

THE ARCHITECTS' JOURNAL



standard contents

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

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★A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to 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.

IGE	Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1.	Sloane 8266
IHVE	Institution of Heating and Ventilating Engineers. 75, Eaton Place, S.W.1.	Sloane 3158/1601
IIBD	Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1.	Euston 2450
ILA	Institute of Landscape Architects. 12, Gower Street, W.C.1.	Museum 1783
I of Arb.	Institute of Arbitrators, 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2.	Temple Bar 4071
IOB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 7197/5176
IR	Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3.	Avenue 6851
IRA	Institute of Registered Architects. 47, Victoria Street, S.W.1.	Abbey 6172
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.	Sloane 7128
IWA	Inland Waterways Association. 11, Gower Street, W.C.1.	Museum 9200
LIDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264/4175
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3891
MARS	MARS Group (English Branch of CIAM). Secretary: Gontran Goulden, Building Centre, 9, Conduit Street, W.1.	Mayfair 8641
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education. Curzon Street House, Curzon Street, W.1.	Mayfair 9400
MOH	Ministry of Health. Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service, 8, St. James's Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, Victoria Embankment, W.C.	Gerrard 6933
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.	Mayfair 9494
MOTCP	Ministry of Town and Country Planning. 32-33, St. James's Square, S.W.1.	Whitehall 8411
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalt Mine-Owners and Manufacturers Council. 94-98, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1.	Abbey 4813
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers. 10, Princes Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1.	Langham 4041/4054
NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4.	Macaulay 4451
NFHS	National Federation of Housing Societies. 13, Suffolk St., S.W.1.	Whitehall 1693
NHBRC	National House Builders Registration Council. 82, New Cavendish Street, W.1.	Langham 4341
NPL	National Physical Laboratory. Head Office, Teddington.	Molesey 1380
NSA	National Sawmilling Association. 14, New Bridge Street, E.C.4.	City 1476
NSAS	National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1.	Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1.	Whitehall 0211
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1.	Whitehall 7245
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1.	Whitehall 9936
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh.	Edinburgh 20396
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Langham 5721
RICS	Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1.	Whitehall 5322/9242
RFAC	Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1.	Whitehall 3935
RS	Royal Society. Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2.	Trafalgar 2366
RSJ	Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1.	Sloane 5134
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers. Grosvenor Gardens House, Grosvenor Gardens, S.W.1.	Victoria 2186
SCR	Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8.	Western 1571
SE	Society of Engineers. 17, Victoria Street, Westminster, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3.	Mansion House 3921
SIA	Structural Insulation Association. 14, Moorgate, London, E.C.2.	Central 4444
SIA	Society of Industrial Artists. 7, Woburn Square, W.C.1.	Langham 1984
SNHTPC	Scottish National Housing Town Planning Council. Hon. Sec., Robert Pollock, Town Clerk, Rutherglen.	
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association. 75, Cannon Street, E.C.4.	City 4771
TGC	The Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation. 69, Cannon Street, E.C.4.	City 4444
WDC	War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
WEDA	Welfare Equipment Development Association. 74, Victoria Street, S.W.1.	Victoria 5783
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	Oxford 47988

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9, 11 and 13, Queen Anne's Gate, Westminster,
S.W.1. Phone: Whitehall 0611

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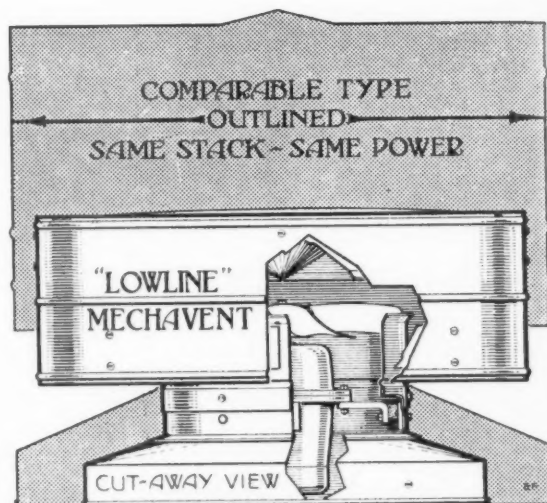


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FEATURING THESE ADVANTAGES

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but **TOUGH, LONG-LASTING, ECONOMICAL**

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Armstrong's Cork Tiles, famous since 1896, are made of nothing but pure, resilient Spanish cork, bonded under heat by its own resins—no dust or gritty granules, no adulterant. A special feature of Armstrong's Cork Tiles is that they are supplied not only straight-edged but also tongued and grooved, which obviates sanding after laying and prevents lipping and curling. You are invited to write for further particulars.

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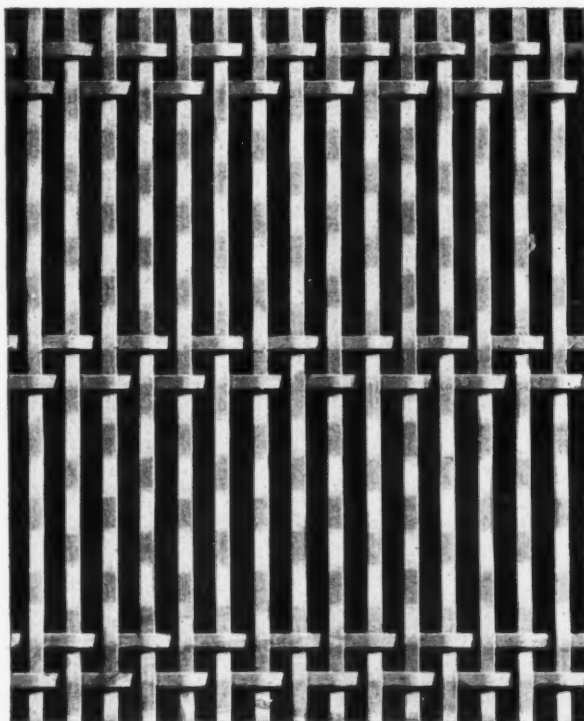
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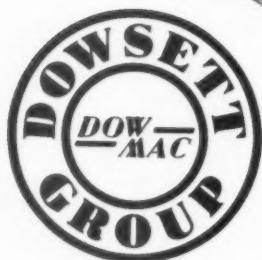
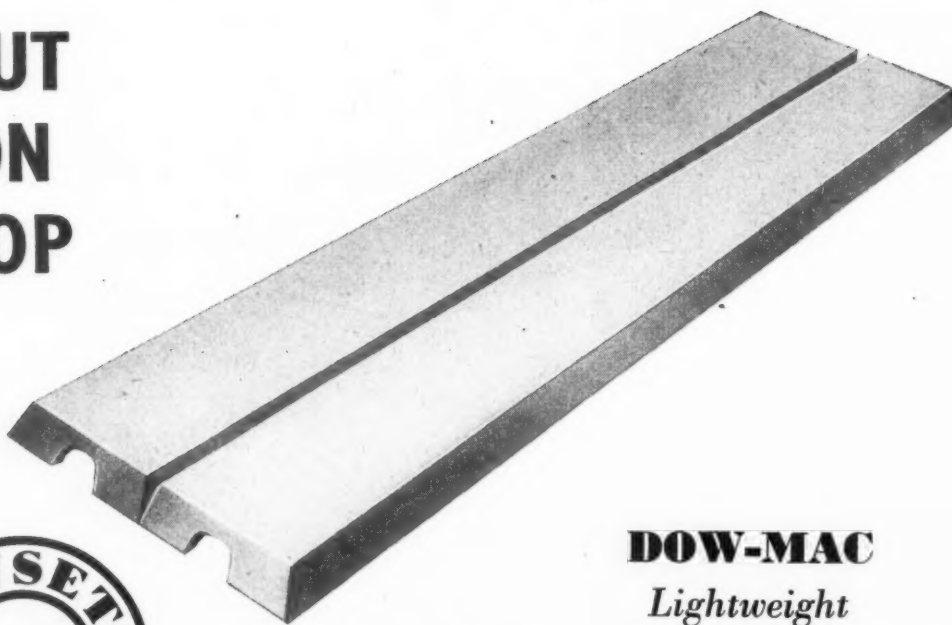
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The artistic effect of Harco Ribbon Wire renders it particularly suitable for use where care of design and appointment are of major importance. Architects will appreciate that it not only screens the unsightly, but allows free circulation of air. The patterns in which Ribbon Wire can be woven, make it the perfect selection for Lift Shaft Enclosures, Ventilating Panels, Radiator Covers, Electric Heater Covers, etc. Illustration shows Pattern No. 1361 W. Other Patterns and full particulars in Catalogue AJ 744.

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TOP**

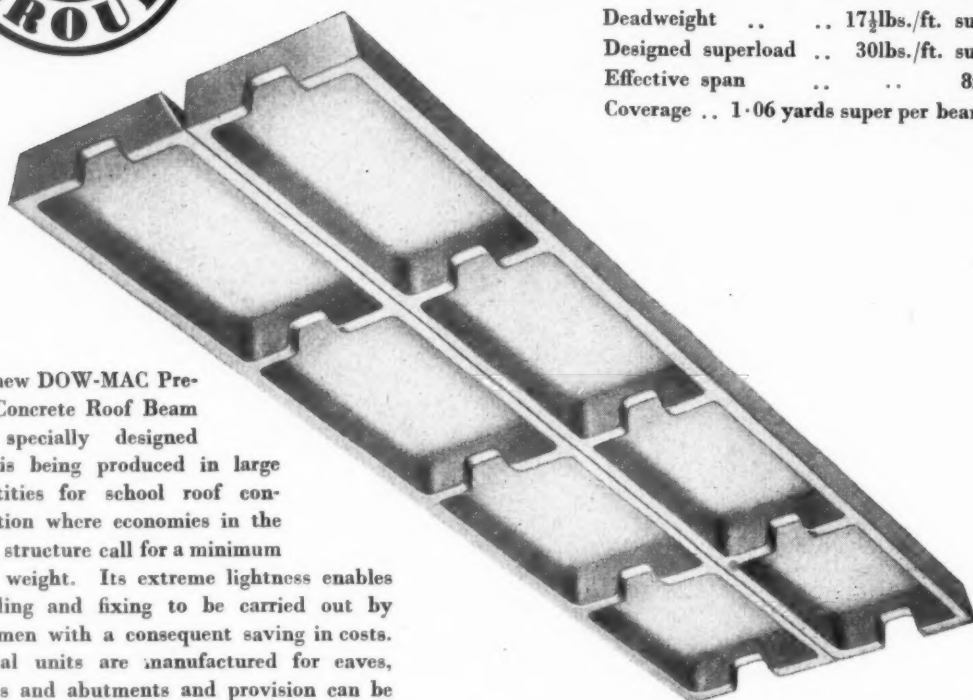


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Designed superload .. 30lbs./ft. sup.
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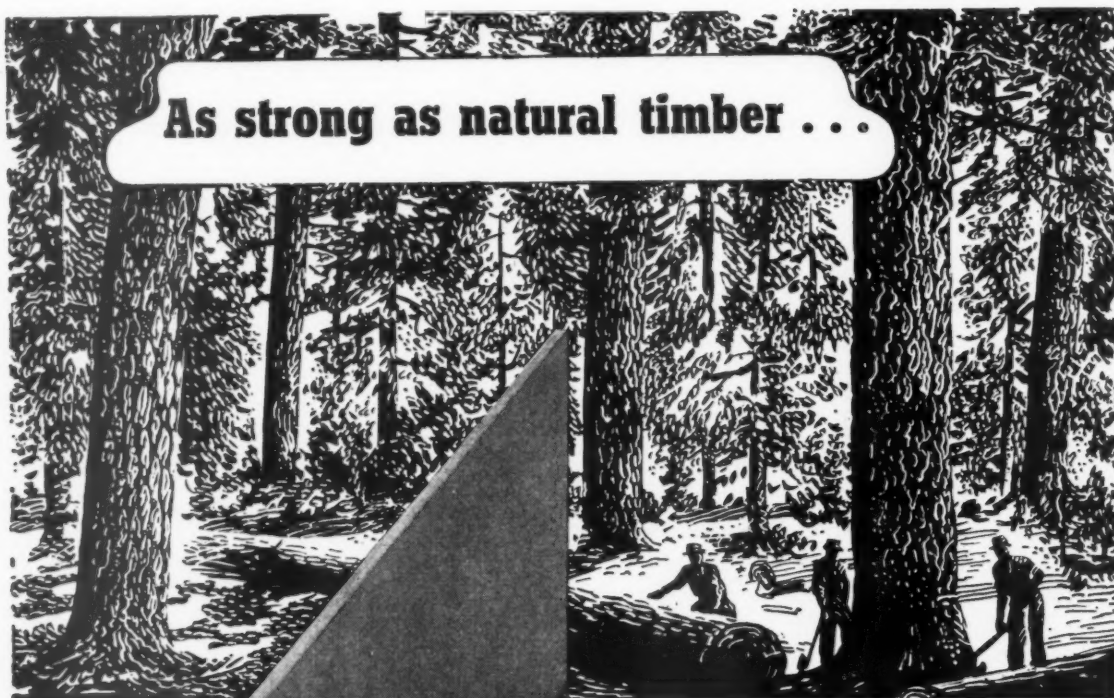
BRIGGS ROOFS, BRIGGS "AQUALITE" WALL DAMPCOURSING, BRIGGS "AQUALITE" SHEETING FOR FOUNDATION WATERPROOFING. Full technical information regarding these products can be obtained on request, or Area Managers at the undernoted centres will be glad to call and discuss further details.



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Houses at Merton Village,
Ford, Lancs.
Architect :
Felix Holt, A.R.I.B.A.

