	per yard cube	8/4½
Being in lintels, beams, etc., not exceeding 72 sq. in. sectional area	per yard cube	25/2
Ditto exceeding 72 and not exceeding 144 sq. in. sectional area	per yard cube	20/2
Ditto exceeding 144 sq. in. sectional area	per yard cube	16/9
Being in columns not exceeding 72 sq. in. sectional area	per yard cube	31/10
Ditto exceeding 72 and not exceeding 144 sq. in. sectional area	per yard cube	25/2
Ditto exceeding 144 sq. in. sectional area	per yard cube	20/2

Formwork

Close boarded formwork and supports to soffits of floors not exceeding 12' high	per yard super	15/3
Ditto to vertical faces of walls (both sides measured)	per yard super	14/10
Ditto to sides and soffits of lintels and beams	per ft. super	2/3
Add to any of the above for wrot formwork and rubbing down concrete	per yard super	2/3

Reinforcement

¾" to 1" diameter mild steel rod reinforcement, hooked, bent and tied at intersections as required and fixing in concrete	per cwt.	44/6
¾" diameter ditto	per cwt.	48/4
½" diameter ditto	per cwt.	58/3
Steel wire mesh fabric reinforcement to B.S. 1221, weighing 4.71 lb. per yard super, well lapped at joints and embedded in concrete	per yard super	3/-
Ditto weighing 9.32 lb. per yard super ditto	per yard super	5/8

BRICKLAYER

Common Brickwork

	Flettons	Rough stocks
Reduced brickwork one brick thick in cement-lime mortar (1 : 3 : 9)	per yard super	26/4 31/4
Add to the above :—		
If in cement mortar (1 : 3)	per yard super	-/3 -/3
If circular on plan to flat sweep	per yard super	4/2 4/5
Ditto to quick sweep	per yard super	8/3 8/9
Half brick wall in cement lime mortar (1 : 3 : 9)	per yard super	14/3 16/8
Ditto built fair and pointed both sides with a neat flush joint	per yard super	15/11 18/5

	Flettons	Rough stocks
One brick wall built fair and pointed both sides with a neat flush joint	per yard super	30/11 35/10
11" hollow wall with 2" cavity and galvanized iron twisted ties	per yard super	30/10 35/9

Engineering Brickwork

	Lingfield Engineering Wirecuts	Blue Pressed bricks
Reduced brickwork one brick thick in cement mortar (1 : 3)	per yard super	38/- 57/6
Half brick wall in cement mortar (1 : 3)	per yard super	20/4 30/1
Ditto built fair and pointed both sides with a neat flush joint	per yard super	22/- 32/5
One brick wall built fair and ditto	per yard super	41/9 61/-

Sundries

Extra for internal fair face and flush pointing	per yard super	1/-
Horizontal damp-proof course of two courses of slates and bedding and pointing	per foot super	3/3
Ditto of hessian base bitumen well lapped at joints	per foot super	-/10½
Fixing only metal window, size 1' 8" x 4' 0", including cutting and pinning lugs to brickwork, bedding frames and pointing in mastic one side	each	7/-
Ditto, 3' 3" x 4' 0" ditto	each	10/10½
Ditto, 6' 6" x 4' 0" ditto	each	19/3

BRICKLAYER—(continued)

Partitions

	2"	2½"	3"	4½"
Breeze concrete solid partition blocks to B.S. 492 and setting in cement mortar	per yard super	7/7½ 8/10½	10/4	13/-
Hollow clay partition blocks to B.S. 1190, keyed on both sides and ditto	per yard super	8/1 8/11	10/2	
Moler hollow partition blocks, keyed on both sides and ditto	per yard super	13/6 16/9	18/10	4" 21/4

Facings

	Ordinary facings, p.c.	White glazed facings p.a. for stretchers 1,215/- M for headers and pointing with white cement
Extra over common brickwork built with bricks p.c. 105/3 M for facings as described, and pointing with a neat weathered joint :—	218/6 M.	237/4 M.
To solid wall in Flemish bond	per yard super	12/6 13/11 75/-
To cavity wall in stretcher bond	per yard super	10/- 11/- 60/-
To ditto in Flemish bond with snapped headers	per yard super	12/- 13/9 —
Half brick wall in facings in stretcher bond built fair and pointed one side with a neat weathered joint	per yard super	23/3 24/3 —
Ditto pointed both sides	per yard super	24/2 25/2 —
One brick wall in facings built fair and pointed one side	per yard super	43/6 45/9 —
Ditto pointed both sides	per yard super	44/6 46/6 —
Brick on end flat arch in facings 4½" on soffit and 9" high and pointing	per foot run	2/8 2/9 —
Brick on edge coping to 9" wall with two courses plain tiles under, laid breaking joint, two cement angle fillets and pointing	per foot run	4/6 4/8 —

ASPHALTER

Tanking

	To B.S. 1097	To B.S. 1418
Horizontal asphalt tanking in three thicknesses on brick or concrete	per yard super	17/4 26/9
Vertical ditto	per yard super	20/- 30/6

Roofing

	To B.S. 988	To B.S. 1162
¾" asphalt flat in two thicknesses on and including felt underlay	per yard super	12/10 22/-
¾" asphalt skirting 6" high with angle fillet at bottom and rounded top, turned into groove	per foot run	2/1 2/7½
¾" asphalt fascia 6" high with solid water check roll at top and under-cut drip at bottom	per foot run	3/8 4/3

DRAINLAYER

Trenches and Beds

N.B.—The following prices are applicable to hand excavation in heavy soil, only requiring planking and strutting for depths of 3' or more.

Excavate trenches for 4"-9" pipes, including planking and strutting, filling in and ramming, and wheeling and spreading surplus :—		
For each 12" in depth, for trenches not exceeding 3' 0" deep	per yard run	2/8
Ditto for trenches exceeding 3' 0" and not exceeding 5' 0" deep	per yard run	4/-½
Ditto for trenches exceeding 5' 0" and not exceeding 10' 0" deep	per yard run	6/5
6" concrete (1 : 3 : 6) bed and benching for pipes	per yard run	4" 8/2 9/5
6" ditto, and surround	per yard run	13/2 15/11

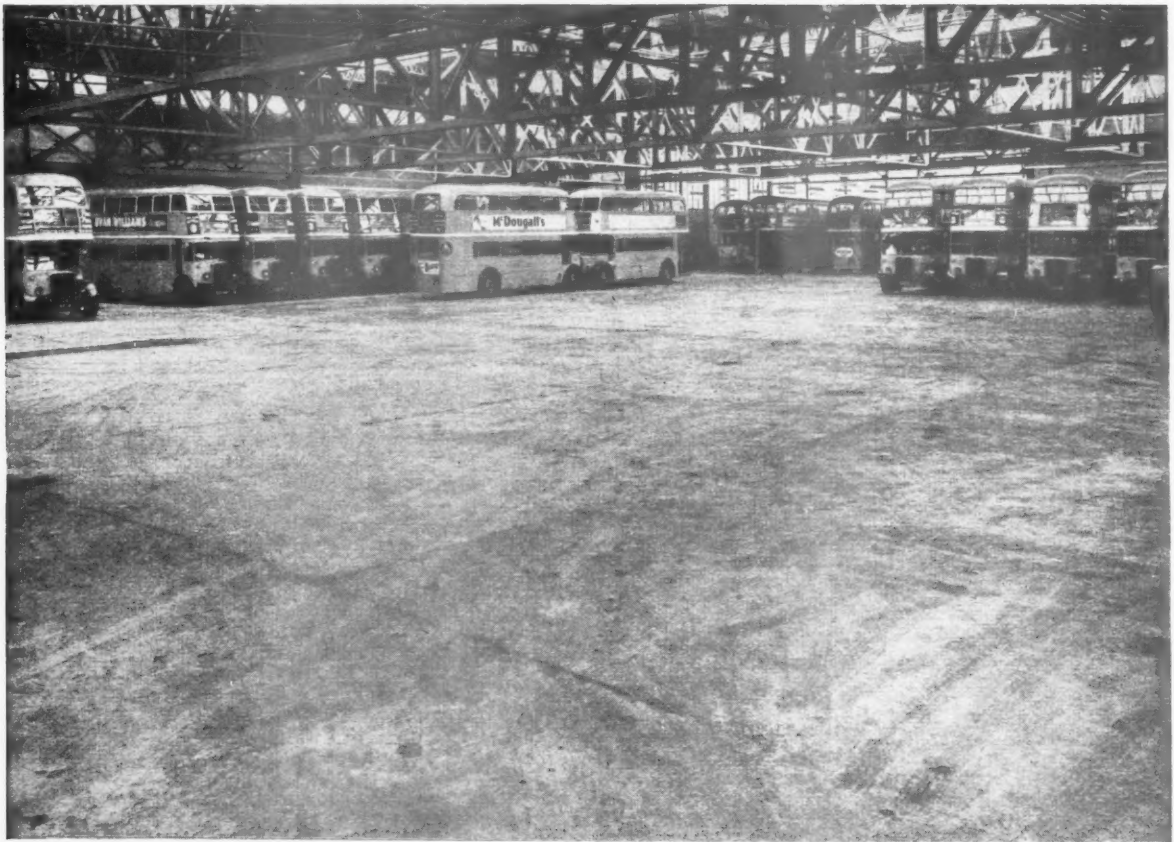


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which are supplied complete with hinges, patent adjustable lock-strike and adjustable lugs ready for building in, saving time and labour on the site.

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ANOTHER **COLEMANOID** FLOOR

THE LIQUID WATERPROOFER & HARDENER

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Colemanoid not only adds to the strength of concrete and makes floors oil, grease and

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For further details write to me for Bulletin No. 3.

Cecil Kahn



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DRAINLAYER—(continued)

Drains		3"	4"	6"
Clayware butt-jointed land drains and laying in trench	per foot run	-/4	-/4½	-/8
"Seconds" quality glazed stoneware socketed drains and laying and jointing in trench	per foot run	1/10	2/8	4/5
"British Standard" quality ditto	per foot run	2/3	3/3	5/6
Extra on "Seconds" quality for bends	each	3/-	4/4	7/4
Ditto "British Standard" quality ditto	each	3/9	5/6	9/7
Extra on "Seconds" quality for single junction	each	5/-	7/4	16/-
Ditto "British Standard" quality ditto	each	6/2	9/-	20/-
Cast iron socketed drains to B.S. 437 and laying and jointing in trench	per foot run	9/8	14/9	29/-
Extra for short radius bend (Fig. No. 4)	each	19/-	38/-	117/3
Extra for single junction (Fig. No. 18)	each	35/-	68/-	188/6
Fittings, etc.			4"	6"
Glazed stoneware trapped gully with galvanized grating and outlet and setting in concrete	each		21/4	39/9
Ditto with vertical inlet ditto	each		26/6	44/10
Cast iron trapped gully with high invert, grating, and 4" outlet and setting in concrete	each		42/6	—
Ditto with vertical inlet ditto	each		52/3	—
Glazed stoneware intercepting trap with inspection arm, stopper and chain and fixing in manhole and jointing to drain	each		67/10	78/6
Brown glazed stoneware half round straight channels and bedding and jointing in cement mortar	per foot run		1/8	2/6
Ditto ordinary channel bend and ditto	each		5/-	7/1
Cast iron coated single seal manhole cover and frame to B.S. 497 Grade C and setting frame in cement and cover in grease	each		46/4	64/9
Galvanized ditto	each		78/3	114/-

PAVIOR

Cement and sand (1:3) floated screed to receive pavings	per yard super	3/2	1" 3/11	1½" 4/5
Ditto trowelled smooth to receive linoleum	per yard super	3/6	4/3	4/9
Cement and sand (1:3) paving trowelled hard and smooth	per yard super	3/6½	4/3	4/9
Granolithic paving (1:2½) laid on concrete	per yard super	5/8	6/5	7/2
1" Red composition paving to B.S. 776 laid on prepared screed	per yard super			16/-
1" Terrazzo paving (Portland cement and spar aggregate) laid on prepared screed	per yard super			37/3
Extra for white or cream cement	per yard super			5/3
1" Rubber flooring in all colours, laid on prepared screed	per yard super			51/-
1" x 12" x 12" Rubber tile flooring ditto	per yard super			41/6
1" x 12" x 12" Cork tile flooring (brown shades) laid in mastic on prepared screed, surfaced and polished	per yard super			40/8
1½" Hard red paving bricks p.c. 393/9 per M. laid flat on prepared bed in cement mortar	per yard super			21/-
1½" Ditto laid herringbone	per yard super			22/9
6" x 6" Red quarry tile paving to B.S. 1286 laid on prepared screed with straight joints	per yard super		19/7	21/11
6" x 6" Buff quarry tiles as last	per yard super		22/3	25/6
2½" (Finished) Gravel path laid on prepared bed, well watered and rolled to cambers and falls	per yard super			2/4

