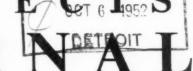
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standard

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 Ie one week, Ig to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

mentioned the word LONDON is implicit in the address.						
	IGE IHVE	Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1. Sloane 8266- Institution of Heating and Ventilating Engineers. 75, Eaton Place, S.W.1. Sloane 3158-1601				
l	HBD	Incorporated Institute of British Decorators. Drayton House, Gordon Street,				
	ILA I of Arb.	Institute of Landscape Architects. 12, Gower Street, W.C.1. Euston 2450 Institute of Arbitrators. 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2. Temple Bar 4071				
	IOB IR IRA ISE IWA LIDC	Institute of Builders. 48, Bedford Square, W.C.1. Museum 7197 5176 Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3. Avenue 6851 Institute of Registered Architects. 47, Victoria Street, S.W.1. Abbey 6172 Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1. Sloane 7128 Inland Waterways Association. 11, Gower Street, W.C.1. Museum 9200 Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1. Whitehall 7264/4175				
١	LMBA MARS	London Master Builders' Association. 47, Bedford Square, W.C.1. Museum 3891 Modern Architectural Research Group (English Branch of CIAM) Gontran Goulden, Building Centre, 26, Store Street, W.C.1. Museum 5400				
	MOA MOE MOH MOHLG MOLNS MOS MOT MOW NAMMC	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1. Ministry of Education. Curzon Street House, Curzon Street, W.1. Ministry of Health. 23, Saville Row, W.1. Ministry of Housing and Local Government. Whitehall, S.W.1. Ministry of Labour and National Service, 8, St. James' Square, S.W.1. Ministry of Supply. Shell Mex House, Victoria Embankment, W.C. Gerrard 6933 Ministry of Transport. Berkeley Square House, Berkeley Square, W.1. Mayfair 9494 Ministry of Works. Lambeth Bridge House, S.E.1. Natural Asphalte Mine-Owners and Manufacturers Council. 94-98, Petty France, S.W.1. Abbey 1010				
	NAS NBR NCBMP NFBTE	National Association of Shopfitters. 9, Victoria Street, S.W.1. Abbey 4813 National Buildings Record. 37, Onslow Gardens, S.W.7. Kensington 8161 National Council of Building Material Producers, 10, Princes Street, S.W.1.Abbey5111 National Federation of Building Trades Employers. 82, New Cavendish Street, W.I. Langham 4041 4054				
	NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4. Macaulay 4451				
	NFHS NHBRC	National Federation of Housing Societies. 13, Suffolk St., S.W.1. Whitehall 1693 National House Builders Registration Council. 82, New Cavendish Street, W.1.				
	NPL NSA NSAS	National Physical Laboratory. Head Office, Teddington. National Sawmilling Association. 14, New Bridge Street, E.C.4. National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.I. Abbey 1359				
	NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1. Whitehall 0211				
	PEP RCA RIAS	Political and Economic Planning. Reinforced Concrete Association. Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh. Edinburgh. Edinburgh 20396				
	RIBA RICS	Royal Institute of British Architects. 66, Portland Place, W.1. Langham 5721 Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1. Whitehall 5322/9242				
	RFAC RS RSA RSI RIB SBPM	Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1. Whitehall 3935 Royal Society. Burlington House, Piccadilly, W.1. Regent 3335 Royal Society of Arts. 6, John Adam Street, W.C.2. Trafalgar 2366 Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1. Sloane 5134 Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19. Wimbledon 5101 Society of British Paint Manufacturers. Grosvenor Gardens House.				

Society of British Paint Manufacturers. Grosvenor Gardens House,

SIA Structural Insulation Association. 14, Moorgate, London SIA Society of Industrial Artists. 7, Woburn Square, W.C.1. SNHTPC Scottish National Housing. Town Planning Council.

Grosvenor Gardens, S.W.1. Victoria 2186 Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8. Western 1571

Society of Engineers. 17, Victoria Street, Westminster, S.W.1. Abbey 7244 School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3.

Scottish National Housing. Town Planning Council.

Hon. Sec., Robert Pollock, Town Clerk, Rutherglen.

Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.

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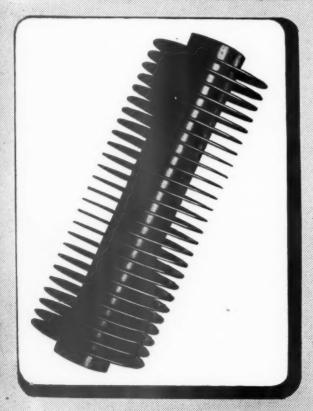
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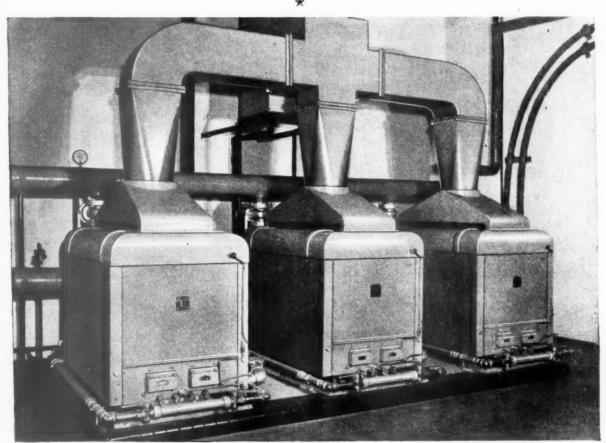
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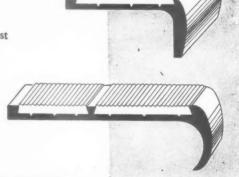
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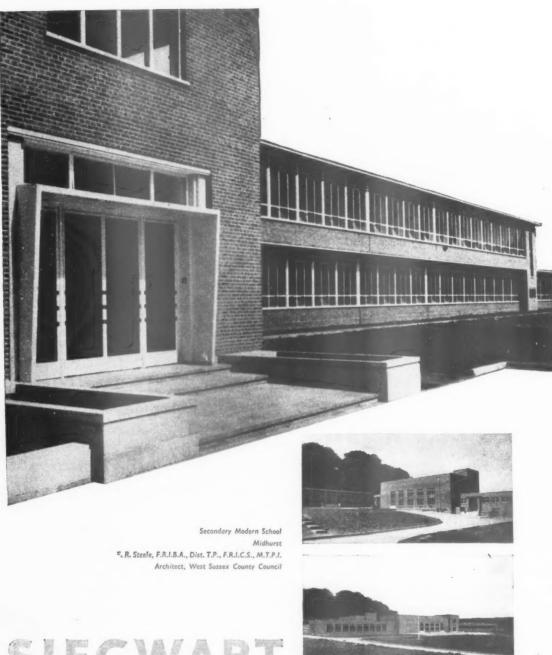
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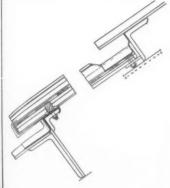
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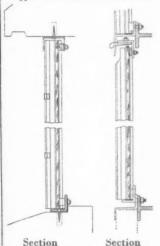


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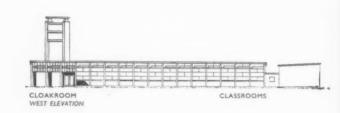


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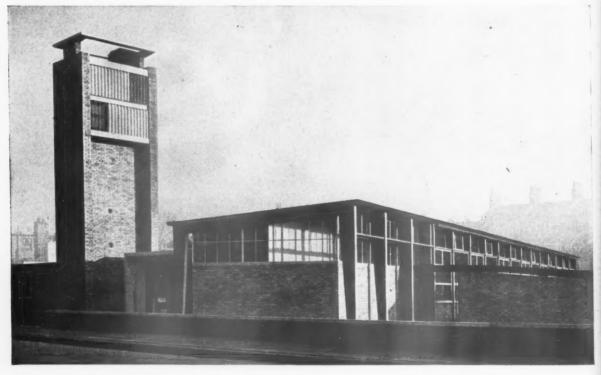
ASSEMBLY HALL COVERED WAY CLASSROOMS

This L.C.C. school occupies the site of an old school destroyed by bombing in 1944. It is designed to accommodate 240 children. The structure is a precast concrete frame with brick infilling. Considerable flexibility of plan has been achieved by using *in situ* "links", consisting of free shapes constructed of brickwork, between the framed portions of the building. 80,000 'PHORPRES' SAXON FACINGS were used for interior and exterior facing, in addition to 100,000 'PHORPRES' COMMONS and KEYED BRICKS.









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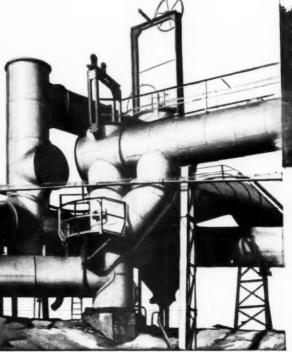
The lower photograph, of steel ducting for conveying coke-oven gas, shows the complex three-dimensional shapes into which steel plate can be manipulated.



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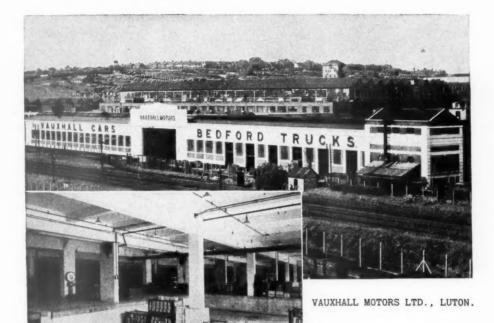


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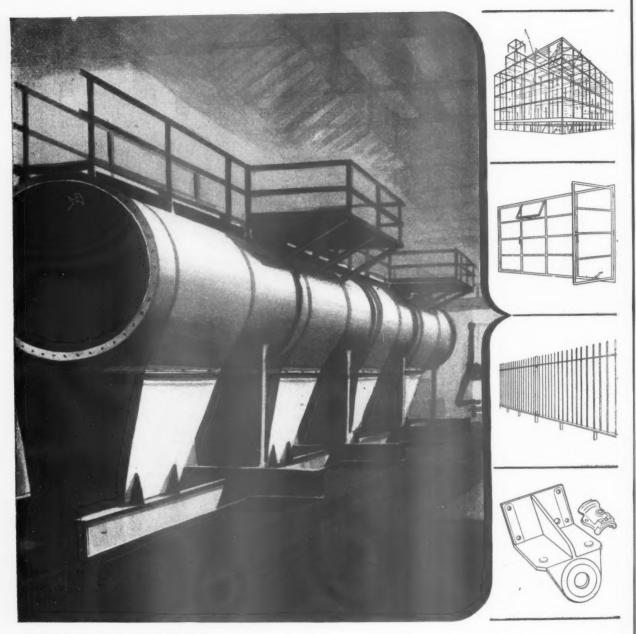
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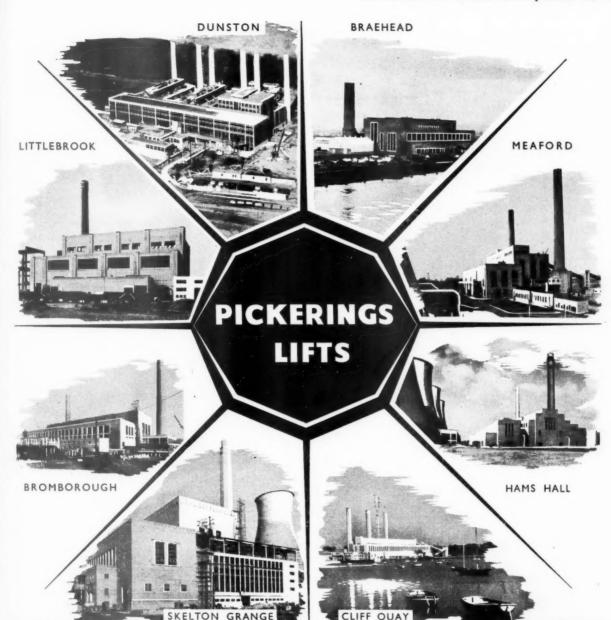
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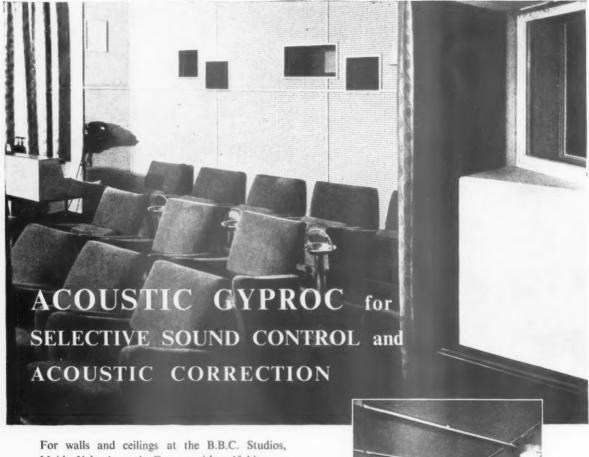
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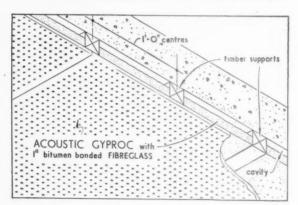
NEWCASTLE . BIRMINGHAM . MANCHESTER . BRISTOL . LEEDS . HULL . WORTHING . GLASGOW



For walls and ceilings at the B.B.C. Studios, Maida Vale, Acoustic Gyproc with a 1" bitumen bonded Fibreglass backing has been used. Above, a section of the Private Theatre and, right, the ceiling in the Projection Room.

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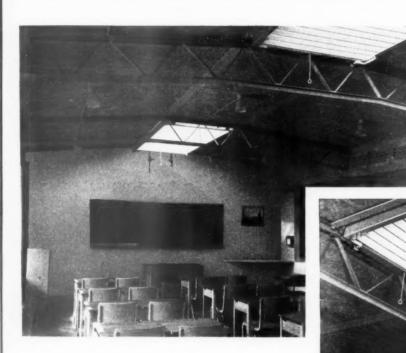
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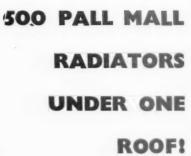


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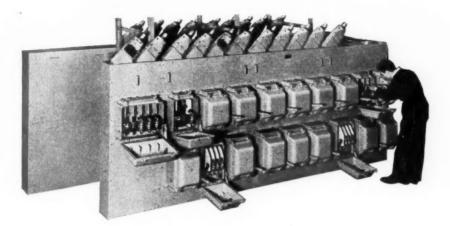
ST. BRIDGET'S HOUSE, BRIDEWELL PLACE, E.C.4.—another new building for the City of London and another new job for Crane! 500 Crane Pall Mall Cast Iron Radiators, 2, 4 and 6 column patterns, will have a warm welcome waiting for St. Bridget's House workers on those cruel, cold winter mornings. Crane have had plenty of experience in supplying heating equipment, for modern designers and engineers know that only the very best raw materials are allowed to enter the Crane Factory—and only the very best equipment is allowed to leave it!

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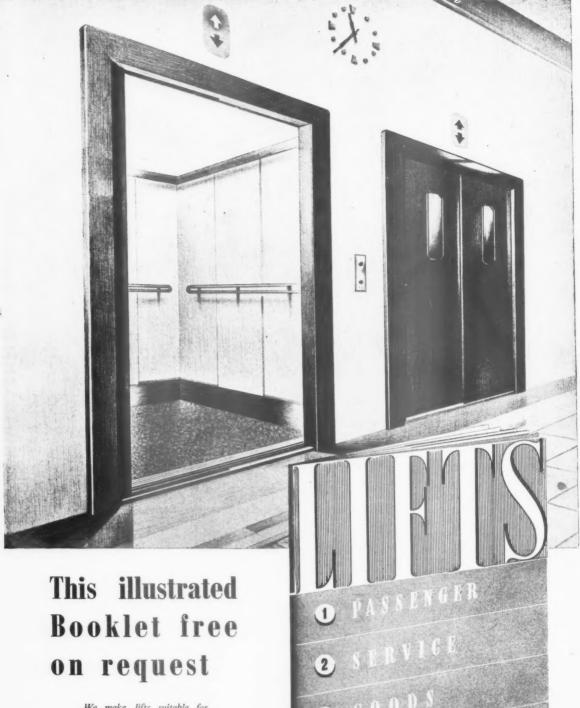
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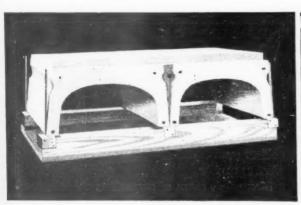
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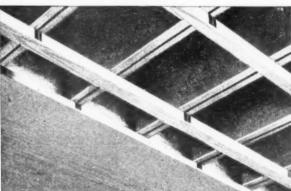
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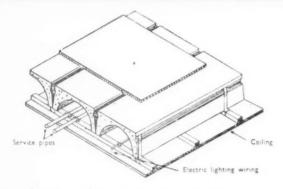
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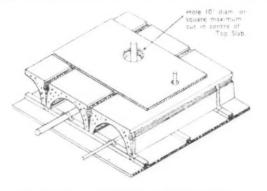
Sound insulation is of the utmost importance in dwellings, particularly in flats. Amongst the types of floor which the Building Research Station recommends for sound insulation in flats, is the ribbed concrete floor, a type to which the Truscon floor conforms. TRUSCON PRECAST FLOORS, with suspended or semi-suspended ceilings provide a satisfactory insulation against sound transmission.

Suggested method of constructing a sound resisting floor, showing finishes (refer to Building Research Station Digest No. 15).



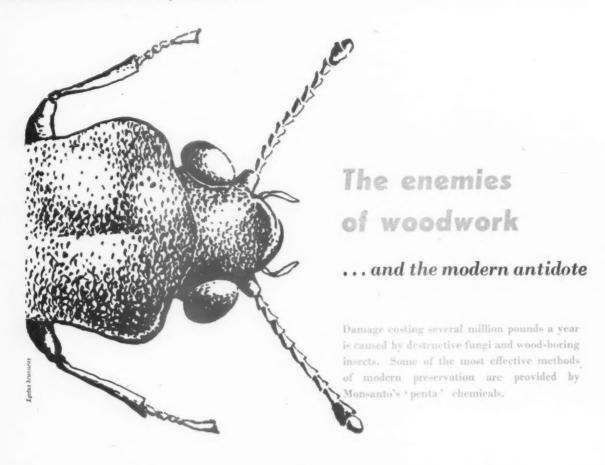






Domestic services can be housed within the voids of the Truscon units.

Details of the advantages of Truscon Precast Floors will gladly be sent on request



entrachlorophenol gives protection against all of the wood-destroying fungi and insects found in this country—including dry rot, furniture beetles, etc. When the annual cost of dry rot alone is



estimated at £20,000,000, such a preservative speaks for itself.

Remember — impregnated timber is the best guarantee of future immunity. 'Penta'—made by Monsanto in several forms—can be easily applied to whole timbers before construction by simple cold dipping; or it can be brushed on to woodwork already

in service which cannot be treated by dipping.