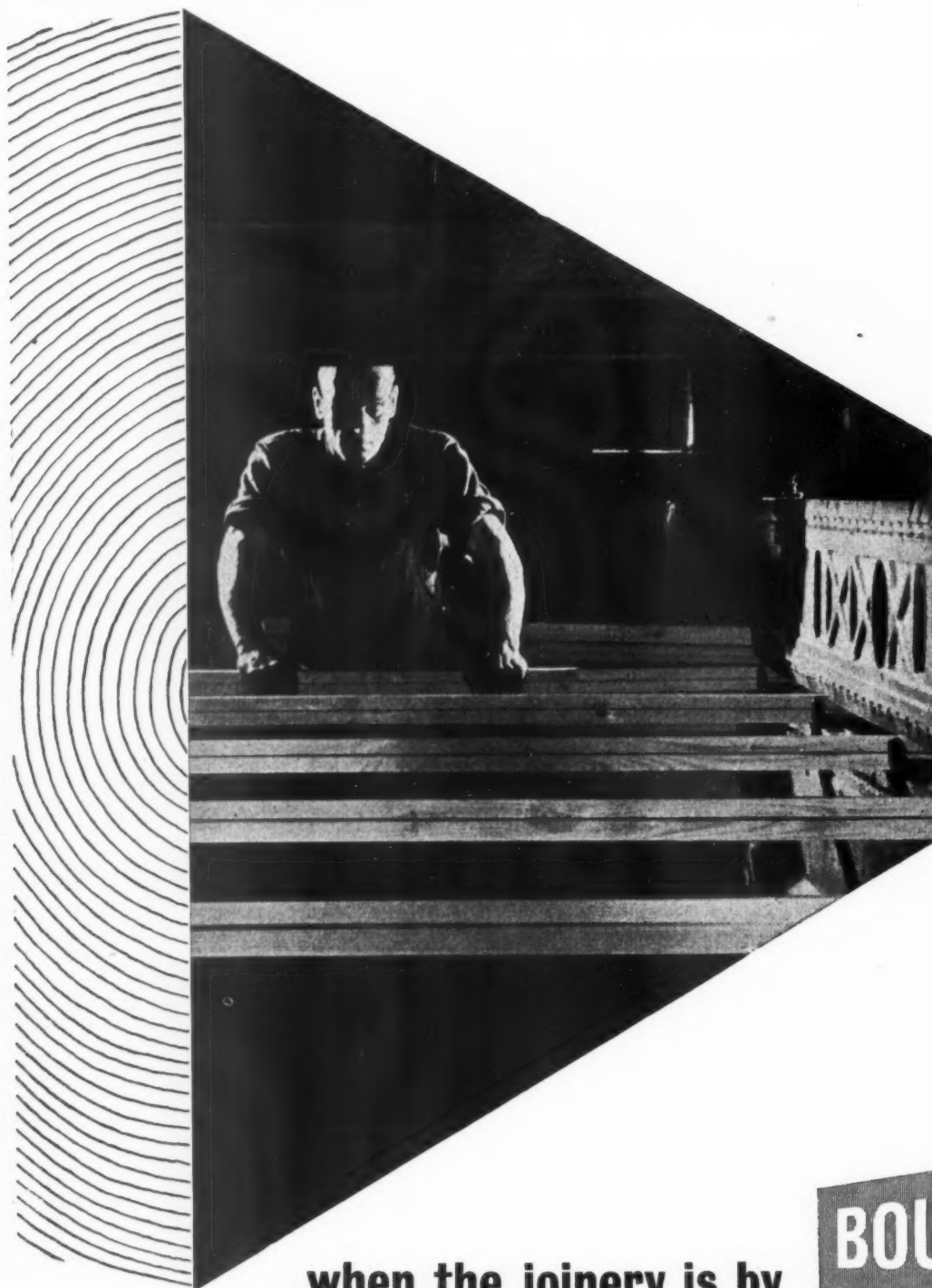
*'The light construction of
the present day....cannot
be expected to look as
substantial as traditional
building in brick or stone...'*

—THE HOUSING MANUAL, 1949

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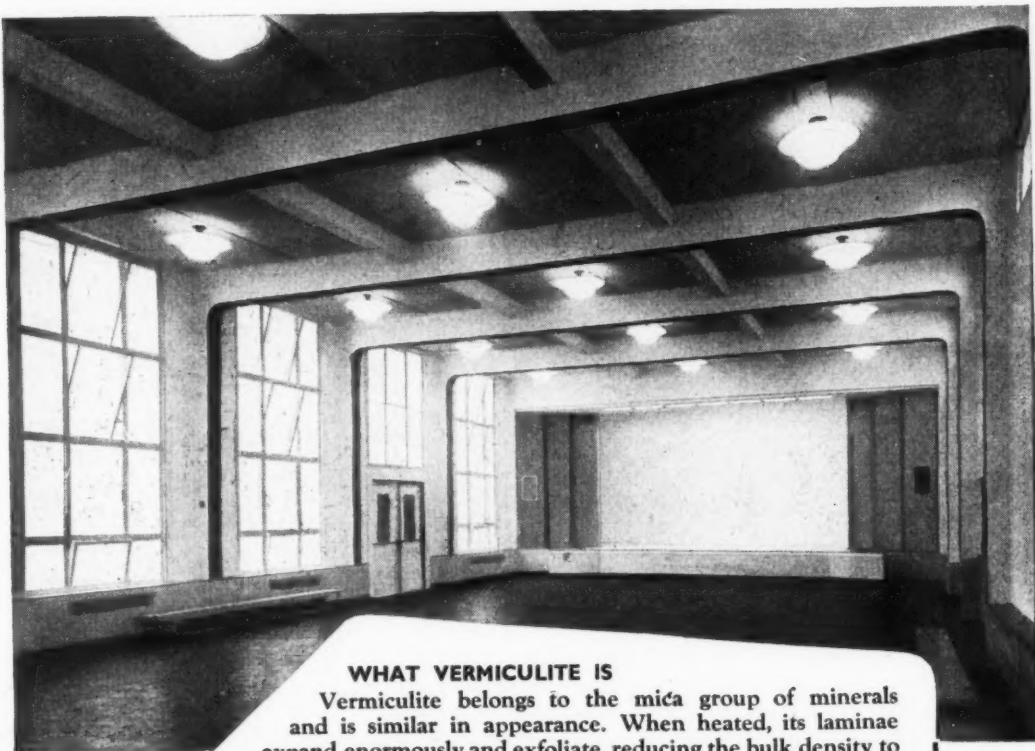
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VERMICULITE PLASTER AGGREGATE *for SCHOOLS*

LIGHT WEIGHT · PLEASING APPEARANCE · HIGH INSULATING VALUE

"Kisol" Plaster Aggregate is a fine-mesh exfoliated Vermiculite for mixing with Gypsum, Portland or Keen's cement to give a light-weight plaster of pleasant appearance. This has exceptionally high thermal and good acoustic insulating properties, withstands impact, is non-cracking, an admirable finish for school and public buildings. Vermiculite Plaster can be worked and trowelled normally; nails be driven into it without cracking, and it can be cut with a hand-saw.

"Kisol" Vermiculite is available also as an aggregate for concrete—particularly for the roofing of schools, factories and power stations, where its light weight and high insulating properties have already proved of great value.



"Kisol" Vermiculite Plaster for inside wall and roof treatment for London County Council School.

WHAT VERMICULITE IS

Vermiculite belongs to the mica group of minerals and is similar in appearance. When heated, its laminae expand enormously and exfoliate, reducing the bulk density to something like 8 lb. per cubic foot for plaster aggregate. High-quality Vermiculite from South Africa is being expanded, ground and graded at our plants at Dukinfield and London, from which contractors can be supplied with the correct mix for any purpose.

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DUKINFIELD **CHESHIRE**

For **Non-Slip** safety on stairs . . . **MADE BY FRICTION SPECIALISTS**

LASTING GOOD APPEARANCE

FERODO Stairtreads not only give the best possible protection against accidents; they are also extraordinarily durable and long-lasting, and provide a neat finish for stairs that have to be seen as well as used.

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Ferodo Stairtreads are mounted in aluminium nosings, which are made in single and double channel types, of various widths and profiles. The friction strips are either of Ferodo bonded fabric—similar to brake-lining, in dark brown—or of a smoother yet non-slip asbestos composition, in white, red, or grey. There is also a plain steel-backed "industrial" type.

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Ferodo Stairtreads are easily fitted to new or existing wood, stone, concrete, or iron stairs, and can be supplied accurately curved for stair-ends or winders.

The various models are described and illustrated in our Catalogue No. 732KK, gladly sent on request.



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Wherever stairs are in constant use by staff and public—in shops, offices, hotels, public buildings—safety is the first essential, with good appearance a close second. These stairs in Hamley's famous Regent Street toy and games store, often crowded with children, show how both needs are met by Ferodo Stairtreads.

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FERODO LIMITED, CHAPEL-EN-LE-FRITH

A Member of the Turner & Newall Organization

I need
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or iron
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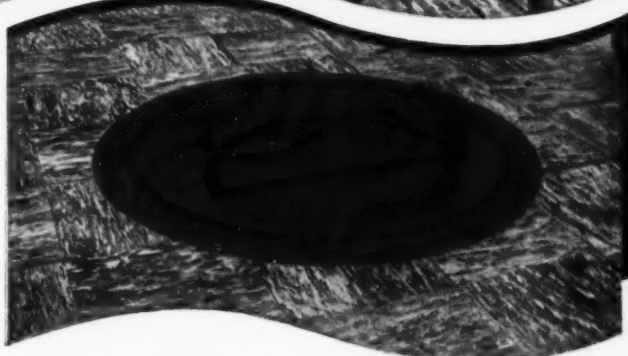


FUNCTIONAL *Beauty*

This office at the Doncaster Co-operative Society is a picture of functional beauty. In no small measure this is due to the attractive colour and subtle design of its Dunlop Rubber Flooring.

But the picture cannot show the quiet, the resilience and the long-lasting wear that Dunlop Rubber Flooring provides. Today more and more Dunlop Rubber Flooring is being installed.

In the hands of the craftsmen of the Dunlop Rubber Installation Service, the 46 plain and marbled shades can lend beauty as unique as it is durable. Monograms and special patterns (see inset) can be made to any design: Dunlop designers will be pleased to assist. Full details of the product and service may be obtained at any of the addresses below.



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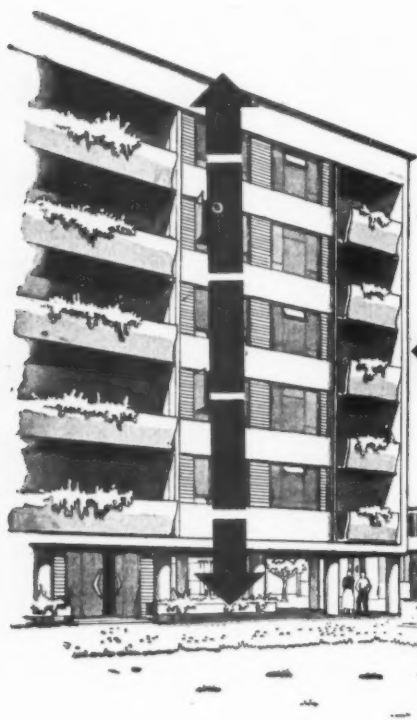
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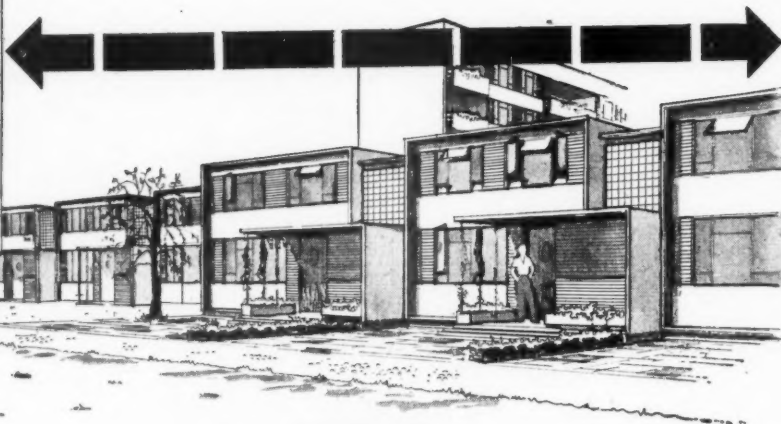


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THE SADIA COAL-ELECTRIC WATER HEATER

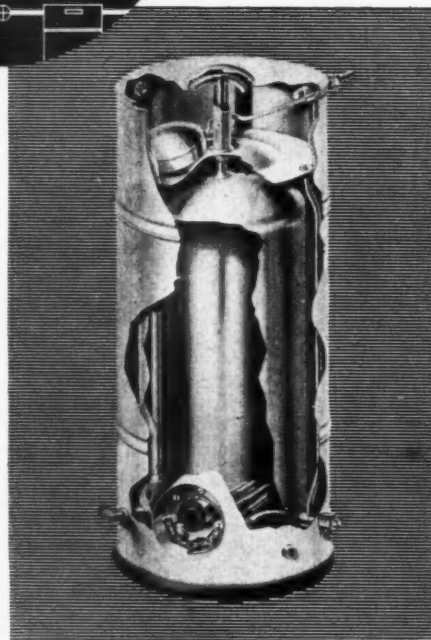
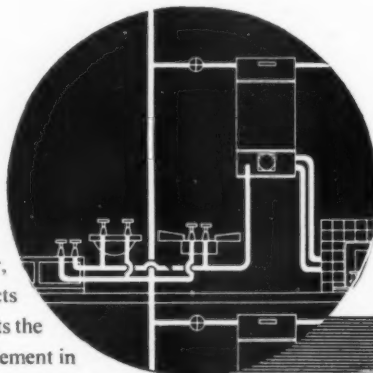
allows great flexibility in planning



The Sadia coal-electric water heater is suitable for both houses and flats, and can be used either with a back-boiler or an independent boiler. It is a water heater planned to make the best use of available fuels. During winter, when fires are lighted, the Sadia coal-electric water heater acts as a storage tank, the back-boiler or the solid-fuel boiler heats the water, and the thermostatically controlled electric heating element in the Sadia coal-electric water heater takes over only when the fire dies down. In summer, no fires need be lighted, electricity takes over completely, and the house keeps cool.

The Sadia coal-electric water heater is the only factory-built unit of its type; made by water heating specialists it is the result of the accumulated experience of many years in this particular field. Efficiently insulated, it increases the effectiveness of the solid fuel boiler to which it is connected. When installed in blocks of flats, the patented self-venting and self-filling calorifier makes for simplified plumbing. One common down-service pipe can supply all the Sadia water heaters.

Aidas Electric Ltd., the makers of the Sadia coal-electric water heater, are always very glad to give specialist advice on all aspects of water heating to architects when they are preparing plans.

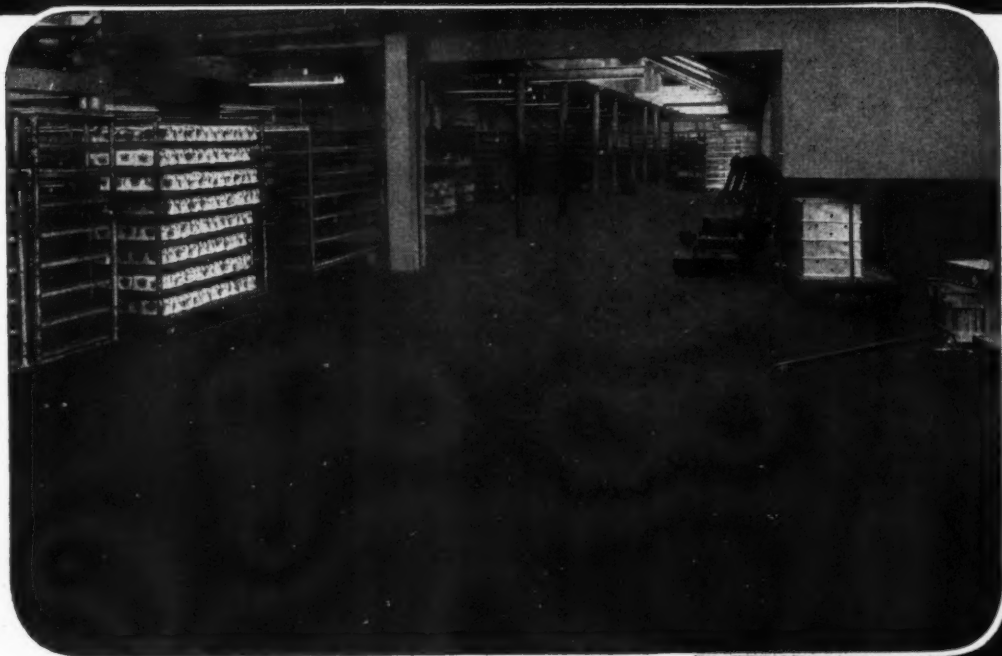


Aidas Electric Ltd., Sadia Works,
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HOT WATER BY
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MARTYN BITUMINOUS FLOORS

offer many advantages . . .