MASON

Portland stone and all labours in pilasters, quoins, jambs, lintols, etc.	per foot cube	36/-
Ditto in arches, columns, cornices, etc.	per foot cube	50/-
Ashlar av. 6½" on bed with plain dressed face	per foot super	20/-
Portland stone or artificial stone to B.S. 1217:—	Artificial	
4½" x 4" Sill, sunk, weathered, throated and grooved for water bar, set and jointed in cement mortar	per foot run	6/9 4/6

MASON—(continued)

9" x 3" ditto	per foot run	8/-	6/3
2" x 12" Coping, weathered and twice throated, set and jointed as last	per foot run	7/4	5/8
3" x 12" Ditto	per foot run	10/3	8/3
5" x 12" Saddle back coping twice throated, set and jointed as last	per foot run	17/-	12/9
6" x 12" Ditto	per foot run	18/9	15/9

SLATER, TILER AND ROOFER

Slate		20" x 10" 16" x 10"	
Best Bangor slates to B.S. 680 laid with 3" lap, each slate nailed with two stout copper nails	per square	236/3	222/3
Ditto hung vertically to dormer cheeks and gables	per square	243/6	233/9

Tiles		Hand made	Machine made
Best sand faced plain (ribbed) tiles to B.S. 402, 10½" x 6" laid to a 4" gauge with each tile in every fourth course nailed with galvanized nails	per square	162/9	155/-
Ditto hung vertically to dormer cheeks and gables to 4½" gauge with each tile nailed with galvanized nails	per square	158/-	150/3
Berkshire hand made sand faced red pantiles 14½" x 10" laid to 2½" head and 1½" side laps, each tile in every third course nailed with galvanized nails	per square	157/6	165/6
Ditto to mansard slopes	per square		99/9
Concrete plain (ribbed) tiles to B.S. 473, 10½" x 6" laid as before described for plain tiles	per square		103/6
Ditto hung vertically to dormer cheeks, and gables, ditto	per square		
Concrete interlocking tiles 15" x 9" laid to 3" lap, each tile in every third course nailed with galvanized nails	per square	78/9	86/8
Ditto to mansard slopes ditto	per square		

Asbestos Cement		
6" Corrugated asbestos cement sheeting fixed to wood roofs with galvanized drive screws and washers with a side lap of 1½ corrugations and an end lap of 6"	per square	78/9
6" Ditto but fixed vertically	per square	84/-
Add to both last if fixed to steel purlins or sheeting rails with galvanized hook bolts	per square	2/11

Felt		
Reinforced bituminous roofing felt laid with 3" laps and nailed to rafters at 18" centres with galvanized clout nails	per square	28/11
One-ply bitumen felt to B.S. 989 laid on concrete. Each layer bedded in hot bitumen	per yard super	7/4 10/-

CARPENTER

Carcassing		
Softwood, sawn and fixed, in plates, sleeper joists and lintols	per foot cube	17/11
Ditto in floor and ceiling joists	per foot cube	19/6
Ditto in stud partitions	per foot cube	21/-
Ditto in rafters	per foot cube	20/10
Ditto in purlins and struts	per foot cube	21/-
Ditto and framing in ridge	per foot cube	20/10
Ditto in hip and valley rafters including cutting rafters to sizes	per foot cube	22/10

Battening and Boarding		Roof slopes	Vertical hanging
2" x 1½" Battens nailed to softwood for 20" x 10" slates to 8½" gauge	per square	29/11	31/6
Ditto 16" x 10" slates to 6½" gauge	per square	37/10	39/11
Ditto 10½" x 6" tiles to 4" gauge (4½" for vertical hanging)	per square	60/4	57/9
Ditto 14½" x 10" pantiles to 12" gauge	per square	21/-	21/6
Ditto 15" x 9" concrete interlocking tiles to 12" gauge	per square	21/-	21/6
Roof boarding in batten widths close jointed and fixed to flat or sloping roofs	per square	124/-	159/9
Ditto tongued and grooved and prepared for felt roofing including furring to falls	per square	181/6	217/9
Sawn gang boarding fixed to joists in roof	per foot super	1/4	1/9
Wrot and crosstongued eaves soffit	per foot super	2/-	2/5
6" Wrot and grooved eaves fascia planted on	per foot run	-/10½	1/1

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CARPENTER—(continued)

Wall and Ceiling Boards

		Vertically	Soffites
1" Fibre board to B.S. 1142 fixed with galvanized flat headed nails to softwood	per yard super	6/6	6/7
3" Asbestos cement flat sheeting to B.S. 690 fixed as last	per yard super	5/4	5/7½
1" Ditto	per yard super	6/4	6/8

JOINER

Floors and Skirtings

(All thicknesses stated are nominal)

		¾"	1"	1½"
Plain edge softwood flooring in batten widths nailed to floor joists	per square	152/-	170/-	206/3
Tongued and grooved ditto	per square	168/-	180/3	218/-
1" Double grooved and tongued and grooved wood block floor laid herringbone with two-block border, set in hot mastic composition on prepared screed and wax polished:—				
Swedish softwood	per yard super	30/3		
European Beech	per yard super	36/6		
English Oak	per yard super	45/3		
European Oak	per yard super	42/3		
Burma Teak	per yard super	46/9		
Softwood skirtings with splayed or molded top edge, planted on (per inch sectional area)	per foot run	-2½	-2½	
Extra for grounds plugged to brickwork	per foot run		-6	

Windows in Softwood

		1½"	2"
Rebated and molded softwood fanlights and casement sashes divided into squares for glass	per foot super	2/9	3/-
Extra for hanging	each	6/1	6/1
Cased frames with 6" x 3" Oak sill and 2" molded double hung sashes including pulleys, line and weights	per foot super	—	9/9

N.B.—The above prices are for purpose made joinery. Standard pattern casement windows and double hung sashes and frames to B.S. 644 are cheaper.

Doors in Softwood

		1½"	1¾"	2"
Framed ledged and braced doors filled in with 1" T. & G. and V-jointed boarding and hanging	per foot super	4/7	5/6	5/6
Four-panel door, square both sides and hanging	per foot super	3/5	4/1	4/1
Ditto molded one side	per foot super	3/8	4/4	4/4
Ditto molded both sides	per foot super	3/11½	4/7	4/7

N.B.—The above prices are for purpose made doors. Standard panelled doors to B.S. 459 are cheaper.

1½" Standard flush doors 2' 6" x 6' 6" internal pattern	each	97/6
2" Ditto external pattern	each	106/9

Linings, Frames, etc., in Softwood

		Sectional area	Thickness
Window and door linings etc. (per inch in sectional area)	per foot run	Up to 6" 6" to 12"	
Frames wrot all round and framed (ditto)	per foot run	-3½	-2½
Mullions, transoms and cills (ditto)	per foot run	-3½	-2½
Moldings, architraves, etc. (ditto)	per foot run	2" to 4" 4" to 6"	-2½
6" Window boards with rounded nosings, tongued at back and including bearers	per foot run	1"	1½"
9" Ditto	per foot run	2/7	2/10
	per foot run	2/11	3/2½

Shelving and Fittings in Softwood

		¾"	1"
Shelving of 2" slats spaced 1" apart on bearers (measured separately)	per foot super	2/1½	2/8
Shelving on ditto	per foot super	2/2½	2/9
Crosstongued shelving on ditto	per foot super	2/9	3/4½
Shelving 9" wide on ditto	per foot run	1/9	2/1½
2" Shelf bearers plugged to walls	per foot run	-11	1/1

The following in framed up cupboard fittings:—

T. & G. & V-jointed back	per foot super	2/-	2/5
Crosstongued top, bottom shelf or division	per foot super	2/10	3/5
1½" Flush cupboard doors	per foot super	5/11½	
Labour rebate or groove	per foot run	-2½	
Ditto cross-grain	per foot run	-4	
1" x 2" Bearers screwed on	per foot run	-5½	

N.B.—The above prices are for purpose-made cupboard fittings. Standard pattern kitchen fittings to B.S. 1195 are cheaper.

IRONMONGERY

		Softwood	Hardwood
3" Steel butts (medium quality)	per pair	1/2	1/2
4" Ditto (ditto)	per pair	1/10	1/10
Double action floor springs and top centres including filling boxes with oil	each	179/3	185/-
Overhead check action door springs. P.C. 66/8	each	83/-	86/4
6" Barrel bolts. P.C. 5/6	each	7/6	7/11
Cupboard locks. P.C. 8/2	each	11/11	12/10
Norfolk latches. P.C. 5/6	each	9/11	11/3
Cylinder night latch. P.C. 15/11	each	22/4	24/-
Mortice latch. P.C. 9/4	each	14/2	15/6
Rim lock. P.C. 10/-	each	13/11	14/11
Mortice lock. P.C. 15/2	each	21/6	23/2
Door furniture. P.C. 24/-	per set	27/4	27/9
Sash fasteners. P.C. 9/-	each	11/6	12/-
Casement fasteners. P.C. 7/11	each	9/10	10/4
Casement stays. P.C. 11/6	each	13/10	14/3

STEEL AND IRONWORKER

Structural Steelwork

The following prices are for Basic sections (5" x 4½" to 16" x 6") only. Prices for other sections vary roughly in proportion to the price of the steel ex mills—see "Current Market Prices of Materials."

		£	s.	d.
R.S.J.—in steel framed structures hoisted and fixed complete	per ton	54	1	6
Riveted compound girders including plates and rivets	per ton	58	10	9
R.S. Stanchions including caps, bases, cleats, etc.	per ton	60	2	3
Riveted compound stanchions ditto	per ton	62	9	6
Riveted roof trusses with flat and angle members, plates, cleats, etc., 30' span	per ton	87	13	6
Ditto 40' span	per ton	85	11	6

Sundries

Simple wrot iron balustrades fixed complete (excluding mortices etc.)	per cwt.	11	0	0
Bolts with heads, nuts and washers and fixing	per cwt.	11	5	0

PLASTERER AND TILE FIXER

24 gauge expanded metal lathing and fixing to softwood soffites	per yard super	5/3½
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Lime and Gypsum Plaster

		Lime	Sirapite
Three coat lime and two coat Sirapite or similar Gypsum plaster:—			
On brick walls and partitions	per yard super	5/5	4/2½
On concrete soffites including hacking	per yard super	6/6	5/11
On soffite of E.M.L. (measured separately)	per yard super	5/6	6/6
On and including wood laths, to soffites	per yard super	9/3	—
¾" Gypsum plasterboard fixed to softwood soffites, in accordance with manufacturer's instructions, scrimmed and finished with setting coat of suitable plaster	per yard super	7/-	
Plaster moulded cornice or cove (per inch in girth)	per foot run	-4½	

Cement Rendering

Rendering in Portland cement and sand (1:4) and setting in Keenes cement on brick walls and partitions	per yard super	5/3
Portland cement and sand (1:3) plain face trowelled smooth on ditto	per yard super	4/9½
Portland cement and sand (1:3) screed for tiling on ditto	per yard super	2/7

Wall Tiler

6" x 6" x ¾" Standard quality white glazed wall tiles set and jointed on prepared screed	per yard super	36/9
Ditto eggshell matt or glossy glazed enamelled	per yard super	46/6