'Penta' preservatives are clean and safe to handle

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Full information and bulletins from Special Products Sales Department, Monsanto Chemicals Limited, (*Registered Trade Marks)



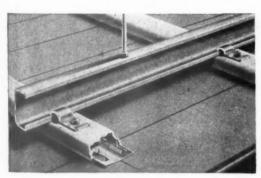
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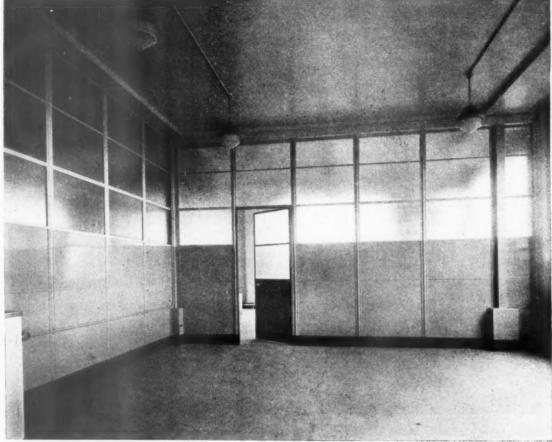
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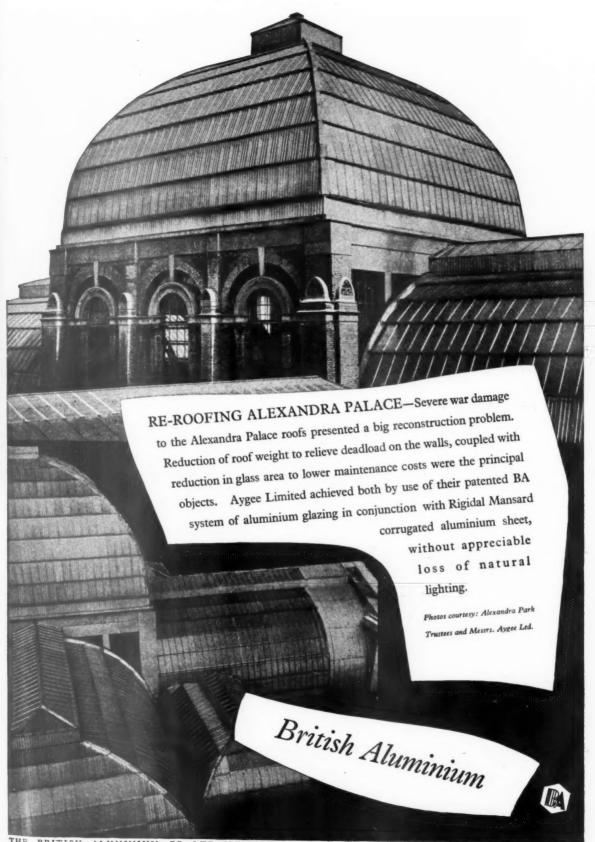
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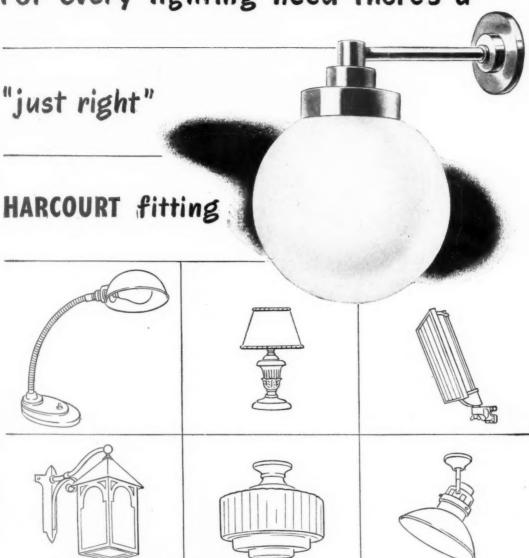
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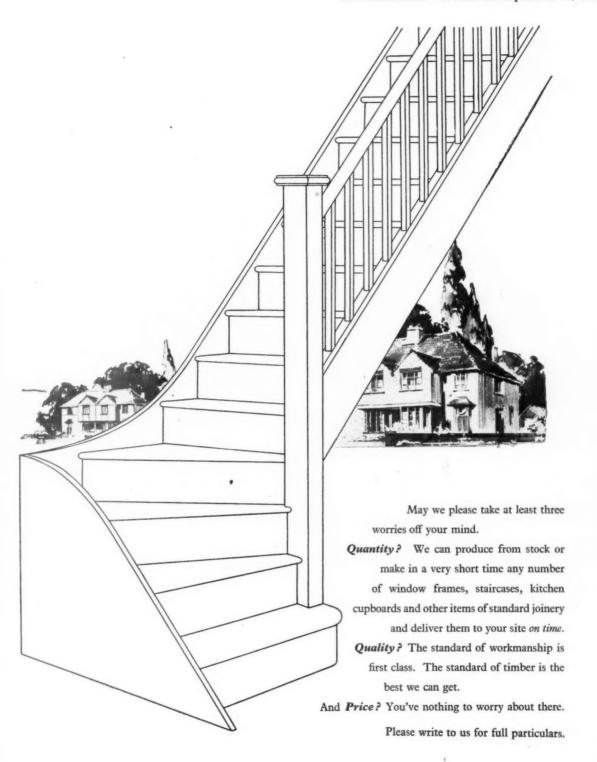


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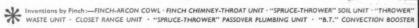


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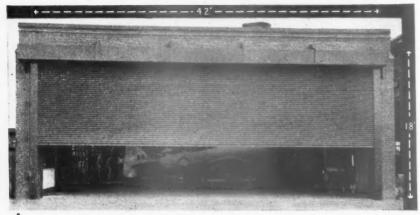


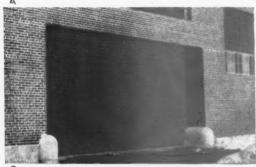




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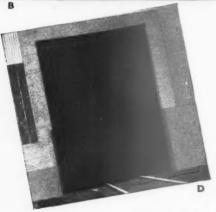
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Architects Cannot Afford to Ignore These Facts

How often do you stop to consider the appalling waste brought about by fires that occur each year in this country which, in a great number of cases, could have been far less disastrous. The average person, perhaps, seldom visualises more than damage to the actual structure. Little consideration is given to the preventable waste of raw materials and finished products, loss of production and consequent unemployment, or to loss of valuable goodwill through interrupted delivery schedules.

The figures given below, far from showing successful defeat of the fire menace, indicate that an inadequate consideration of the properties of materials used in building construction is still common practice, despite the fact that during the recent war 90% of the damage was caused by fire. The Napalm Bomb, now being used in Korea, is a reminder that in time of war, fire is one of the most serious problems confronting all sections of the population.

The Fire Protection Association of 84, Queen Street, E.C.4, commenced operations in January, 1947, with the following objects in view:—

To advance the science of fire protec-

To disseminate advice on fire protection and allied subjects.

To investigate the causes and spread of fire.

To publish codes of practice relating to fire protection.

To collate and analyse fire statistics.

To propagate knowledge in connection with fire protection.

To co-operate with Government Departments and other bodies interested in fire protection.

The tabulated figures given below are taken, with permission, from their quarterly journal published in April of this year and serve to stress the importance of adequate consideration being given by the architectural profession when new buildings are being designed or old buildings altered, to measures for preventing the rapid spread of fire and the avoidance, wherever possible, of the use of those materials which not only do not retard the spread of fire, but actually add considerably to the conflagration.

The Role of the Architect

It must surely be a primary aim of the architect to consider the best interests of his client and to advise him on the most suitable materials to be used in every stage of his building work, and to use his specialised knowledge so as to avoid loss by fire being greater than it need be. To do otherwise cannot be in the best interests of the profession. Where can the architect turn for guidance? The answer as far as BUILDING BOARDS are concerned is to be found in British Standards Specification No. 476 which classifies ceiling and wall lining materials according to the rate at which flame spreads over their surface. The general classifications shown are again taken from the Fire Protection Association Journal mentioned above.

British Standard Classifications

Asbestos Produ			Clas	s 1	
Plaster Board				33	1
Plywood				99	3-4
Resin-Bonded 1					
Resin-Bonder	J A - L	stor Do	a med		- 1
Resin-bonde	d Asbe	Stos Do	ard	9.9	- 4
Resin-Bonde				.99	1
		d Waste		99	2-3
		d Waste	е	29	2-3
Resin-Bonde	d Wood	d Waste	е	29	2-3

Material Selection

Particular requirements (e.g. thermal insulation) may suggest at first the use of a board possessing rapid flame spread characteristics, but the choice should be made with full appreciation of the risk involved so that adequate precautions may be taken to limit the spread of fire should one occur. Plasterboard—so widely used to-day for walls, ceilings and other parts of buildings-is one of the most highly fire-resisting building boards available and it is increasingly used in helping to prevent the rapid spread of fires. It is now available as a Thermal Insulation board. One surface of the board is veneered with bright heat-reflecting aluminium foil.

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Many members of the Profession are already specifying P.P.G. Insulating Gypsum Plaster Board for houses, factories, schools, libraries, churches and other buildings for its resistance to spread of fire and to wood-worm attack. allied to its thermal insulation properties. The G.P.O. is using it in automatic telephone exchanges where the rapid spread of fire would be disastrous to vital communications. Have you considered this problem? Ought you to think about it? Cost? Prices are even below those ruling for less advantageous boards. Please send your professional card or letter head for details, model specification and samples to:-Plaster Products (Greenhithe) Ltd., The Makers of Plasterboard, Greenhithe, Kent, England.

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Fire Wastage, 1951

In 1951, the direct damage caused by fire in the United Kingdom and Eire has been estimated at £23,148,000, the largest recorded annual loss.

	1951	1950	1949	1948	1947
	£	£	£	£	£
January	 1,555,000	1,839,000	1,720,000	1,073,000	827,000
February	 1,907,000	1,275,000	1,410,000	1,581,000	1,928,000
March	 1,737,000	1,508,000	1,494,000	2,091,000	1,274,000
April	 1,705,000	1,503,000	2,722,000	1,334,000	816,000
May	 2,536,000	1,176,000	1,606,000	1,831,000	1,000,000
June	 1,161,000	1,858,000	1,928,000	1,287,000	864,000
July	 1,912,000	1,214,000	979,000	1,038,000	1,838,000
August	 1,217,000	1,557,000	1,707,000	1,887,000	2,965,000
September	 1,761,000	2,097,000	1,338,000	1,277,000	884,000
October	 3,177,000	1,416,000	1,547,000	1,091,000	3,142,000
November	 2,467,000	2,812,000	4,286,000	2,062,000	2,363,000
December	 2,013,000	1,321,000	1,734,000	2,091,000	959,000
	23,148,000	19,576,000	22,471,000	18,643,000	18,860,000

Cargo Fleet

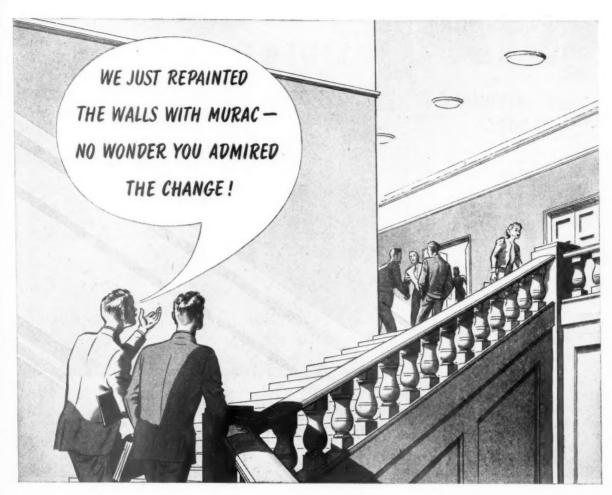


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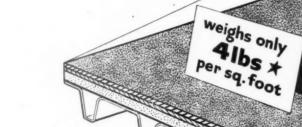
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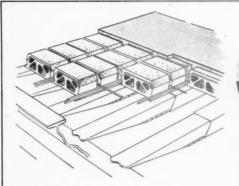
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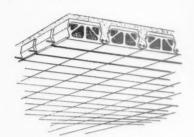
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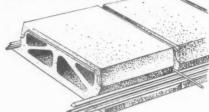
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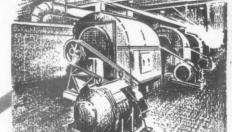
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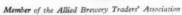
Gigarette Kiosk in Sapeli Mahogany

4 Lucullus Cocktail Bar with upholstered front

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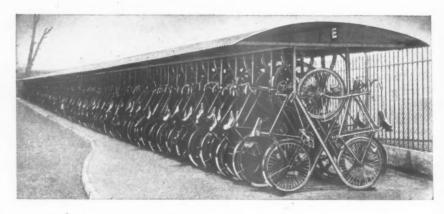
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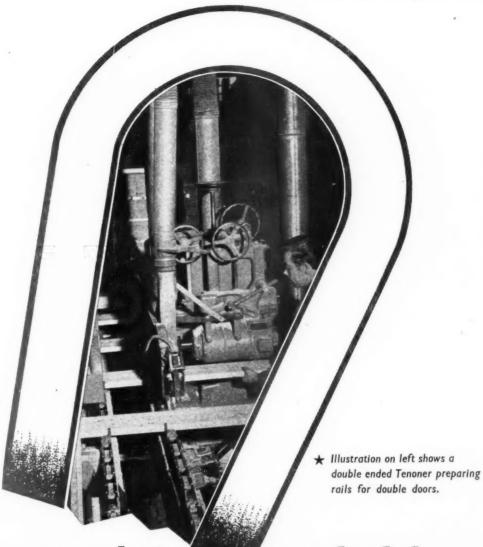
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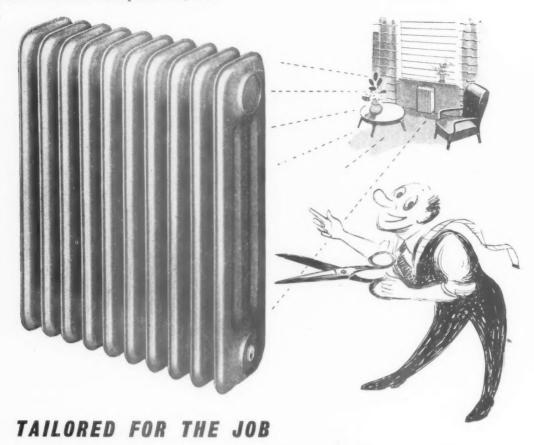
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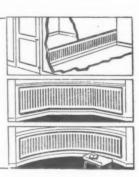
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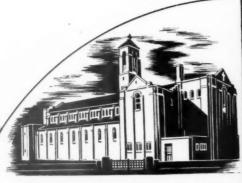
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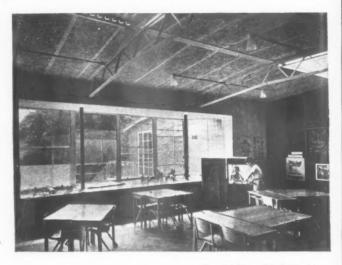
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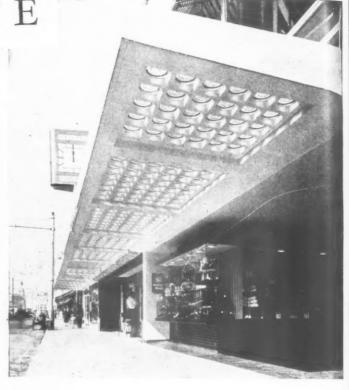
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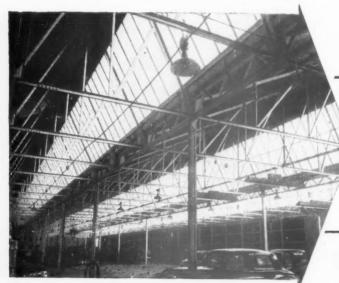
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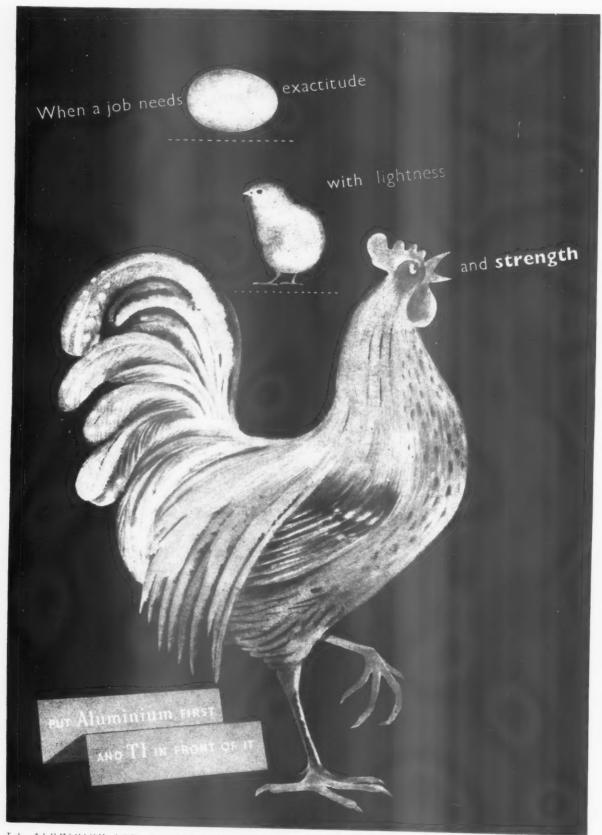
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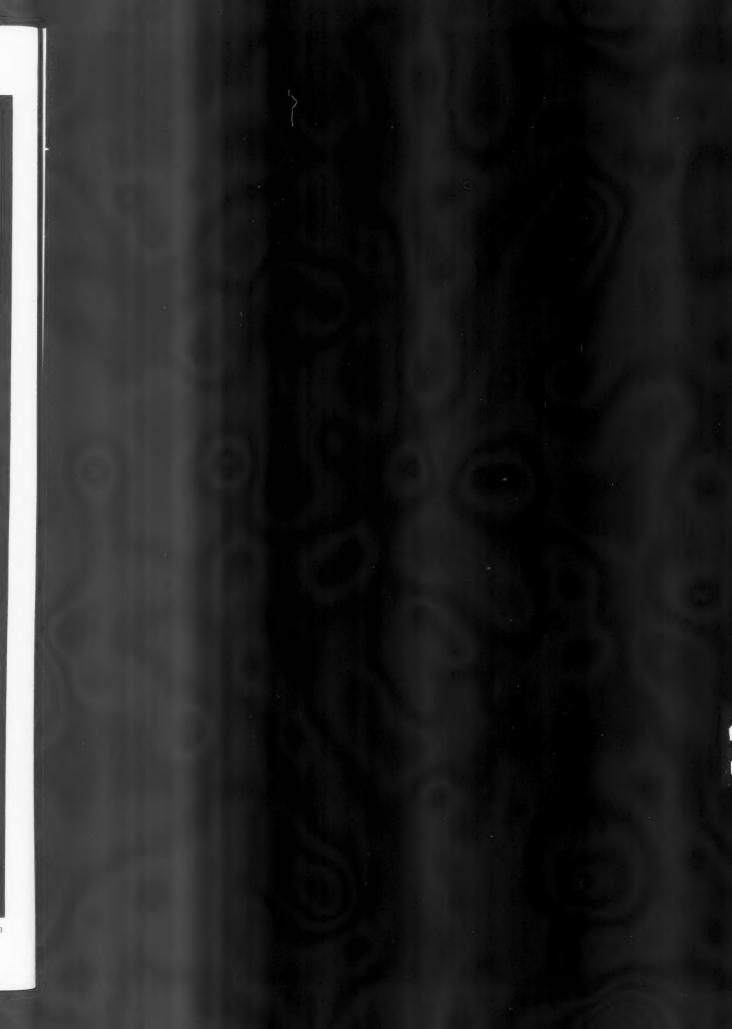
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No. 3003 'September 18, 1952 VOL 116



BUILD OR BUY AGAIN

Now that licences to build for oneself are more generally available quite a large number of eager couples are trying to answer the old question of whether to build or to buy; and any architect who shows signs of being unprejudiced-don't ask me what those signs are, but it's nothing to do with having candid blue eyes—is sure to be asked for advice.

Assuming that one really is unprejudiced, this old-time problem has lost none of its fascination. Both ways you have delay: either in looking for a house which doesn't make you feel ill to look at; or in finding a site, paying development charge and waiting while architect and builder run through

the whole range of possible delayswhich is pretty certain to make you feel ill also. On the whole, buying a house is likely to take a year less than building one.

As regards unit cost there does not seem much to choose between new and old. By the time you've moved in and paid off the lawyers both homes, in ASTRAGAL'S experience, cost around £2 per foot super. The big difference is in space. In a new house you can't get much more than 1,600 feet and frequently have to put up with 1,100 or 1,200, whereas it's quite difficult to buy anything much less than 2,000, and, of course, if you can afford a bigger house the price per foot begins to fall rapidly.

The central problem, therefore, is whether the wife knows (or thinks) she will be happier with mod. con. compactness or more space and less mod. con. This is a personal problem. In the case of the average woman, who, of course, wants mod. con. and space, it's much better to be her husband than her architect.

FLYING VISITORS

" It's like . . ." he said, dreamily looking out through the barred windows of the T. P. Bennett block of flats where he sat, ". . . camping in the Canadian forest. Inside, it's warm, sheltered and dark. Outside are the floodlit pines and the glowing eyes of the animals in the woods." The speaker was Philip Johnson-" Glasshouse" Johnsonover here for a few days en route to somewhere else, describing his famous vitrified home to a fellow-guest who would clearly, for all her openmouthed interest, be rather seen dead

than in a Canadian camp. "Sounds fascinating," she said, mechanically, drawing her little fringed "Stolemate" about her shoulders. . . . "I should simply adore it. . . ." Her eyes wandered off imploringly in search of reassurance from the Victorian bric-àbrac and trailing plants of the flat's modish interior. But Johnson-surely the gayest and liveliest ever of all architects and most welcome of visitors-remember his fascinating talk on F. Lloyd Wright at the RIBA—had already been seized upon by others anxious to make sure he did not waste a second of the few hours he had left in England. Sure enough next day he could be seen lunching with architects at the Reform and en route for the Festival Hall.... The party noise continued its familiar roar . . . "and for the first time I actually met Madame le Corbusier . . . over a million pounds worth of work on the board, old boy . . . will insist on still wearing a duffle coat. . . . Yes, but have you ever seen Corb's little windowless matchbox on Cap Martin? The w.c. cistern is actually cantilevered out over the sidewalk. . . . Spoiled the module, I suppose . . . not more cobblestones, surely . . . have you seen G.B.'s Hong Kong scheme? . . ."