One of the main features of Martyn Bituminous flooring is its resiliency, a quality which enables it to stand up to the heaviest traffic conditions and to any amount of vibration. In fact, the flooring actually improves with wear, becoming more compact; marks and indentations which may appear when the floor is first laid, soon work out with use. Martyn Bituminous is damp-proof, dust-proof, ductile, warm and noiseless to the feet. It is laid cold; is completely odourless at all stages; is resistant to fire and unaffected by changes in temperature. The floor can be laid direct on to a clean concrete base without screeding. The colours available are black, dark red, middle red and dark brown.

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Strength of "Plimberite" as Flooring.**

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$\frac{3}{4}$ in. "Plimberite" board, made from wood chips and synthetic resin, has been tested under vertical static and impact loads when nailed over timber joists at 16 in. centres.

In the tests the board sustained no damage when

subjected to an applied load up to 100 lb./square foot and at this load the deflection of the board relative to the joists was slightly less than 1/20. in.

Damage under standard impacts used for checking house floors was slight and, provided that the board is supported and nailed at all edges, it can be regarded as satisfactory for houses and probably also for offices."



Fig. 1. - Rig and Gear for applying impact tests.



Fig. 2. - Rig for static loading tests. (Floor section is inverted, with captive airbag beneath for loading.)

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Partitions
Wall cladding
Roof Lining
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Shelves

Door panels
Skirting boards
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"PLIMBERITE" can be worked using normal woodworking tools and techniques and is available in sizes 8 ft. by 4 ft.

A copy of the full report on the special investigation by the Building Research Station may be obtained by Qualified Architects, Builders, etc., on request to



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Above : Dining Room Furniture in Figured Teak.

Left : Dining Room Table in Mahogany with Centre Panel in Sycamore.



Bath

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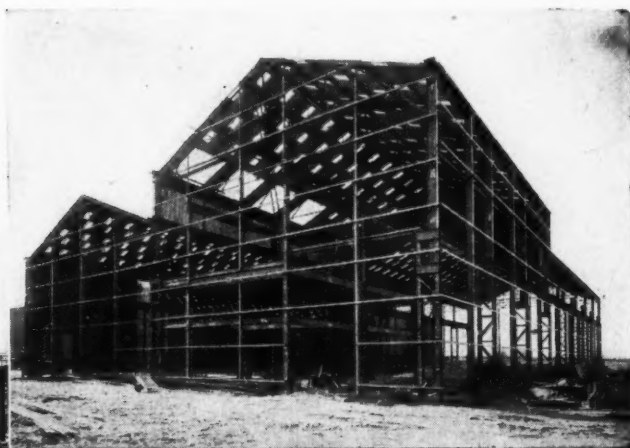
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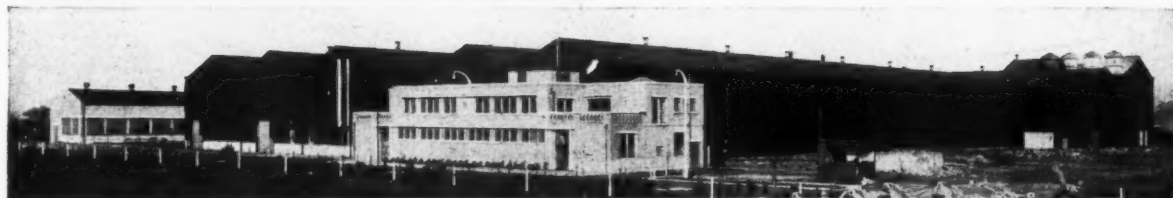
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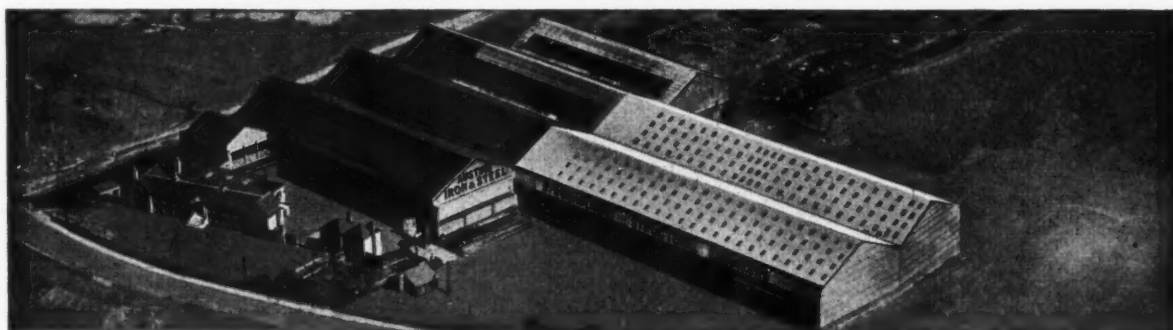
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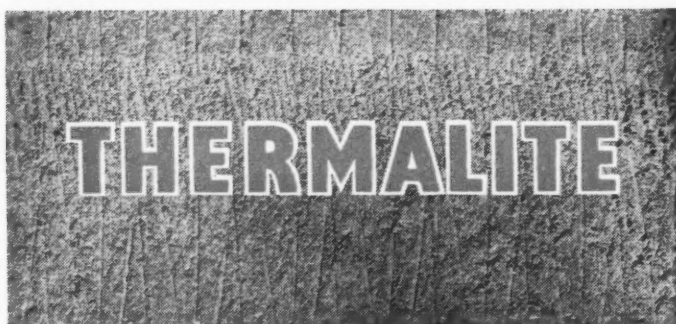
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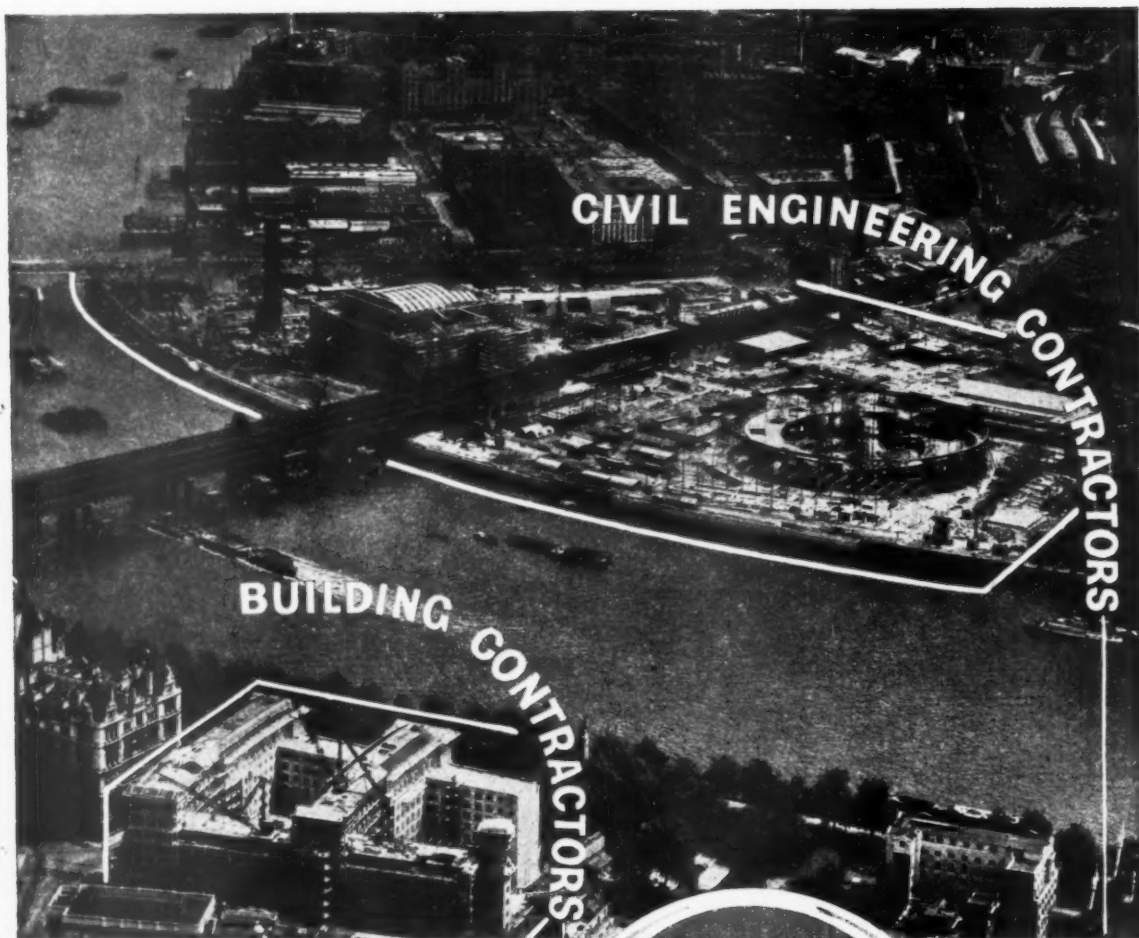
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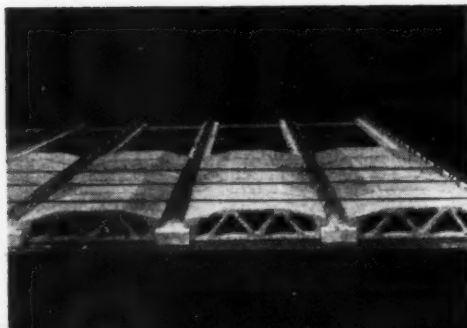
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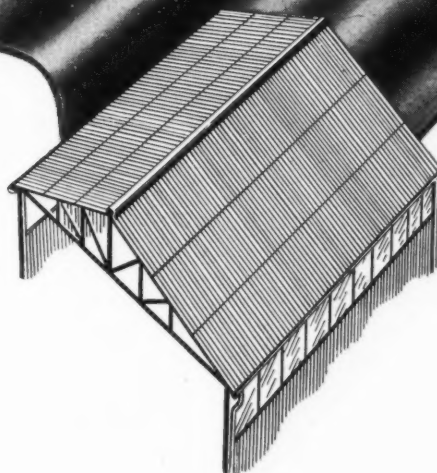
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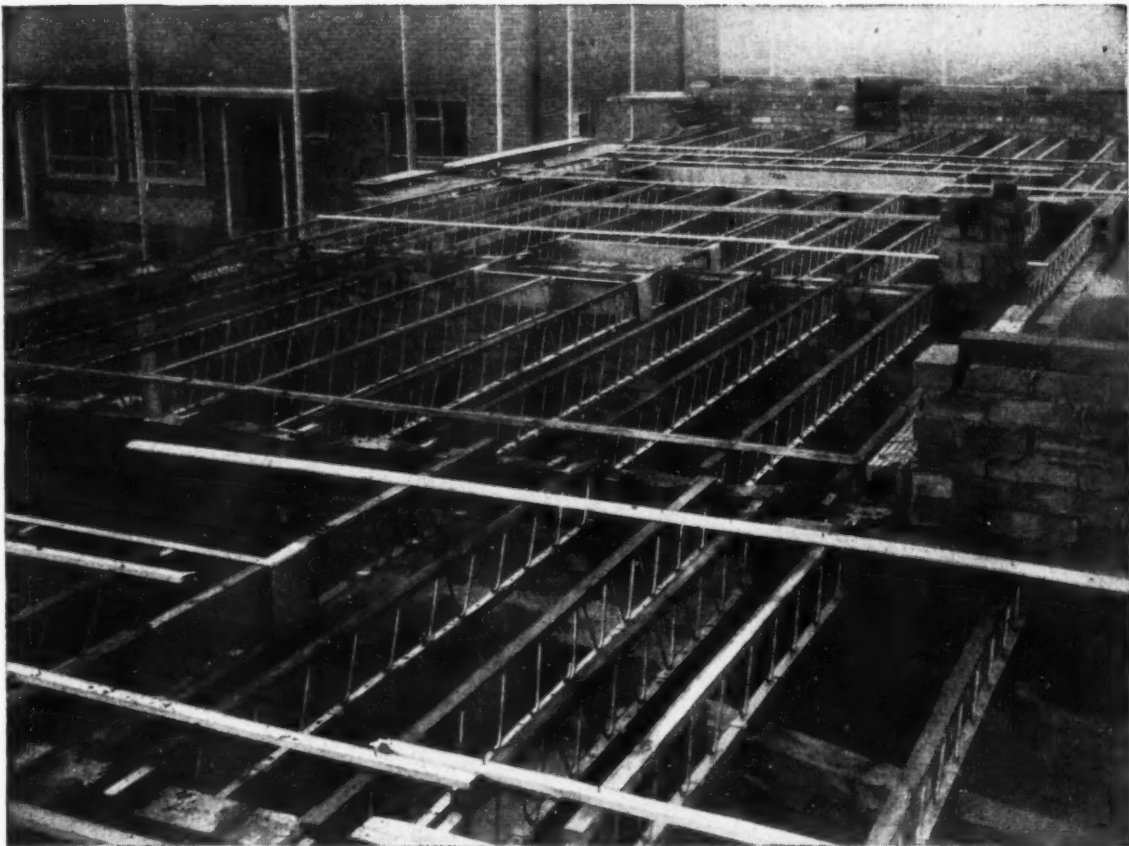
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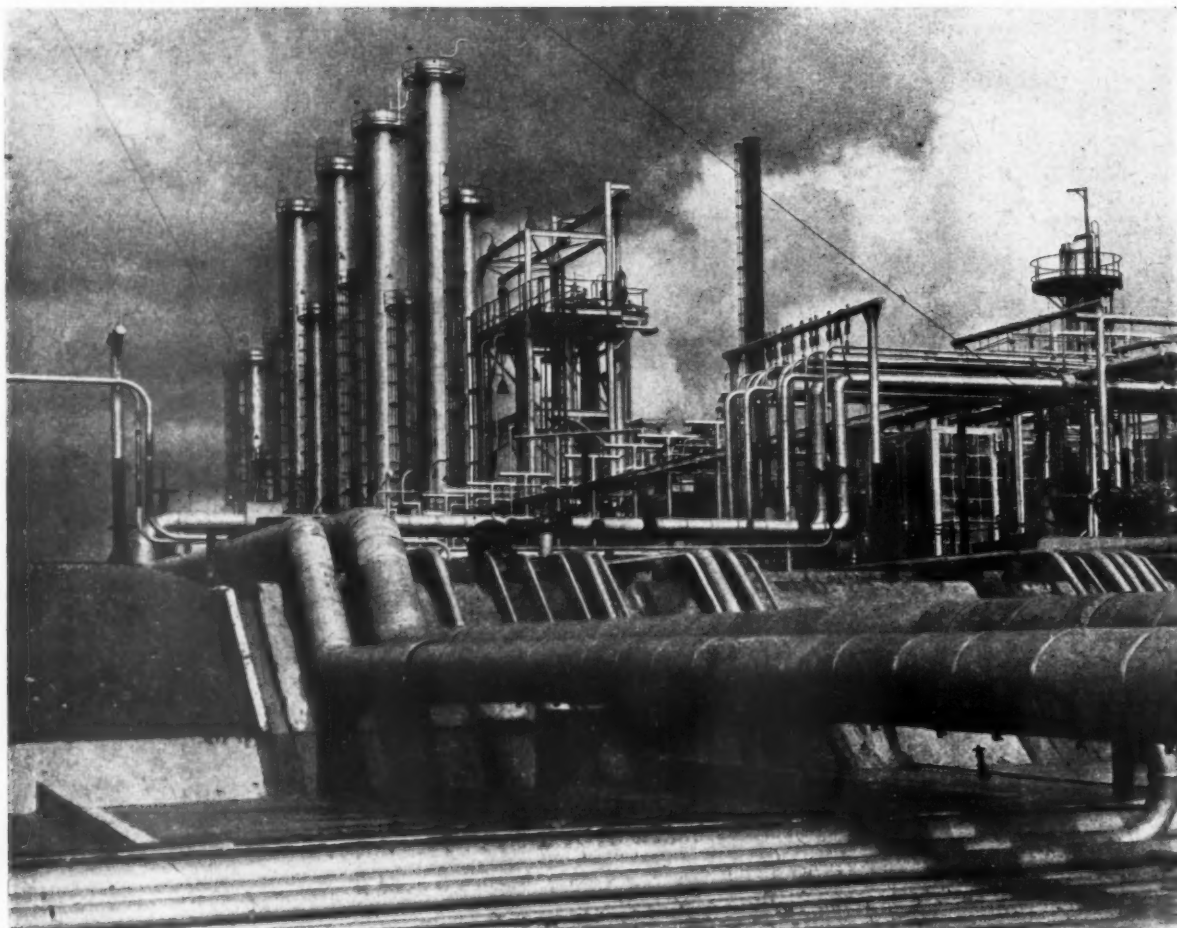
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To produce a surface which, when wire brushed, will be ready for plastering.