EXTERNAL PLUMBER AND COPPERSMITH AND ZINCWORKER

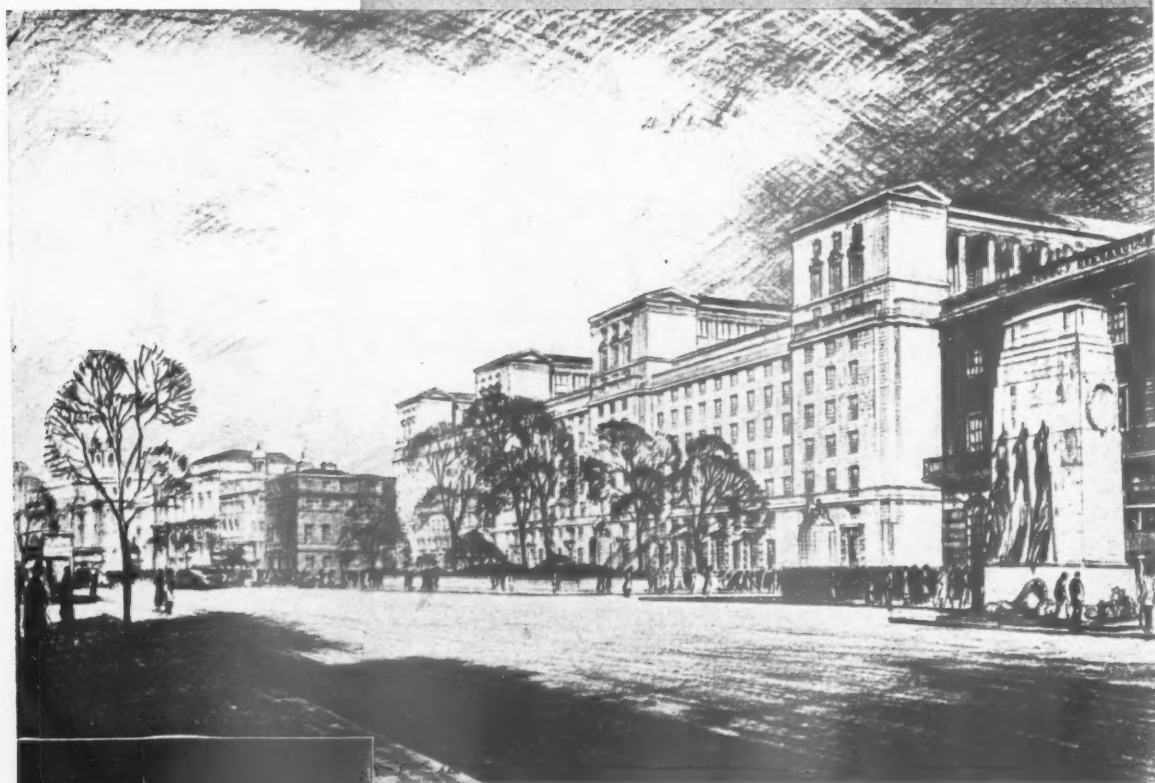
		Flats	Gutters, flashings, etc.	Stepped flashings
Milled sheet lead and labour	per cwt.	277/9	277/9	285/6
24 S.W.G. sheet copper and labour	per foot super	5/3	5/6	5/9
23 S.W.G. sheet copper and labour	per foot super	5/9	6/-	6/4
14 gauge zinc and labour	per foot super	4/-	4/3	4/7

★ Prominent on the London scene are the new Whitehall offices being constructed by Richard Costain Ltd., the first stage of which is now approaching an advanced state of completion as can be seen by the illustration adjoining. The drawing reproduced below shows how this fine Government building will look when fully completed.

Architect:
E. VINCENT HARRIS, R.A.
Consulting Engineers:
R. TRAVERS-MORGAN & PARTNERS



The new Government Offices Whitehall Gardens



Richard
COSTAIN
Limited

MAIN CONTRACTORS

Head Office: DOLPHIN SQUARE, LONDON, S.W.1. VICTORIA 6624
Branches: MIDDLE EAST, RHODESIA, UGANDA AND NIGERIA

EXTERNAL PLUMBER AND COPPERSMITH AND ZINC-
WORKER—(continued)

Rainwater Pipes and Gutters

	3"	4"
Cast iron medium section ($\frac{3}{8}$ " metal) R.W. pipes and jointing and fixing to walls with pipe nails and distance pieces or holderbats (cutting and pinning holderbats measured separately)	With holderbats 4/3	With holderbats 5/3
Pressed steel R.W. pipes and ditto	24 G. 3/7	20 G. 4/6
Asbestos cement R.W. pipes and ditto	2/4	3/-
Cast iron half round eaves gutter and jointed and fixed with brackets to fascia	$\frac{1}{2}$ " 2/4	$\frac{1}{2}$ " 3/6
Ditto O.G. ditto	2/9	3/11
18 Gauge pressed steel half round ditto	2/5	3/6
Ditto O.G. ditto	3/-	4/-
Asbestos cement half round ditto	2/-	3/1 $\frac{1}{2}$

Soil and Ventilating Pipes

	3"	4"
Lead soil, waste and ventilating pipes (17 lb. per yard for 3" and 22.8 lb. per yard for 4" diameter) fixed to walls with lead tacks and brass screws	14/9	20/6
Medium or heavy section cast iron soil, waste and ventilating pipes with caulked joints, fixed to walls, with pipe nails and distance pieces	Heavy $\frac{1}{2}$ " 4/5	Med-ium $\frac{1}{2}$ " 5/7

INTERNAL PLUMBER

Lead Pipes

Prices are based upon the following weights per yard.

	$\frac{1}{2}$ " lb.	$\frac{3}{4}$ " lb.	1" lb.	1 $\frac{1}{2}$ " lb.
Supply	7	11	16	21
Distributing	6	9	12.5	16
Flushing and overflow	3	5	7	9
Waste and ventilating	—	—	—	7
Supply pipe in trench (measured separately)	$\frac{1}{2}$ " 5/5	$\frac{3}{4}$ " 8/5	1" 12/-	1 $\frac{1}{2}$ " 15/10
Ditto fixed to walls and ceilings	5/10	9/-	12/9	17/-
Distributing pipe fixed to walls and ceilings	6/2	7/7	10/4	13/6
Flushing and overflow pipe ditto	3/-	4/8	6/5	8/6
Waste and ventilating pipe ditto	—	—	—	7/2
Joints to fittings	5/2	6/3	6/7	7/7
Bends	1/- $\frac{1}{2}$	1/- $\frac{1}{2}$	1/4	1/7
Branch joints	6/-	7/4	8/-	9/1

Steel Tubes and Fittings

Galvanized steel tubes to B.S. 1387 Class C with screwed joints in red lead as supply pipe laid in trench (measured separately)	per foot run	1/10 $\frac{1}{2}$	2/2	2/3	3/2
Ditto Class B ditto fixed to walls and ceilings as supply, distributing, waste pipe, etc.	per foot run	1/9	2/2	2/3	3/-
Joints to fittings	each	3/4	4/-	4/10	6/-
Bends	each	1/9	2/2	2/10	4/3
Tee, equal or reducing	each	1/11	2/2	2/8	3/6

Copper Tubes and Fittings

Prices are based upon the following gauges:—

	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	1 $\frac{1}{2}$ "
Supply	18	17	16	16
Distributing, waste, etc.	19	19	18	18
Copper tubes to B.S. 1386, as supply pipe laid in trench (couplings and trench measured separately)	per foot run	1/9	2/7	3/7
Ditto to B.S. 659 as distributing, waste pipes, etc. fixed to walls and ceilings. Couplings measured separately	per foot run	1/9 $\frac{1}{2}$	2/3	3/1
Brass compression type couplings—copper to copper	each	4/8	6/7	7/11
Ditto bends	each	6/3	7/5	10/10
Ditto tees	each	8/4	9/6	14/9

INTERNAL PLUMBER—(continued)

Sanitary Fittings

Fireclay sinks 24" x 18" x 10" including cutting and pinning brackets to tiled wall. P.C. 60/-	each	£ s. d.	3 17 0
Combined metal sink and drainer 42" x 18" x 8 $\frac{1}{2}$ " to bearers (measured separately). P.C. 322/-	each	18 1 0	
Fireclay lavatory basin 25" x 18" with taps and towel rail bracket including screwing brackets to tiled wall. P.C. 121/3	each	7 4 0	
Rectangular cast iron porcelain enamelled bath 5' 6" long, with taps, and panels to side and one end fixed to framing (measured separately) P.C. 362/3	each	21 8 9	
Fireclay w.c. pan with trap, plastic seat, high level cistern and flush pipe, including screwing pan to floor and cistern brackets to backboard. P.C. 194/6	each	12 2 3	
Ditto with low level cistern. P.C. 205/6	each	12 15 6	

GLAZIER

	To wood	To metal
18 oz. Ordinary quality sheet glass and glazing with putty in squares not exceeding 4 ft. sup.	per foot super -/9	-/10
24 oz. Ditto and ditto	per foot super -/10 $\frac{1}{2}$	-/11 $\frac{1}{2}$
32 oz. Ditto and ditto	per foot super 1/3 $\frac{1}{2}$	1/4
$\frac{1}{2}$ " Figured, rolled, and cathedral—untinted and ditto	per foot super 1/-	1/1
$\frac{1}{2}$ " Rough cast and ditto	per foot super 1/2 $\frac{1}{2}$	1/3 $\frac{1}{2}$
$\frac{1}{2}$ " Wired cast and ditto	per foot super 1/4	1/5
$\frac{1}{2}$ " Georgian wired cast and ditto	per foot super 1/4 $\frac{1}{2}$	1/5 $\frac{1}{2}$
$\frac{1}{2}$ " Georgian wired polished plate and ditto	per foot super 5/5	5/6
$\frac{1}{2}$ " Polished plate (glazing quality) and ditto	per foot super 5/3	5/5

PAINTER

Whitening, Distemper and Paint on Walls

Prepare and twice whiten plastered walls and ceilings	per yard super	1/-
Prepare and twice distemper with washable distemper on plastered walls and ceilings	per yard super	1/7
Ditto on brick or concrete	per yard super	2/2
Prepare, prime, and paint two coats oil colour on plastered walls and ceilings	per yard super	4/8

Paint on Metal

	Basic price	Add for each additional coat
Prepare, prime, and paint one coat oil colour on general surfaces	per yard super 3/-	1/4
Ditto metal casements	per yard super 4/4 $\frac{1}{2}$	1/11
Ditto members of roof trusses	per yard super 3/8	1/7 $\frac{1}{2}$
Ditto balustrades one side	per yard super 4/4 $\frac{1}{2}$	1/11
Ditto bars, etc., not exceeding 6" girth	per yard run -/9	-/4
Ditto small pipe	per yard run -/9	-/4
Ditto large pipe	per yard run 1/5 $\frac{1}{2}$	-/7 $\frac{1}{2}$

Paint on Wood

	Basic price	Add for each additional coat
Knot, prime, stop and paint one coat oil colour on general surfaces of woodwork	per yard super 3/3	1/4
Ditto on skirtings, rails, frames, etc., not exceeding 3" girth	per yard run -/5	-/2
Ditto ditto for each additional 3" in girth	per yard run -/4 $\frac{1}{2}$	-/2
Ditto on sash squares one side	per dozen 4/-	1/7
Ditto on large sash squares one side	per dozen 7/3	2/10 $\frac{1}{2}$

Stain and Varnish on Wood

Prepare, size, stain and twice varnish on general surfaces of woodwork	per yard super	3/4
Ditto on skirtings, rails, frames, etc. not exceeding 3" girth	per yard run	-/5
Ditto ditto for each additional 3" in girth	per yard run	-/4 $\frac{1}{2}$

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

STORY'S



CONTEMPORARY SHOWROOMS: 7 Kensington High Street, (Opposite Kensington Gardens) (Phone: WEStern 0825)

HEAD OFFICE & MAIN SHOWROOMS: 49-61 Kensington High Street. For Traditional Furniture, Carpets, Textiles, etc.



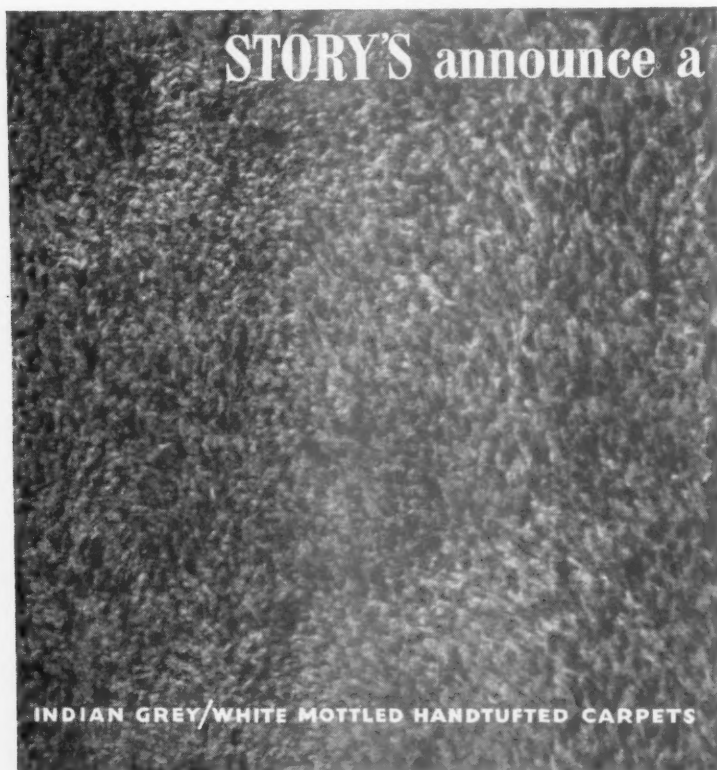
"unad" club

Upholstered Chairs, Settees, and in-a-row sectionals. These are new additions to the well-known "unad" range of furniture, contour designed therefore very comfortable, yet not heavy or cumbersome. The quality both inside and out will stand expert scrutiny.