STOP!

As they say in "In Town Tonight." Once more we stop the busy roar of parties to bring you news of interesting people who are in Town tonight-in other words, as well as Philip Johnson -Mr. Gordon Brown-over here for six weeks to get shot of the sketch designs for a group of buildings comprising a city hall, a 2,500-seater auditorium, library, museum and art gallery. Already he is on his way Specify
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gets l sent d he ha equa inter back to Hong Kong (via Borneo, where he has more planning work on hand) to resume his duties as Professor of Architecture at the University and to present his sketch plans for the city hall to the city council. And it is an ambitious project, this city hall at Hong Kong, made possible by the land reclamation scheme just starting and for which the indefatigable Gordon Brown is planning consultant. This, when completed, will give Hong Kong a new strip of building land along its waterfront. There's been a bit of a local controversy about who should design it and whether there ought to be a competition (which was, I believe, Gordon Brown's recommendation in the first place). But the Governor wouldn't have it and eventually it was decided that the job should be done jointly by Gordon Brown and the local public works department. This seems an excellent solution. Far too often the local official architects who perform, without complaining, all the tiresome tasks, get left out when the glamorous jobs come along.

Hong Kong PWD have, I know, already done some first-rate work-in fact some of the best in the Colony. It will be interesting to see what comes of this new partnership between private and public architects. Incidentally, all the right experts are in on it too (it was in order to have them handy that Gordon Brown made his sketch plans in London): Hope Bagenal on acoustics; Samuely on structure; Oscar Faber on air-conditioning-to say nothing of the unofficial and no doubt highly conflicting advice given to G.B. by those of his colleagues who caught a glimpse of the scheme on the drawing-board. As one of them I can say that the scheme at its early stage looks very promising: a bold group of three separate buildings of varying heights planned round a garden court of which the fourth side is open to Hong Kong harbour.

One of G.B.'s hardest tasks when he gets back will be to decide which to present of the several coloured perspectives he has had done by vastly different but equally skilled hands. It was most interesting to see what subtle and unsuspected transformations are wrought by these professional perspectivists



Pitzhanger Manor (1800-2) at Ealing, designed by Sir John Soane for himself. This is one of his lesser known buildings. The illustration appears in a book reviewed by ASTRAGAL on this page.

who are by no means merely those skilled but neutral interpreters of another man's vision that they are sometimes believed to be. The whole business is of course full of dangers, because a perspective artist who flatters your building-as he is paid to doand who thus bewitches the client is quite as often bewitching you as well and fooling you into thinking that the building is better than it really is. Sometimes I wonder whether it wouldn't be a good disciplinary stage in the design of all buildings to have a set of drawings specially done by a particularly insensitive draughtsman-just to make sure. Or have you already got one such draughtsman in the office? If so, let it pass. You know what it feels like without being told.

PRECIOUS PERRET

A very odd book—of which only 1,100 copies exist—is a little volume from the hand of Auguste Perret himself. It would be difficult to imagine anything—at least on a small scale—more precious. Those who would give the prize for preciosity to one or other of the English private presses, just don't know their France. Here are a couple of dozen aphorisms by the great man, each on a page by itself and each in Trajan lettering. L'Ossature est a l'èdifice ce que le squelette est a l'animal is, no doubt, an immortal statement, but really!

LEAVING A SOANE HALF-TURNED

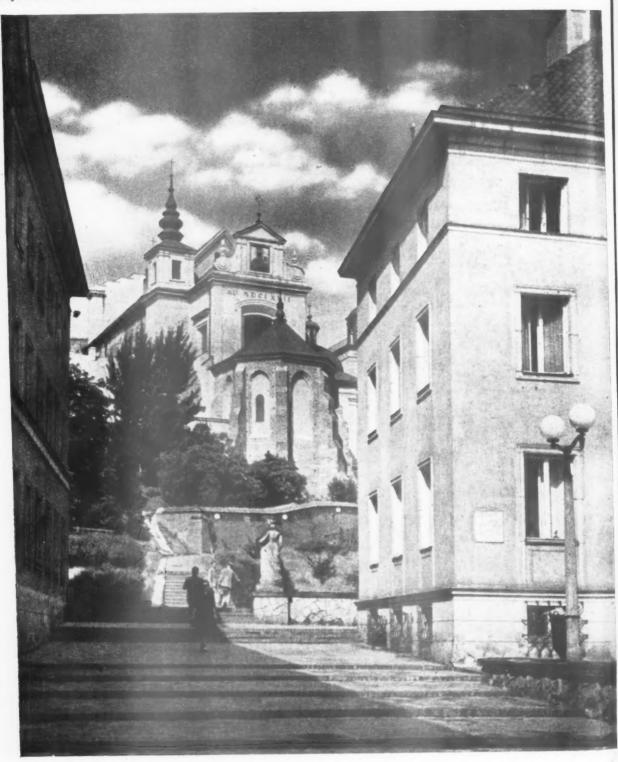
ASTRAGAL has only just got around to reading John Summerson's little

book on "Sir John Soane" (Art & Technics, 10s. 6d.) and what an admirable model it is for a book of this kind. Summerson has, it is true, something of the dryness of the historian—emotion, at any rate, is something quite foreign to him—but his lucidity is warmed now and then by a human touch that touches the reader's heart as well as his mind.

ASTRAGAL has only one criticism . . . one that he wished to make when Summerson read his paper on Soane to the RIBA two years ago. A great architect is a point in time; he has a future as well as a past; he influences as well as being influenced. But Summerson-and it was the same, I remember, with the erudite professors who joined in the discussion at the RIBA-seems interested only in the past. There is, of course, a fascination in knowing which obscure Italian villa did or did not influence the Bank of England; but infinitely more important, surely, is to know which buildings of the last ten or twenty years were influenced by Soane. And Soane, of course, more than anyone of his time, has been a remarkable influence -just how remarkable we will leave to Summerson to suggest in the more substantial book on Soane which he will surely give us one day.

CENTENARY SPECIAL

Railway enthusiasts among my readers may like to know about the plans made by Mr. A. F. Pegler, of Retford, Notts., and Messrs. H. T. S.



Warsaw: Old and New

In his talk on the reconstruction of Warsaw on the BBC Third Programme yesterday, Graeme Shankland described how "within [the central area] and woven into its new pattern of highways, streets and buildings, is reconstructed mediæval, 17th and 18th century Warsaw." The photograph above, taken by Mr. Shankland during his recent visit to Poland (see JOURNAL for September 4, p. 281), shows how well old and new are blended in rebuilt Warsaw. Taken

from the Marienstadt Square, near the centre of the city, the photograph shows part of the Marienstadt housing district. Between two new unpretentious three-storey blocks of flats can be seen the broad pedestrian way leading up to the reconstructed St. Anne's Church—a mediæval building with baroque additions, one of many restored or rebuilt since 1945. (Mr. Shankland's talk is to be repeated on Sept. 19 on the Third Programme, at 11.20 p.m.)

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page 338

Bailey and L. J. W. Smith, of London, to celebrate the centenary of King's Cross station, an occasion which ASTRAGAL, who has always regarded it as one of the noblest monuments of nineteenth-century architecture, thinks cannot be given too much attention. (The centenary will also be marked by an exhibition, October 13-18, at King's Cross, of Great Northern relics; among them the architect's drawings for the station.)

Lewis Cubitt's building was opened in October, 1852, a couple of months after the opening of the "Towns Line" joining Retford, Grantham and Newark to Werrington Junction. Showing, I think, great enterprise, Messrs. Pegler, Bailey and Smith are celebrating both centenaries simultaneously on September 28. They have booked a special train to take them and a party of 450 from King's Cross non-stop to York, and back, returning by the route taken by trains before the "Towns Line" was built-i.e., by Church Fenton, Doncaster, Retford, Lincoln, Boston, Spalding and Peterborough. The Railway Museum at York will be specially opened for the party, the day being a

The locomotive and rolling-stock will display special headboards, refreshments will be served on the down journey and dinner on the up, commemorative literature will be provided, and the railway people have printed a special souvenir ticket which the ticket collector will allow you to keep. The cost of all this is 35s. If you want to join in apply (quickly, before all the places are taken) to any one of the organizers already named (addresses below).* The train leaves at 9.15 a.m.; gets back at 8.15 p.m.

And while you're on the trip impress on everyone you can the advice given in the JOURNAL'S frontispiece of January 3—which was that the lasting way of celebrating the centenary would be to clear away all the junk in the way of shops and shacks that litters the foreground of Cubitt's noble building. British Railways should set to work at once. The present condition of it is a disgrace.

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ASTRAGAL

POINTS FROM THIS ISSUE

£250 allocated for sculpture at Kettering School		page 337
Architects appointed for re-building of City Temple		page 337
No UK delegates at UNO Housing Sub-committee		
meeting page	es 33	37 and 353
Export of prefabricated buildings . Minister		

The Editors

reports progress ...

STUDENTS AND THE RIBA

TT would be foolish to pretend that all has been well recently between students and the RIBA. So far as the students are concerned there has been a cumulative mistrust; the culmination, of course, was the imposition of the new regulation demanding a year of post-graduate practical experience prior to the Associateship. This—although highly desirable in the abstract—meant not only the breaking of a promise; it also meant that the schools were forced to repudiate their own formal statements—vide any school prospectus—that a five-year course led to Associateship. As Government grants to ex-service students were on a five-year basis any change was, moreover, a very serious financial matter. Above all, retrospective legislation is repugnant to fair-minded people. Some weeks ago, therefore—under some parliamentary and legal pressure—the Council took action. The Board was told to think again. As a result the regulation was duly postponed so as to affect only those-mainly not ex-servicewho would have had fair warning of it. At that point we were all prepared to forgive and forget. Unfortunately, there is a sequel.

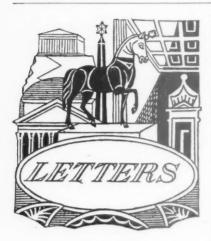
In March, 1952, a number of students—having finished their course the previous July at various recognized schools—took the RIBA Professional Practice Examination. This examination was announced and conducted in the usual manner, *i.e.* at the schools but with an approved RIBA external examiner. Some weeks later the successful students were informed by the RIBA that that examination was not an RIBA examination at all, but was only for purposes of registration with ARCUK; that for Associateship it would have to be taken all over again.

The following points are to be noted: 1. No Professional Practice Examination was then required for Registration; the regulations of ARCUK make it quite clear that the degrees and diplomas of the various schools were the qualification for registration. Whether those degrees and diplomas were awarded before or after Professional Practice was the affair of each individual school. We have, in fact, the names of seven students from four different provincial schools who were registered by ARCUK on March 14 without any Professional Practice Examination. 2. It seems peculiar for the RIBA to decide and inform students as to whether any particular examination is or is not an ARCUK examination . . . as a matter of fact there can be no such thing. 3. One of the

A. F. Pegler, White Lodge, Rampton, near Refford, Notts.; H. T. S. Bailey, 80, Bessborough Place, London, S.W.1; L. J. W. Smith, 898A, High Road, Finchley, N.12.

London students who was successful in the examination was accepted as eligible for his Associateship; for him the examination was recognized by the RIBA.

Since the secretary to the RIBA Board is also secretary to the ARCUK Board, the affair cannot be attributed to lack of liaison. Victimization is, of course, inconceivable. A great many other people, students especially, will await an explanation.



George Fairweather, F.R.I.B.A.

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K. R. Herbert

Time for Better Bye-Laws

SIR.—As you will probably know, the new revision of the LCC Byelaws goes a little way to reach the kind of regulation that relies on "performance" standards, although I feel sure they could have gone a long way farther in this direction.

You may also know that a new model is being drafted as a basis for revision of bye-laws applying in the urban and rural districts not subject, like the LCC, to individual powers. This new model now in an advanced stage of drafting goes quite a long way to-wards regulation by "performance" stand-

I come to the note by ASTRAGAL in the JOURNAL for July 31. The note surprises me more than a little, because I have always been under the impression that since 1939, the current model byelaws published by the Ministry of Health in 1939 (embodying minor revisions on the previous draft) formed the basis upon which all urban and applications of the previous draft of the state rural councils were required to frame their byelaws, subject only to such minor variation as may be expedient or necessary on account of exceptional local conditions, and such variations had to receive the Minister of Health's agreement before they could be

made. If that is so, the comment of ASTRA-GAL must be judged in relation to the model byclaws, and I suggest that the comment is reckless and misleading. The model byclaws do, in fact, permit the "new-fangled inner skins recommended by the subversive set-up at Garston."

I know that local surveyors are sometimes incapable of understanding the full meaning of the byelaws as written, and architects are similarly inclined, which is not surprising if you understand the English language only as spoken. Alternatively, local surveyors will put a bias on the interpretation of the byelaws that might very easily explain why your correspondent viewed the situation as

I think too the question of "waivers" has been misstated, as I understand that these things are not provided for under the Public Health Act, although I understand that "a special case," or something of the kind, might be made to permit a variation from

night be made to permit a variation from the strictly literal sense of any byelaw under the provisions of the Public Health Act.

A list of "special cases" is I understand kept at the Offices of the Minister of Health as a guide in dealing with future applications, but these are not published in a way that would in effect help to keep the byelaws up to date as the "waiver" system of the LCC does

I cannot imagine where the insistence upon a 9 in. eaves all round comes from and it would be most interesting to have the text of the byelaw requiring this. Again I suggest that the local surveyor may ask for this without having the authority of the byelaws behind him, except that "the roof of a building shall be weatherproof."

ing shall be weatherproof."

Sanitary inspectors generally enjoy very full powers of discretion where the design and layout of drainage works are concerned. These powers can easily be exceeded, and I imagine that this may be the explanation for ASTRAGAL's comment on the requirement that pipes should adorn the external walls. The byelaws do not deal with this aspect of drainage, but the authority given to the sanitary inspector through the provisions of the Public Health Act may be in your correspondent's mind.

I suggest, anyway, the Leicester architects might serve themselves and Leicester best by

might serve themselves and Leicester best by putting the question to test by conforming to the byelaws of the 1939 model published by the Ministry of Health, and then see what the local authority would do about it.

Forgive me if I take exception to ASTRAGAL's comment when in fact I am myself a most insistent critic of the byelaws in their present form. Sound criticism will help to get the improvements we want to see, but rockless criticism will not reckless criticism will not.

We want regulation by "performance" rather than by ways and means, but if we have these, we must ourselves be able to use then, and we must have more highly skilled administrators. administrators. Regulation by performance would probably give local surveyors even greater powers of discretion than they have now and might lead to even greater abuses than we encounter at present. The intro-duction of "deemed to fulfil" clauses as schedules attached to byelaws can overcome this weakness of performance regulation. and I understand that this principle is being applied in the new draft for the model byelaws of the Ministry of Health.

Amusingly enough, I was recently made to accept that an "L" shaped room in a flat in London should be assumed to be two rooms for the purposes of permanent ventilarooms for the purposes of permanent ventila-tion because the connecting width of the two strokes of the "L" was only five feet wide. It appears that there is no definition of a "room" in the byelaws, and it falls within the authority of the district surveyor to de-cide. I complied rather than fight a Certifi-cate of Irregularity in the courts—most disappointing of me.

GEORGE FAIRWEATHER

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Overcrowded Profession

SIR,-In your issue of August 28, 1952, ou suggest that a census be taken, to ensure that a balance be struck between the annual intake and wastage in the profession, of architects and assistants.

We suggest that another more important census be taken, to ascertain the wastage of building work to the architectural profession.
Something must be done to remedy the difficulties experienced by so many students in London and the provinces who are unable to find employment. Surely far too much work

hind employment. Surely far too much work is allowed to by-pass the architect.

With the increase in licences for private houses and the issue of block licences to builders, a very small proportion of these houses—probably less than 25 per cent.—are designed and supervised by architects. To what extent is this situation due to the neglect of the profession to bring its services to the notice of the public? Far too many of those about to build avoid the architect believing they will save the cost of architect's

Can no national effort be made to en-lighten the public and help avoid further disfigurement of the land by more monotonous "semis"?

> J. E. WADSWORTH, R. A. DYER, T. L. MARSDEN, L. MASSEY.

Manchester.

Survival of the Fittest

SIR,—Like your correspondent P. G. Hemingway (AJ, July 31) I, too, follow the question of architectural education in your columns with more than ordinary interest and I am much intrigued by his disarmand I am much intrigued by his disarmingly simple solution to the problem. To enforce a compulsory reduction of entrants into the profession by 50 per cent. is, no doubt, both realistic and convenient from Mr. Hemingway's point of view, for has he not the "Open Sesame" of all architectural qualifications after his name—that of ARIBA. What he is saying, in effect, is to parody a much maligned service expression, "Close the door Jack, I'm in!" Moreover, he obviously has not felt the lash of the recent RIBA revisions concerning their external examinations, which hardly come under his classification of "apprehensive propaganda

This problem of an approaching surfeit of architects, if and when it arrives, will, I think, resolve itself by the age-old law of supply and demand. Those who are both competent and industrious enough to with stand the competition within their own profession will survive to create a higher standard in architectural design and appreciation, and those who cannot come up to or maintain that standard, will presumably seek other ways of coming a living seek other ways of earning a living and will, incidentally, by virtue of their training, disseminate much needed qualified enlightenment on the subject of architecture amongst other walks of life.

R. HERBERT.

Surrey.

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ICA ORGANISING SCULPTURE COMPETITION AT KETTERING

The Avondale Junior and Infants' School, Kettering, which was completed recently, was designed by A. N. Harris, County Architect, and E. A. Goodall, assistant architect. The school, which accommodates 360 children, has been built for a total contract cost of £55,500, giving a net cost per place of £139 15s. The curved end wall of the assembly hall, seen in the photograph, right, and on the right in the photograph below, was specially designed as a background for sculpture. The

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Northamptonshire Education Committee have approved that a competition shall be held for the design of the sculpture and this is being organized by the Institute of Contemporary Arts. The ICA will nominate a panel of judges to advise the Committee, and the sum of £250 is available for the commission.



UNO

UK Delegates at Housing Sub-Committee

The UK was absent for the first time when the sixth session of the Housing Sub-Committee of UNO's Economic Commission for Europe took place earlier this month. Thirteen countries were represented, two UNO specialized agencies and several non-governspecialized agencies and several non-governmental organisations, including CIAM and the International Union of Architects. The absence of any UK representatives was greatly regretted by delegates, who paid tribute to the fact that the UK, together with Sweden, has "long led the way in Europe, particularly in public housing."

The most important item on the agenda was the report, which was adopted, of the

Housing Sub-Committee Research Organizing Committee which had met three times, in Brussels, in Maidenhead and in Paris. This committee had recommended the set-This committee had recommended the setting up of a non-governmental body to continue international co-operation in the field of building research, now that, in the words of Gunnar Myrdal, the executive Secretary of the ECE, "the bulk of [the Housing Sub-Committee's] purely technical work appears to have been taken as far as possible... [and] prospects have now been opened up of attacking broader economic and social of attacking broader economic and social problems."

problems."

It is expected that the new organization envisaged, which will come into being as a result of the transformation of the Council for International Building Documentation already set up with a headquarters in Paris by the Housing Sub-Committee, will hold its first convening assembly about the middle of next year. Although the UK was not represented at the sub-committee, their views on this item were conveyed to the meeting and it is understood that there is a good views on this item were conveyed to the meeting and it is understood that there is a good prospect of UK participation in the organization's activities in the field of building research, through the BRS. It appears, however, that the MOHLG attitude towards the new organization is somewhat reserved compared with the important part played by the MOW, and in particular its chief scientific advisor's department, towards the end of, and in the years immediately after, the war. During the session the Housing Sub-Committee took a number of decisions regarding

mittee took a number of decisions regarding mittee took a number of decisions regarding its work on general housing policy and on the cost of building. An important document on the cost of building, which has been in preparation for some time, is nearing completion, and is likely to be published on the authority of the sub-committee's officers towards the end of the year. The sub-committee also discussed the study in progress on European rent policies which it is hoped will be completed in the Spring of next year. In general, the session was marked by a clear tendency to orientate the sub-committee's tendency to orientate the sub-committee's

work more on problems of economic and social policy in the housing sphere and less on purely technical problems, which it is expected will be progressively handled by the new Documentation Research Organization now decided on.

The sub-committee unanimously elected as its new chairman André E. P. Marini, director of the French Scientific and Technical Centre for Building, and as its vice-chairman Alf Johansson, general director of the Swedish Housing Board.

Housing Board.

COVENTRY

Cathedral Design Amended

Further amendments by Basil Spence to his design for Coventry Cathedral were approved last Monday. Announcing his amendments, Mr. Spence said that he was greatly impressed by the serenity and peace of the churches he saw on his recent visit to Italy. He felt that this feeling must be translated into terms of the Hollington stone which is to be used at Coventry.