WHAT TO USE IT ON

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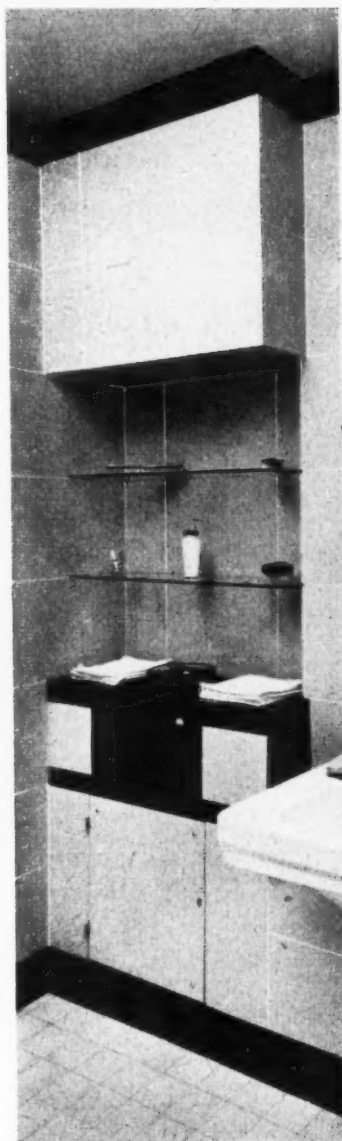
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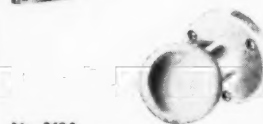


Oval Knob, D.T. spindle
or "Floating spindle"



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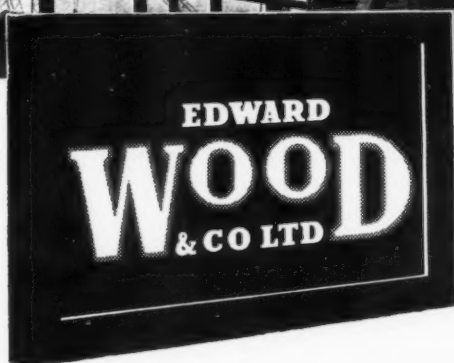
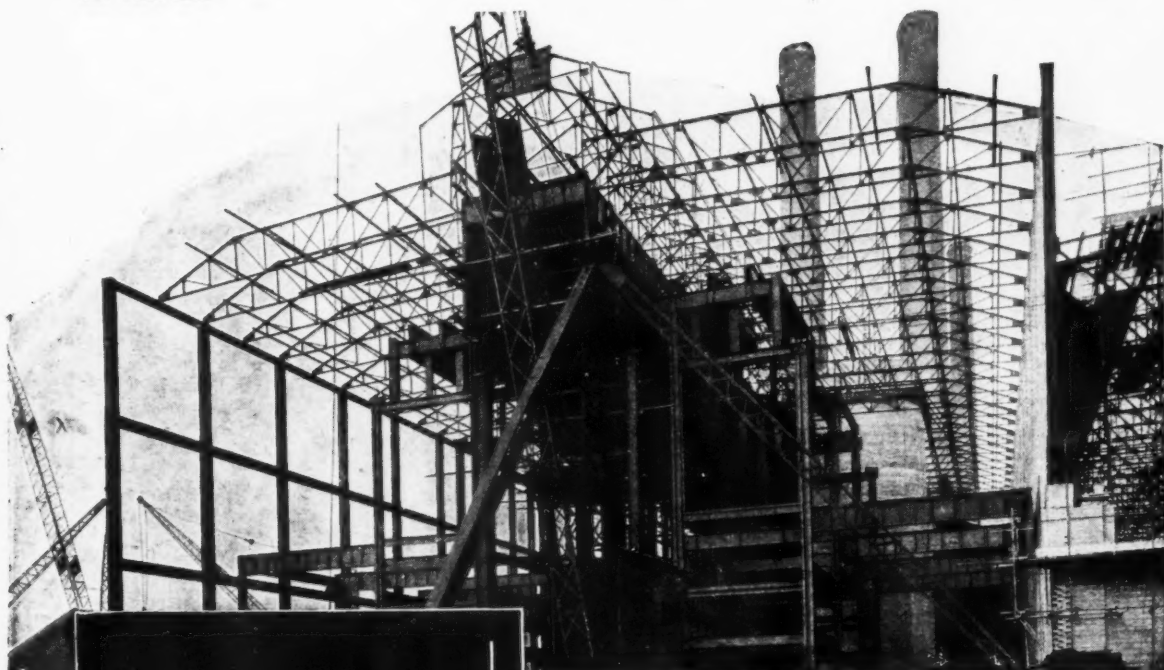
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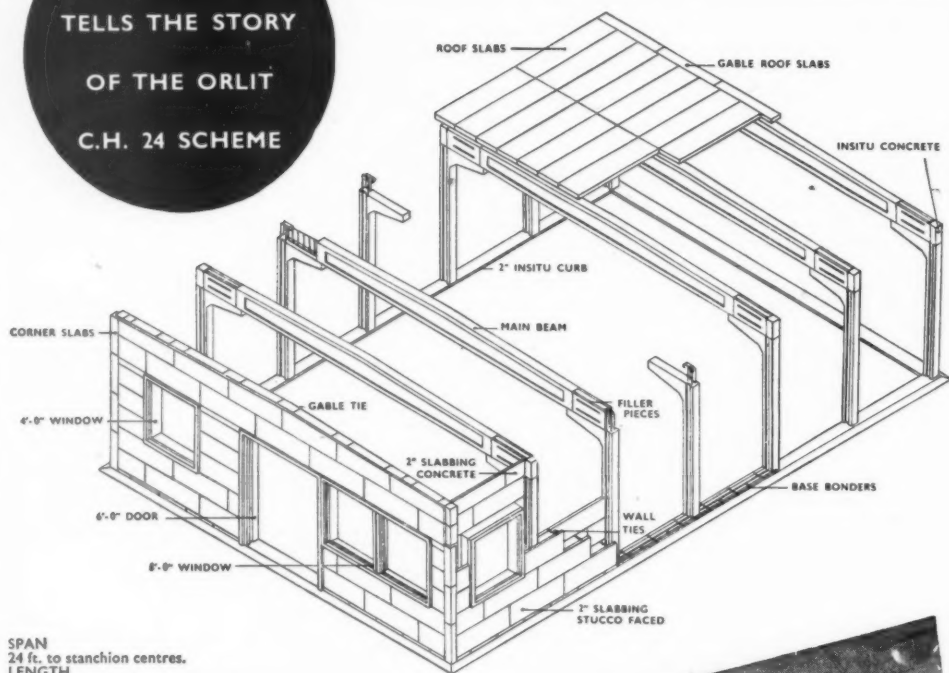
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WINDOWS
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May be left open for shop fittings, garages, etc. External wall facing in rough stone finish.

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Architect :
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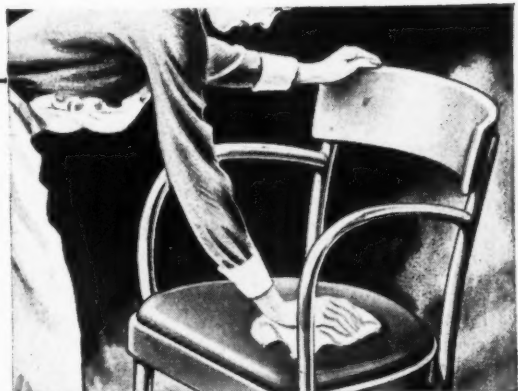
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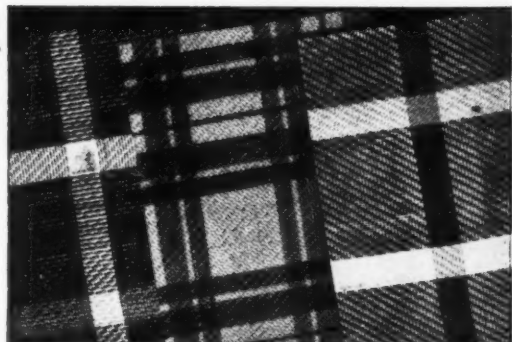
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Accotile Top Set Coved Skirting gives an hygienic finish to the floor and saves timber and painting maintenance.

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ACCOTILE is quiet and comfortable to walk on, warm and non-slip. For schools, hospitals, and public buildings, Accotile flooring is economical both in first cost and in maintenance—cleaning is facilitated by Accotile Top Set Coved Skirting.

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Armstrong's Accotile is laid throughout the ground floors of the Chippingfield site, an estate of about 100 houses in Harlow New Town, Essex. The architect is Mr. Frederick Gibberd, F.R.I.B.A., Architect Planner, 35 Gordon Square, London W.1, and the contractors Gee, Walker & Slater Ltd., 100 Park Lane, London W.1.