Easy Chair £19 15s. 2-Seater Settee £29 15s. 3-Seater Settee £39 10s. Prices include covering material of which there is a large selection in cheerful but usable colours.

Architects are advised to write to Story's Contracts Department who are pleased at all times to quote from details supplied or quote and submit designs to suit special requirements, whether Furniture, Fittings, Floorcoverings, or Fabrics.

STORY'S announce a



INDIAN GREY/WHITE MOTTLED HANDTUFTED CARPETS

Reminder of SPECIAL OFFER to ARCHITECTS or CLIENTS

AS MADE IN ARCHITECTS' JOURNAL DEC. 6, 1951

**NOW ONLY
150 INDIAN HANDMADE
RUGS AND CARPETS
available at 25% reduction.**

6' x 3'	£6 . 11 . 0	12' x 9'	£39 . 7 . 0
7' x 4'	£10 . 4 . 0	13' x 10'	£47 . 6 . 9
9' x 7' 6"	£24 . 17 . 0	15' x 12'	£65 . 11 . 8
10' 6" x 9'	£34 . 13 . 6	18' x 12'	£78 . 14 . 0

They are all grey/white mottled plains—an ideal foil for strong coloured textiles or decorations.

★ ★ ★ ★

WHY?

Our preference or enthusiasm for the fairly plain pattern Indian handmade Carpet to the busy orthodox designs and colours generally produced, may have encouraged the makers to lay on a large production. Anyway they have arrived, but most of the carpet buyers throughout the country prefer the busy ones. Warehousing is expensive. Hence this offer—unrepeatable unless the £ climbs back to its old purchasing value.

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THE INDUSTRY

From the industry this week Brian Grant reports on the new steel allocation from America (see comments by the Technical Editor on page 193), and the dangers involved when 3-phase electricity is used on the building site.

STEEL SUPPLIES

The news of the million tons of steel which Mr. Churchill has obtained from the USA in exchange for aluminium and tin needs a certain amount of amplification before we know whether it is likely to make any difference to the building industry. So far, it seems that the Canadian aluminium to be diverted to America will not, in fact, reduce the supplies available in this country, but will come out of the stock-pile. But it seems that the steel is to be used mainly for defence purposes and for those industries which can contribute to the export programme. Only if there is any over when these demands have been met will there be increased supplies for the building industry, and even then the amount available is likely to be small.

FLUSHING TROUGHS

Most architects are familiar with Fordham's cisterns, which are made of pressed steel instead of cast iron. They first came on the market in quantity in the early 1930's, after a certain amount of opposition from the various water boards, and are now widely used all over the country. The photograph below shows a typical flushing trough system which, in effect, combines any number of cisterns from three to thirty units into one long trough. The sections can be easily joined together, and for batteries of w.c.s in factories or schools, where the w.c.s are used in rapid succession, it is almost the only satisfactory method. Another advantage is that, whether the pull is required at the front or the back of the trough, the outlet is such that a BS flushpipe, with a 4-in. offset at the top, can always be used. (Fordham Pressings Ltd., Melbourne Works, Dudley Road, Wolverhampton.)

MAKING CEMENT

I suppose that at one time or another quite a large number of architects have been invited to tour a cement works and see how it is all done, but most of these factories are spread out over fairly large areas and, although one sees the final mixing and kilning processes from close to, it is easy to

miss the clay, chalk or limestone quarrying. The Cement and Concrete Association's booklet *Cement in the Making* (first published in 1947, but recently revised) should, therefore, prove interesting to those who have not seen the whole process from A to Z and who like to know what happens to materials before they appear on the site. The booklet tells the whole story of cement manufacture in just over 40 pages of photographs and diagrams. Incidentally, I am told that a new cement works will be described and illustrated in next week's Technical Section. (Cement & Concrete Association, 52, Grosvenor Gardens, London, S.W.1.)

JOINTS FOR COPPER PLUMBING

The section below shows the construction of the "Hanlo" compression joint, which makes use of a patented ferrule giving a double grip on the copper tube. To use it on the site, all that is necessary is to cut the copper pipe to the approximate length required, insert it into the joint and tighten the nut. The joint can be taken apart and re-made any number of times. Although the double grip of the ferrule slightly deforms the tube, it does not weaken it, and completed joints have withstood pressures of over 5,000 lb. per sq. in. without failure. Tees, elbows and all the usual fittings are available. (Lovell & Hanson Ltd., 181, Wolverhampton Street, Dudley, Worcs.)

DANGEROUS ELECTRICAL SOCKETS

The current number of "Accidents and How to Prevent Them" (HM Stationery Office) draws attention to a danger with which factory architects should be familiar. Portable electric tools are of comparatively low wattage and have single-phase motors fed through an ordinary 3-pin plug with the usual live, neutral and earth pins. Larger, semi-portable machines, such as mobile pumps, have motors of 1 h.p. or more and often use 3-phase current from a 3-pin socket, with one phase on each pin and an earth connection, which may be either a fourth pin or a scraping contact. For these 3-phase sockets there exists no BS (although one is being prepared) and it is possible to insert an ordinary 3-pin (single-phase) plug into some of the 3-phase sockets.

If this is done not only is excessive voltage

supplied to the portable drill, or whatever it may be, but the metalwork of the tool, normally earthed, becomes alive at mains voltage. Since 1944 there have been three fatal accidents from this cause. The problem will be solved in due course, but it seems an important point to watch until such time as 3-phase sockets are produced in accordance with the BS now being prepared.

BRIAN GRANT

Announcements

Mr. N. James Rushton, L.R.I.B.A., F.F.A.S., of 21, Markham Street, London, S.W.3, has opened a branch office at 17, Grand Parade, St. Leonards-on-Sea (Telephone, Hastings 366), having acquired the practice of the late Alfred Womersley, L.R.I.B.A., of that address.

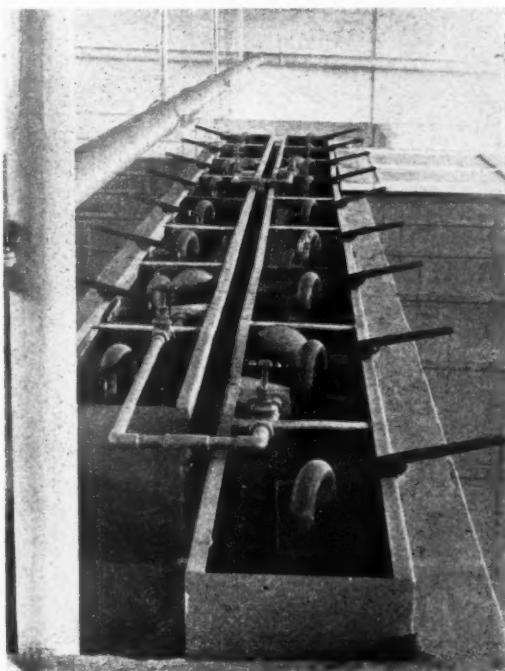
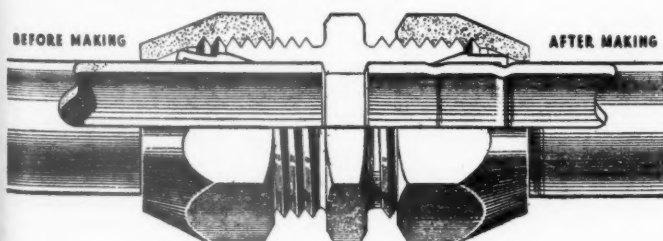
Northfield Ironcrafts Ltd., of Stotfold, near Baldock, Hertfordshire, manufacturers of wrought iron gates, railings, grilles, furniture, etc., has now been acquired by Hume Atkins & Co. Ltd., of New Icknield Way, Letchworth, and 66, Victoria Street, London, S.W.1, manufacturers of electric light fittings (fluorescent and tungsten). Inquiries are invited and should be addressed to Northfield Ironcrafts, c/o Hume Atkins & Co. Ltd., at either of these addresses.

Northern Aluminium Co. Ltd. announce that after January 19, 1952, the address of their Manchester Area Sales Office will be: 75, Piccadilly, Manchester, 1 (Telephones: Central 5479).

The County Planning Department, Cardiganshire County Council, is now assisting in the preparation of housing schemes, and the County Planning Officer would be pleased to receive trade catalogues and literature addressed to him at London House, Aberayron, Cardiganshire.

Harold Bulmer, A.R.I.B.A., and Mr. J. Ricardo Pearce, A.R.I.B.A., practising as Harold Bulmer & J. Ricardo Pearce, have moved to Claremont House, 44, High Street, Wimbledon Common, S.W.19 (Tel.: Wimbledon 0706), where they will be pleased to receive trade catalogues, etc.

Right, "Fordham" flushing units, installed at Blackwall County Secondary School. Below, "Hanlo" compression joint before and after tightening.



Messrs. Edward Armstrong and Frederick MacManus, F./F.R.I.B.A., have moved their offices to 10, Lower Grosvenor Place, S.W.1. (Tel.: Tate Gallery 9333.)

The practice of the late Mr. Fernand Billerey, F.R.I.B.A., of 93, Eaton Place, S.W.1, is being carried on by Mr. Robert Cromie, F.R.I.B.A., at his offices at 10, Manchester Square, W.1.

Mr. Francis A. Kerr, D.A.(EDIN.), A.R.I.B.A., has opened an office at 97, Bridge Street, Manchester, 3, where he will be pleased to receive trade catalogues, etc. (Tel.: Deansgate 8113.)

Mr. Carl Fisher, DIP.ARCH., A.R.I.B.A., has moved his offices to 27, Grosvenor Place, S.W.1 (Tel.: Sloane 2720), where he will be pleased to receive trade catalogues, etc.

Buildings Illustrated

House at Holbrook, Nr. Ipswich, Suffolk. (Pages 182-183.) Architects: Gordon & Eleanor Michell, A./A.R.I.B.A. General contractors: W. T. Wheeler & Sons Ltd. Sub-contractors: dampcourses, The Ruberoid Co. Ltd.; wood-block flooring, Board & Co. Ltd.; radiators, Crane Ltd.; grates, A. Bell & Co. (patent sunk fire); boilers, Trianco Ltd.; electric wiring, B. L. Kay & Co. (Colchester) Ltd.; electric light fixtures, Merchant Adventurers of London Ltd.; sanitary fittings, John Bolding & Sons Ltd.; door furniture, A. J. Binns Ltd.; Yannedis & Co. Ltd.; casements, Rippers Ltd.; flush doors, Jayanbee Joinery Ltd.; stonework, slating surround and stone hearth, Saunders Ltd.; wallpapers, Arthur Sanderson & Sons Ltd.; "Formica" surfacing, de la Rue (Thomas) &

Co. Ltd.; water supply, John J. Gosling & Co.; water softening plant, Permutit Co. Ltd.

Retail Clothing Store for Jaeger Company Shops Ltd. at 59, East Street, Brighton. (Pages 184-185.) Designer: Charles Kenrick; lighting and heating consultant, A. W. Jervis, F.I.E.S., of Debenhams Ltd. General contractor: Cookes (Finsbury) Ltd.; general foreman, A. Isaacs. Sub-contractors: gas fixtures, South Eastern Gas Board; electric wiring, Galliers Ltd.; fluorescent lighting, Hume Atkins Ltd.; feature lighting, Allon Bros.; tiling, Zanelli (London) Ltd.; clocks, English Electric Co. Ltd.