The principal amendment consists of reducing the width of the tall windows in the main walls and widening the spaces between so as to make the changes of plane less sudden. (Further details and illustrations next week.)

CITY TEMPLE

Architects Appointed for Re-building

Lord Mottistone and Paul Paget, of Messrs. Seely and Paget, have been appointed architects for the rebuilding of the City Temple, Holborn Viaduct. In addition to the church itself, a lecture hall and offices for the psychological clinic conducted by the Minister, the Rev. Leslie D

Weatherhead, are to be provided. The total estimate cost is over £200,000. Before building commences, the plans, which will be approved by the church council, are to be shown to members of the congrega-

The City Temple was destroyed by bombing in 1941; the decision to rebuild it was taken last year and demolition of the shell of the old church started last July.

ABT

Needs of Old People

At the recent Trades Union Congress, representatives of the ABT moved the following

sentatives of the ABT moved the following resolution which, with the support of the General Council, was passed unanimously: "This Congress is gravely concerned at the appalling conditions under which many old people are living. We believe that it should be the responsibility of the community to ensure that all old people are adequately housed, clothed and fed. We therefore call on the government to publish the facts about the conditions in which old people are living and in the meantime:

and in the meantime:

(a) To ensure that the housing programme includes an adequate proportion of suitable houses and flats for old people;

houses and flats for old people;
(b) To restore the programme of hostels, which has been drastically cut, and to increase it as soon as possible;
(c) To give special consideration to the needs of old people in the provision of health centres, hospitals and other facilities within the Health Service." within the Health Service."

The ABT representatives also raised the question of the proposed staff cuts to be made at the BRS, and urged the TUC general council to make immediate representations to the government to reconsider its policy.

COID

Coronation Souvenirs

The COID Coronation Souvenirs Committee is preparing for manufacturers of Coronation souvenirs an $8\frac{1}{2}$ -inch diameter Coronation souvenirs an 8½-inch diameter circular plaque in aluminium silicon alloy showing a crowned portrait head of Her Majesty the Queen, in profile. The design, a low-relief by T. Humphrey Paget, should prove of great value to manufacturers of souvenirs in metal, pottery, glass, plastics, leather and other materials, who wish to incorporate a suitable likeness of Her Majesty in relief

Mr. Paget, one of Britain's leading designers of coins, medals, seals and badges, is best known for his portrait head of King George VI on the coinage.

Contemporary Furniture at Glasgow Exhibition

Taking part for the first time in the "Modern Homes" Exhibition in Kelvin Hall, Glasgow, opening October 8, the COID Scottish Committee is presenting a display of contemporary furniture set up in a group of rooms furnished to fit modern living conditions and family budgets.

The committee's stand will occupy 1,000 sq. ft. in the central area of Kelvin Hall. It has been designed by Glasgow architects, Gillespie, Kidd and Coia. Rectangular in shape it will provide seven rooms, divided by a central spine running diagonally across the stand; thus breaking up the symmetry and giving added interest to the general view

of the rooms.

The "show house" form of presentation has been avoided, both because of its in-

herent risks of "bottlenecks" and its tendency to focus attention upon individual items instead of the general effect of a carefully-planned room setting

One of the Committee's main objects in organizing the display is to demonstrate that contemporary furniture and furnishings, understandingly used, can provide cheerful, cosy rooms, and need not seem cold and

austere as critics claim. Six of the rooms will be entirely contemporary in style. The seventh will be arranged to show how period and reproduction pieces can be shown to great advantage in contemporary settings. With one exception—a sitting room with a dining recess—the scale of the rooms will all be restricted to the dimensions of homes in the new The furniture has been housing estates. chosen by architect Mary Tindall and interior designer Margery Benson-Harries.

MOHLG

Applications for Timber

The MOHLG has sent to all local authorities in the London area a reminder that all applications for timber licences for softwood for housing purposes should be sent to the appropriate regional office of the Ministry, i.e., Caxton House, Tothill St., S.W.1, not to offices of the Timber Control. Considerable inconvenience is caused if licence applications are incorrectly addressed.

MOW

Export House Erected in One Day

The Minister of Works, David Eccles, opened recently a prefabricated house, the erection of which had been completed in one day. of which had been completed in one day. The house was a two-bedroom prototype of timber houses to be exported to Canada, similar in design to the houses being exported to Australia by the same firm (see JOURNAL for January 3, 1952).

Speaking at a luncheon, given by the firm

Speaking at a luncheon, given by the firm whilst the house was being erected by a team of ten workers, Mr. Eccles gave some encouraging figures of progress in this new export industry. The value of prefabricated buildings exported during 1951 was £5½ million, as compared with £2½ million in 1950 and only £80,000 in 1949. About two-thirds of this trade had been in timber houses; part of the remainder in aluminium. houses; part of the remainder in aluminium, steel and asbestos cement houses, part in schools, post offices, hospitals and industrial buildings. In the first six months of this year we had exported buildings to the value of £3½ million and Mr. Eccles hoped that the total for the year might reach £8 million.

Dollars earned by exporting these houses

to Canada could buy us Canadian timber for our houses, other important raw materials and foodstuffs. (The construction of these timber houses for Canada does not affect the supply of timber for the housing pro-gramme in Great Britain, as the timber for the export houses is imported under a special

Canadian observers, who watched the erection of the prototype and inspected it when completed, were very impressed both by the speed at which the work had taken place and with the quality of the finished job, which, they said, compared favourably with timber houses built in Canada. The seving timber houses built in Canada. The saving in labour costs (Canadian wage rates are roughly four times British rates) makes it possible to sell the completed house in Canada for \$1,000, or \$1,500 less than a

comparable Canadian-built house. Twentyfour of these houses are to be erected at Gander Airfield, Newfoundland, and four at Ajax, an experimental town of the Canadian Mortgage and Housing Authority. first crates for these houses started on their journey the same day that Mr. Eccles opened the "built-in-one-day" prototype.

The house which Mr. Eccles opened was designed by Starte Mark Ports.

designed by Stephen Kent Biggs, who visited Canada recently to study housing require-ments there. It is intended to be built over a basement, which in Canada is usually provided to house central heating (warm air) plant and because foundations in Canada must go and because roundaries in Chotographs and a full description of the house and the method of erecting it will appear in a forthcoming issue of the Journal.)

USA

Landscape Architecture Scholarship

The Department of Landscape Architecture, Graduate School of Design, Harvard University, offers to those eligible for admission as regular students a scholarship for the next academic year with an income of six hundred dollars (£214), equal to the tuition fee

Candidates must have received their Bachelor's degree, or equivalent, within the past

four years; students who are candidates for the degree in June, 1953, are also eligible. The scholarship will be awarded on the basis of scholastic standing and evidence of interest in the field of landscape architecture. The Department reserves the right to make no award if such a decision is deemed advisable.

The curriculum embraces the design of areas of land for human use and enjoyment—broad scale physical planning, civic de-—oroad scale physical planning, civic design, housing, parks and parkways. There is active collaboration with architects and with city and regional planners.

Further information will be given on request; all inquiries should be received before November 1, 1952.

DIABY

Lead in Modern Building, L. E. Allen, At 98, Gloucester Place, W.1. (Sponsor: Institute of Quantity Surveyors.) 7 p.n.?

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SEPTEMBER 18 Syon House—a film in the "Historic Houses of England" series. BBC Television

10 p.m.

Service.

SEPTEMBER 26

Royal Photographic Society: Annual Exhibition. At 16, Princes Gate, S.W.7. Monday to Friday, 10 a.m. to 8 p.m., Saturdays, 10 a.m. to 5.30 p.m. Sundays 2.30 to 5.30 p.m. The exhibition will close at 6 p.m. on Tuesdays, so that miniature colour transparencies can be projected, with commentary, at 7 p.m. UNTIL OCTOBER 12

The Development Plans: Conference. At the Council Chamber, County Hall, S.E.I. Sessions at 10.30 a.m. and 2.15 p.m. on both days. For particulars apply to TCPA.

OCTOBER 23, 24

Railroadiana: Exhibition. At 7, Albemarle Street, W.I. (Sponsor: National Book League.) Weekdays 11 a.m. to 5 p.m., Tuesday and Thursday until 8 p.m.

UNTIL NOVEMBER 5

The Architects' Journal for September 18, 1952 [339

HOUSING

at DUNBAR, SCOTLAND

designed by BASIL SPENCE and PARTNERS

The housing scheme on four sites near the harbour at Dunbar, which was illustrated briefly in the RIBA conference number of the JOURNAL, has recently been the subject of a housing award by the Saltire Society. The fishermen's houses have been built in an area that had become derelict and mostly on the sites of demolished houses. Their design and the materials used retain the character of the locality, while the irregular layout is designed to suit the hilly surroundings to the harbour.

Houses on site I, looking south-west.



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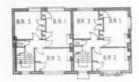
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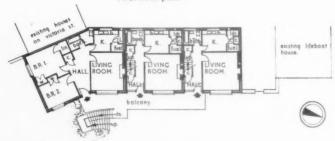
HOUSING

at DUNBAR, SCOTLAND

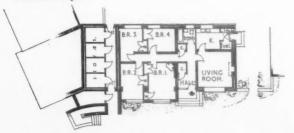
designed by BASIL SPENCE and PARTNERS



First floor plan •



Ground floor plan

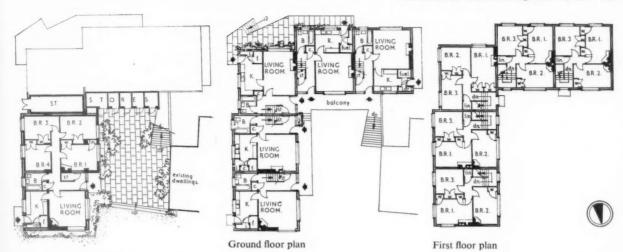


Site 3. Lower ground floor plan [Scale: #" = 1'6"]





PLAN.—There are four separate sites, grouped amongst existing property; site one contains five houses, one of three rooms and four of four rooms, site two contains six houses, one of five rooms and five of four rooms, site three contains one five-room house, two four-room houses and one of three rooms (the five staggered houses adjoining are prewar work by the same architect), site four has two four-room houses and three three-room houses. Mostly, the accommodation consists of a ground floor flat, and a maisonette with balcony access on



Site 2. Lower ground floor plan [Scale: 16" = 1'0"]

the first and second floors. Areas of dwellings vary considerably, but a typical four-room house is of 966 sq. ft.

CONSTRUCTION and FINISHES.-The loadbearing cavity walls have a stone outer skin and brick inner skin or two brick skins and partitions are of 4½-in. brick or 3-in. breeze. Roofs have

timber framing, boards, felt, battens and pantiles. Ceilings are of plaster board, with a skim coat of plaster and distemper. The external finish to walls, where they are of brick, is colour wash on roughcast. There are open fires in living rooms and first bedrooms and hot water is provided by a back boiler to the living-room fireplace.

Below, aerial perspective looking south.



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site 3.

m houses. f a ground y access on 342] The Architects' Journal for September 18, 1952

PRIMARY SCHOOL

in EDENSOR ROAD, CHISWICK, LONDON, W.4

C. G. STILLMAN, County Architect

C. E. HARTLAND, L. T. CHANNING, assistant architects

The Cavendish Primary School has been designed as a one-form entry Junior and Infant School for 280 children. It is one of twenty Primary Schools completed by the Middlesex County Council for the 1950 education programme. The designs for all these schools have been largely standardized to save drawing office time.

The main entrance: teaching staff quarters on the left, assembly hall on the right.

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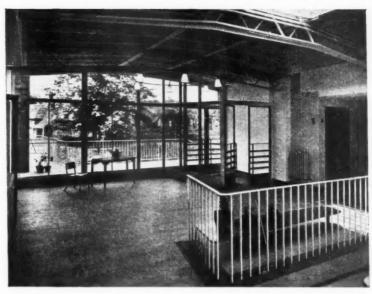


SITE.-Two acres, well planted with mature trees. Liable to flooding. The buildings are therefore raised some feet above the ground in some parts on piles.

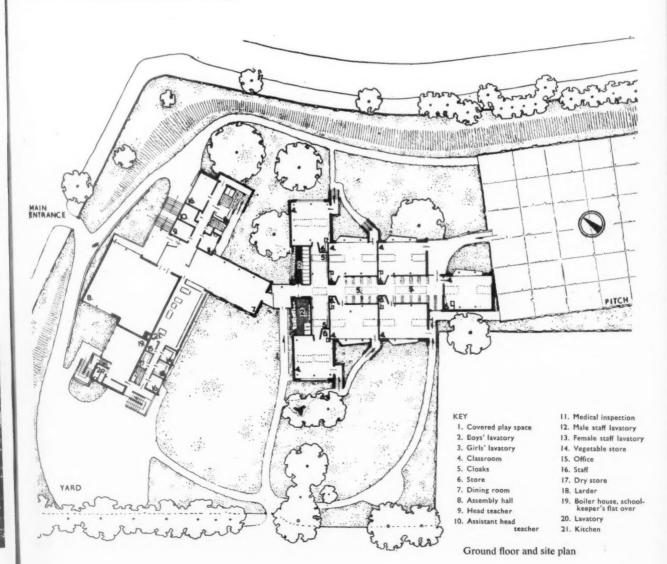
PLAN.—The school is composed of a standard classroom block, comprising seven classrooms, cloakrooms, lavatories and an administration block, raised on a light reinforced concrete frame, under which a covered play space is provided. A development of this standardized plan has now been pro-

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right.



The main entrance seen from the dining room.





The administration block from the west.

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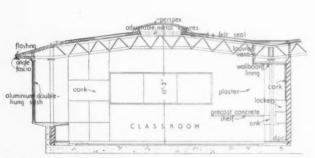
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PRIMARY SCHOOL

in EDENSOR ROAD, CHISWICK, LONDON, W.4 C. G. STILLMAN, County Architect

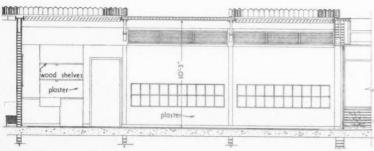
C. E. HARTLAND, L. T. CHANNING, assistant architects



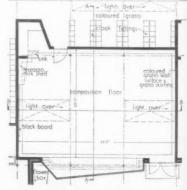
Section A-A



Plan of caretaker's flat [Scale: 10']



Section B-B [Scale: 1"=1'0"]



Plan of classroom [Scale: 14" = 1' 0"]

Right, part of the dining room; the kitchen is on the left, the assembly hall on the right. Below right, looking from the dining room to the classroom block. Bottom right, a classroom. Below, screen to a lowvre over cloaks.

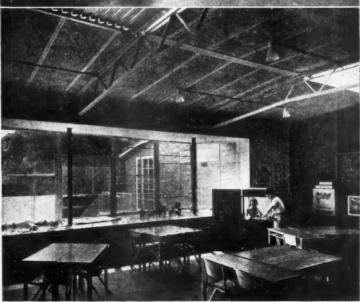
duced, wherein the accommodation in the administration block is to be housed under the classroom block giving an even more compact plan for restricted sites (within the Ministry's latest cost figure of £140 per place).

CONSTRUCTION.—The construction of the superstructure is based on a frame of light steel tubular columns supporting welded steel trusses built of light angles. The roofs are of reinforced wood wool with a half-inch screed and ply-felt finish. External and internal walls are cavity brick. The utmost economy has been exercised both in the planning and construction to bring these schools within the Ministry's figure of £170 per place.







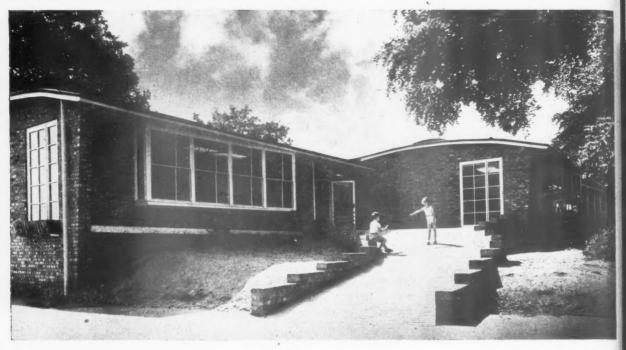


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Classroom block from the east,

PRIMARY SCHOOL

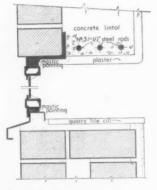
in EDENSOR ROAD, CHISWICK, LONDON, W.4

C.G. STILLMAN, County Architect

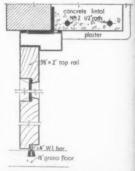
C.E. HARTLAND, L.T. CHANNING, assistant architects

SERVICES.—Heating is by means of a low-pressure hot water system and radiators. Oil fuel feeding was adopted for the boilers to minimise the handling of fuel from ground level up to the boiler house, which is above flood level.

The general contractors were Prestige & Co., Ltd. For sub-contractors, see page 360.

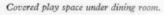


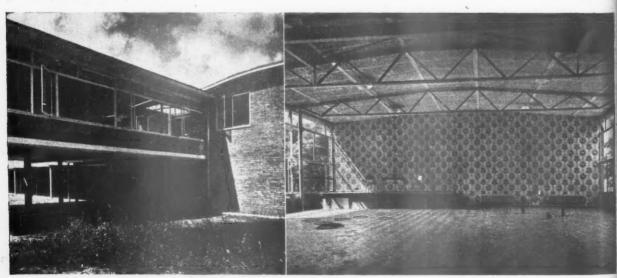
Window to lavatory



External door to classroom [Scale: 14" = 1'0"]

Assembly hall.



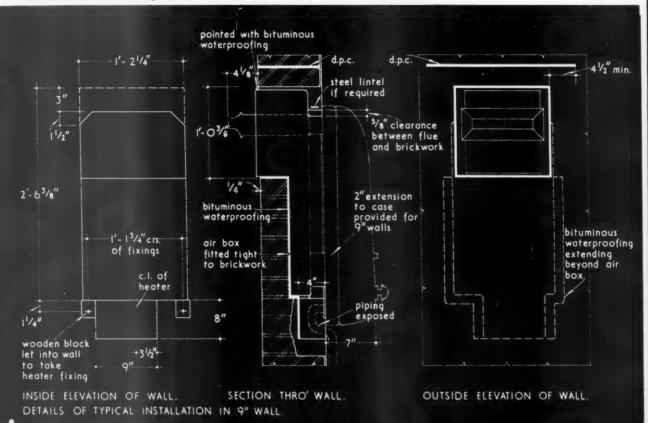


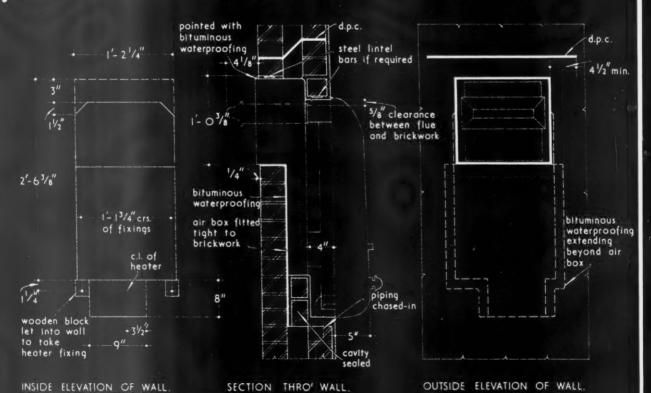




WATER HEATING UNITS GAS

The Architects' Journal Library of Information Sheets 381. Editor: Cotterell Butler, A.R.I.B.A.





ASCOT BALANCED FLUE GAS WATER HEATER, TYPE NO.715: FIXING DETAILS. Manufacturer: Ascot Gas Water Heaters Ltd.

DETAILS OF TYPICAL INSTALLATION IN 11" CAVITY WALL.

32.C32 ASCOT BALANCED FLUE GAS WATER HEATER, TYPE NO. 715: FIXING IN 9 IN. AND II IN. CAVITY WALLS

This Sheet gives details of fixing the Ascot balanced flue type of gas water heater (Type 715) into a 9 in. solid or 11 in. cavity brick wall. For thicker walls the details for the 11 in. cavity wall apply. A full description of the heater is given on Sheet 32.C31.

Openings in Brickwork

The drawings on the face of the Sheet show the provisions that must be made in a wall where the Type 715 heater is to be fixed. The inside elevations and sections of the wall show the sizes of the openings and the minimum dimensions of the cavity for gas and water connections beneath the heater: this cavity may be extended in any direction where pipes are to be chased in. Where the heater is being installed in new brickwork the terminal wall duct should be built in during the erection of the wall. The face of the terminal plate should project 1 in. beyond the finished wall surface: where the thickness of the external rendering does not permit this, the rendering should be sloped in to meet the air box from a distance of approximately 6 in. all round.