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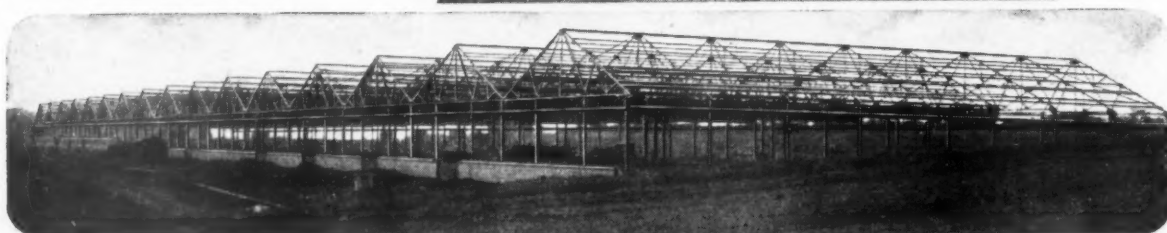
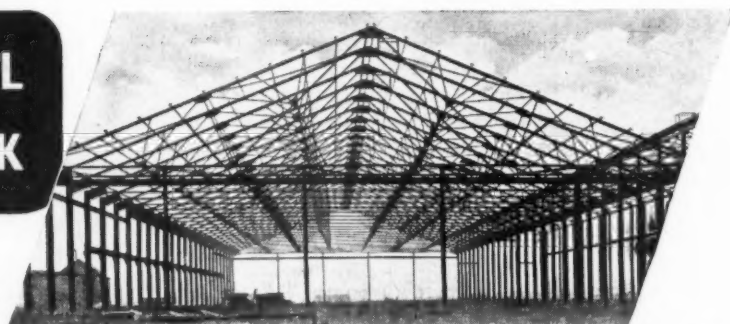
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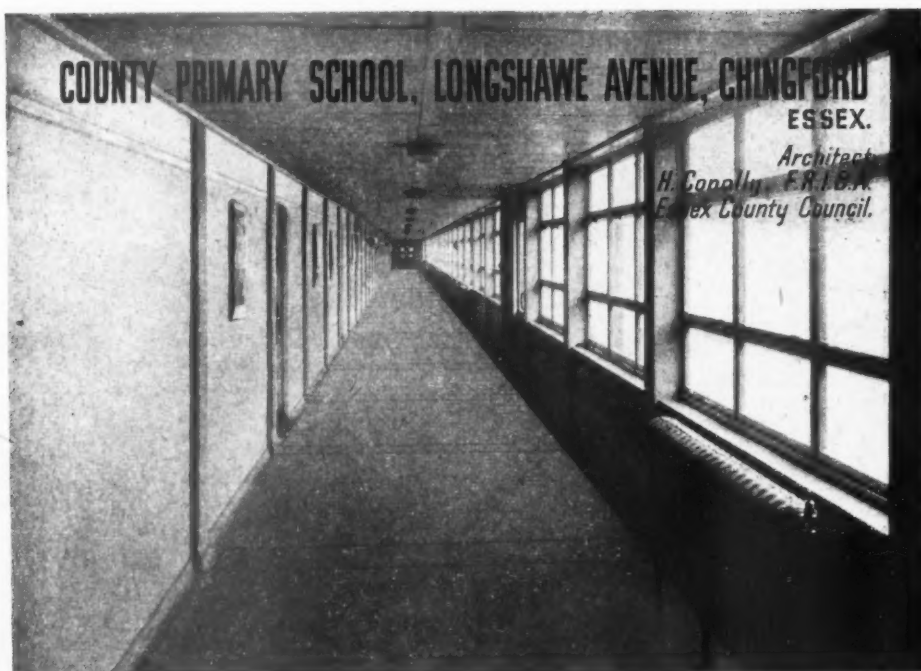
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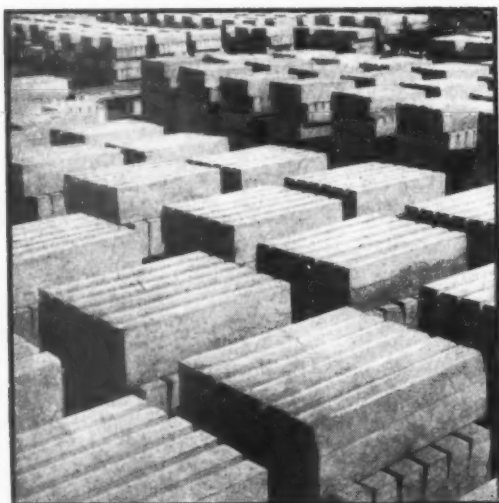
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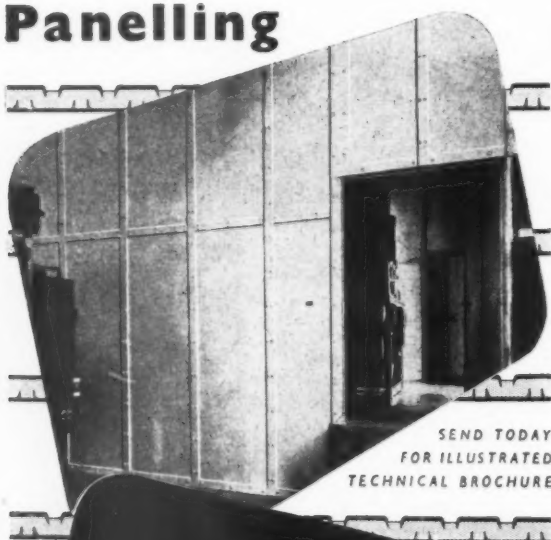
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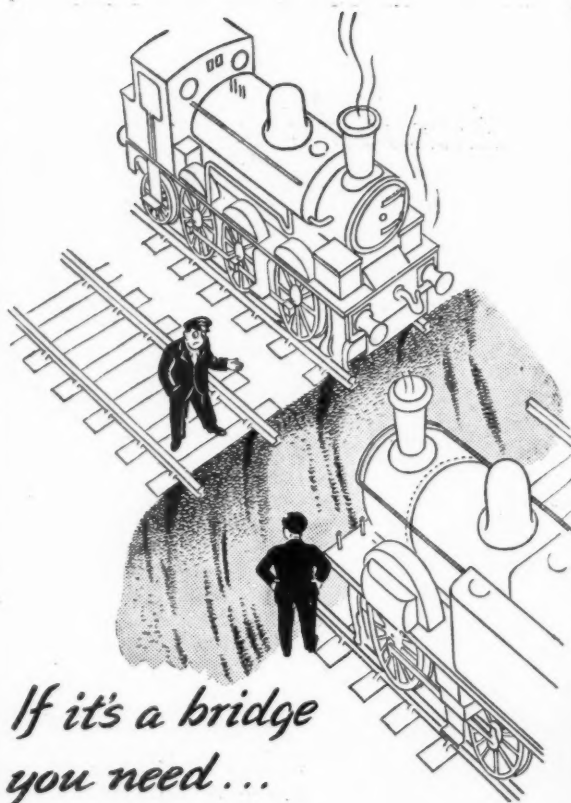
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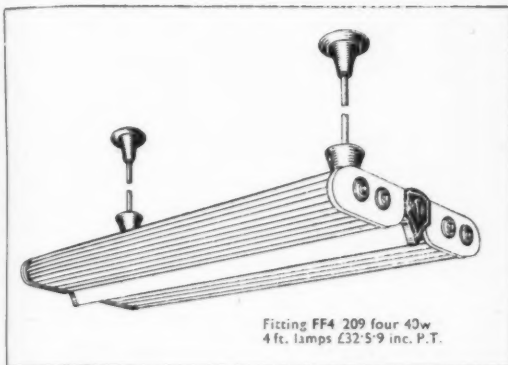
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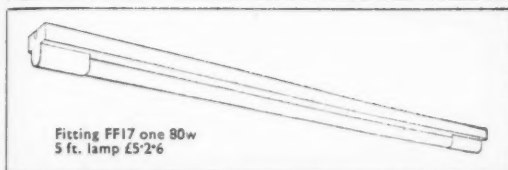
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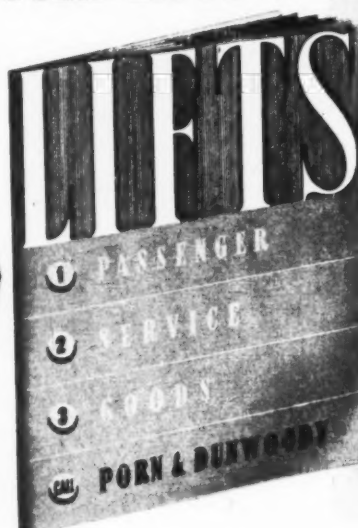
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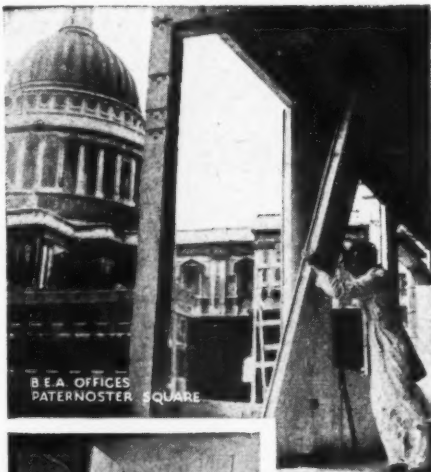
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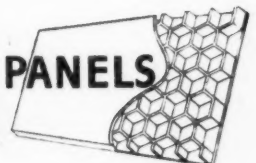
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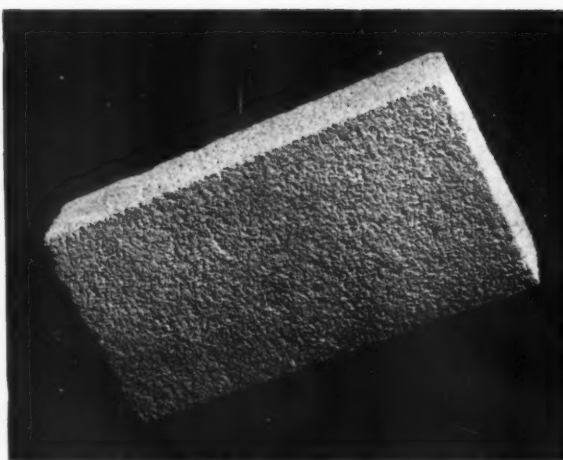
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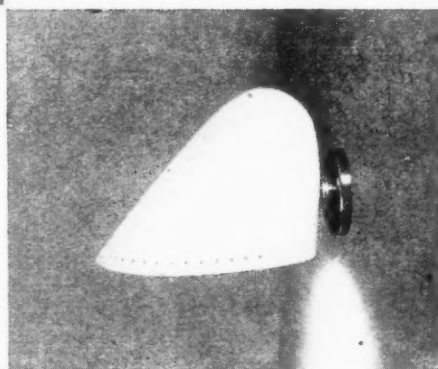
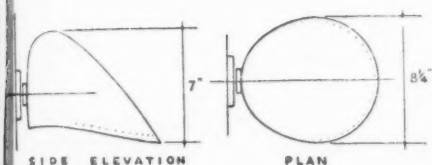
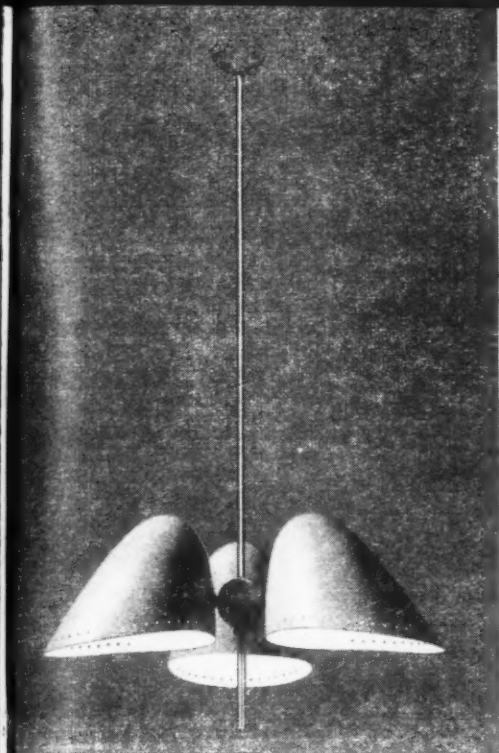
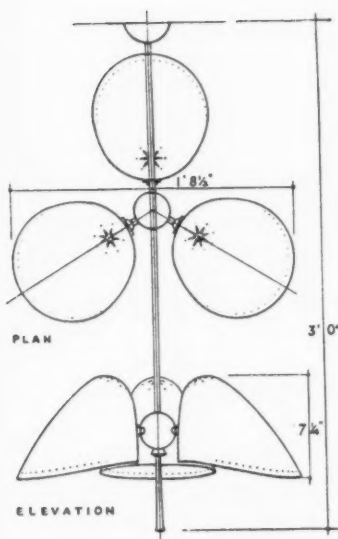
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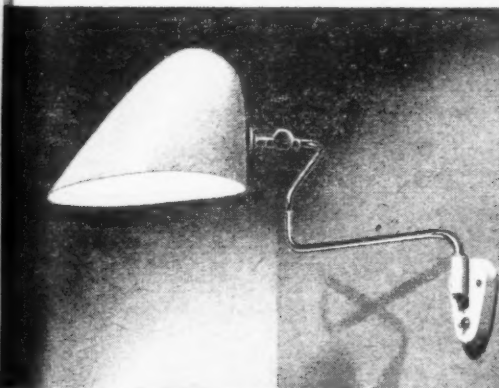
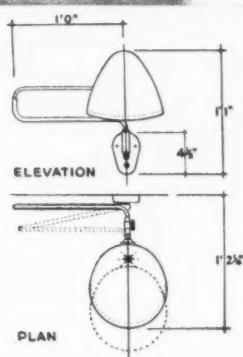
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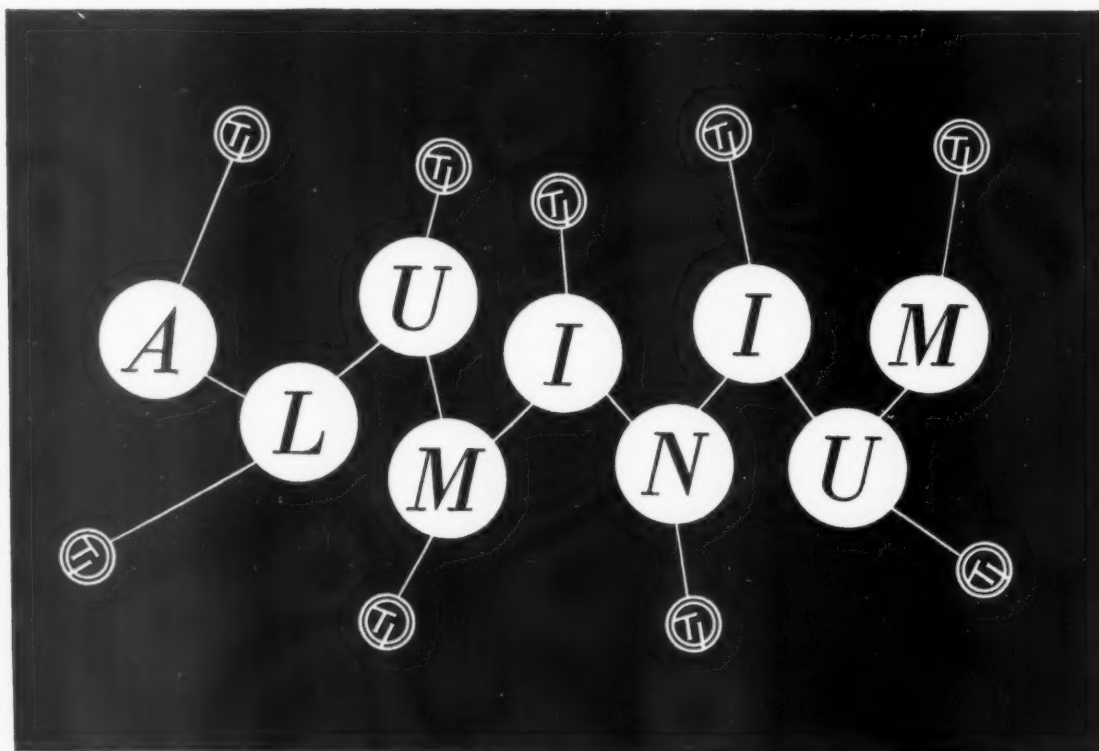
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RAILWAY RELICS

Let me offer a hearty welcome, with no reservations whatever, to the report, published last Friday, of the Committee set up by the British Transport Commission to study *The Preservation of Relics and Records*.^{*} The importance of this admirably written document will be clear when I say that the term "relics" includes (without any disparagement being intended) buildings and engineering structures of all kinds.

Following nationalization, a remarkable quantity of fine architecture—bridges and viaducts; canal cottages and aqueducts; railway stations, train-sheds and warehouses—became the property of the Transport Commission. This coincided with the beginning of widespread appreciation of the work of

the early nineteenth-century engineers as pioneers of modern architecture and as inspired designers in their own right. It is more by chance than anything else that so much of their work survives pretty well intact, and, with railway improvement schemes pending, more definite measures are required to safeguard them.

The report (the findings of which have already been accepted in principle by the Transport Commission) recommends the compilation of a list of all structures on the railways and canals of historic or architectural interest so that no alterations are made to them without proper supervision and they are not pulled down without good reason. It also recommends that special care should be taken of the original drawings, many of which are still used for reference and therefore subject to wear and tear, and that facilities should be given for the study and documentation of early transport architecture and records kept in a central place.

Two central places are proposed, both also of great architectural interest: the great Shareholders' Room at Euston (one of the finest parts of the original Hardwick building) to become a railway museum, chiefly for the smaller relics (the museum already existing at York would then serve the northern region only), and the old Nine Elms station to become a museum also, where large exhibits like rolling-stock could be shown. Nine Elms is a most imaginative choice. Its façade (Sir William Tite, 1838) is sufficiently imposing for the purpose, and behind it is one of the best surviving examples of a train-shed of the early period with most of its ornamental ironwork intact. I am particularly happy to record that one member of the committee that pro-

duced this excellent report (and, I suspect, the moving spirit behind the whole thing) is my old colleague Christian Barman, at one time editor of the JOURNAL.

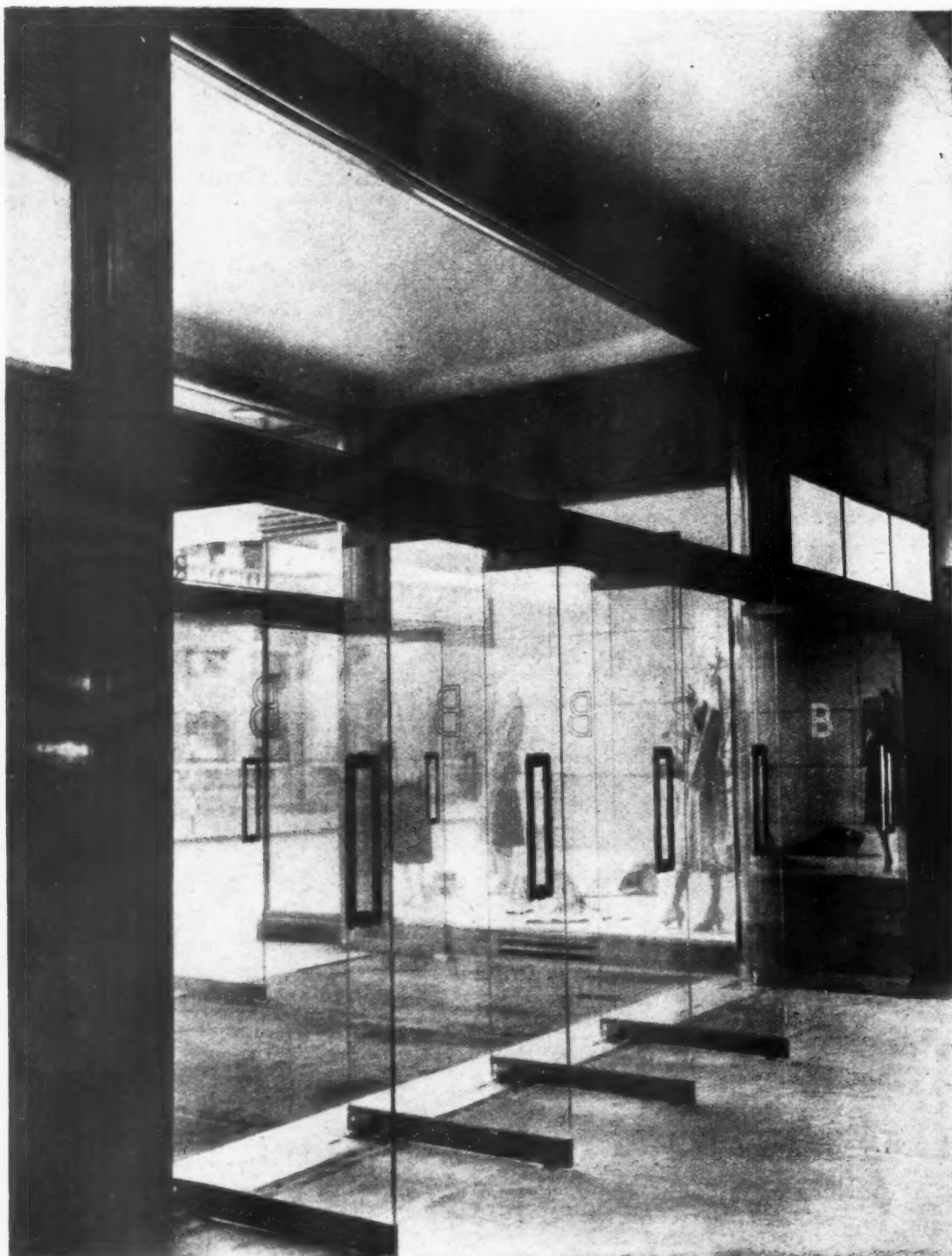
BOUQUETS AND RAILINGS

I think we often take organizations like the SPAB and the Georgian Group too much for granted. We know they are constantly busy in their good work but their triumphs invariably pass unnoticed. I was reminded of this when I read the Press handout issued last week by the organizers of the Bath Assembly. Among the features they promise for this year's assembly is the restoration of the Palladian Bridge and the redecoration (now complete) of the Pump Room. In each case the Georgian Group must receive credit. In fact, I understand that the Group stepped in just in time in the case of the Pump Room and saved it from being "done up" in brown and two shades of green. The present decorations are white, with mouldings picked out in gold, and heavy red damask curtains.