House at Walberswick, Suffolk. (Pages 186-188.) Architect: Felix Walter, F.R.I.B.A. General contractors: W. Ames Ltd. Sub-contractors: precast reinforced concrete, Saunders (Ipswich) Ltd.; bricks, London Brick Co.; structural steel, Cocksedge & Co. Ltd.; tiles, G. G. Blyth & Co. Ltd.; special roofings, William Brown & Co. (Ipswich) Ltd.; roofing felt, Ruberoid Co. Ltd.; glass, Pilkington Bros. Ltd.; central heating, H. Warner & Son Ltd.; grates, Candy & Co. Ltd.; boilers, Ideal Boilers & Radiators Ltd.; electric wiring, B. C. Bullard & Co.; electric light fixtures, Troughton & Young (Lighting) Ltd.; electric heating, British National Electric Co. Ltd.; door furniture, J. D. Beardmore & Co. Ltd.; casements, Rust-proof Metal Window Co. Ltd.; decorative plaster, Silixine Paints Ltd.; tiling, Richards Tiles Ltd.

New showrooms for Thorn Electrical Industries Ltd., Shaftesbury Avenue, W.C.2. (Pages 189-192.) Architects: Bronek Katz, M.B.E., DIPL.ING.ARCH., F.S.I.A., and Reginald Vaughan, A.R.I.B.A.; General Contractors, Westminster Joinery Ltd.; Sub-contractors, electrical work, Electrical Installations Ltd.; fibrous plaster work, C. E. Pinn & Co.; heating, White, Baize & White Ltd.

Readers requiring up-to-date information on building products and services may complete and post this form to *The Architects' Journal*, 9, 11 and 13, Queen Anne's Gate, S.W.1

ENQUIRY FORM

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

Please ask manufacturers to send further particulars to:—

NAME

PROFESSION or TRADE

ADDRESS

A.J.7.2.52

Planning for Large Scale Catering ?



Architects who may be faced with the technical problems of planning industrial canteens, kitchens for hospitals, hotels, restaurants, schools, institutions and the like are invited to enlist the aid of Stott's specialist Layout and Advisory services. Stott's nearest Area Manager will be glad to call on request.

Send today for Catalogue No. A.A.10

"Quality Built"

"Stotts of Oldham"

Any Questions?

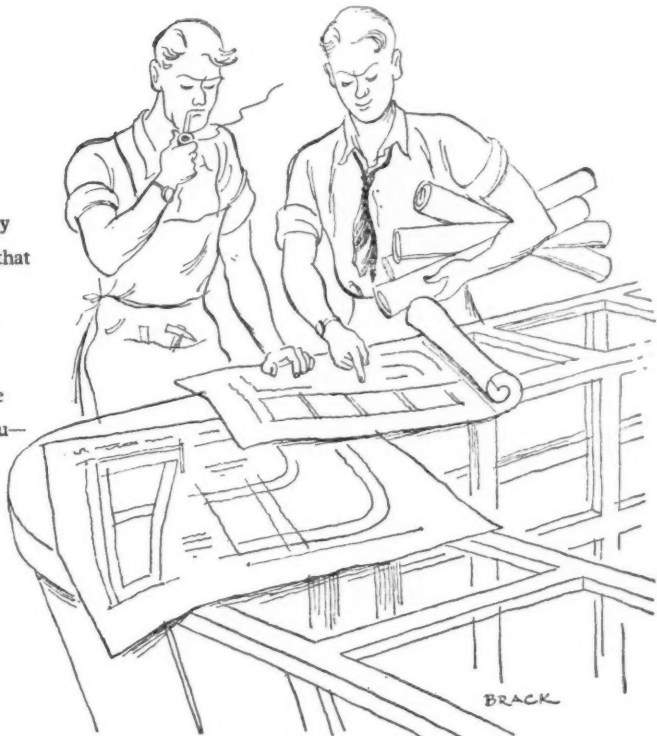
The applications of WARERITE Plastics are many and varied. We venture to say, however, that we have an intimate knowledge of them all.

Sometime, somewhere, one of the 'short-cuts' we have discovered might cut through a knotty problem of yours. That is the time to remember that the answers are all here for you—whenever you feel the need, write or 'phone for technical advice or booklets.



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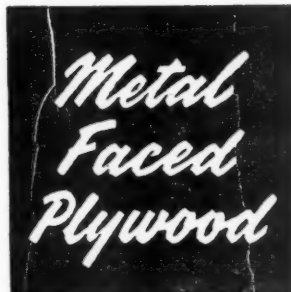
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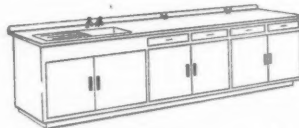
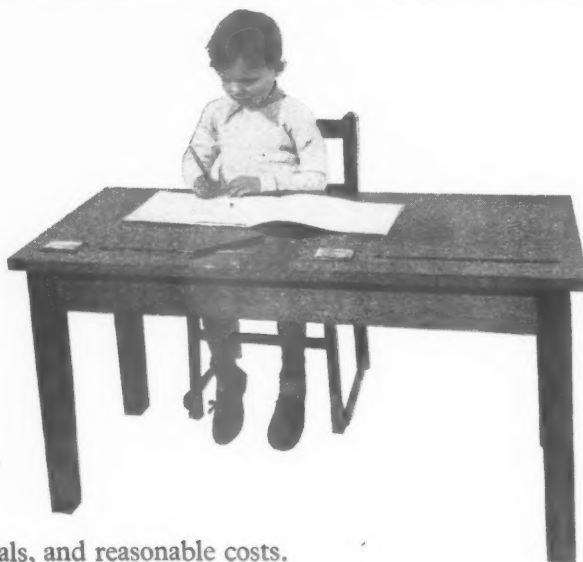
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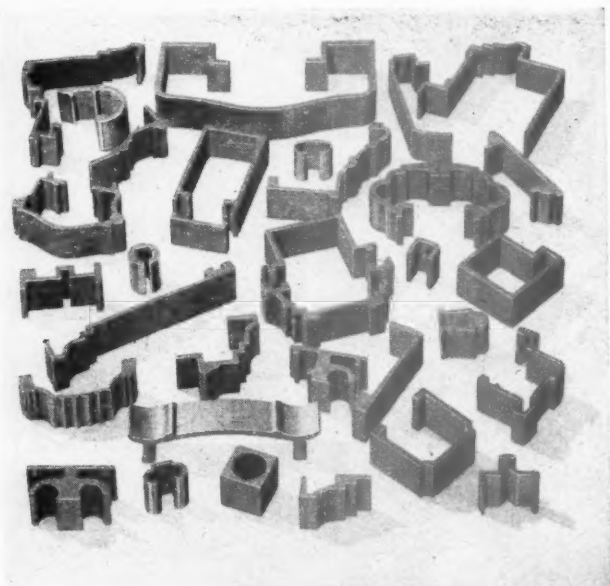
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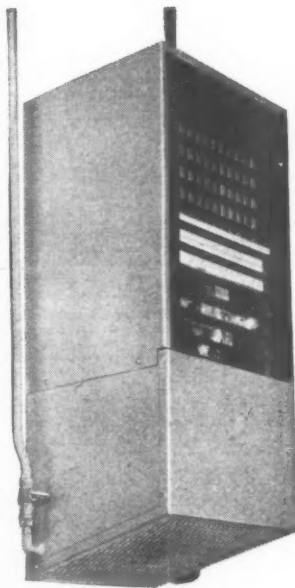
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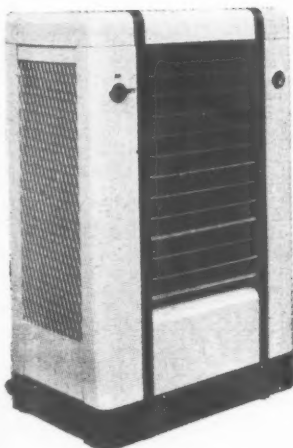


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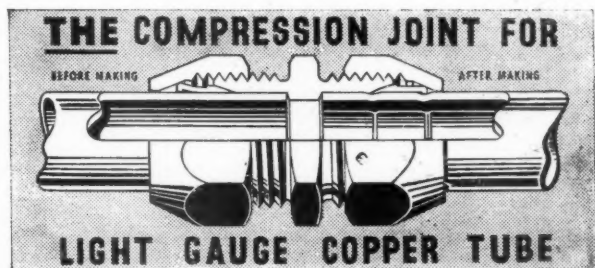
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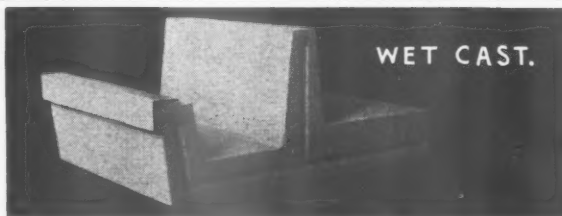
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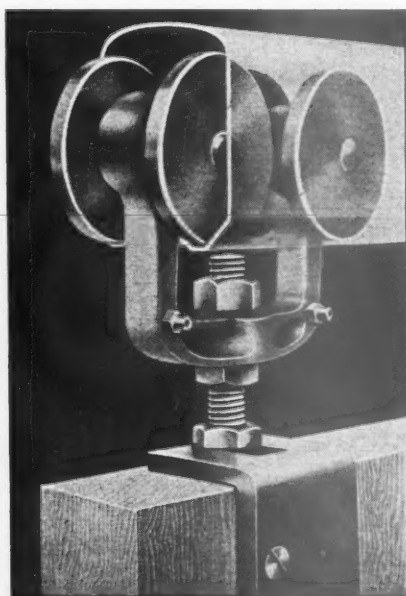
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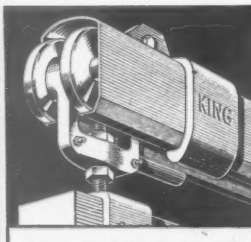