Lintels

The Local Authority may require lintels to be fitted above the wall openings as indicated in the sections on the face of the Sheet.

Waterproofing

The outside elevations of the wall given on the face of the Sheet show the extent of the dampcourses and of the bituminous waterproofing which must be provided, to satisfy the Local Authority, on the inner faces of brickwork that has been reduced to less than 9 in. thickness. Asbestumen is recommended as a suitable waterproofing material.

Walls Over 11 in. in Thickness

As previously stated the details given for fixing the heater in an 11 in. cavity wall are also applicable to walls of greater thickness but these should not exceed 2 ft. 0 in. The telescoped flue fitting may be extended to give the required depth to the heater.

Further Information

The manufacturers maintain a Technical Department and an outside staff who are available to answer questions and advise generally on technical problems dealing with the installation of the 715 balanced flue heater in any part of the country.

Compiled from information supplied by t Ascot Gas Water Heaters, Ltd.

Head Office: 43, Park Street, London, W.1.

Telephone : Works : Grosvenor 4491. Ascot Works, Neasden, London, N.W.10. Willesden 5121.

Telephone:

Telegrams: Branch Offices and Gascot, Phone, London.

Service Depots: Belfast, Birmingham, Bournemouth and

Glasgow.
Service Depets: Bristol, Cambridge, Manchester, Oxford, Southampton and Stoke.

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FIRE PROTECTION | STEELWORK

The Architects' Journal Library of Information Sheets 382. Editor: Cotterell Butler, A.R.I.B.A.

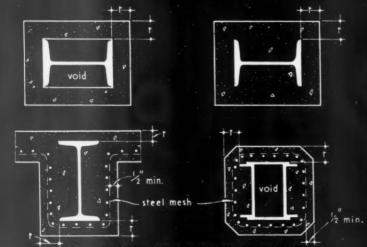
type of building	fire load in B. Th. U/sq. ft.	time required (under standard test) to withstand complete burn-out without collapse
domestic buildings, hotels, offices	low fire load less than 100,000	l hr.
trade and factory buildings	moderate fire load 1-200,000	2 hr.
bulk storage buildings	high fire load 2-400,000	4 hr.

FIRE RESISTANCE REQUIREMENTS FOR DIFFERENT TYPES OF BUILDING.

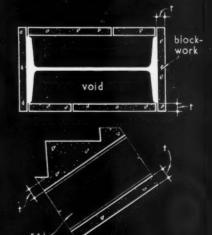
solid protection: material and construction	minimum thickness t(in) of protective material to give protection for :			
	4 hr.	2 hr.	I hr.	1/2 hr
r.c. not leaner than 1:2:4	21/2	2 °	1	1
solid brickwork of burnt clay or sand lime	3	2	2	2
solid blockwork a) foamed slag or pumice concrete suitably reinforced b) gypsum blocks	21/2	2 2	2 2	2 2
sprayed asbesto:	2	1	1/2	1/4

hollow protection: material and construction	minimun materia	minimum thickness t (in) of protective material to give protection for :			
	4 hr.	2 hr.	I hr.	1/2 hr.	
solid brickwork of burnt clay or sand lime suitably reinforced	41/2	3	2	2	
solid blockwork of foamed slag, pumice conc. or gypsum suitably reinforced	3	2	2	2	
moulded asbestos bound in position with wire not less than 13 S.W.G.	21/2	1/2			
gypsum plaster, cement plaster or cement lime plaster on metal lathing	- 7			3/4	
gypsum plaster, cement plaster or cement lime plaster on metal lathing with steel or iron reinforcement over rendering coat	- 1		-1	-	

REQUIRED THICKNESSES OF VARIOUS MATERIALS FOR SOLID AND HOLLOW PROTECTION.



TYPICAL EXAMPLES OF SOLID AND HOLLOW PROTECTION FOR STANCHIONS AND BEAMS.



STAIRCASE STRING.

 may be reduced to lin. on upper surface of top flange of internal beam or on any projecting cleat, river head etc. on a stanchion or beam

36.A1 FIRE PROTECTION OF STEELWORK IN BUILDINGS

This Sheet deals with the fire protection of steelwork in buildings. The tables on the face give the fire resistance requirements for different types of building together with the minimum thicknesses of protective covering required for the steelwork.

Fire Resistance

Standards of fire resistance are laid down in B.S. 476 in accordance with the length of time during which a structure on fire will withstand complete burn-out without collapse. B.S. 476 sets out five grades as follows:—

Grade A which gives protection for 6 hours, B 4 hours, C 2 hours, D 1 hour and E ½ hour. Fire resistance tests allow a comparison to be drawn between the fire-resisting properties of various materials, types of construction and structural elements. The grade of fire resistance required depends on the particular use and size of the building or compartment.

Fire Load

The fire risk in a building of given size, construction and occupancy can be expressed in terms of the calorific value of the materials housed in the building, defined in B.Th.U. per sq. ft. of floor area. This is termed the fire load. For a building, or part of it, containing say 4,000 lb. of combustible material of a calorific value of 8,000 B.Th.U. per lb. over a floor area of 1,000 sq. ft., the fire load would be:—

4,000 lb. by 8,000 B.Th.U./lb.

1,000 sq. ft.

= 32,000 B.Th.U./sq. ft.

The following are calorific values of materials frequently housed in buildings:—

petroleum products			18 -20,000	B.Th.	U. p	er lb.
asphalt			17,000	99	22	99
raw rubber			15 -18,000	39	99	99
coal			10 -14,000	29	99	99
butter			13,000	29	99	2.2
bacon			11,000	22	12	22
timber			8,000	**	22	99
paper			7,000	**	25	22
sugar			7,000	22	22	22
straw			6,000	22	22	22
bread			4,500	22	22	99

Protection of Steelwork

The second table on the face of the Sheet gives sets of figures for solid and hollow protection. In the first case there must be no voids between the protective material and the steelwork. In the second case the protective material need not be in direct contact with the steelwork.

Solid protection: The fire resistance of solid concrete largely depends on the type and size of aggregate used, e.g. flint gravel is poor since it expands considerably when heated, disintegrating the concrete; clean crushed clay brick is one of the best aggregates. Reinforcement should consist of steel mesh of weight not less than 1 lb. per sq. yd. or steel wire of not less than No. 13 S.W.G. (not exceeding 6 in. mesh). Concrete cover for the mesh should be a minimum of ½ in.

Re-entrant angles in the casing should be avoided as they reduce the fire resistance of the concrete. Rivet heads may be included within the specified thickness of solid protection.

Hollow protection: All joints in hollow casings must be made full and solid and the protection for stanchions must be well sealed at each floor level. The

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Relevant Publications

B.S. 476: 1932, with Amendments Nos. 1 and 2, July, 1942 and July, 1945 Fire-resistance, incombustibility and non-inflammability of building materials and structures.

B.S. Code of Practice CP 113: 1948 The structural use of steel in buildings.

B.S. Code of Practice CP 3, Chapter IV: 1948 Precautions against fire (houses and flats of not more than two storeys).

Post-War Building Studies No. 20 Fire grading of buildings.

Bird and Docking Fire in buildings.

C. Roland Woods—Fire resisting encasement of structural steel, *The Structural Engineer*, April, 1942 and January, 1943.

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TECHNICAL COLLEGE EXTENSION

in DENZIL ROAD, WILLESDEN, MIDDLESEX

C. G. STILLMAN, County Architect

D. R. DUNCAN, Area Architect

J. W. PATERSON, Senior Architect

The extension to Willesden Technical College is the first of five to be completed under the post-war programme of the Middlesex County Council Further Education Committee. Other extensions are being built at Ealing, Southall, Chiswick and Enfield. New colleges are to be built at Greenford, Harrow, Heathrow, Southgate and Uxbridge. It is estimated that this work will come to £5,000,000.

The extension from the south-zast.





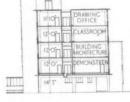
The entrance hall.

TECHNICAL COLLEGE

in DENZIL ROAD, WILLESDEN, MIDDLESEX

C. G. STILLMAN, County Architect



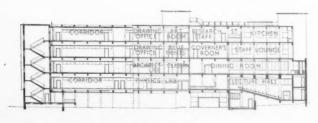


Section through entrance hall

Section through demonstration room

SITE.—At the junction of Dudden Hill Lane and Denzil Road. Dudden Hill Lane is scheduled for widening in the future and the design was developed to retain as much free ground space as possible on the limited site.

PLAN.—The accommodation provided comprises: Chemistry, physics, metrology, microscopy and heat engines laboratories; classrooms and drawing offices; lecture hall, students' dining room, staff room, governor's room; central boiler house and ancillary rooms. This accommodation, which is provided on five floors, is served by two passenger lifts and service lifts.



Section from south to north [Scale: $\frac{1}{0.4}$ " = 1.0"]

4. Oil stor

5. Head of partme

6. Cloaks

7. Waiting

8. Head of department

department

4. Oil stor

5. Head of department

6. Cloaks

Heat en
 Boilerm
 Store

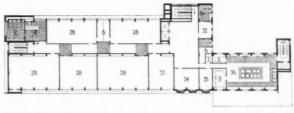
9. Entrance 10. Female 11. Vestibu 12. Male la

Site plan

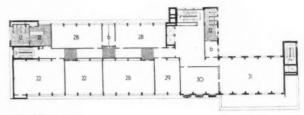
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The extension from the north-east.



Fourth floor plan



Third floor plan



- I. Heat engines 2. Boilermen's room
- 3. Store
- 4. Oil store
- 5. Head of building de-partment
- 6. Cloaks
- 7. Waiting space
- 8. Head of engineering department
- 9. Entrance hall
- 10. Female lavatories
- II. Vestibule

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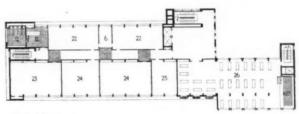
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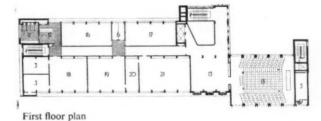
12. Male lavatories

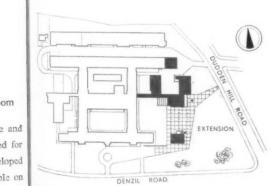
- 13. Lecture half
- 14. Lecture prep. room
- 15. Service yard 16. Metrology
- 17. Microscopy
- 18. Chemistry lab.
- 19. Demonstration room
- 20. Prep. room
- 21. Physics lab.
- 22. Classroom
- 23. Architecture
- 24. Building and architecture

- 25. Photography
- 26. Dining hall
- 27. Servery
- 28. Drawing office
- 29. Blue prints
- 30. Governor's room
- 31. Staff lounge 32. Female students' rest
- room 33. Art room
- 34. Research room
- 35. Kitchen staff room
- 36. Kitchen



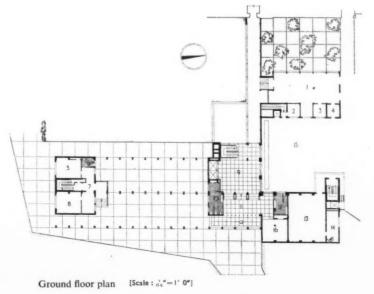
Second floor plan

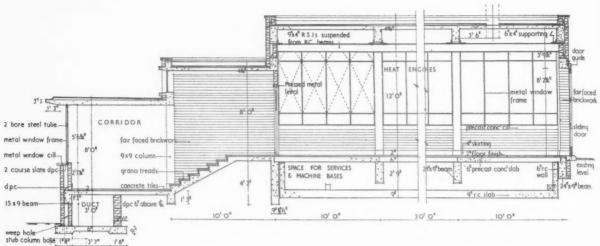




Site plan

CONSTRUCTION.—The building is a reinforced concrete framed structure with in-fillings of brick and concrete slabs. The frame was designed to standardize the size of members as far as possible to assist speed of erection and to achieve economy.





Section through heat engines chamber [Scale: 1" = 1'0"]

TECHNICAL COLLEGE

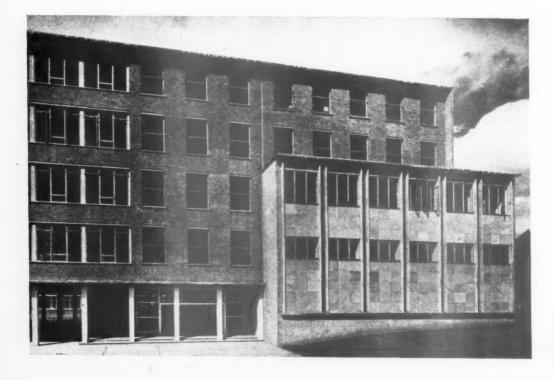
in DENZIL ROAD, WILLESDEN, MIDDLESEX
C. G. STILLMAN, County Architect

The first floor slab was designed to take a superimposed load of 200 lb. per sq. ft. to enable heavy machinery to be installed at a later date if this should be required. The heat engines laboratory has a suspended floor insulated from the machine bases which stand upon a main ground slab, the space between acting as a service duct to allow maximum flexibility of layout.

FINISHES.—Externally the building is faced with

Buckinghamshire multi-coloured bricks. Concrete slabs are faced with Criggion granite and Derbyshire Spar.

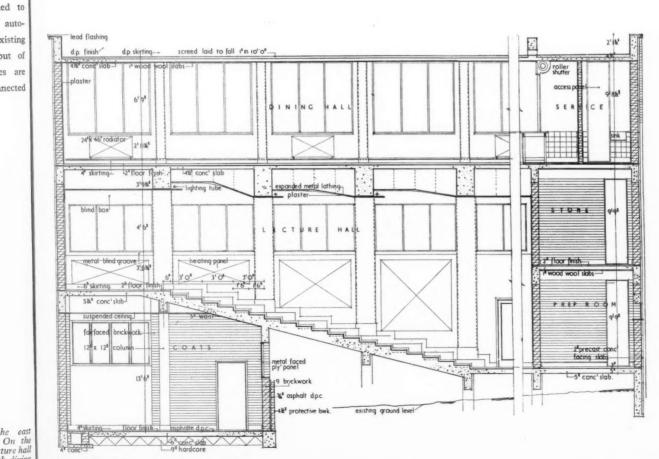
SERVICES.—The boiler house is designed to supply heat and hot water by means of automatically stoked boilers for both new and existing college buildings and has a heating output of 6,387,000 B.Th.U. per hour. All services are accommodated in two main vertical ducts connected



Part of the east elevation. On the right, the lecture hall windows with dining room above.

The lecture hall.





Section through lecture hall [Scale: \frac{1}{6}" = 1'0"]

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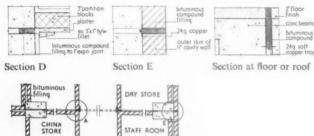


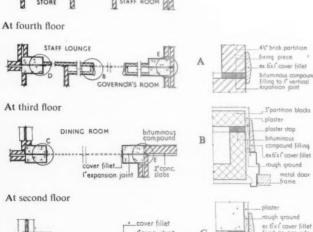
Covered space.

A laboratory.

TECHNICAL COLLEGE

in DENZIL ROAD, WILLESDEN, MIDDLESEX C. G. STILLMAN, County Architect





At ground floor

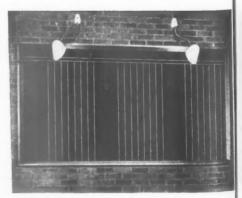
Sections

Details of expansion joints [Scales: 1" and 11" = 1'0"]

by a horizontal duct over the corridor at each floor level. This gives flexibility for any future alteration of layout as services may be connected at any point.

COST.—The extension cost approximately £200,000. The work started in March, 1950. The school was completed this month.

The general contractors were Lavender McMillan, Ltd. For sub-contractors, see page 360.



Notice board.

TECHNICAL SECTION

In the Journal the week before last (page 275) the Editors protested strongly against the impending cuts in the staff of the BRS. They stated that "more serious than the direct effects that these cuts will have . . . is the principle that will have been established." Unfortunately, this principle was, to some extent, established over a year ago, when the British government decided not to send representatives to future sessions of the Housing Sub-Committee of UNO's Economic Commission for Europe.

We are reminded of this by the fact that at the 6th session of the sub-committee, held earlier this month (see report on page 337), there were, in fact, no UK delegates. It is true, as a MOHLG spokesman has pointed out, that we are not abstaining from all the work of the sub-committee we are still "providing material and contributing to papers" and we are still "represented at working party meetings." And it is true that the emphasis of the committee's work is now on economic and social, rather than technical, aspects of housing. But, for our official attitude to be that "there is nothing to be gained from personal representation at the subcommittee meetings," is deplorable, particularly as this decision was taken before we knew what the new subjects for discussion would be.

If our failure to send delegates to the sessions of the Housing Sub-Committee is another "economy measure"—and there seems little doubt that it is intended as such—it is, like the BRS cuts, a decidedly false economy. It will be a great blow to the important work of the committee (and to British prestige in Europe) if the government persists in "backing out."

23 HEATING AND VENTILATION embedded panel heating and floor finishes

This week's special article

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The number preceding the week's special article or survey indicates the appropriate subject heading of the Information Centre to which the article or survey belongs. The complete list of these headings is printed from time-to-time. To each survey is appended a list of recently-published and relevant Information Centre items. Further and earlier information can be found by referring to the index published free each year.

Very little has been published in this country on the subject of embedded The article in the JOURNAL for Jan. 31, 1952 was one of the first surveys of the subject from the architect's viewpoint. We welcome now a useful brochure, published by the Invisible Panel Warming Association, dealing with one of the most important problems connected with under-floor heating—the problem of floor finishes.

Although panel heating was invented | in this country, it has not been developed as rapidly here as in some other countries, particularly America. Recently architects have been taking a greater interest in this form of heating, as its advantages have been receiving more publicity. There is much discussion on the merits of ceiling heating versus the merits of floor heating. In

multi-storey buildings, unless special measures are taken, there is a good deal of floor heating whichever system is adopted. In single-storey buildings floor heating is usually accepted as being the more practicable. It follows, therefore, that in the majority of cases there usually arises the problem of placing a floor finish on top of a heated surface. It is this problem of the

finish which has specially concerned many designers. What types of finish are satisfactory and how are they to be applied?

A recent publication of the Invisible Panel Warming Association* partially answers these questions.

SURFACE TEMPERATURES

It is essential to know what conditions the floor will have to contend with. The brochure states that surface temperatures should not normally exceed 80° F. For some rooms temperatures should be lower; around the perimeter of some rooms they may be higher. The difficulty is: can anyone guarantee that the temperature of a system designed to work at 80° F. will, in fact, never exceed 80° F.? If any guarantee concerning the floor finish depends on the surface temperature, there must also be a guarantee concerning the surface temperature. Even if such a guarantee could be obtained, what would happen if the floor finish were damaged? Would it be possible to prove that the floor surface did actually get too hot? These questions are not answered in the brochure.

Surely the answer is that a "factor of safety" must be used. If, for instance, a floor finish could be guaranteed for a 90° F. surface temperature and the heating system guaranteed for a maximum surface temperature of 80° F., it might be felt that there was a reason-

able safety margin.

EXPANSION AND CONTRACTION

There are four factors to guard against: excessive shrinkage on drying

*Floors and Floor Finishes in Relation to Embedded Panels. (Invisible Panel Warming Association. July, 1952. Free to architects on application.) out; possible subsequent movement due to thermal changes; possible subsequent movement due to moisture changes; softening due to overheating.

Useful information is given in the brochure about expansion and contraction joints and methods of laying screeds. It is stated that "The potential drying shrinkage of concrete is so great relative to potential thermal expansion at panel system temperatures that there is no need for expansion joints other than those provided in normal building design, such as where a concrete slab abuts a wall, and in unusually large structures." The danger of thin screeds is referred to and suggestions are made as to how they should be laid.

Movement due to thermal changes, after the initial drying out, ought to be small in panel heated floors, because summer to winter differences should be less than with other methods of heating. This advantage might be lost if a panel heated building were left unoccupied and un-heated for any considerable period during winter, and such neglect might have unfortunate results if the surface finish were one which is susceptible to moisture movement.

SCREEDS

Contractors sometimes like to leave the final screed until late in the job to prevent it being damaged. With some types of thin floor finish this is essential. It is mentioned in the brochure that the surface of the floor must be carefully cleaned before the screed is laid, and it is stated that "it seems to be fairly generally accepted that a layer

of less than 1 in. laid on a mature concrete base is almost certain to fail unless very great care is taken." This seems to indicate, as many authorities suggest, that the final screed should be more than 1 in. thick. It is here that one of the "hidden costs" of embedded heating may be found. What is the total thickness of the screed in which the heating pipes are embedded, and how much does this, together with the top screed, cost? These are elusive figures; so too is the additional cost of making the structure strong enough to carry the extra screeding.