Among other things of interest in the assembly programme is an architectural exhibition, which will provide a key plan to the city. An excellent idea. But I hope the city council will ensure that the visitor is not disappointed when he leaves the exhibition in the Octagon and studies the city itself. There are three improvements that should be made before the assembly opens in May. (This incidentally will be the first '51 Festival of Arts to be held in the provinces.) In the first place, when the present lighting restrictions are lifted (as they surely will be for the Festival) the city's street lighting should be brought into full use. This beautiful city deserves to be on show by night as well as by day. (Do you remember its excellent pre-war light-

* British Transport Commission, price 1s. 6d.

CREATION WITH CRAFTSMANSHIP



Messrs. Bobby & Co. Ltd., Eastbourne. Architects: George Baines & Son, F.R.I.B.A.

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AMHURST PARK WORKS, TOTTENHAM, LONDON, N.15 STAMFORD HILL 4266 (TEN LINES)

ing?) Secondly, there is the matter of those allotments in front of the Royal Crescent. What sort of mentality is it that puts the growing of cabbages before the restoration of a fine vista? And thirdly, Bath's squares and circuses are marred at the moment by chain-link fencing. This should be replaced by railings.

*

But let me stop these railings and point out that the assembly programme looks very pleasant. A special barge is being designed to carry Boyd Neel and his boys—I'm sorry, orchestra, along the Avon as they play Handel's "Water Music"; there is to be a Gainsborough exhibition, and Beecham, Barbirolli and Vaughan Williams will be among visiting conductors. What a pity the city hasn't got a good concert hall and that there is still a deadlock over the question of restoring the Assembly Rooms. But there I go again

TOMORROW AND

The other afternoon, when you were crouched over your desks or measuring the mud on your building sites, ASTRAGAL lolled at ease in a cinema watching the newly-released French film: "*La Vie Commence Demain*." This film is remarkable for two reasons: firstly, it is the only film I can recall which features a real live architect, secondly, it extraordinarily resembles an attempt to film one of the weightier architectural students' magazines in the cinematograph technique of the 1920's.

*

Not that it is a bad film; it is a most interesting and rejuvenating experience to undergo. The words of an eminent Sunday critic will show you what I mean: "this brilliant, savage piece of work really is about where we stand: at the opening of a glittering and . . . icy new age in which science is master. . . . By making the right choice we can . . . enter a splendid new life." (No, you haven't seen it before.) Paul Rotha, Aldous Huxley, Charlie Chaplin and all the other advocates of brave new worlds flash through one's mind as the screen shows what man might achieve with his modern inventions. Alas, no attempt is made to show how the right attitude of mind to make full use of these inventions can first be instilled in our wayward hearts.

Having given you the pill, here's a sweet to take the taste away: some stills from the film. The story is of a young man who is persuaded to meet the eminent men of today in France. His guide is a journalist, shown, below left, seated by his printing machine, which he apparently mends when it breaks down. (Many a time I work the old hand press to help print this page, just as you gladly go along, when



called by your clerk of works, to mix a few hundredweight of concrete.)

*

The next photograph shows our young hero talking to the biologist Jean Rostand. He politely takes him a toad and receives in return an illustrated lecture on the reproduction of life. "And will a man be able to have a baby?" asks our innocent hero at the end. "Well," replied Rostand, seriously, puffing through his moustache, "there are practical difficulties, but I don't see why not."

*

A visit to Sartre ("blame yourself, don't just blame others") and the hero goes, via some slums, to look at a new building. The photograph on the extreme right, above, shows him climbing up it. Can you guess what it is? Well, the next photograph, below,



shows him with the architect, whom he has found on the roof, and who shows him one of the completed flats.



The lighting doesn't appear to be very good, but you should be able to recognize Le Corbusier, on the left. The hero, anxious, apparently, to hang a picture on one of the walls, next interviews a man (shown on the right in the next two photographs) whose work you will not find at Burlington House. He gives our young man a plate which the latter, as polite as ever, presents to André Gide ("the great writer adores

the cinema and goes there several times a day": quote from the press hand-out) before finally flying away in a

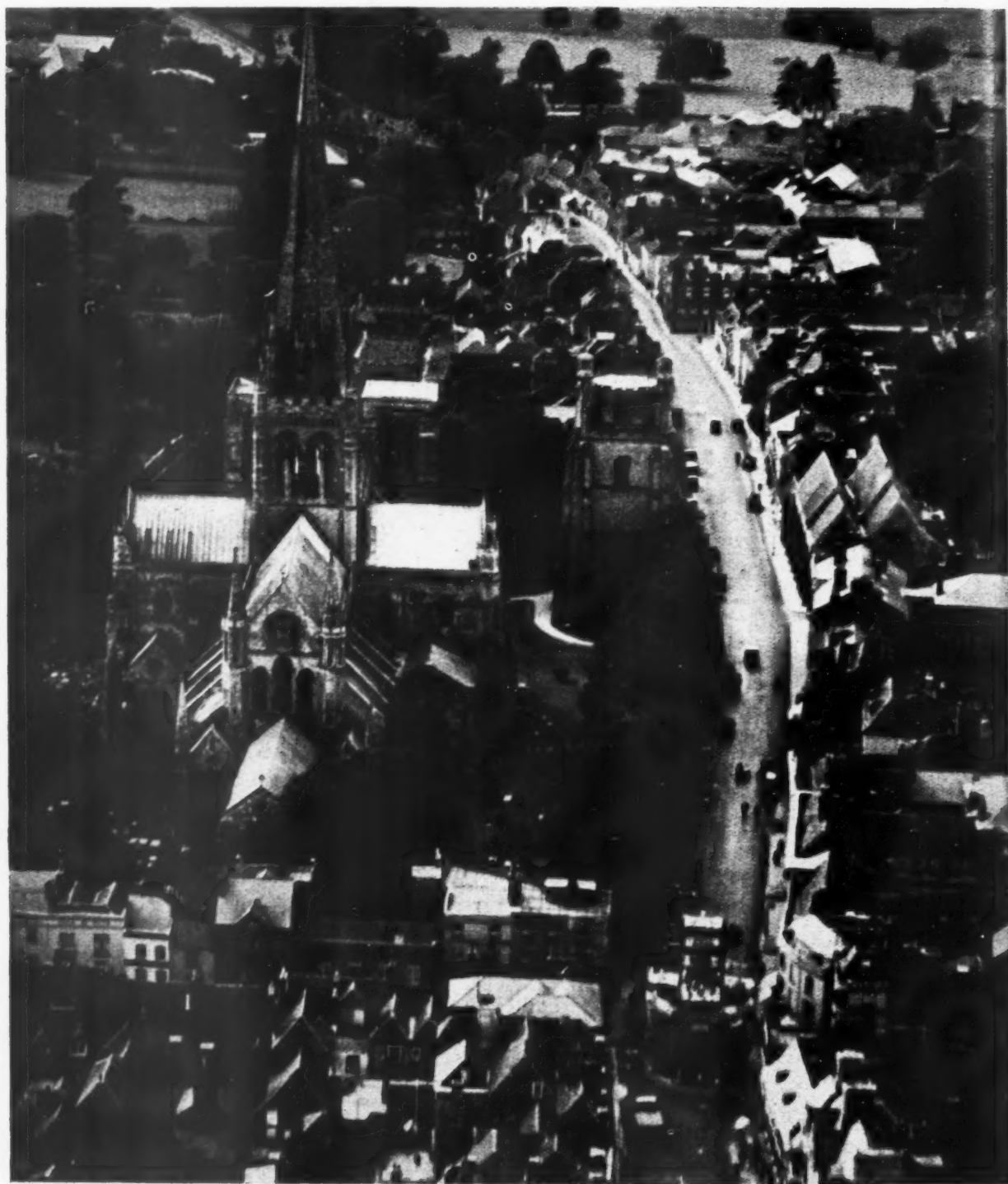


helicopter from the Palace of Versailles. With awe one sees the ungainly machine, like a demented dragonfly, slowly beat its way up into the sky and

dwindle to a speck in the distance.

*

Earnest elderly lady in the foyer,



Chichester's Controversy

For the last few months Chichester Cathedral has been the subject of fierce local controversy. The trouble began when the city surveyor proposed that the lime trees on the west side of the cathedral (to the right of the picture) should be destroyed. The Dean agreed that they should be removed in order that the cathedral should dominate an open area to be laid out as public gardens. It seems curious that the proposal was ever taken seriously. A formal garden would be a pathetically inadequate substitute for a piece of landscape embellishment that has taken several hundred years to develop. The time will come (it

is hoped) when the cathedral will have outlived the trees. The Dean and other supporters of the drastic proposal should, therefore, be satisfied that their scheme will ultimately be put into practice. Use should be made of this effective natural amenity while it exists. It is encouraging to find that the local public shares this view. The Dean has said that it is a matter for himself, the Chapter and the City Council to decide. But with a strong display of public opinion against the scheme it hardly seems likely that their verdict, to be announced next month, will be in favour of it.

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afterwards, "If I don't feel something then I must be dead, is that what you mean?" Exactly.

SECOND THOUGHTS COULD WELL BE WORST

The Ministry of Supply seems to have made a fine mess over the restriction of zinc and copper for "less essential civilian purposes." The list of prohibited uses started with a long schedule (barrel bolts to step treads) under the heading of "Architectural and Decorative Metal Work." Preliminary enquiries produced the statement that nothing under this heading can be galvanized but this ruling has now been hurriedly changed. They *can* be galvanized though they cannot be made of the metals concerned. So you *can* have copper, or copper alloy, or zinc wall



This illustration is from a nineteenth century woodcut and shows part of the attractive facade of Harrison and Sons, the Journal's printers, virtually as it stands today in St. Martin's Lane. It is taken from a book issued to commemorate the bi-centenary of the firm.

ties, but you *can't* have them galvanized as *that* is specifically forbidden in a different section of the list.

*

Also, the whole of the prohibitions are now postponed from Feb. 1 to March 1, though manufacturers are expected in the meantime to conform to the published list of prohibitions. Asked specifically whether the list is likely to be revised, the Ministry of Supply Press Office say naively: "Well, we had to do it all in rather a hurry and it's up to the various industries and associations to make representations to us if they think we are wrong." If I were to run my private life on these lines I'd have the bailiffs in pretty quickly, but if I was only a Minister, I suppose I could go on drawing my salary. No wonder people are starting to reach for their revolvers when they hear the word planning.

ASTRAGAL

No. 17: Legal Editor

A WELCOME CHANGE

THE changes in the Government, and in the construction of the machine of government, recently announced, are a change in organization and, it is to be hoped, a change in emphasis. A start has been made in breaking up the MOH into a more functional arrangement. Equally, a start has been made towards building up the old MOTCP into something approaching a status and authority equal to the tasks that such a department should discharge. The new MOTCP will be known as the Ministry of Local Government and Planning. It will be responsible for housing and New Towns and for the environmental services for housing, as for instance, sewage and water supply. In addition, it will be responsible for the local government organization generally and for the administration of the official grants which the central government makes to local authorities. It will also retain its present responsibilities for planning. However, it will not have the direct responsibility for building licences and allocation, which remains with the MOW, nor for the location of industry and the development areas, which remains with the BOT. It does not, therefore, become the central ministry responsible for physical planning in all its aspects. But at least it can be expected that now housing is in the home of planning, such acts as housing development in the Green Belt and the perpetuation of high densities in central areas—and other travesties of town planning—will no longer occur.

The changes will certainly be welcome. In organization they involve no more than a shift of some divisions of the present MOH to another Ministry, but the effect of this should be to increase the authority of the newly constituted department, for it is now the Minister of Local Government and Planning who will be the cabinet minister, not the Minister of Health. The reorganization of the Ministries themselves must be a considerable task and will take time, so, if the reorganization is regarded as a step on a road, not as the completion of a reform, there is no serious criticism to be made

The Editors

PUBLIC RELATIONS: 2

We have dealt (Jan. 11) with the importance, scope and personal requirements of the new Assistant Secretary which the RIBA is about to appoint to undertake, in a broad sense, the public relations work of the Institute. What should his work involve and why must it be considered important?

The first task (there are others which we cannot go into here) is inferred in the title which the Institute has now discarded—*Public Relations Officer*. Even today the public has little appreciation or understanding of the architect's value in society, either as a useful practical man or as a creative artist. To tell the layman about this through all the powerful media

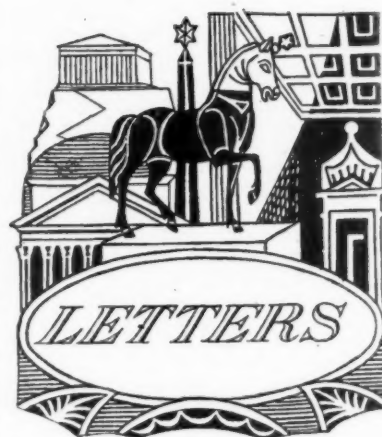
available today—radio, television, film, printed word and exhibition—should therefore be his primary job. To do so he must be a skilled propagandist—a word that strikes horror into too many refined and foolish minds; foolish because, after all, what more is a propagandist than one who propagates an idea, something human beings must do by their very nature of being co-operating, communicating animals.

As propagandist, he will first have to capture the interest of the public. This means that he will have to relate the architect's work and ideals to the workaday world, especially to things that most directly and personally concern the ordinary, unimaginative, practical man—the unspecialized, half-educated man who is today virtually the patron of architecture and may be found sitting on any local council or government committee. One should begin with *My Home* and *My Garden*. From there the trail could lead without a break to bigger and, to the average mind, much vaguer things—housing, town planning, community buildings, beauty and the enjoyment of creative living in a new environment. The story must always be simple, even at the risk of distortion and, most important, a common vocabulary and phraseology (dare one mention slogans?) to communicate ideas about visual things must be developed. The new Assistant Secretary should, in short, be an educator of the public on behalf of the whole profession.