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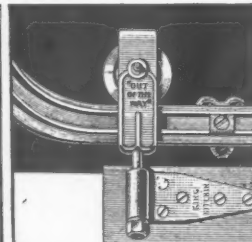
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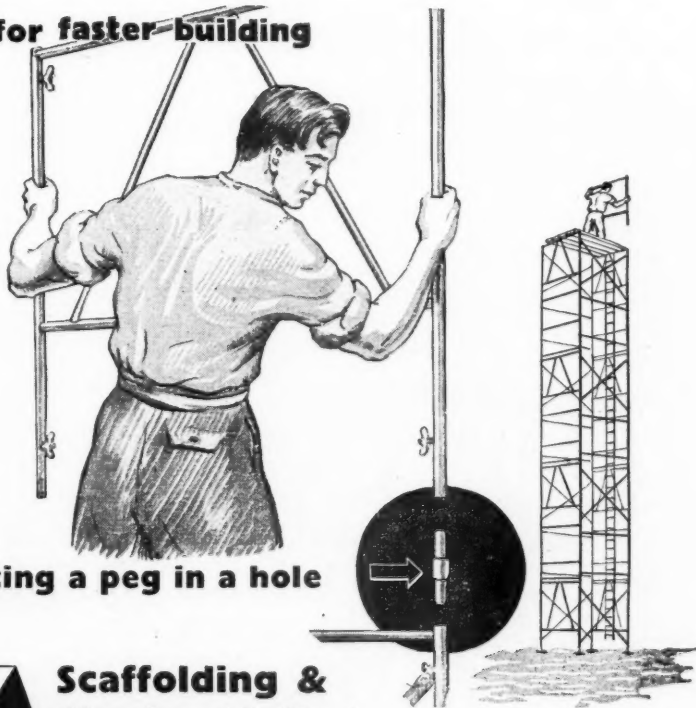
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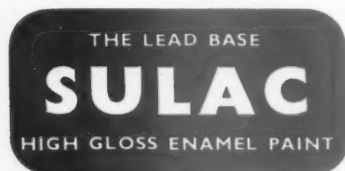
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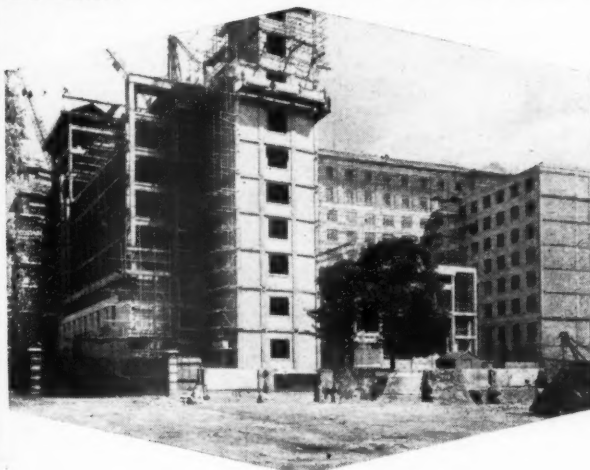
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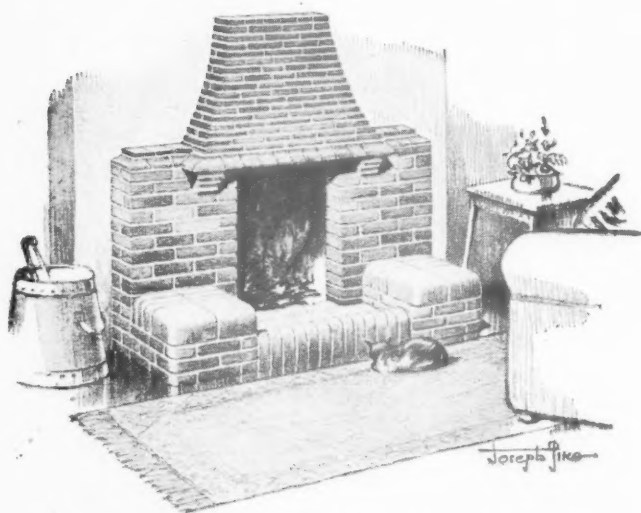
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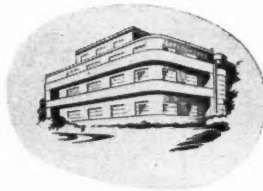
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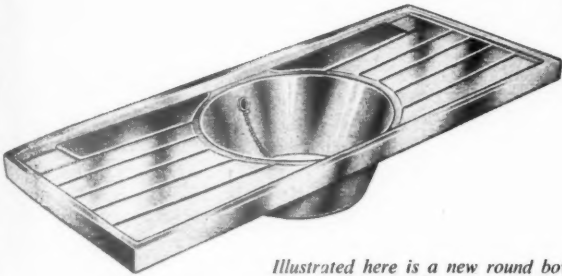
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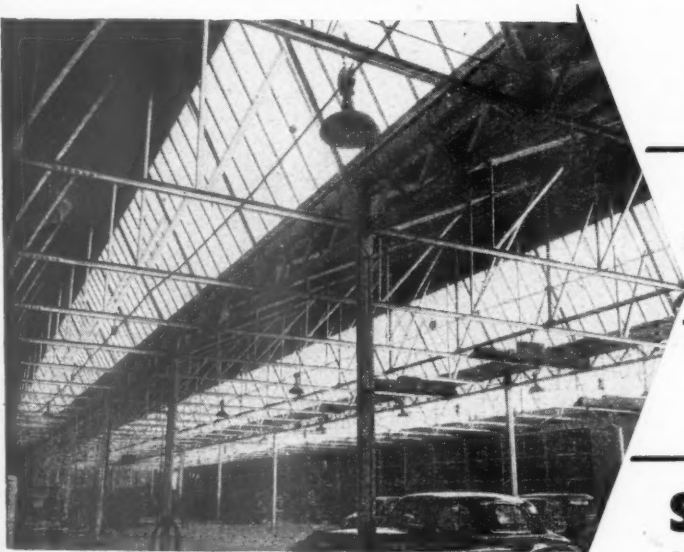
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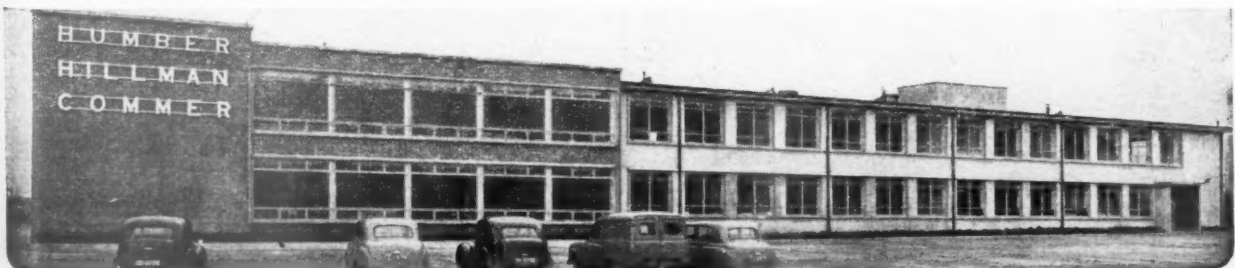
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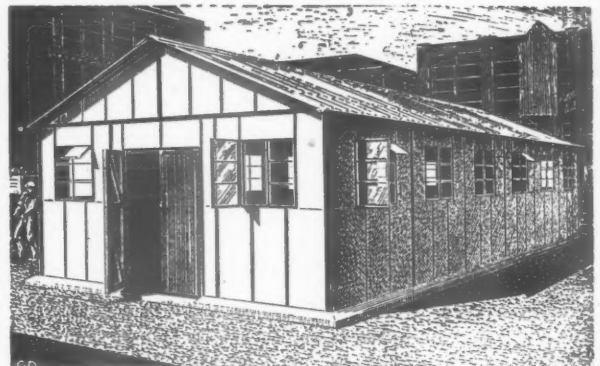
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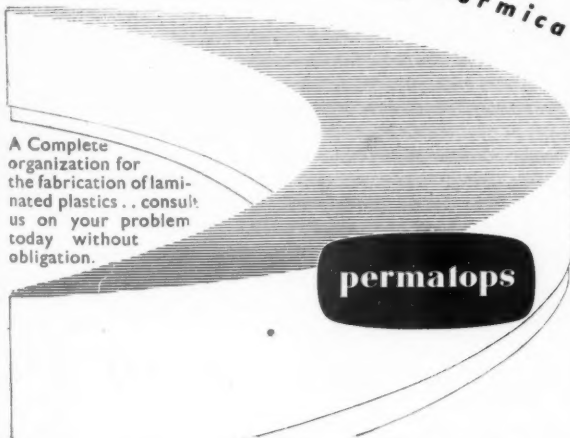
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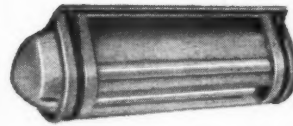
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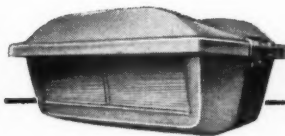
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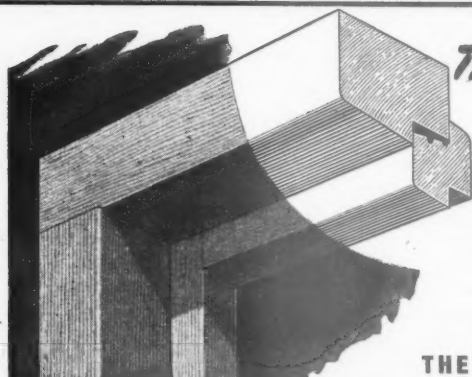
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Advertisements should be addressed to the *Advt. Manager, "The Architects' Journal,"* 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

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

Public and Official Announcements

25s. per inch; each additional line, 2s.

AIR MINISTRY WORKS DEPT.

ARCHITECTURAL DESIGNER/DRAUGHTSMEN required in Design Branch by Air Ministry Works Department. Applicants should have had several years' experience in the preparation of working drawings, details and layouts for permanent and semi-permanent buildings. Vacancies are mainly in London, but there are some in the provinces. Salaries are on ranges up to £675 per annum, with starting pay dependent upon age, qualifications and experience. Applications, stating age, qualifications, previous appointments (with dates), should be sent to Air Ministry (C20) Directorate-General of Works (W.9), Bush House, S.E. Wing, Strand, London, W.C.2, from which address further details may be obtained. 5162

URBAN DISTRICT OF FELTHAM. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, in the Engineer and Surveyor's Department, at a salary in accordance with Grade V of the Administrative, Professional and Technical Division of the National Scales £570 per annum, rising by two annual increments of £15 and one of £20 to £620 per annum plus London "weighting". Applicants must be Registered Architects.

The appointment will be subject to (i) the passing satisfactorily of a medical examination, (ii) the National Scheme of Conditions of Service, (iii) the provisions of the Local Government Superannuation Acts, and (iv) one month's notice, in writing, on either side.

Forms of application may be obtained from the undersigned, to whom they should be returned, accompanied by copies of two recent testimonials, not later than 19th February, 1952. Canvassing, directly or indirectly, will disqualify, and applicants must disclose in writing whether, to their knowledge, they are related to any member of the holder of any senior office under the Council.

M. W. COUPE.

Clerk of the Council.

Council Offices, Feltham, Middlesex. 6281

CORBY DEVELOPMENT CORPORATION.

Applications are invited from suitably qualified persons for the following appointments in the Chief Architect's Department:—

(a) **SENIOR QUANTITY SURVEYOR** at a salary of £750×£40×£40×£30—£900.

(b) **JUNIOR ASSISTANT QUANTITY SURVEYOR** at a salary of £500×£25—£550.

(c) **SENIOR ARCHITECTURAL ASSISTANTS**

(2) at a salary of £750×£40×£40×£30—£900.

(d) **ARCHITECTURAL ASSISTANTS** (2) at a salary of £600×£25—£700.

(e) **JUNIOR ARCHITECTURAL ASSISTANTS**

(2) at a salary of £500×£25—£550.

The appointments are required in connection with large-scale construction projects associated with the development of a New Town and candidates must have had suitable experience in, for appointment (a) the preparation of bills of quantities, measuring up and dealing with interim certificates and final accounts for housing and other contracts; (c) the design and execution of large-scale housing and other building works, etc.; (d) drawing, construction, etc., under an Architect.

The successful candidates will be required to pass a medical examination and to contribute either to a Superannuation or an Assurance Scheme. Applications stating age, education, training, qualifications, experience, past and present appointments and salaries, together with the names of two persons who can speak from recent personal knowledge of the applicant and to whom the Corporation can refer must be received by the undersigned not later than 15th February, 1952. Envelopes and applications must clearly indicate the appointment for which application is made. The Corporation will endeavour to assist candidates requiring housing accommodation.

R. F. BROOKS GRUNDY,

General Manager.

The Stone House, South Road, Corby, Northants. 6287

CITY OF WAKEFIELD.

APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT—GRADE A.P.T. VIII (£735-£810).

Applications for the above superannuable position from persons who are A.R.I.B.A. and have a wide experience in municipal work should be sent to me by the 23rd February, 1952, stating age, marital condition, qualifications, present and previous appointments with dates and salaries, and particulars of experience, and giving the names of two referees.

Housing accommodation will be provided for a married man.

W. S. DES FORGES.

Town Clerk.

Town Hall, Wakefield. 6324

**DENBIGHSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.**
The above County Council invites applications for the under-mentioned appointments in the County Architect's Department, Wrexham, viz.:

ONE SENIOR ASSISTANT ARCHITECT.
A.P.T. Division, Grade VII. Salary: £685-£760 per annum.

Preference will be given to Associates of R.I.B.A. Applicants must have had a thorough training in Architectural design and construction of Modern School Buildings and other works carried out by County Authorities.

TWO SENIOR ASSISTANT ARCHITECTS.
A.P.T. Division, Grade VI. Salary: £645-£710 per annum.

Preference will be given to Associates of R.I.B.A. Applicants must have had a thorough training in Architectural design and some experience in the construction of Modern School Buildings and other works carried out by County Authorities.

ONE ASSISTANT ARCHITECT. A.P.T. Division, Grade IV. Salary: £530-£575 per annum.

Preferably Members of R.I.B.A. Must have had good experience in Architectural design and in the preparation of working drawings and details.

ONE JUNIOR ASSISTANT ARCHITECT.
A.P.T. Division, Grade II. Salary: £470-£515 per annum.

Preference will be given to applicants who are nearing the completion of their studies for the Intermediate R.I.B.A. Examination. Applicants must be capable of preparing working drawings and details.

TWO JUNIOR ASSISTANT ARCHITECTS.
Provisional, Grade (a). Salary: £425-£470 per annum. (One at Wrexham office and one at Abergelge Area office.)

Preference will be given to applicants who are preparing for the Intermediate R.I.B.A. Examination. Applicants must be capable of the preparation of working drawings and details.

ONE ASSISTANT QUANTITY SURVEYOR.
A.P.T. Division, Grade V. Salary: £570-£620 per annum.

Candidates must have passed the Intermediate Examination of the Royal Institution of Chartered Surveyors (Quantities Section), and have experience in "taking off" for all types of building works undertaken by a County Authority.