TYPES OF FLOOR FINISH

The brochure lists fourteen types of floor finish. It appears to be suggested that, with certain reservations, all of these can be used over floor heating. Some useful remarks are made about fixing some of the finishes, but it would have been more valuable if a categorical statement could have been made that it is possible to have all these finishes laid over floor heating with a guarantee that they will prove satisfactory. It is known, from general experience, that some of them are suitable; architects would often like to use others, but hesitate to do so for fear of trouble. Whether the tabulated list of flooring materials under their trade names included in the brochure indicates that all these firms would be prepared to lay their products and give a good specific guarantee is not stated. If that is what the list indicates, it is a most valuable advance and, quite apart from the other useful information which is given, would in itself fully justify the publication of the brochure.

QUESTIONS & ANSWERS

This feature answers any question connected with building confidentially and free of charge. Questions to the Technical Editor, The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.I.

3061 TROUBLE WITH PLASTER

I have recently come across a num-

ber of cases in farmhouses where the wall plaster in the dairies has disintegrated owing to the fact that pigs have been salted in them in the past.

I should be obliged if you could recommend any treatment to counteract this and prevent the plaster from powdering.

A We are certain that the disintegration of the plaster is due to the fact that the salt from the salting of bacon attracts

moisture from the air into the plaster.

If the walls are to be recoated we do not think that a lime plaster is at all suitable. We suggest that they should be rendered with a 3:1 cement and sand coating, trowelled to a smooth surface, and that any decoration or finishing should be done on the cement when it is fully matured.

decoration or finishing should be done on the cement when it is fully matured. At the same time it would be well, if possible, to introduce air bricks for increased ventilation. This would keep down the amount of sweating on the walls and add to their stability.

If a matt surface is required we would suggest an emulsion paint; if a glossy surface is preferred one of the chlorinated rubber finishes would be suitable.

3062 WAGE RATES AND CONTRACTS

In the event of a contract overrunning the date for completion, is the builder justified in claiming increased labour rates awarded after the contracted date for completion? The building contract carried a penalty clause for delay.

A contractor cannot make any claim for increase in labour rates after the contract date for completion has expired, and the building is still not completed. But if there is power to extend the time and this has been done, increase in the labour rates could be claimed during the extended time.

3063 DOUBLE GLAZING

I am endeavouring to insulate a barn I am converting against heat loss, etc., by the use of wall linings and double glazing. For all the main windows I am proposing to use double-glazed, centre-pivoted, Swedish-type windows. There are, however, various other glazed openings, mostly fixed lights, where the frames will be made locally by the contractor. These frames will be detailed for two sheets of glass with air space between. Would you let me know of any particular considerations that have to be borne in mind?

In particular how wide should the air space be and should it be ventilated? If the two sheets of glass are bedded in mastic, with glazing beds to seal the air space, will it still be necessary to have access to the cavity for cleaning?

A Provided thermal insulation is the main object of the double glazing, maximum insulation is obtained by using a ½-in. air space, but a reduction of this to ¼ in. still gives 88 per cent. of the maximum insulation value. For this reason, for the double glazing of your secondary windows, by far the best plan would be to use hermetically - sealed double glazing units. These simplify the manufacture of the windows and the setting of the glass itself.

FOR SCIENCE, INDUSTRY AND THE HOME

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Reedlyte is a fluted rolled glass with a stippled surface. It has the simplicity of our plain Reeded glass and provides the same horizontal or vertical emphasis, but gives much greater obscuration. It is used in partitioning, in windows and for borrowed light where considerable, but not necessarily complete, obscuration is required.

Other Chance decorative glasses include Reeded in three widths, Cross Reeded and a variety of figured glasses. Besides their normal architectural uses they are employed in lighting fittings, diffused lighting panels and decorative lighting schemes. Special lighting glasses such as 'Luminating' (which has a very narrow reeded pattern) are also available.

TECHNICAL DETAILS
FOR REEDLYTE

Width of Reeds Narrow $\frac{1}{2}$ in. Broad $\frac{7}{8}$ in.

Light Transmission 80 per cent.

 $\frac{1}{8}$ in. thick (26/28 oz./sq. ft.) $\frac{8}{16}$ in. , (42/44 oz./sq. ft.)

Maximum size of Sheets (100 in. x 42 in.)

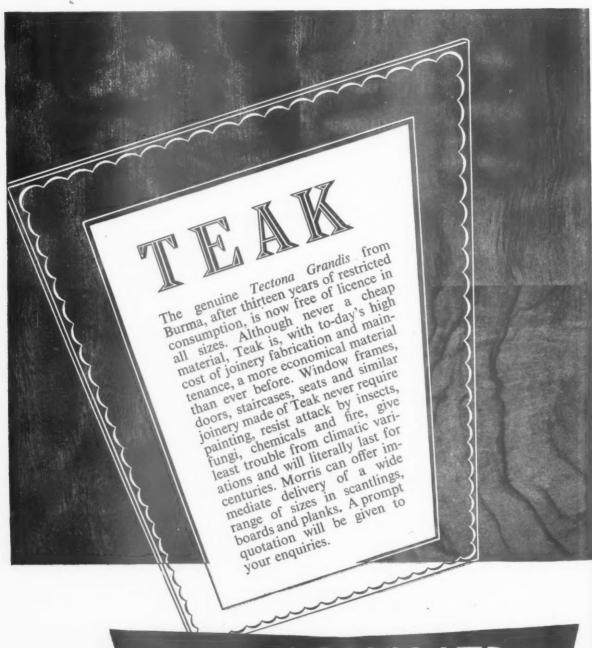
CHANCE BROTHERS LIMITED,

Glass Works Smethwick 40, Birmingham. Phone: West Bromwich 1824.

London Office: 28 St. James's Square, London, S.W.I. Phone: Whitehall 6002. Branch Works at Glasgow, St. Helens and Malvern

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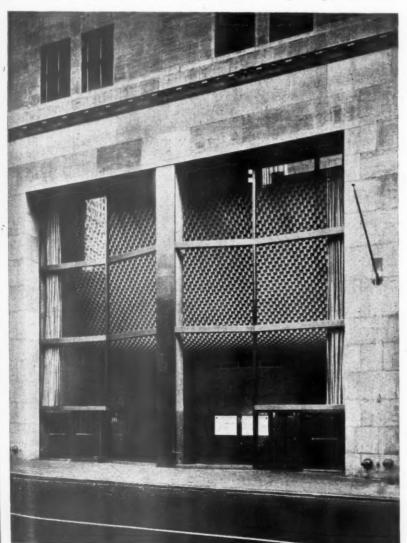
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THREE-STOREY "LOBBY OF LIGHT" IN NEW YORK

"Rollocolor," the invention of Rollo Gillespie Williams, is a system of changing coloured lighting in order to provide "cool" light in summer and "warm" light in winter. It has been used in the three-storey lobby shown in the photographs (below and on page 356). This lobby is at 383-385, Madison Avenue, New York, and is part of one of the most extensive conversion and renovation projects to be carried out in that city. The architects (Rudolf C. P. Bochler and Albert W. Lewis, of Webb & Knapp, Inc.) and the designers of the lobby (Paxton, Krueger & Associates Inc. in association with Norman Bel Geddes) decided to use Mr. Williams's lighting system and the special eggcrate ceiling as the principal element dominating the massive lobby. 383 and 385, Madison Avenue originally had separate entrances and the supporting steelwork included two large stanchions (one for each building) only 3 ft. 6 in. apart. It was decided to remove one of these. New grillages and footings were prepared, 9 ft. below the basement level, the stanchion to be retained was strengthened with huge new steel plates, and a new '4-ft. 6-in. deep beam was inserted at ceiling level of the lobby (i.e., three storeys above pavement level) to transfer the full load of the building on to the single stanchion and eliminate the need for the first and second



INFORMATION CENTRE

A digest of current information prepared by independent specialists; printed so that readers may cut out items for filing and paste them up in classified order.

5.47 planning: public utilities TRAFFIC RESEARCH

Traffic and Traffic Studies in the USA. R. J. Smeed. (Roads and Road Construction.

Smeed. (Roads and Road Construction. May/June, 1952.)

Report on visit to USA, with interesting

description and comment on American methods of studying road traffic problems. Tables comparing speeds and accident rates, etc., in USA and Britain.

5.48 planning: public utilities TRAFFIC RESEARCH

Some Theoretical Aspects of Road Traffic Research. John Glen Wardrop. (Proceedings of Inst. of Civil Engineers, June, 1952.) Highly specialized report on mathematical analysis of traffic. Value of statistical approach is shown. Includes full report on discussion of paper.

7.36 practice:

The Law Relating to the Architect. E. J. Rimmer. (Stevens & Sons Ltd. 1952. 35s.)

Deals essentially with legal matters and is not a general book on professional practice or contracts, etc. Useful, especially to students and those commencing practice. 178 pp. 7 appendices.

This is a useful book which deals strictly with legal aspects of architects' work. It is interesting to note that the author repeatedly refers to the report of the "Simon" Committee, published by HMSO in 1944. He appears to regard the findings of this Committee as authoritative and likely to be accepted by the Courts as a basis for judgment on a number of matters.

The first chapter on the status, appointment and authority of the architect and especially his authority in appointing quantity surveyors and consultants, is interesting and helpful. Many architects, after reading this chapter, might well have doubts about the wisdom of their normal practice in such matters.

There are chapters on the legal responsibility of the architect in relation to design and construction and to surveys, but, in places, the legal phraseology of the author makes a clear understanding of his meaning a little difficult to those not conversant with this particular form of "jargon." The information on remuneration is clear and, though largely an explanation of official scales of charges, it has useful criticisms to make of some of the less definite parts of

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NEW YORK "LOBBY OF LIGHT" (continued)

floor beams. Extensive tests were made before the other stanchion and the beams were removed, to determine the final load distribution, and calculations were so exact that the transfer of loads took place without even cracking any plaster. The resulting open space, roughly 40 ft. square, has been glazed with plate glass, divided up by stainless-steel mullions and transomes. There are two sets of glass revolving doors. The curved eggcrate ceiling consists of 6-in. hexagonal cells lying flat over the lift space and then curving upwards 25 ft. to meet the top of the lobby window. The lighting system can produce over 500 different shades of colour at varying intensity, and the controls, which are simple, can be preset for various time cycles. The batteries of lighting strips are divided into 48 sections, each 25 sq. ft. in area. Each of the 48 sections consists of 4 light strips each containing ten 150-watt reflector lamps—in all, 288,000 watts. The operator cannot see the lobby, but adjacent to the master controls



is a miniature replica of the installation, which indicates to him what effects are being produced in the lobby. There are only two manual controls, one for hue and one for intensity; the mixing of the colours—the control of the intensity of each colour in relation to the others to produce the desired result—takes place automatically. In order to facilitate the replacing of lamps, there are permanent steel catwalks behind the curved part of the ceiling.

these scales, especially regarding payment for copies of drawings.

There is a rather specialist chapter on arbitration, which deals with many points on which most architects must be rather ignorant, and there is a very good description of the procedure to be adopted for arbitrations. A final chapter, written by Pembroke Wicks, gives an authoritative description of registration and some notes on professional conduct.

A useful book for senior students and architects entering practice.

14.51 materials: concrete CONCRETE MAKING

Making Concrete. BRS Digest No. 44. (HMSO. July, 1952. 3d.)

Excellent summary of essential points in control of quality. Applicable to small jobs. This is an excellent summary of the things which affect the quality of concrete and the steps which should be taken in selecting

steps which should be taken in selecting materials, and specifying and supervising work in order to ensure good results. The recommendations are applicable to small and medium sized jobs and refer to these rather than to large works where special supervision and plant may be available.

The most important points are: the correct choice of materials; the proper grading of the aggregate; the correct proportioning of the materials and the use of the correct amount of mixing water. The casual method of mixing by counting shovels of sand and large aggregate cannot produce a good concrete. Clear and sensible advice is given and the Digest should be used by all as a guide to everyday workmanship—it is definitely not a thing to be passed off as "just another piece of advice from those scientists."

Unfortunately, concrete mixing is regarded on so many sites as an unskilled job that although the advice given in this Digest is

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

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16.91 ROOF Ritume

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16.9 SPRA Rothe

July,

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mate in ve extremely sound and practical there may well be difficulty in persuading builders and their foremen to act on it.

16.91 materials: miscellaneous ROOFING FELT

Bitumen Felt Roof Coverings. BS C of P 144.101 (1952). (British Standards Institution. 4s.)

Materials, preparation of surfaces and general recommendations for bitumen felt roofing. A useful Code for regular office reference.

With so much work now being finished with felt roofing, this is an important Code and one which contains useful information on choice of materials and correct detailing. It deals with associated details such as flashings, eaves and verges, gutters and cesspools. A table gives recommendations for numbers of layers and weights of felt for varying conditions of exposure and permanence and there is advice on surface finishes and on fire hazard. The usual "work on site" clauses are followed by a table giving standard weights and sizes of rolls of roofing felt and there are clear diagrams showing how to detail vertical upstands, gutters, drips and verges.

16.92 materials: miscellaneous SPRAYED PLASTIC

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Sprayed-on Vinyl-plastic Sheeting. Guy G. Rothenstein. (Progressive Architecture [USA]. July, 1952.)

Four page article suggesting revolutionary ideas which could be adopted by using vinyl-plastic sprayed skin finishes externally and internally. Said to be waterproof and elastic enough to take building movement and to have 10-year life before needing any maintenance. This may well prove a most important development.

If the process described in this article has all the qualities which are claimed for it, it may prove to be one of the most important developments in building that has occurred in recent years. Essentially, the process is to form a tough "skin" over the surface of a structure. Apparently this can be done quite easily and over an object of any size. The skin is said to be tough, flexible and weatherproof. It is claimed to have a safe 10-year life externally and to be capable of renovation thereafter by applying a further layer. By incorporating a "webbing solution" it can be made to span a distance of up to 24 inches.

The possible effects of a treatment of this kind are enormous for it could overcome the problems of the construction joint and the troubles which occur from thermal movement. The fact that it is said to be usable three-dimensionally adds to its usefulness. Used externally with exposure to the sun it must be pigmented and, in fact, it can be obtained.

obtained in any colour.

The article describes the material and discusses its qualities and the ways in which it could change design and finish both internally and externally. There is tabulated data on characteristics. Following this article there is a three-page illustration of a small house with a roof of this material.

Although apparently so revolutionary this material is not without some history. Used in very large quantities during the war for "Operation Mothball," it has since been used on a number of buildings in various ways. (See also JOURNAL for April 10, 1952, p. 465.)

18.106 construction: theory FIRE RESEARCH

Fire Research 1951. Report of the Fire Research Board. (HMSO, 1952. 2s.)

General report on year's work. Important information on causes of fires.

In addition to its general interest as a review of the work of the Joint Fire Research Organization, this report is of importance for the figures which it gives on the causes of fires. The large number which are started by heat and sparks from grates and heat from flue pipes indicates that designers should give more attention to this problem. The good record of post-war houses of traditional type has been maintained, while the rate of incidence of fires in post-war houses of non-traditional design was about the same as for pre-war houses. The proportion of fires causing serious damage were again greater in some types of post-war houses than in pre-war houses, but there is evidence that it is possible to build safe dwellings using light non-traditional forms of construction.

24.157 lighting: SCHOOL LIGHTING

Light and Colour in Elementary Schools. N. L. Engelhardt. (Architectural Record [USA]. May, 1952.)

A weak, uninformative condensation of a chapter on light and colour from a forthcoming book on the planning of elementary schools in America.

Mr. Engelhardt describes present practice in the lighting of elementary schools and reviews some recent research on the subject. He supports the opinion that 25 foot candles is a suitable degree of illumination, but regards 15-20 foot candles as adequate for general lighting, if there is additional local

lighting for difficult tasks. (British elementary schools are usually lighted so as to give a level of illumination of between 12 and 15 foot candles.) He points out the importance of differentiating between the lighting requirements of elementary, secondary and technical schools, supports the view that the brightness contrast ratio should be in the region of 3:1, but admits that this is difficult to achieve. Recent BRS experiments, however, indicate that a 3:1 ratio is unsatisfactory and the Station recommends a ratio of 10:1.

Mr. Engelhardt believes in the use of dark walls and floors (with a reflection factor as low as 30 per cent.) and light ceilings (reflection value, 85 per cent.). He says that Venetian blinds, although they can control sunlight adequately, require too much maintenance and points out that fixed out-riggers, baffles and louvres, although less effective, are more expensive than blinds. Roller blinds he finds nearly as efficient as Venetian blinds; when made of a new acrylic fibre material they allow an exceptionally high degree of light penetration. Glass blocks, Mr. Engelhardt says, have been found to require blinds when strong sunlight shines on them. Also discussed in this article is colour; "warm" hues are recommended for playrooms, corridors and entrances.

25.85 water supply and sanitation

FLUSHING CISTERNS

Automatic Flushing Cisterns for Urinals. BS 1876:1952. (British Standards Institution, 2s.)

Materials, workmanship, size and performance requirements and test discharge rates. When water supply is not through a meter the rate of feed and, therefore, the time between flushes must be agreed between the water undertaking and the user.



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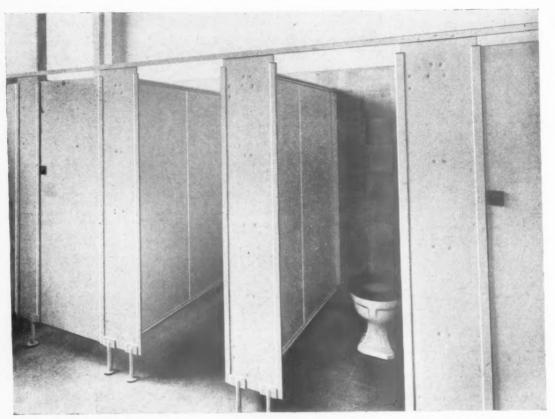
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THE INDUSTRY

From the Industry this week, Brian Grant reports on a one-piece plastic washer and jumper for taps, the use of reinforced brickwork for foundation beams, a water thinned "emulsion" paint and an extensive fluorescent lighting installation.

TAP WASHERS

From time to time I have referred to taps which are designed to simplify the replacement of washers, and even to taps for which it is claimed no re-washering whatever is required throughout their life. However, there still remains the problem of fitting a new washer to the jumper of a tap which has been taken apart. If the shank is held with one pair of pliers, another pair is nearly always needed for undoing the nut, and how many households have more than one pair? Not many. Readers who do their own repairs may, therefore, be interested in a new washer and jumper, made all in one piece from polythene—a plastic material which resists water up to boiling point. The nose is hemispherical, so that there should be comparatively little trouble with worn seatings and, at present, two sizes are available—for ½-in. and ½-in. taps. (Plastomatic Ltd., Winchester Road, London, N.W.3.)

LIGHT FITTING DESIGNERS

Troughton & Young (Lighting) Ltd., announce that their design department will now be led by their two senior designers—D. S. Shellshear, M.S.I.A., and W. J. C. Butcher, who have had long experience with the company. They have both during recent years collaborated closely with A. B. Read, R.D.I., who recently left the company to become Director of Design of the Carter group of companies.

Troughton & Young remind architects that their design department is always ready and willing to assist them with advice on interior and exterior lighting schemes, and to help them develop new types of lighting fitting

or systems of lighting to satisfy special requirements.

Arthur H. Young, A.M.I.E.E., continues to be the firm's executive director. (Troughton & Young (Lighting) Ltd., The Lighting Centre, 143, Knightsbridge, London, S.W.1.)

SHORT BORED PILES

For some time the BRS has been suggesting the use of short-bored piles for the foundations of small houses on clay subsoils liable to cracks and shrinkage. The usual technique is to span between the heads of the piles with reinforced concrete beams on which the walls are carried. As an economical alternative, however, Johnson's Reinforced Concrete Co. suggests that the beams could be made of reinforced brickwork.

work. This firm recently constructed an 11-in. cavity brick wall, reinforced with "Bricktor" reinforcement, over a 10-ft. clear span. The wall was built to represent a portion of a party wall, which would have to carry its share of the load from a first floor and a roof, together with its own weight. The portion built was 5 ft. high and was loaded by means of two hydraulic rams. A total load of 19-5 ton was applied before any failure was apparent in the wall, this being many times the weight of brickwork to be carried.

Previously a brick lintel had also been constructed and tested. This consisted of three courses of 4}-in. brickwork, reinforced with "Bricktor" but otherwise unsupported over a 6-ft. opening. This represented the outer skin of brickwork over a top floor window, which is required to carry only its own weight. The lintel carried a distributed load of over eight times its own weight without collapse. (Johnson's Reinforced Concrete

Co. Ltd., Artillery House, Artillery Row, London, S.W.1.)