Our present squalid environment which we wish to improve has been brought about by many factors. One of these is the lack of visual education in schools. To put this right will be a slow process because most teachers are themselves uneducated in this respect. We have lost the old tradition of good design which was based on handicrafts and educated, aristocratic patronage, and we have still to build a new one. Therefore a wide field for propaganda lies before the RIBA in educating both teachers and school children. This field must not be under-rated, for to develop æsthetic appreciation in our society (in the end of the greatest *practical* importance) is a slow task needing inexhaustible patience which must begin with the rising generation.

A long-term plan for both child and adult education is badly wanted because the future status of the architect both as bread-winner and as a man with a vision depend today on the public's understanding of what he does and what he wants to do. The job will not be easy and may have to be developed slowly. Adequate funds will be required and, since those of the Institute are limited, help from other groups, including government bodies like the Ministry of Education, will have to be sought, and the popular press and the BBC will have to be encouraged to deal at their own expense with architecture and allied subjects.

Above all the new Assistant Secretary will need the passive good-will and encouragement of the whole profession and the active help of some part of it. Let these be given generously, for we greatly need a man who will personify the propagandist for a better environment who lives, with more or less vitality, in each one of us.



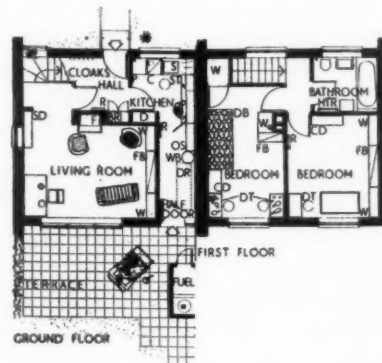
Grenfell Baines, A.R.I.B.A.

Housing Experiment

SIR,—I am grateful for the interest in my paper (see AJ for December 7) titled *Reflections on Housing* which prompted Mr. Howard Michell and Mr. J. E. Jackson to express their doubts and horrors. Having passed through all these fears when studying this problem over the past six years, I can fully sympathize.

Mr. Jackson's passionate defence of the sanctity of the living room has pricked up a few of my old doubts and made me think

Typical plans of the house discussed by Mr. Baines.



KEY			
B	Bookcase	FB	Folding bed
BR	Broom cupboard	HTR	Heated towel rail
C	Cooker	OS	Open shelving
CD	Chest of drawers	P	Pan store
D	Dresser	R	Radiator
DB	Divan bed	S	Sink and drainer
DR	Drying rack	SD	Sideboard
DT	Dressing table	ST	Store cupboard
F	Open draught fire with reflector	W	Wardrobe
		WB	Wash boiler

perhaps my efficiency drive has gone too far. I expected it would, particularly for the comfort of those whose job it is to provide and arrange space, the fruits of which job generally permits them to enjoy a fairly high space standard—in the accepted sense—themselves, and whose imagination is trained not only to visualize architectural shapes

but the shape of things to come like 'flu and mothers-in-law.

If I had stopped at families of only three or four I might have rid the living room of sleepers. Though by the way, Mr. Jackson, if on the rare occasions my desire for an early night coincides with the opportunity, I generally fall asleep in front of the fire while the radio continues "We beg to differ" (or something else I really should not miss) and as long as I do not snore unduly no-one else seems to bother.

I agree that adequate heating is vital and will let Mr. Michell know of a new appliance, now very thoroughly tested, being produced by three well known firms. Having used it myself in bigger houses I feel sure of its capacity to thoroughly warm a much smaller house. Naturally that is easier.

I must agree that only so many B.T.U's. can be got out of every pound of fuel, and that people must be willing to spend if they want to enjoy life. From the White Papers on spending I see little evidence to doubt they will spend for this enjoyment whenever there is an opportunity. But with less houses, less efficient fires and less opportunities, so the money goes on other enjoyments; the production of other kinds of smoke, employment of greyhound trap releasers who might be building, and so on. However I have faith in the general commonsense of people to spend wisely on the whole—if they get the chance.

The establishment of a standard is a matter for comparison, and in this respect it is better to travel even slowly than to suffer from unattainable ambitions. I would rather see the present obsolescent and overcrowded houses replaced by new and useful fabric, which would undoubtedly be better, though perhaps not perfect.

I am glad that both contributors saw, though darkly, that an improvement in standards was suggested, viz. the availability of space, and thank Mr. Michell for crediting me with intelligence, though I would rather say it needed resourcefulness to make the best of a small house. But as for intelligence, resourcefulness or both, in my more than intellectual slumming, I seem to have seen quite a high degree in quite a large number of people and I am not pulling legs or heartstrings when I say this.

As for furniture juggling, I have had my share. I used a bedroom-cum-drawing office for years. There really isn't much more in it than laying the table or sorting yourself out for a game of bridge. Tens of thousands of people, in much smaller flats than I am advocating, are doing it right now, have done, and will continue to do so. We mustn't assume either the existence of a universal press button mentality or unnatural intelligence.

Obviously this problem won't be solved by one cure-all idea. Let them all operate—structural economy, improved output, and so on, but I have been hopefully trying all this for a long time now, perhaps Mr. Michell has too—Mr. Jackson confesses he hasn't, and while I will continue to try out new ideas and encourage builders and their men as well, my experience shows that anything which will match up to the problem cannot be expected quickly.

Perhaps the best course would be to build some small houses, and allow those who know what it really means to make the most of space live there, and tell us what they think about them after they had a year or so to settle down. Finally I must reiterate the need to be realistic about the housing problem—it is to provide more separate dwellings as quickly as possible without unduly disturbing our economy by diverting valuable labour and material resources from other essential needs.

Preston.

G. BAINES.



In his article below Frank Russon, the well-known building contractor and the JOURNAL's guest editor for 1951, gives three suggestions towards ensuring harmonious and efficient relationships between builder, quantity surveyor and architect.

FRANK RUSSON

The value of uniformity

Harmony, efficiency and success in any industry depend upon the honest desire of all the principal parties to co-operate. In spite of repeated statements to the contrary, the building industry is rapidly progressing towards uniformity. For example, there is the accepted standard RIBA form of building contract, the standard method of measurement, the code for the measurement of building work in small dwelling houses, the standard form of sub-contract and the National schedule of daywork charges. All these stabilizing codes and documents are proof, not only of the advance made within the building industry during recent years, but also of the great amount of understanding which has been achieved between the organisations of the kindred professions and trades. Each measure also effects the desired purpose of saving time, trouble and expense, and this contributes towards the ever present need for economy.

There is, nevertheless, a need for still further collaboration. However little we like it, rationalization goes hand in hand with standardization, and it behoves architects and builders alike to standardize as much as possible to suit interests which are peculiar to both, for there is much to be gained in this respect.

RIBA FORM OF CONTRACT

One outstanding point which needs serious consideration by architects is the pure application of the RIBA standard form of contract. This has been designed to embrace the needs of every class of job in a fair and equitable way to all parties. Any adjustments made in it should be confined to the mere deletion of the alternative

clauses. The remainder should stand as it is printed, without variation of wording or the introduction of additional clauses.

Shortly after the issue of the Working Party Report, which recommended the wider use of the RIBA Form, the NFBTE enlarged upon the Working Party's advice in the following terms:

"In amplification of the practical application of this recommendation of the Working Party it is desired to point out that the conditions included in the RIBA Standard Form of Contract are general conditions of contract dealing with matters common to the execution of all building works. These conditions reflect the standard practice in regard to these matters, which should, if the principle of standardization is accepted, be included in all building contracts without variation. Conditions relating to matters not covered by the standard general conditions of contract and individual to the particular works should be the subject of special conditions included in the Preliminaries to the Bills of Quantities. Such special conditions as may be required should not, however, deal with any of the matters covered by the standard general conditions nor purport to alter them."

For architects to seek to improve or vary the contract destroys a main object and can only lead to controversy and confusion. In a nationally agreed document, it is surely fair to state that alterations are quite unnecessary, except in peculiar circumstances or for special work.

Government departments and many local authorities are the biggest offenders in departure from uniformity, for all have different forms of contract. It is unreasonable to suppose that all and sundry should fully understand the many varying contracts and the miscellaneous conditions which the building industry are expected to accept. A thorough general knowledge of commitments and responsibilities can only be achieved by all when everyone concerned acknowledges the same form.

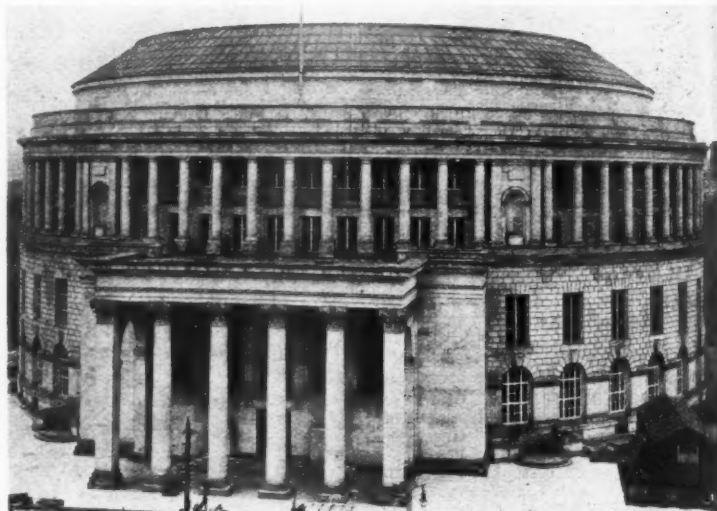
BILL OF QUANTITIES

Another pitfall for the unwary contractor is the preliminaries and preambles to a Bill of Quantities. Practically every Quantity Surveyor has standard preliminary clauses, but these are often varied and appear to have different meanings or interpretations to architects, contractors and individual surveyors alike. It is surely possible for the Royal Institute of Chartered Surveyors to prepare an adequate standard schedule of both preliminaries and preambles for acceptance by the RIBA and the NFBTE, and these should only be varied when special circumstances warrant. In this respect it is of interest to record an extract from the RICS Journal for November, 1949.

"Clause 10 of the RIBA Standard Form of Building Contract states that the Bill of Quantities, 'unless otherwise

FESTIVAL YEAR GOLD MEDAL ARCHITECTURE

As announced in last week's JOURNAL, E. Vincent Harris (seen below) has been awarded the Royal Gold Medal for Architecture by the King, on the recommendation of the RIBA. Mr. Harris is the architect for the office block now being constructed between the Embankment and Whitehall (perspective, top right). The reference library at Manchester (1932), right centre, is perhaps his best known work. Other examples of his work are shown at the bottom of the page : left, Sheffield City Hall (1932) ; right, Leeds Civic Hall (1933).



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CONCRETE FOOTBRIDGE NEAR OXFORD

expressly stated, shall be deemed to have been prepared in accordance with the principles of the Standard Method of Measurement of Building Works last before issued.'

"The Quantity Surveyors' Committee are informed that it is the practice of some members to insert various types of preliminary clauses which prevent the contractor from having the benefit of the Standard Method if the quantities should be at variance with it. These preliminary clauses, of which the Quantity Surveyors' Committee have seen a number of examples, vary from unobjectionable reservations to those which are contrary to the spirit of the Standard Method.

"The Quantity Surveyors' Committee deprecate the insertion of such clauses or any departure from the Standard Method unless particular and exceptional cases justify it. In this connection the attention of members is specially drawn to paragraph 2 of the General Principles on page 1 of the document."

The immediate reaction of the builder, on receipt of a bill of quantities, may bring this point home to the architect and surveyor: in any builders office, especially those which may receive several enquiries per day, the first step taken is to investigate and consider the preliminary clauses contained in the bills of quantities received and then to price them accordingly. Some of these preliminary clauses are frequently at variance with the Standard Form of Contract. More often than not there are so many such clauses that they contradict each other—and thus make a clear case for the extension of the principle of uniformity. With the acceptance of standard preliminaries there would be a saving of time and expense for all concerned.

FORMS OF TENDER

The foregoing remarks could also apply equally well to forms of tender. Why should there not be a standard form of tender varied only by the incidental circumstances of the contract?

A Tender Form often states how long the tender may remain open for acceptance. Instances have been known when this period has been made as long as four months. As a result of this lengthy period, the builder, who may have quoted keenly for the contract during a slack period, may, by the time the tender was accepted at the end of the fourth month, be very busy with more profitable work. In these uncertain times a tender should not remain open for longer than four weeks unless the builder is notified promptly that he is under favourable consideration for the contract.

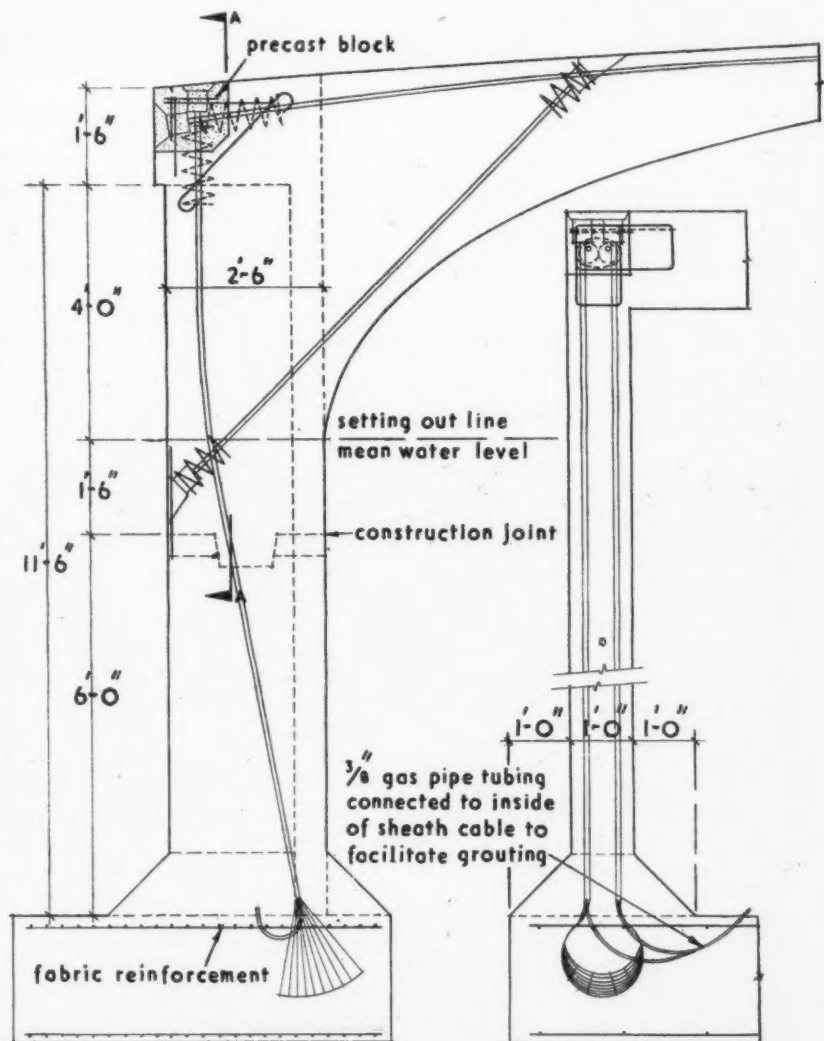
CONCLUSION

To summarize—time is more than ever the essence of the contract, and considerable saving will be effected and greater harmony prevail if the three