In addition, he should be familiar with, and will be required to undertake "working up" in all stages, measurement of works on site, interim certificates and final accounts.

ONE LANDS AND BUILDINGS SURVEYOR.
A.P.T. Division, Grade V. Salary: £570-£620 per annum.

Preference will be given to Members of the Royal Institution of Chartered Surveyors, Sub-Division III (Building).

Applicants must be fully capable of producing accurate surveys of building sites, and sites in respect of water and sewage schemes; preparation of survey plans, site lay-outs and reports and estimating cost of site works; measuring up and surveying existing buildings and preparation of reports.

The appointments are subject to (a) the National Conditions of Service for Local Government Administrative, etc., Officers, (b) the Local Government Superannuation Act, 1937, (c) the passing of a medical examination, and (d) one calendar month's written notice on either side to expire at the end of a calendar month.

Applications, giving age, qualifications and particulars of present and previous appointments, and accompanied by copies of three recent testimonials, to be sent to the undersigned, by not later than the 15th day of February, 1952.

W. E. BUFTON.

Clerk of the County Council.

County Offices, Ruthin. 6292

WEST SUFFOLK COUNTY COUNCIL.

COUNTY PLANNING OFFICER.

Salary, £1,200×£50—£1,400 per annum. Must be either Member or Associate Member of Town Planning Institute, and hold professional qualifications in architecture, engineering or surveying.

Wide experience of planning in county, urban and rural areas is essential, preferably with a County Council. Administrative ability essential. N.J.C. service conditions; post pensionable; medical examination; car allowance on County Scale.

Application forms, obtainable from the Clerk of the County Council, Shire Hall, Bury St. Edmunds, to be returned by 23rd February, 1952. 6328

BOROUGH OF WEMBLEY.

TECHNICAL ASSISTANT—BUILDING MAINTENANCE DIVISION. A.P.T. Grade V, £570×£15 (2)×£20 to £620, plus London "weighting" allowance.

Applicants must be Associates of the R.I.C.S. or hold an equivalent qualification, possess a sound knowledge of building construction, and have had experience in maintenance work, including the preparation of specifications, the checking of accounts, and the supervision of works.

Applications, appropriately endorsed, must reach the Borough Engineer and Surveyor, Town Hall, Wembley, by 18th February, 1952. Names and addresses of three referees should be given, and any relationship to any member or senior officer of the Council must be disclosed. Canvassing disqualifies.

The Council will be unable to provide the successful applicant with housing accommodation. 6326

**BOROUGH OF WILLESDEN.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.**

APPOINTMENT OF ARCHITECTURAL STAFF.

Applications are invited for the following appointments on the Permanent Establishment of the Borough Engineer and Surveyor's Department:—

(1) **ARCHITECTURAL ASSISTANT.** Grade A.P.T. VII/VIII. £715-£840.

(2) **ARCHITECTURAL ASSISTANT.** Grade A.P.T. Va. £630-£690.

The salary scales quoted are inclusive of London weighting, and the commencing salary will be in accordance with the successful candidates' qualifications and experience.

Candidates for both appointments must be Associates of the Royal Institute of British Architects or hold an equivalent qualification.

Preference will be given to those having a general knowledge and experience of Architectural work in the service of a Local Authority.

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

It will be necessary for the successful candidate to provide his own housing accommodation as the Council is not in a position to assist.

Applications, stating age, qualifications, experience, etc., accompanied by copies of not more than three testimonials, should be addressed to the undersigned, endorsed "Architectural Appointment," not later than 10 a.m. on Monday, 18th February, 1952.

Canvassing, either directly or indirectly, will be deemed a disqualification.

(Sgd.) R. S. FORSTER.

Town Clerk.

Town Hall, Dyne Road, Kilburn, N.W.6. 6298

COUNTY COUNCIL OF THE COUNTY OF LANARK. HOUSING.

Applications are invited for the appointment of an **ARCHITECTURAL ASSISTANT** on Grade A.P.T. VI (£645-£710). Candidates should be registered Architects or Associates of R.I.B.A., and have experience in the preparation of working drawings and details for housing developments. The appointment is subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937, and successful applicant will be required to pass a medical examination.

Canvassing directly or indirectly will be a disqualification.

Applications, stating age, particulars of appointments, experience and qualifications and accompanied by the names and addresses of three referees to whom reference may be made should be lodged with the County Housing Architect and Engineer, 25, Beckett Street, Hamilton, not later than 20th February, 1952.

WM. C. BROWNLEE.

County Clerk.

Lanarkshire House, 191, Ingram Street, Glasgow, C.1. 6325

COUNTY BOROUGH OF STOCKPORT.

ARCHITECTURAL ASSISTANT.

Applications are invited for the position of Architectural Assistant (Housing). Salary: A.P.T. Grade III (£500-£545 p.a.).

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

Applications, stating age, qualifications and experience, together with the names of two referees, must be delivered to me not later than 18th February, 1952.

Candidates must disclose whether to their knowledge they are related to any member or senior official of the Council.

WM. F. GARDNER, M.I.C.E.,

A.M.T.P.I.,

Borough Surveyor.

Town Hall, Stockport. 6333

COUNTY BOROUGH OF SOUTHAMPTON.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following positions:—

(a) **SENIOR QUANTITY SURVEYOR.** Grade VII (£695-£760 p.a.).

(b) **QUANTITY SURVEYOR.** Grade VI (£645-£710 p.a.).

Applications, on forms, obtainable from L. Berger, Dip.Arch., A.R.I.B.A., Borough Architect, Civic Centre, Southampton, should be returned not later than 18th February, 1952. 6327

LONDON COUNTY COUNCIL.

Hammersmith School of Building and Arts and Crafts. Reopened.

(1) **LECTURER IN ARCHITECTURE** (A.R.I.B.A. or F.R.I.B.A.) as Studio Instructor in design, construction and subsidiary subjects.

(2) **LECTURER** in building construction, building quantities and allied subjects to Ord. and Higher Nat. Diploma standard, preferably also able to teach Land Surveying.

(3) **ASSISTANT** in building construction, geometry, building quantities, etc., in Nat. Diploma and City and Guilds craft courses.

Salaries (1) and (2) £900×£25—£1,000, plus London allowance; (3) commencing salary varies between £411 and £792 and max. between £678 and £792, according to qualifications and experience. Application forms from the school, Lime Grove, W.12, to be returned within 14 days. (68) 6307

COUNTY BOROUGH OF WEST BROMWICH. ASSISTANT ARCHITECTS.

Applications are invited for the following appointments on the permanent staff of the Borough Engineer and Surveyor:—
(a) ASSISTANT ARCHITECT, A.P.T., Grade VI.
(b) ASSISTANT ARCHITECT, A.P.T., Grade VI.

Suitable housing accommodation will be provided.

The persons appointed should hold and continue to hold the appropriate qualifications set out in the Grading of Special Classes of Officers of the National Charter, M.I.

One month's notice, either side, superannuated, medical examination.
Applications, stating age, experience, etc., with names of two referees, to the undersigned by 16th February, 1952. Canvassing a disqualification.

H. SCHOFIELD, B.Sc.(Eng.),
A.M.I.C.E.,
Borough Engineer and Surveyor,
Town Hall, West Bromwich.
28th January, 1952. 6312

UNIVERSITY COLLEGE OF NORTH STAFFORDSHIRE.

Applications are invited for posts of Assistant Architect on the staff of the Buildings Officer and Architect of the University College of North Staffordshire. Appointments may be made on the grades Senior Assistant Architect, (a) £520-£760, (b) £620-£685 and Assistant Architect, (c) £530-£575, according to qualifications and experience. The duties may include work on buildings for teaching and research in the humanities and sciences, general purpose buildings, students' hostels, staff residences and general services. Superannuation and child allowances will be paid. Further particulars may be obtained from the Registrar, The College, Keele, Staffs, to whom three copies of applications giving full details of age, qualifications, experience, etc., and the names of three referees should be sent, to reach him not later than February 29th, 1952. 6338

UNIVERSITY COLLEGE OF NORTH STAFFORDSHIRE.

Applications are invited for the post of:—
(a) CLERK OF WORKS, salary scale £570-£620;
(b) CLERK OF WORKS, salary scale £500-£546 to work in the Department of the Buildings Officer and Architect.
Applicants for (a) must have a practical knowledge of all branches of the Building Trade, experience in the supervision of erection of buildings and must be capable of setting out, taking levels, measuring up, checking bills of quantities, keeping records and making reports. Experience of steel and reinforced concrete construction is essential. The work will primarily consist of supervision of the New Laboratory complex.
Applicants for (b) will be required to assist in the supervision of the erection of halls of residence, flats, houses and other buildings.
The posts will be subject to superannuation and child allowances.
Applications, which should be in triplicate, giving date of birth, particulars of training and experience, past and present appointments, together with copies of two recent testimonials and names of two referees, should be forwarded to the Registrar, The College, Keele, Newcastle, Staffs, to be received not later than Saturday, 23rd February, 1952. 6339

BRACKNELL DEVELOPMENT CORPORATION.

Applications are invited for the following appointments:—
(1) SENIOR QUANTITY SURVEYOR. Salary £810-£850-£960.
Applicants must be Corporate Members of the R.I.C.S. (Sub-Division III Quantities) and fully experienced in "taking off" dimensions and the preparation of bills of quantities for all classes of work.
(2) ASSISTANT ARCHITECT. Salary £610-£640-£680.
Applicants must be Corporate Members of the R.I.B.A. and should have had good general experience including the design of house types and the layout and construction of large housing developments.
(3) ARCHITECTURAL ASSISTANT. Salary £480-£520-£580.
Applicants should have passed or be in an advanced stage of preparation for the Intermediate Examination of the R.I.B.A. and should have had sound experience in design and construction.
These posts are superannuable under the Local Government Superannuation Act, 1937, successful candidates being required to pass a medical examination.
Subsistence allowances are payable in certain cases for a limited period to allow for arrangements being made for family accommodation locally.
Applications, in envelopes suitably endorsed, must give full particulars of age, qualifications and experience and past and present appointments (with salaries) together with the names of two persons to whom reference may be made, and must reach the General Manager, Bracknell Development Corporation, Farley Hall, Binfield, Bracknell, Berks, on or before 20th February 1952. Candidates are required to state if they are, to their knowledge, related to any member of the Corporation or staff. 6337

URBAN DISTRICT COUNCIL OF CORBY. ARCHITECTURAL ASSISTANT.

Applications are invited for two appointments of Architectural Assistant in the department of the Engineer and Surveyor, at salaries in accordance with qualifications, training and experience, and will be as follows:—

Appointment (a):
Registered Architects, with six or more years' experience in an Architect's office or at a School of Architecture, Grade VI, A.P.T. (£645-£710).

Appointment (b):
Architectural Assistants of not less than two years' experience in an Architect's office (exclusive of pupillage or attendance at a School of Architecture), Grade IV, A.P.T. (£530-£575); Grade V, A.P.T. (£570-£620), or Grade Va, A.P.T. (£600-£660), according to qualifications and practical experience.

Candidates must have experience of the design of buildings, preparation of working drawings, building details, estimating and, preferably, of local authority housing.

Housing accommodation will be made available to the selected candidate (if married) after a period of 3 months' satisfactory service.

The provisions of the Local Government Superannuation Act, 1937, will apply to each appointment.

Forms of application can be obtained from the undersigned, and requests therefore should indicate the position for which application is being made. Completed forms must be received not later than 12 noon on Thursday, the 21st February, 1952.

G. B. BLACKALL,
Clerk of the Council.
Council Offices, Corby, Northants.
29th January, 1952. 6317

CITY OF BRADFORD. TECHNICAL STAFF.

Applications are invited for the following appointments in the City Engineer and Surveyor's Department:—

TWO JUNIOR PLANNING ASSISTANTS (Posts No. 55 and 58). Grade A.P.T. I-IV (£440-£575).

Applicants should have passed the Intermediate Examination of at least one of the following bodies: Inst.C.E., Inst.Man.E., R.I.B.A., T.P.E. or equivalent. Some experience in the preparation of development plans would be an advantage. Successful candidates would have an opportunity of experience in other sections of the department dealing with Highways, Drainage, Architectural experience in connection with housing, according to their qualifications and ability. The successful candidates will be appointed on the appropriate grade, depending on qualifications and experience in accordance with the National Scheme of Conditions of Service.