EMULSION PAINTS

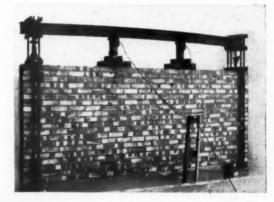
During the last year or so a number of new "emulsion" paints have come on to the market; among them is "Pastello." This is a vinyl emulsion paint. It is unlike orthodox paints in that it contains no driers or solvents and is thinned with water, so that it is entirely devoid of smell during or after application. This does not mean it is like distemper; it is a paint and has the durability and washable qualities of paint. As it dries and hardens it becomes completely insoluble in water. It has an eggshell finish which is smooth in appearance and to the touch, and it can be applied over distemper, paint, cement, new plaster, varnish, or even over creosote or bitumen. One coat gives very good obliteration. The smooth texture of the paint and fine "flow-properties" result in freedom from brush marks. It can be applied quickly with a 6-in. brush without detracting from the quality of the finish.

It is, moreover, quick drying, so that two or more coats can be applied in an 8-hr. day,

It is, moreover, quick drying, so that two or more coats can be applied in an 8-hr. day, and this property, combined with the absence of any smell, should make it very useful for re-decorating cinemas, restaurants, hospitals, and other jobs where there must be no stoppage of use.

New wood and metal need an oil base primer, but otherwise "Pastello" can be used direct, thinned with water in the proportion of about 1 part water to 2 parts of paint for undercoating, and about 1 to 10 for finishing coats. Covering capacity is between 70 and 80 sq. yd. per gall., and the price per gallon is 40s. It is made in twenty different shades, and stainers are also

Right, reinforced brickwork foundation beam, used in conjunction with short bored piles under test. The 11-in. cavity brickwork spans 10-ft.; the load when the photograph was taken was 10 ton. Below, fluorescent lighting in new BEA hangars at London Airport. A 99,000 sq. ft. installation, providing 25-ft. candles at floor level.





produced, so that almost any colour is possible. (Federated Paints Ltd., 2, Newton Place, Glasgow, C.3.)

HANGAR LIGHTING

The illustration below shows what is, perhaps, one of the largest fluorescent lighting systems so far carried out in this country. It is in a series of hangars now under construction for British European Airways at London Airport. Four of the ten hangars to be built are already completed and the total floor space of the hangars equals roughly 99 000 at ft.

roughly 99,000 sq. ft.
Lighting is by "Ionlite" cold cathode fluorescent tubes, in continuous rows under each roof beam and at a height of about 40 ft. above floor level. The installation gives an intensity of about 25 ft. candles at floor level and there appears to be no trouble with reflections from the surfaces of the aircraft. Moreover, the absence of shadows is such that work can be carried out on the underside of aircraft wings without local lighting. (Falk Stadelmann & Co. Ltd., 91, Farringdon Road, London, E.C.1.)

BRIAN GRANT

Buildings Illustrated

Cavendish Primary School, Edensor Road. Chiswick, London, W.4. (Pages 342-346.) For the Middlesex County Council. Architects: C. G. Stillman, F.R.I.B.A., County Architect; C. E. Harland, A.R.I.B.A., and L. T. Channing, A.R.I.B.A., Assistant Architects. Sculpture: Jan Koper. General contractors: Prestige & Co. Ltd., Sub-contractors: roofing, Permanite Ltd.; steel trusses, Boulton & Paul Ltd.; tubular columns, Tubewrights Ltd.; bricks, E. H. Smith (London) Ltd.; heating, gas and H.W. installation, Edward Deane & Beal Ltd.; electrical installation, W. T. Bushell Ltd.; metal windows and doors, Crittall Manufacturing Co. Ltd.; metal door frames, Morris Singer Co.; flush doors, Flexo Plywood Industries Ltd.; ventilators and controllable louvres, Colt Ventilation Ltd.; balustrading, City Display Organisation; ironmongery, Nettlefold & Moser Ltd.; sanitary fittings, O'Brien Thomas; asphalt path and playground, General Asphalte Co.; entrance gates, Clark, Hunt & Co.

Extensions to Willesden Technical College, Denzil Road, Willesden, Middlesex, for the Middlesex County Council. (Pages 347-352.) Architects: C. G. Stillman, F.R.I.B.A., County Architect; D. A. Duncan, O.B.E., A.R.I.B.A., Senior Architect. Consultants: (Structural) W. V. Zinn, (Electrical) G. H. Buckle & Partners. Quantity surveyors: Young & Brown. General contractors: Lavender McMillan Ltd. Sub-contractors: brick facings (external), H. J. Greenham (1929) Ltd.; flue linings, Moler Products Ltd.; brick facings (internal) Uxbridge Flint Brick Co.; cast iron drainage goods, Burns Bros. (London) Ltd.; duct covers, Dover Engineering Works Ltd.; ironmongery, N. F. Ramsay & Co. Ltd.; balustrading, Clark, Hunt & Co. Ltd.; metal windows, J. Gibbons Ltd.;

precast concrete facing slabs, Fabricrete Products; metal door frames, W. James & Co. Ltd.; electric lifts, Waygood-Otis Ltd.; heating, hot water supply and gas, Z. D. Berry & Sons Ltd.; woodwool slabs, Superlith Ltd.; Hornton stone, London & Sussex Merchants Ltd.; "Paropa" roofing, Frazzi Ltd.; ventilators, Greenwood & Airvac Vent Co. Ltd.; glass domes, T. & W. Ide Ltd.; drinking fountains, T. A. Harris Ltd.; rolling shutter, Shutter Contractors Ltd.; w.c. partitions, W. Mallinson & Sons Ltd.; sanitary fittings, Shanks & Co. Ltd.; glazed stonework channels, Broads & Co. Ltd.; flush doors, Leaderflush Ltd.; slate copings, Setchell & Son Ltd.; rubber flooring, Runnymede Rubber Co. Ltd.; precast concrete windows, J. A. King & Co. Ltd.; asphalt tanking, Brights Asphalte Contractors Ltd.; concrete tiles, Caledonian Concrete Products Ltd.; electrical installation, Thorpe & Thorpe Ltd.; water storage tank, Braithwaite & Co., Engineers Ltd.; terrazzo stair treads, Jaconello Ltd.; "Pyroc" finishes, C. & T. Painters, Ltd.; cloakroom fittings, A. J. Binns Ltd.; paving, Surrey Bituminous Supplies Ltd.; lightning conductor, J. W. Gray & Sons Ltd.; cast iron spiral stair, Haywards Ltd.; paint supplier, Murray & Jones, Ltd.; laboratory receivers, A. Gallenkamp & Co. Ltd.; joinery, Woodworth Joinery Ltd., Builders Supply Ltd.; fluorescent light fittings, Varilectric Ltd.; tungsten light fittings, Troughton & Young Ltd.; Tryrolean colour mix finish, Guntex Ltd.; trolley gear, G. W. King Ltd.; tubular gates, Lockerbie & Wilkinson; acoustic tiles, Horace W. Cullum & Co. Ltd.

Correction

In the JOURNAL for September 4, on page 281, the visit of fifty architects and town planners to Warsaw was described. The British party included David Medd, A.R.I.B.A., A.A.DIP., and Mary Crowley, A.R.I.B.A., not David and Mary Crawley as stated.

Announcements

A. Robert Jenkins, J.P., A.I.MECH.E., was installed as president of the Institute of Welding for 1952/53 at its annual general meeting. Mr. Jenkins, who was educated as a mechanical engineer at Sheffield University has visited factories in Sweden, Germany and the USA and was a member of the specialist productivity team on welding which visited the USA in 1950. He serves on the council of the British Welding Research Association, the Rotherham and District Employment Committee and the management committee of the Sheffield Engineering Employers' Association, and has been president of the Rotherham Chamber of Commerce since 1950. He is a founder-member of the Sheffield branch of the Institute of Welding.

J. D. Blacklock, A.R.I.B.A., has taken up the appointment of Borough Architect to the Bridgwater Borough Council, and will be pleased to receive catalogues, etc., at the Town Hall, Bridgwater, Somerset.

W. H. Groves, DIP. ARCH. (Nottm.), A.R.I.B.A., S.P.DIP., A.M.T.P.I., has been awarded a Visiting Research Fellowship under the Fulbright and Smith-Mundt Acts of the United States Government. He will carry out a year's research in housing and redevelopment, with special reference to mobility and the under-developed territories, at the Graduate School, Massachusetts Institute of Technology, Cambridge, USA, in the Department of City and Regional Planning. He has been engaged on housing and re-planning in London and expects to sail for the United States in early September. Manufacturers of constructional materials and equipment related to this research are asked to direct literature to him at the above address.





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The upper photograph illustrates the Board Room of the new Building Centre, London, where "Unad" Tables and Chairs were used.

The lower photograph shows Story's "Versatile" hand-made furniture in Australian Walnut, for a Directors room of Fiat (England) Ltd., recently furnished by Story's.

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Finlock forms the eaves and gutters (says Mr. Fin)

. and saves £15 per house! (says Mr. Lock)

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On the illustration below "a" shows the trough in which lintels can be cast in situ if required, "b"



shows the large sectioned gutter channel which permits laying without fall. Strong enough to walk in and to withstand all building stresses. Completed by a bituminous lining after laying. "c" indicates the jointing grooves.

HOW FINLOCK SAVES MONEY and TIME! ROOFING FELT TILE-ANTI-CAPILLARY GROOVE

* A fully illustrated Technical Booklet is available on request, from our Head Office This sectional drawing shows the system in detail and illustrates the ways in which FINLOCK saves approximately 5 yards of brickwork, 80 ft. of rafter, 40 ft. of softia and 80 ft. super of roof tiling per single house. Painting is clirimated and a reduction in down pipes and draininge is obtained. The complete caves for a building, with all fittings, can be fixed un one day. (A.J. Information Sheet No. 33010) typical FINLOCK units are shown Regd. Par

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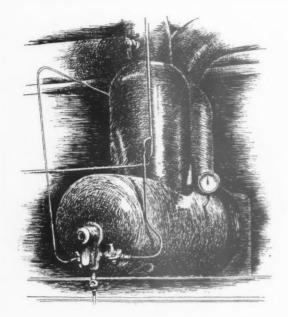
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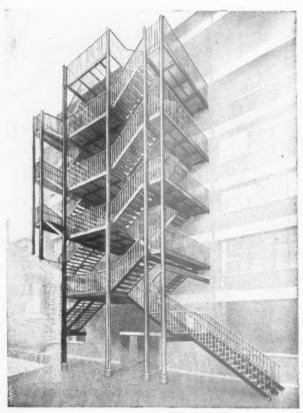
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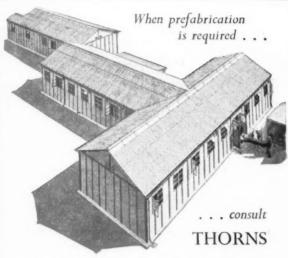
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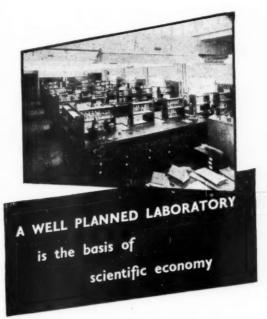
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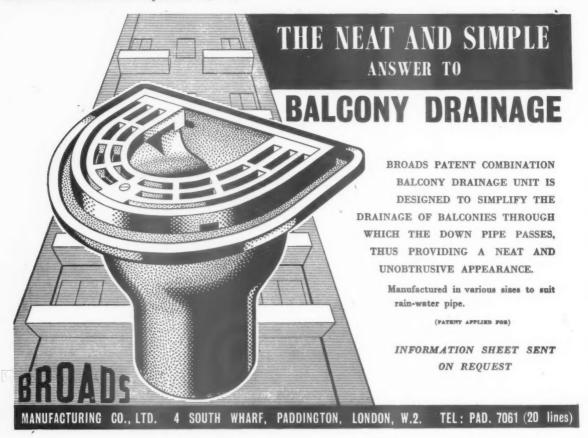
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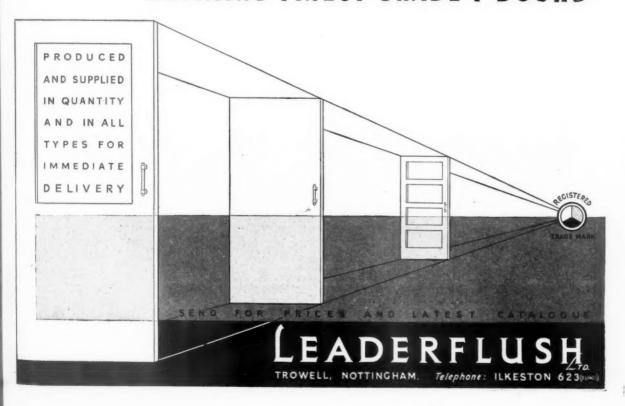
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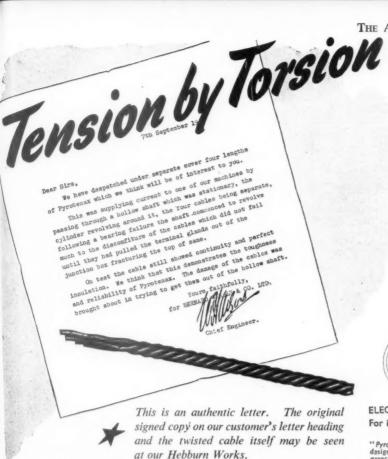
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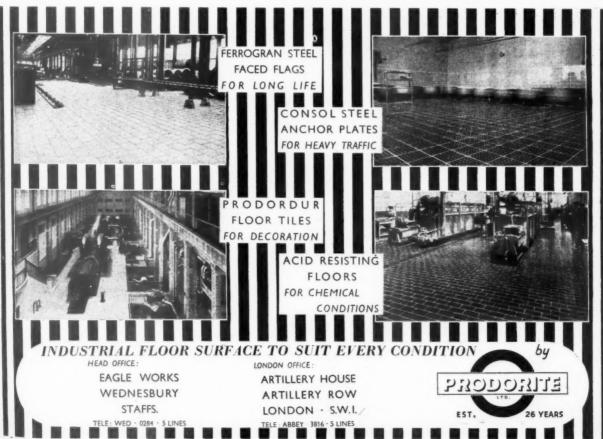
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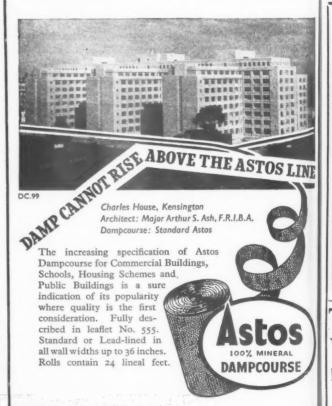


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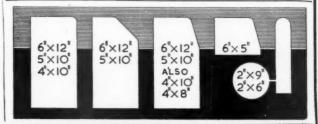
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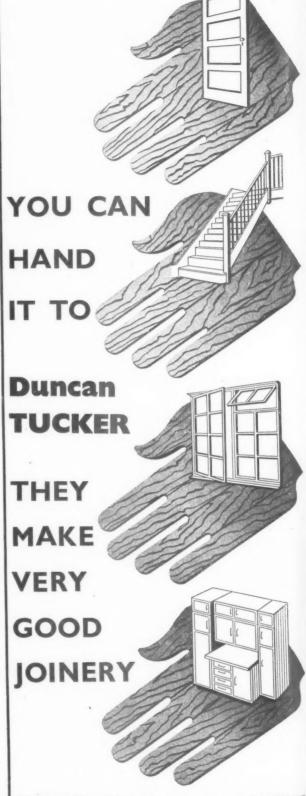
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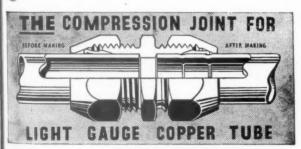
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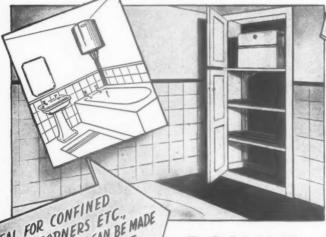
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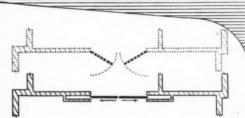
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For appointment (b) applicants should have had similar experience even in a junior capacity and preferably be fitting themselves for qualifying examination.
Both appointments will be terminable by one month's notice, in writing, on either side.
Applications, stating age, whether married or single, qualifications, full particulars of experience and range of salary required, together with copies of two recent testimonials are to reach the undersigned by Monday, 22nd September, 1952.
Applicants must disclose whether they are related to any member or senior officer of the Council. Canvassing, either directly or indirectly, will disqualify.

CLIFFORD E. JONES, Clerk of the Council.

CLIFFORD E. JONES, Clerk of the Council.

CLIFFORD E. JONES, Clerk of the Council.

1. Cheyne Walk, Northampton.

4th September, 1952.

COUNTY BOROUGH OF ROCHDALE
APPOINTMENT OF ASSISTANT QUANTITY
SURVEYOR

Applications are invited for the appointment of Assistant Quantity Surveyor in the Department of the Borough Surveyor, at a salary of £595-£645 per annum (Grade A.P.T. V).

Applicants must bave passed the Final Examination of the R.I.C.S. (Quantities Section) and should have had considerable experience in the preparation of Bills of Quantities, measurement of site works and the preparation of Statements for Interim and Final Payments.

Applications will be considered from candidates who may not be so fully qualified, the Grade and salary of the position being in accordance with qualifications and varying as follows:—Grade III (£495-£540) for a candidate with some experience, but not having passed the Intermediate Examination of the R.I.C.S., Grade III or IV (£525-£570 or £55-£6500) for candidates who have passed the Intermediate Examination.

The appointment will be subject to the provision of the Local Government Superannuation Acts, and to the selected candidate passing a Medical Examination. Canvassing is prohibited and candidates must disclose whether to their knowledge they are related to any member or Senior Officer of the Council.

Applications, stating age, qualifications and full particulars of experience together with the names and addresses of two persons to whom reference may be made and endorsed "Assistant Quantity Surveyor" must be delivered to the Borongh Surveyor. Town Hall, Rochdale, not later than 9 a.m. on Monday, 13th October, 1982.

K. B. MOORE.

BOROUGH OF STOCKTON-ON-TEES.
BOROUGH ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of an Architectural Assistant in the Borough Architect's Department, at a salary in accordance with Grade A.P.T., IV (£555×£15—£600), of the National Scales of Salaries.
Applications, on forms which can be obtained from the Borough Architect, 28, The Square, Stockton-on Tees, should be forwarded to the undersigned not later than Friday, 26th September, 1952.

JOHN B. HAWORTH,

Barclay's Bank Chambers, High Street,

Stockton-on-Tees.

12th September, 1952.

LONDON COUNTY COUNCIL

ARCHITECT'S DEPARTMENT

Vacancies for (1) PLANNING OFFICERS,
Grade III (up to £837 10s.) A.R.I.B.A.,
A.R.I.C.S. and/or A.M.T.P.I. required. (2)
TECHNICAL ASSISTANTS (up to £10 a week)
with experience as draughtsmen or studying for planning or architectural qualifications.

Application forms and particulars from
Architect County Hall, S.E.I., quoting AR_EK/P.4

(1005).

DEVON COUNTY COUNCIL

OUNTY ARCHITECT'S DEPARTMENT
Applications are invited for the undermentioned appointments on the permanent staff. Conditions of service and salaries are in accordance with the National Joint Council Scheme for Local authorities.

of service and Season to Council Scheme for Local Authorities.

ONE ASSISTANT ARCHITECT, Grade A.P.T. IX (£815-£935 per annum).

TWO ASSISTANT ARCHITECTS, Grade A.P.T. VI (£670-£735 per annum).

ONE ASSISTANT ARCHITECT, Grade A.P.T. V (£595-£645 per annum).

ONE ASSISTANT ARCHITECT, Grade A.P.T. V (£595-£645 per annum).

Application forms; with full particulars of qualifications and experience required for the various posts, are obtainable from the County Architect, 97, Heavitree Road, Exeter, and must be returned to him by Wednesday the 1st October, 1962.

Canvassing, directly or indirectly, will disqualify.

H. A. DAVIS, Clerk of the County Council.

The Castle, Exeter.

Clerk of the County Council.

The Castle, Exeter.

10th September, 1952.

PEMBROKESHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT

APPOINTMENT OF ASSISTANT ARCHITECT
Applications are invited for the appointment of an Assistant Architect at a salary in accordance with Grade VI. A.P. &T. Division (i.e., £670 rising by annual increment to £735 per annum).

Applicants should be members of the R.I.B.A. by examination of hold equivalent academical qualifications with experience of contemporary architectural and/or structural design, particularly with reference to Educational Buildings, Police Housing, Maintenance, etc.

The appointment is superannuable and subject to 2 satisfactory medical examination.

Canvassing will be a disqualification.

Forms of application can be obtained on application to the County Architect, County Offices. Haverfordwest, and should be completed and returned to the undersigned not later than Monday, the 6th October, 1952.