ONE TOWN PLANNING ASSISTANT (Post No. 31). A.P.T. III-V (£500-£620).

Applicants for this post should have qualifications at least equivalent to the above posts of Junior Planning Assistants, and have had substantial practical experience. The successful candidate will be appointed strictly in accordance with the National Scheme of Conditions of Service, according to qualifications and experience.

The appointments are subject to Local Government Superannuation Act, 1937, including medical examination. Application forms, to be obtained from the City Engineer and Surveyor, must be returned quoting post number and giving details of experience, together with not more than three testimonials to the undersigned, not later than 18th February, 1952. Canvassing will disqualify. No housing accommodation can be provided.

W. H. LEATHEN,
Town Clerk.
Town Hall, Bradford. 6313

NATIONAL COAL BOARD— WEST MIDLANDS DIVISION.

Applications are invited for the following appointments in the Divisional Architect's Department of the Board with Headquarters at Himley Hall, near Dudley, Worcs.

(1) ONE SENIOR ARCHITECT. Salary £1,000-£935-£1,315 per annum.

Applicants should be Corporate Members of the Royal Institute of British Architects with extensive administrative and supervisory experience and capable of taking charge of a section of architectural work. Knowledge of large-scale industrial work an advantage.

(2) ONE ARCHITECT, GRADE I. Salary £855-£735-£1,100 per annum.

Applicants must be Associate Members of the Royal Institute of British Architects and have considerable experience in design, preparation of sketch plans, working drawings, specifications, supervision of works in progress, general administration and also able to control large contracts from start to finish.

(3) ONE ARCHITECT, GRADE II. Salary £875-£765-£900 per annum.

Applicants should be Associate Members of the Royal Institute of British Architects with experience in the preparation of sketch plans, working drawings and specifications.

(4) ONE ARCHITECTURAL ASSISTANT, GRADE I. Salary £475-£425-£550 per annum.

Applicants should be able to prepare sketch plans and working drawings from rough sketches under supervision and have a good knowledge of construction. Preference will be given to applicants who have passed the Intermediate Examination of the Royal Institute of British Architects.

(5) ONE SENIOR QUANTITY SURVEYOR. Salary £1,000-£935-£1,315 per annum.

Applicants should be Corporate Members of the Royal Institute of Chartered Surveyors (Quantities Sub-Division) with considerable experience in the preparation of estimates, bills of quantities, measuring up and adjustment of final accounts for large contracts and capable of co-ordinating work.

(6) ONE QUANTITY SURVEYOR, GRADE I. Salary £855-£735-£1,100 per annum.

(7) ONE QUANTITY SURVEYOR, GRADE II. Salary £575-£425-£650-£430-£900 per annum.

Applicants should be Corporate Members of the Royal Institute of Chartered Surveyors (Quantities Sub-Division) with experience in the preparation of estimates, bills of quantities, measuring up and adjustment of final accounts.

The salary scales quoted apply to men. The rates for women are slightly lower. The point of entry into the re-entrance salary scales will depend on the qualifications and experience of the successful applicants.

All the above posts are eligible for the Board's Superannuation Scheme.

Applications, giving age, education, qualifications and experience with dates in chronological order should be made as soon as possible to: Divisional Establishment Officer, National Coal Board, West Midlands Division, Himley Hall, near Dudley, Worcs., and should state quite clearly the appointment for which application is made. 6341

AMENDED ADVERTISEMENT. BOROUGH OF BEXLEY. BOROUGH ENGINEER & SURVEYOR'S DEPARTMENT.

ASSISTANT ARCHITECTS.

Applications are invited for the following posts:—

Assistant Architect (General). Salary within Grade A.P.T. VI (£645-£710 per annum) plus London "Weighting" allowance.

Assistant Architect (General). Salary within Grade A.P.T. V (£570-£620 per annum) plus London "Weighting" allowance.

Forms of application with Conditions of Appointment may be obtained from the Borough Engineer & Surveyor, West Lodge, Bexleyheath, Kent, to whom completed applications must be returned by 16th February, 1952.

The Council will give consideration to the provision of housing accommodation to successful applicants.

Canvassing, directly or indirectly, will disqualify.
W. WOODWARD,
Town Clerk. 6273

Tenders for Contracts

6 lines or under, 12s. 6d.; each additional line, 2s.

HAVANT AND WATERLOO URBAN DISTRICT COUNCIL. PUBLIC CONVENIENCES, HAYLING ISLAND.

Tenders are invited for the erection of a Public Convenience to be erected at Eastoke Corner, Hayling Island.

Plans may be inspected, and Forms of Tender and Specification obtained from the office of the Engineer and Surveyor, 1, Park Road North, Havant, on payment of a deposit of £2 2s. which will be returned on receipt of a bona fide tender, and the return of all documents.

No tender will be received except in a plain sealed envelope which may bear the word "Tender" followed by the subject to which it relates, but shall not bear any name or mark indicating the sender, and must be delivered to the undersigned not later than noon on Tuesday the 19th February, 1952.

The Council do not bind themselves to accept the lowest or any tender.

B. R. W. GOFTON,
Clerk of the Council.
Town Hall, Havant.
8th February, 1952. 6340

HALL AT HAINAULT.

Tenders are invited for the erection of a Hall at the junction of New North Road and Harbour Road, Hainault.

The hall is a single-storey brick building approximately 87 ft. by 32 ft.

Bills of Quantities and Form of Tender may be obtained from the Borough Engineer and Surveyor, on payment of a deposit of two guineas which will be refunded on receipt of a bona fide tender.

Drawings and General Conditions of Contract may be inspected during normal office hours.

Sealed tenders in the envelopes provided, which must bear no external indication of the identity of the senders, to be delivered to the undersigned by noon on Monday, 25th February, 1952.

KEITH LAUDER,
Town Clerk.
Civic Centre, Dagenham. 6342

Architectural Assistants Vacant

4 lines or under, 7s. 6d.; each additional line, 2s.

ARCHITECTURAL ASSISTANTS required with at least three or four years' office experience; minimum standard R.I.B.A. Intermediate. Five-day working week with pension scheme and staff canteen in operation. Applications in writing, giving age, training and experience to: Chief Staff Architect, Ilford Limited, Romford, Essex. 6252

ARCHITECT'S ASSISTANT, of R.I.B.A. Intermediate standard, for Architect's Dept. of Industrial concern in the Midlands. Some office experience of industrial work desirable. Salary by arrangement. Pension scheme. Apply in writing, stating age and experience, to Box 5262.

QUALIFIED CHIEF ASSISTANT (member also of R.I.C.S. or I.A.A.S.), able to prepare Bills of Quantities and experienced Final Accounts, required in East Midlands office. Car owner. Excellent future prospects for right man. No housing accommodation available. Reply to Box 6275.

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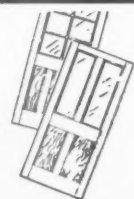


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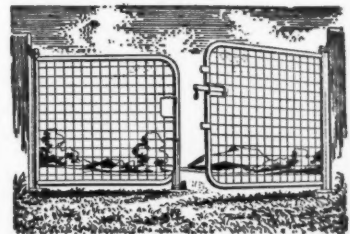
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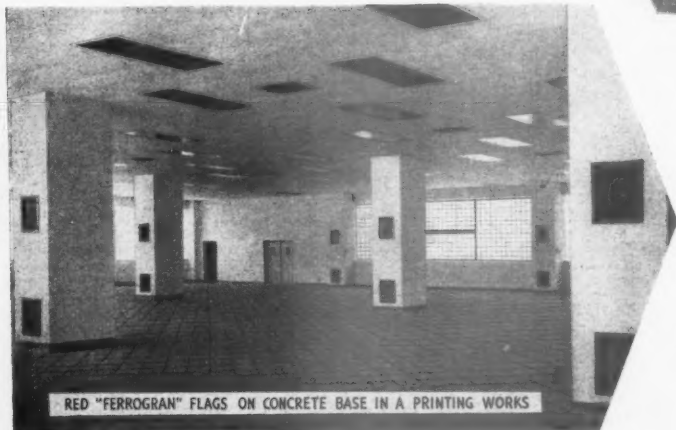
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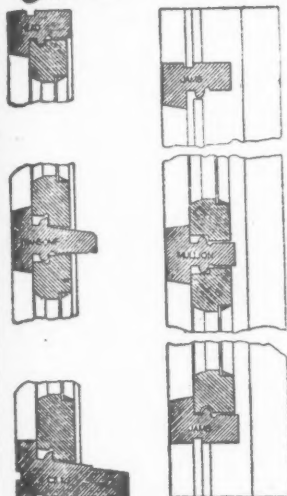


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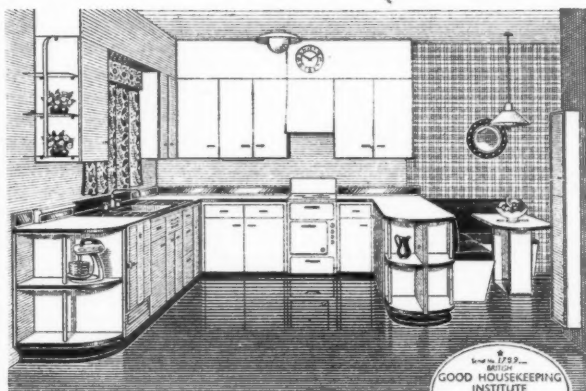
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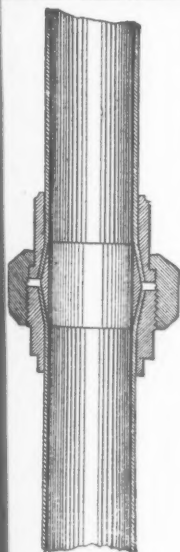
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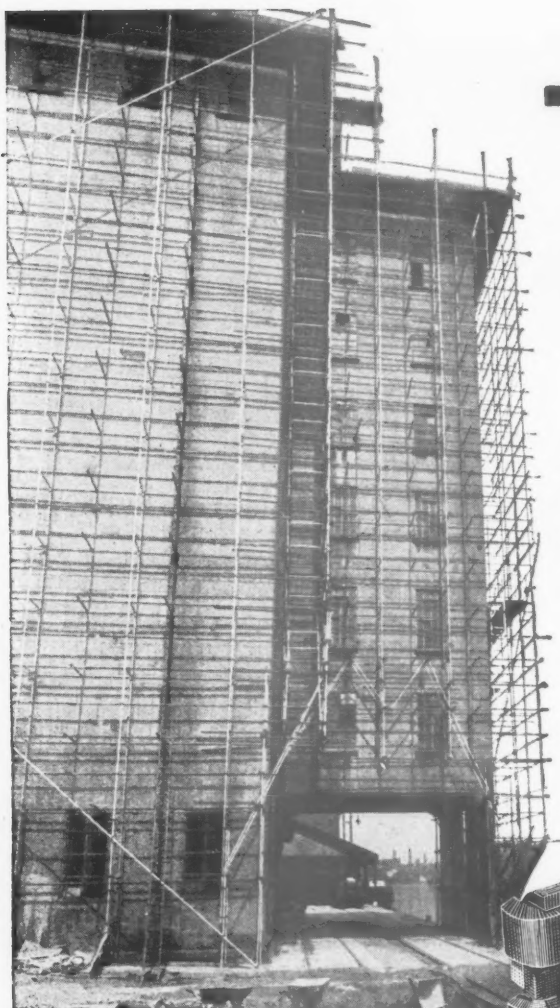
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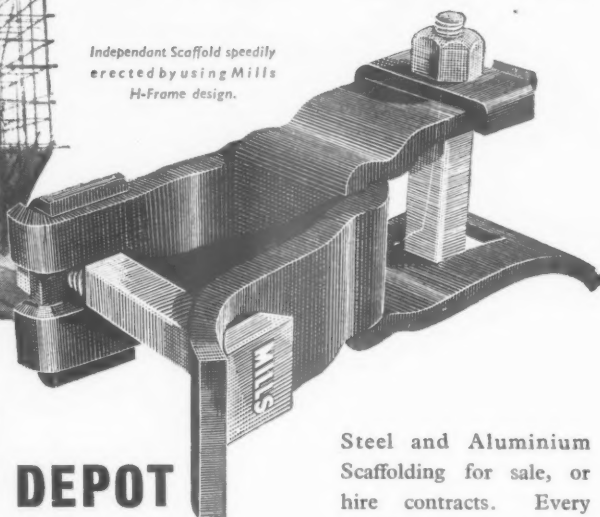


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