H. LOUIS UNDERWOOD.

Clerk of the County Council.

Yellow September, 1952.

SOUTH CAMBRIDGESHIRE RURAL

APPOINTMENT OF ARCHITECTURAL

ASSISTANT

Applications are invited for the appointment of Architectural Assistant in the department of the Council's Architect. Salary within A.P.T.

Grades V-VI (£955-£735). The commencing salary will be fixed having regard to the qualifications and experience of the successful applicant.

Architectural experience in housing is necessary and candidates must be causable of surveying.

fications and capticant.
Architectural experience in housing is necessary and candidates must be capable of surveying, levelling and preparing detailed drawings and

candidates must be capable of surveying levelling and preparing detailed drawings and specifications.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, the National Conditions of Service, to a satisfactory medical examination and to one month's notice in writing on either side.

Applications, stating age, present salary, experience and qualifications, together with copies of two recent testimonials, should reach the undersigned not later than the first post on Monday, 29th September, 1952.

Housing accommodation in the Rural District may be provided for the successful candidate if required.

Canvassing directly or indirectly will disqualify.

required.
Canvassing directly or indirectly will disqualify.
B. G. CRAFT.
Clerk to the Council.

County Hall, Hobson Street, Cambridge. 15th September, 1952

SOUTHAMPTON C.B.C require GROUP ARCHITECT, Grade VIII (2760-2835) and PLANNING ASSISTANT. Grade I (2655-2510), under N.J.C. Service Conditions. Forms of appli-cation from the Borough Architect. Civic Centre, Southampton, to be returned by 1st October, 1952.

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URBAN DISTRICT OF EAST BARNET
ENGINEER AND SURVEYOR'S DEPARTMENT
Applications are invited for the following
Permanent Appointments:—

(a) SENIOR ASSISTANT ENGINEER—A.P.T.
(Grade VI (£670 to £735 Plus London Weighting).

(b) ENGINEERING ASSISTANT — A.P.T.
Grade II (£495 to £540 Plus London Weighting).

(c) ABCHITECTURAL ASSISTANT—A.P.T.
Grade IV (£555 to £600 Plus London Weighting).
Housing Accommodation can be provided for
Applications should be submitted by not later
than Monday, 29th September, 1952, on Forms
to be obtained from the Undersigned.

(C. M. BARNES, O.B.E., M.I.Mun.E., F.R.S.I.,
Engineer & Surveyor.

Town Hall, Station Road,
New Barnet, Hertfordshire.

7372

BATTERSEA BOROUGH COUNCIL require

New Barnet, Hertfordsnire.

7372

BATTERSEA BOROUGH COUNCIL require ASSISTANT ARCHITECT, should be A.R.I.B.A. Salary, according to qualifications, £710—£785 plus London weighting (A.P.T. VII). L.G. Supn. Act. Application forms from Borough Engineer, Town Hall, Battersea, S.W.II. Closing date 1st. October.

LONDON ELECTRICITY BOARD.

ENGINEERING DRAUGHTSMAN.

Applications are invited for the above position. The successful applicant will be based at the Southern Sub-Area Drawing Office at Beckenham, Kent, but may be required to work in any District Office within the Sub-Area.

Candidates should have had a good general and technical education and be experienced in one or more of the following subjects: Building and Civil Engineering Design; Engineering Drawing; Plant Layout in Sub-stations; Lay-outs and Site Plans of Mains Work; Electrical Diagrams.

The post is graded under Schedule "D" of the National Joint Board agreement as Grade VI, e438 to £574 7s. per annum, inclusive of London allowance.

llowance.

Application forms obtainable from Esta
nents Officer, 46, New Broad Street, E.C.2,
eturned by 2nd October, 1952. Please et
ddressed foolscap envelope and quote
7/1488/A. on all correspondence. from Establish-treet, E.C.2, to be Please enclose

addressed foolscap envelope and quote ref. V/1488/A. on all correspondence. 7408

BOROUGH OF COLCHESTER.

TEMPORARY ARCHITECTURAL ASSISTANT.
Applications are invited for the appointment of Temporary Architectural Assistant in the Borough Engineer's Department, at a salary in accordance with A.P.T., Grades II-III (£495-£570 per annum), according to qualifications and experience.

Applicants should have passed the Intermediate Examination of the R.I.B.A. or its equivalent, and preferably have had experience in connection with Local Authority Housing Schemes. The appointment will be subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

The appointment will be terminable by one month's notice on either side.
Applications, stating age, qualifications and experience, accompanied by copies of not more than two recent testimonials, must reach the Borough Engineer, 64. West Stockwell Street, Colchester, not later than 3rd October, 1952.
Canvassing will disqualify, and candidates must state whether they are related to any member or senior officer of the Council.

N. CATCHPOLE.
Town Hall, Colchester.
17th September, 1952.
7409

Town Hall, Colchester, 17th September, 1952.

BOROUGH OF WALTHAMSTOW
BOROUGH ARCHITECT. ENGINEER &
SURVEYOR'S DEPARTMENT
ASSISTANT ARCHITECT
ASSISTANT ACHITECT
ASSISTANT QUANTITY SURVEYOR
Applications are invited for the above appointments on Grades I/V A.P.T. Division (£495—£675, inclusive of London Weighting) commencing salary according to qualifications and experience.
Applications with names of two persons for references should be received by the undersigned not later than Wednesday, 1st October, 1952.
G. A. BLAKELEY,
Town Hall.

Town Hall, Walthamstow, E.17.

Walthamstow, E.17.

STAFFORDSHIRE COUNTY COUNCIL
COUNTY PLANNING DEPARTMENT
Applications are invited for the appointment of
a JUNIOR PLANNING ASSISTANT on A.P.T.
Grades I to IV (£440 to £575 per annum) in the
Central Area Planning Office at Stafford.
Applicants for the appointment should have had
training in an Architect's, Engineer's, Surveyor's
or Planning Office and preference will be given
to those who have passed the Intermediate
Examination of the Town Planning Institute or
its equivalent.
Canvassing directly or indirectly will be deemed
a disquelification and relationship to any Member
or Senior Officer of the County Council must be
disclosed.

disclosed.

Applications, which should give details of ageeducation, qualifications, present and previous
appointments and experience, and include copies
of two recent testimonials, should be sent to
D. W. Riley, County Planning Officer, 41a.
Eastgate Street. Stafford, not later than the 26th
September, 1952.

T. H. EVANS, Clerk of the County Council.

Ixxvi

HAMPSHIRE COUNTY COUNCIL
Applications are invited for the appointment of a TECHNICAL ASSISTANT on Grade III of the National Scales (£525-£570) to work in the South-West Area Office of the County Planning Department at Lyndhurst. Candidates should have passed the Intermediate examination of the Town Planning Institute or of a related professional body and have had experience in the Planning Department of a Local Planning Authority. In the event of an applicant being appointed who does not hold the requisite qualification, the appointment will be made at a suitable point in Grade I-II of the National Scales, pending the passing of the requisite examination. The appointment is pensionable and will be subject to a satisfactory medical report.

Officers using their own cars when travelling on County Council duties will receive travelling allowances on the County Scale for the time being in force.

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Council. 7381

in force.

In approved cases the County Council are prepared to assist newly appointed staff to meet removal expenses.

No form of application is issued, but applications, stating age, education, qualifications and experience, together with a copy of one testimonial and the names and addresses of two persons to whom reference may be made should be sent to the County Planning Officer, Litton Ledge, Clifton Road, Winchester, not later than the 24th September, 1952.

METROPOLITAN BOROLIGH OF

sent to the County Planning Officer, Litton Ledge, Clifton Road, Winchester, not later than the 24th September, 1952.

METROPOLITAN BOROUGH OF PADDINGTON ERECTION OF MULTILSTOREY FLATS. HALLFIELD ESTATE, BISHOP'S BRIDGE SECOND INVITATION TO TENDER Applications (to be received by the undersigned on or before 29th September, 1952) are again invited from Builders and Contractors who wish to be considered by the Borough Council for inclusion in the list of those to be invited to submit a tender for the above works.

The contract embraces the erection and completion of 4 ten-storey and 3 six-storey block of fals of reinforced-concrete box-frame construction. The seven blocks comprise 396 flats of various types, and the contract will include for the whole of the work to the superstructure of these blocks. In the case of four blocks the piling work and the site clearance and levelling immediately surrounding the blocks will have formed part of a previous contract. The remainder of the site clearance (other than demolition) and levelling, the site roads and paths, drains, retaining walls and other external services will be included in the proposed contract. The area of the site is approximately seven acres.

The Council require to be satisfied that Contractors wishing to tender have had previous experience of substantial works of this nature. If it is intended to let to sub-contract the reinforced concrete work, information will be required as to the intended sub-contractor, together with particulars of works of a similar nature which that sub-contractor has carried out. Applicants are required to submit similar particulars of their own works, and of the local authorities and/or architects under whose supervision they have carried them out, with details of the nature and scope of the contract in each case and the date when it was completed.

Bills of Quantities will be available towards the end of September, and applicants should state what permanent site staff and labour force they anticipate will be available for this work should they be appointed as Contractors.

Contractors included in the list of those invited to submit tenders will be required to make a payment of a deposit of £5 5s. dd. on receipt of which the Bills of Quantities will be sent to them. This deposit will be refunded on receipt of a bona fide tender. Instructions with regard to tenders, including the date on which they are to be returned to the Council, will be notified when the documents are issued to those Contractors invited to tender.

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

W. H. BENTLEY.

W. H. BENTLEY. Town Clerk.

Town Hall Paddington, W.2.

5th September, 1952.

COUNTY BOROUGH OF BARROW-IN-FURNESS
BOROUGH ENGINEER & SURVEYOR'S
DEPARTMENT
ASSISTANT ARCHITECT—Grade VI.
BUILDING SURVEYOR—Grade VA.
Applications are invited for the permanent posts of:—

Applications are invited for the permanent posts of :—

(a) Assistant Architect—Grade VI. Candidates should be connetent architects with experience on either housing or schools.

(b) Building Surveyor—Grade VA for duties in connection with the maintenance of Corporation properties.

Council houses are available if required by married applicants.

Further particulars, conditions of appointment and forms of application may be obtained from the Borough Engineer & Surveyor, Town Hall, Barrow-in-Furness, to whom completed applications must be returned not later than Monday, 6th October, 1952.

LAWRENCE ALLEN.

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Sale by Auction

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

DARTFORD HEATH.
C. J. RICE, LTD.'S YARD,
(just beyond the Black Prince Hotel).
IMPORTANT SALE OF
BUILDING MATERIALS AND FITTINGS,
comprising secondhand Timber (deals, joists,
quartering, floor boarding, matching, etc.), Oak
and Pine Doors, R.S.Js., Sashes and Frames, Iron
Rainwater Piping and Guttering, Galvanized
Steam Piping, 4 in. Iron Greenhouse Piping, Steel
Scamolding, Fireplaces, Washbasins and Baths,
Bricks, Slates, Yorkstone, etc., which
RELPH & SONS, F.A.L.P.A., F.A.L.
will Sell by Auction on the above site on THURSDAY, 2nd OCTOBER, 1952, at 10.30 a.m. Catalogues may be obtained from the Auctioneer's
Office, 102, Broadway, Bexleyheath. (Tel. 118),
7389

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

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 13-64 inclusive or a woman aged 13-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1923.

JUNIOR ASSISTANT required for private business premises practice. Good prospects. Box 7319.

AN ASSISTANT ARCHITECT is required in the Estates Department of a Brewery Company in the South-West. Applicants should be of Intermediate standard R.I.B.A., and should be interested in the design, alteration and maintenance of Public Houses and Hotels, and should possess a sound knowledge of construction, and experience in drafting specifications. Ability to drive a car is essential. Assistance could be given in obtaining a house, if necessary. Reply, stating age, qualifications, experience, past and present appointments, and salary required, to Box 7386.

Outlified architectural assistant required by firm of Chartered Architects in North East Lancashire. Possibility of partnership. Apply giving details of experience and salary required to Box 7401.

Retail price
De Luxe
model £58 10s.0d.

NO DRAINS?

Then here is good news for you

solves the sanitation problem in a new way, bringing the comfort and convenience of the Town Dweller to every home or factory where main drainage is unavailable.

ODOURLESS AND GERM FREE . INDEPENDENT OF WATER SUPPLIES ** NO MANUAL HANDLING . INEXPENSIVE AND SIMPLE TO INSTALL AND RUN **

An exhibit of the Destrol System can be seen at THE BUILDING CENTRE, STORE STREET, TOTTENHAM COURT ROAD, LONDON

Agents, Stockists still wanted in some areas

DESTROL SALES LTD., 402 SALISBURY HOUSE, LONDON WALL, LONDON, E.C.2.



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FOR HOUSES AND OTHER SMALL

STRUCTURES by W. H. Elgar, MA, MENG, AMICE, FRICS Forewords by Noei Dean, MA and James Macgregor, FSA How to arrive at an adequate, safe foundation design whatever the soil and subsoil; how to avoid needless waste of money below ground level; how to test the behaviour and physical properties of subsoils. The book contains 92 pages with 52 line illustrations.

THE ARCHITECTURAL PRESS 9 Queen Anne's Gate SWI

Price 12s. 6d. net, postage 5d.



A rafter in the roof of Chichester Cathedral showing damage by the Death Watch Beetle.

Expert treatment of timber decay

The insidious workings of the Death Watch Beetle are often not apparent until serious damage has been done. Only the scientific use of a penetrating and persistent insecticide will eradicate these borers. "WYKAMOL" polychlornaphthalene can be confidently recommended and the experience and technical skill of our staff is at your disposal.

Send for free Technical Brochure "The Control of INSECT and FUN-GAL DESTROYERS OF TIMBER."

For advice and further details write to :-

RICHARDSON & STARLING LTD. Members of the British Wood Preserving Association
HYDE STREET * WINCHESTER * Tel: 2537 A RCHITECTURAL ASSISTANT/DRAUGHTS-MAN, preferably experienced non-traditional construction and modern methods, for design, detailing, etc., in connection with Schools, Hospitals and Housing in the Trusteel System for Overseas, Good salary and prospects. Apply Trusteel Corporation (Overseas), Ltd., Heath Road, Oxhey, near Watford, Herts. Watford 6256.

L ADY ARCHITECTURAL ASSISTANT, inter-ested in interior design, required for junior post. Apply Frederick Gibberd, 8, Percy Street, 7383

W.I.

XPERIENCED SENIOR ARCHITECTURAL
ASSISTANT required in Birmingham office;
competent in planning and design, working drawings and supervision of works, particularly schools.
Particulars of training, experience and salary desired. Box 7402.

desired. Box 7402.

JUNIOR ARCHITECTURAL ASSISTANT
required having not less than three years'
training, preferably to intermediate R.I.B.A.
standard. Experience in prefabricated construction an advantage. Contributory staff pension
scheme in force. Applications in writing, stating
age, qualifications and experience, together with
names of two referees, should be sent to the
Manager, Riley-Newsum Housing Department,
H. Newsum, Sons & Co. Ltd., Lincoln, by
September 27th, marked "Architectural Assistant."
7400

Architectural Appointments Wanted

TUDENT R.I.B.A. (28) seeks progressive posi-tion involving some responsibility. 5½ years' general experience; preparing for Final at recognised school. Salary by arrangement.

RCHITECTURAL ASSISTANT, with 10 years' varied experience, seeks interesting position in London office. Used to taking complete responsibility, administration, office and site supervision.

A R.I.B.A., accustomed to being in charge of a drawing office, has had excellent experience in the office and on the site. Can take charge from sketch to final settlement; specifications, perspectives, layout. Can work in his own West End office if necessary. Box 7301.

ARCHITECTURAL ASSISTANT, A.R.I.B.A., responsible situation small progressive office in London or Hertfordshire. Box 557.

RCHITECTURAL ASSISTANT, several years' experience, wishes position. London area experience, wishes position.

A RCHITECTURAL ASSISTANT—passed all exams, and now writing thesis for B.Arch. degree—requires appointment in London Architect's Office. Two years' office experience since leaving university. Box 558.

B. A. HONOURS IN ARCHITECTURE requires position as Architectural Assistant in London or Southern Counties. 18 months' practical experience in private office.

A BCHITECTURAL ASSISTANT, (24), school trained with R.I.B.A Final except Hygiene and 2 two years' office experience, requires responsible progressive post. Excellent References. K. R. Saillard Hyelm, 47, Carleton Road, Tafeli Park, N.7.

A.R.I.B.A., A.M.T.P.I., (56), 15 years' varied experience including 3 years own practice overseas. desires appointment with prospects, home or overseas. Box 561.

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

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a voman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

REPRESENTATIVE with first class connection among London architects required by well-known firm manufacturing high quality flush doors and partitioning. Salary and expenses. Permanent and progressive position for right man. Box 7399.

Services Offered

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

A RCHITECTURAL DESIGNER-DRAUGHTS-MAN. Own office. Seeks commissions from understaffed or single handed principals. Details and references. Box 7995.

A. R.I.B.A., with good all round experience, requires part-time or free lance work to help his growing practice. MUSeum 9106. 7205

Typewriting, Duplicating.—Bills of Quantity, Specifications, etc., expertly typed/duplicated. Express service. Work collected/delivered. JOSEPHINE HALL & PARTNERS, 501/2, GRAND BUILDINGS, TRAFALGAR SQUARE, W.C.2. WHI. 6411/2, and 87, High Street, Tunbridge Wells. Telephone: 1255.

ENGINEER, experienced underpinning work, offers services for design of underpinning schemes. Specifications and working drawings, own soil testing laboratory. Would undertake supervision of works, if required. Fees by arrangement. Box 7312.

A RCHITECT'S SECRETARY, fully experi-enced, requires position in London area,

PERSPECTIVE DRAWINGS prepared of any projects, and finished with pencil line, ink line, water colour, body colour or oils. 5 guineas for Double elephant size, 3 guineas for Imperial size. Box 7396.

For Sale or Wanted

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

RECONDITIONED EX-ARMY HUTS, and manufactured buildings. Timber, Asbestos, Nissen type, Hall type, etc. All sizes and prices. Write, call, or telephone, Universal Supplies (Belvedere), Ltd., Dept. 25, Crabtree Manorway, Belvedere, Kent. Tel.: Erith 2948.

DRACTICE FOR SALE.—Old-established Archigood prospects. Well equipped office, on lease;
London West suburb, with very little competition.
Reasonable figure would be accepted. Age reason
for selling. Box 7313.

A NGLE FENCING STAKES,—12 in. by 12 in. by 1 in. by 6 ft., holed and pointed. 3s. 5d. each. Carriage paid on orders for 25 and over. Reduction for large quantities. Other sizes available. Enquiries to Church & Bramhall (Engineers), Ltd., Reservoir Place, Pleck, Walsall.

THE COLLEGE OF ESTATE MANAGEMENT St. Albans Grove, Kensington, W.8.

Day and Evening Courses for the following Examinations:— University of London Degree of B.Sc. (Estate Management)

commence in October. (Day courses only. Completed application forms must be submitted by May 31st.)

Royal Institution of Chartered Surveyors (Building, Quantities and Valuations subdivisions) commence in April. (Completed application forms must be submitted by December 31st.)

Postal Courses

B.Sc. (Estate Management), commence in January and July.
The Royal Institution of Chartered Surveyors,

Institution of Municipal Engineers,

Royal Sanitary Institute, commence in April and October.

Town Planning Institute, commence in May and October.
Applicants for Postal Courses should submit their forms
two complete calendar months before the date on which the course begins.

Telephone: Western 1546 Applications to: The Secretary.

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PHENCO is tested to British Standards Specification for wear, indentation, pilability, water absorption and non-inflammability. B. S.S. 476/1932, B.S.S. 386/1936, B.S.S. 810/1936.

PHENCO FLOORING is a durable and flexible material with pleasing colour tones. It is supplied in 8 or 12 yard rolls, 36 in. wide by 3/32 in. or 1/8 in. thick; slaso in tiles 12 in. by 12 in. and 9 in. by 9 in. and 1/8 in. thick.

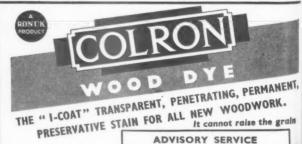
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91, Bishopsgate, London, E.C.2. Tel.: London Wall 1622 Works at: 2K Buckingham Ave., Trading Estata, Slough, Bucks Tel.: Slough 22307/8/9

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Agents for Sheffield orea
JOHN HADFIELD & SONS LTD.



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Shade cards, full directions and working instructions for contractors' use, estimates and 50 years of specialists' experience are at your service.

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Contract Depot London, W.1

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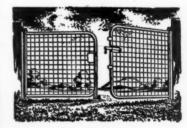
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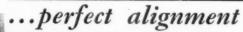
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