There are now in Oxford three concrete footbridges. The latest one, previously referred to in the JOURNAL, Jan. 11, although a smaller structure than either of the others, is probably unique. Not only does it represent the first practical application of prestressing in Oxford, but it is believed to be the first prestressed fixed arch bridge in the world. The bridge consists of a pair of twin-arch, post-tensioned ribs (see drawings below), coupled at their extremities and at mid-span by cross beams, all of which were cast in situ, and a decking of precast pretensioned plank elements. To drain the decking surface, these plank units are spaced about $\frac{1}{2}$ in. apart. The clear span of the bridge is 45 ft., the width between the balustrading 8 ft., the clear height above mean water level 5 ft. 9 in., and the

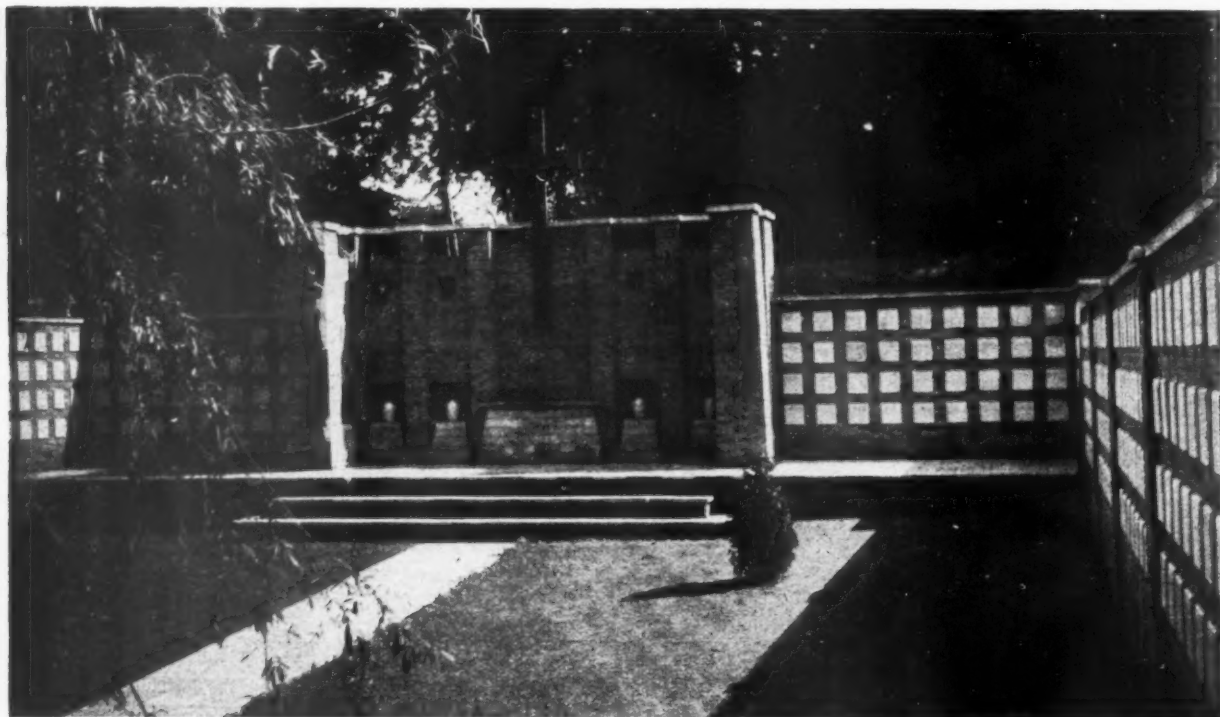


structural depth at mid-span only 9 in. The formwork was made of timber with a lining of hardboard to the visible concrete faces. Prestressing for the ribs was on the Freyssinet system, and the compacting was done by an immersion type vibrator. Engineers, R. Travers Morgan & Partners; contractors, Taylor Woodrow Construction Ltd.



Part section through rib and cross section A-A [Scale: 8" = 1'-0"]

GARDEN OF REST AT THE PARISH CHURCH, LEXDEN



On a site adjoining the churchyard of the Parish Church at Lexden, Colchester, a scheme has been devised to provide the maximum accommodation for cremation ashes. The architects, Bailey & Walker, were required to design an open air altar, seen above and opposite, so that services could be held at the time the cremation ashes were placed in the niches. After a burial service held in the church, the coffin is taken to the crematorium at Ipswich, the ashes being then returned so that a service can be held on the site. The only access to the site is

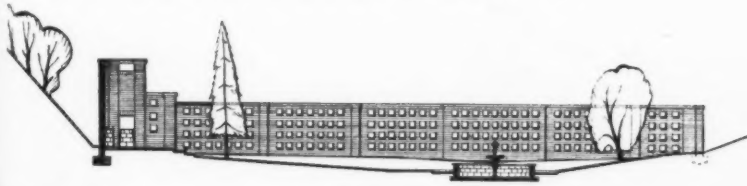
in the north-east corner, as seen below, and the ground slopes steeply up behind the altar, where flowering shrubs have been planted. When ultimately completed the site will be enclosed by walls on all four sides to give maximum privacy. One of the conditions imposed was that the niches and the plaques which are fixed to them must be identical in size and shape. The lettering on these plaques is to be of a standard pattern, namely, incised Roman. The entire walls are built in local brickwork and the lintol of each of the niches is formed of a double course

of slates to carry the brickwork above. The joints are not pointed and the cement mortar has been ironed back to emphasise the horizontal courses. The general contractors were Messrs. T. & F. Marshall. Sub-contractors on page

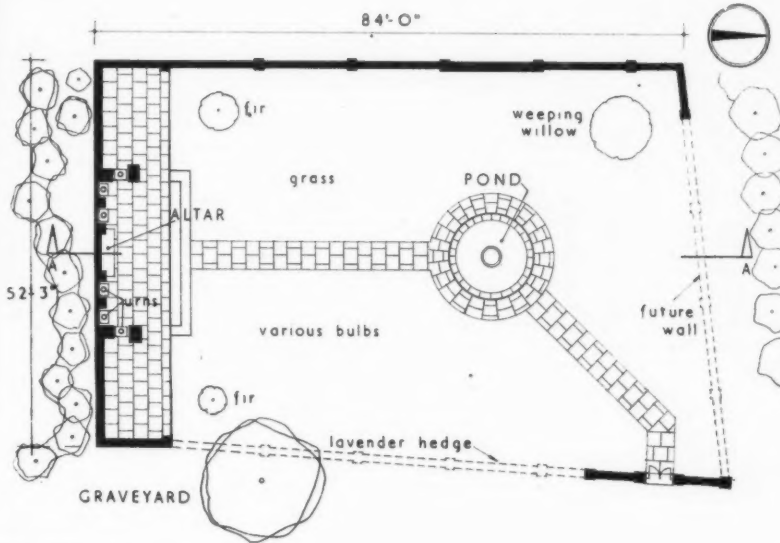
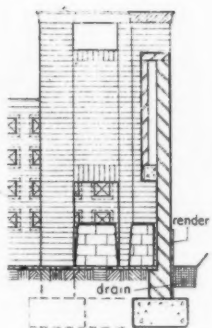
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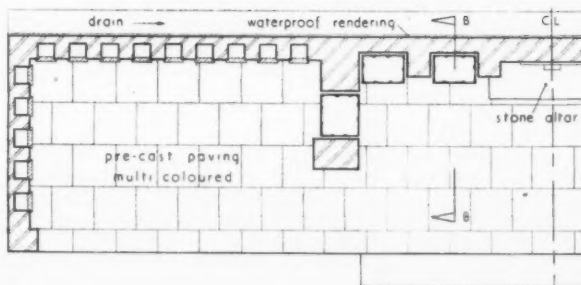
NEAR COLCHESTER, ESSEX



Section A-A

Plan [Scale: $\frac{1}{2}$ " = 1'0"]

Section B-B

Half plan of
Altar end
[Scale: $\frac{1}{2}$ " = 1'0"]

suggestions made can be put into practice:—First, the standard use by all of the RIBA Contract Form *without modification*. Second, the preparation of a standard set of preliminaries and also preambles in Bills of Quantities. Third, the standardization of the Form of Tender.

LIST COMPETING BUILDERS

Whilst it may not fit entirely with this plea for further uniformity, I put forward a final suggestion to architects which, if followed, will increase the builder's confidence and trust, and contribute to more consistent and competitive tendering.

I suggest that, when tenders have been examined and the successful builder has been ascertained and his prices and *bona fides* verified, that the unsuccessful tenderers should be provided with a list of the competing builders and their respective prices. Nothing is gained by "hush-hush" attitudes and nothing is lost by being frank and open. The London County Council set a very good example in this direction, for the results of the majority of their tenders frequently appear in the public press, and if private architects would follow this example when it is possible for them to do so, it would lead not only to more stable prices for contractors but to keener competition between contractors.



MOTCP

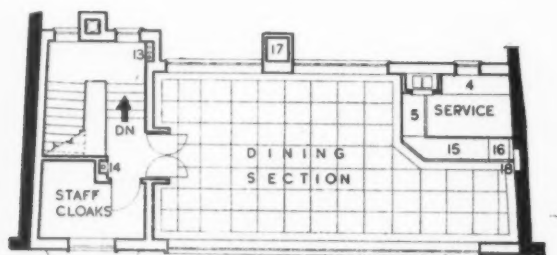
Visitors from Abroad to
Study New Towns

The number of visitors from overseas who come to study English town planning increases each year. During the past year, 169 visitors, including architects, administrators, lawyers, engineers and students, had discussions with officials of the MOTCP in order to learn something of our methods. Among Commonwealth countries represented were Australia, Canada, India, Kenya, Malaya, New Zealand, Nigeria, Pakistan, South Africa, and Trinidad. There were also visitors from Abyssinia, Argentine, Austria, Brazil, Cuba, Denmark, France, Germany, Italy, Japan, Netherlands, Norway, Portugal, Sweden, Switzerland, Turkey, United States, and Yugoslavia.

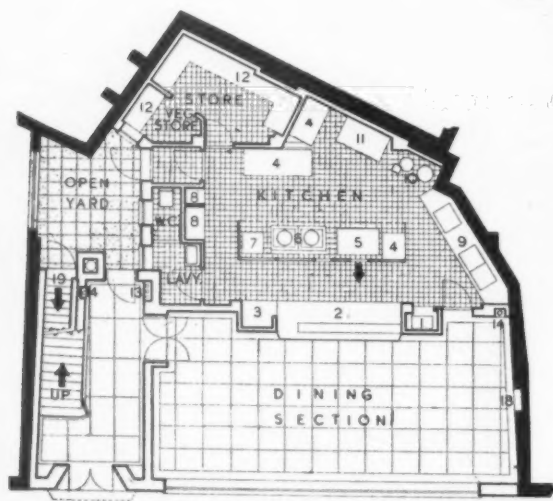
CANTEEN FOR OMNIBUS STAFF AT VAUXHALL, LONDON



The canteen at Vauxhall is used by the London central bus staff and was designed by the Architects' Section of the London Transport Executive. The two-storey block is steel framed with 13½-in. panel walls containing recesses for radiators. The brick walls of the kitchen and staircase are load bearing. Floors and roofs are of precast concrete beams with in-situ concrete hoods and trimming to exhaust vents and roof lights. Roofs are covered with 1-in. cork slab, laid on screed. Finishes in dining room : floor, 6 in. by 6 in. quarry tiles ; walls, (to 7 ft. high) buff eggshell and coffee colour glossy tiles ; frieze and ceiling, painted plaster. Left, the exterior. Below, the ground floor dining section. General contractor : L. & W. Whitehead.



First floor plan



Ground floor plan [Scale: 1/8"=1'0"]



KEY

- | | | |
|----------------|-----------------------|-----------------------|
| 1. LIFT | 6. DOUBLE OVEN COOKER | 13. PIPE DUCT |
| 2. HOT COUNTER | 7. STEAMER | 14. FIRE EXTINGUISHER |
| 3. TEA SERVICE | 8. METERS | 15. COUNTER |
| 4. TABLE | 9. SINKS | 16. FLAP |
| 5. HOT CLOSET | 10. WATER SOFTENER | 17. EXTRACT SHAFT |
| | 11. REFRIGERATOR | 18. RADIO UNIT |
| | 12. SHELVING | 19. DOWN TO BOILERS |

COMPETITION

Proposed College at South Shields

The County Borough of South Shields invites British architects to submit designs in open competition for a marine and technical college to be erected at South Shields.

The assessor will be S. W. Milburn. Premiums offered are £500, £250 and £100. Designs are to be submitted by July 21, and the last day for questions is March 21.

Conditions of competition may be obtained on application to Harold Ayrey, the Town Clerk, at South Shields town hall, and must be accompanied by a deposit of two guineas.

MOW

Anglo-American and Working Party Reports: Action Taken

The Minister of Works has now concluded the present series of discussions with his National Consultative Council about the recommendations in the reports of the Building Working Party and of the Anglo-American Productivity Team on Building.

Action has been taken on a number of matters. In particular, an announcement was made on December 15 of a new agreement for the extended application of incentive schemes in England and Wales reached between the two sides of the building industry and providing for co-operation between them. The MOW are about to publish leaflets for the assistance of those engaged in the building industry on the subject of costing, programming and progressing; and the NFBTE expect to publish a booklet on the subject of costing in the new year. The Ministry held successful demonstrations of plant in 1950, and will hold further demonstrations in 1951; they have arranged with the British Electricity Authority for a simpler procedure for meeting the cost of providing electric power on building sites and thus facilitating the use of power-driven tools.

The RIBA and the NFBTE have decided to engage in publicity to impress upon building owners the importance of deciding their requirements at an early stage and of avoiding variations while the contract is in progress and thus to meet the requirements of pre-planning upon which both the Building Working Party and the Anglo-American Productivity Team lay such stress.

HONG KONG

University's New School of Architecture

A year or so ago the University of Hong Kong decided to include in its development programme the founding of a school of architecture. The proposal has now been put into operation and Professor R. Gordon Brown, late head of the University of Edinburgh, has been appointed to the Chair.

The school is housed in the new Duncan Sloss School of Engineering and Architecture and has workshop facilities where the nature and properties of simple building materials can be demonstrated and where students themselves can experiment with machines and materials. For landscape and surveying field work, a site has been acquired on the island of Lan Tau, about two hours by boat from Hong Kong, and Gordon Brown is already designing a country school



Above, first year students at the new school of architecture, Hong Kong. Right, Professor Gordon Brown with a student. See news item below.

to be erected there for the use of undergraduates and staff.

The school's course is of five years' duration and leads to the degree of Bachelor of Architecture; there will be both Honours (1st and 2nd Class) and Pass degrees, and Honours graduates, together with suitably qualified graduates of other universities, will be eligible to supplicate for a higher degree, Master of Architecture. The examination for this degree will be by thesis, the preparation of which must entail at least one year's post-graduate study on a subject approved by the Senate. The course for the qualifying degree is so designed that the University hopes that it will eventually be recognized by the RIBA.

The University's large building programme has been entrusted to Gordon Brown, who has been appointed its consulting architect. The programme, which will provide practical training for the students, includes the redesigning of the great hall, the completion of the main building, a new students' union building, staff flats, a library and additional accommodation for scientific work.

For the first year fifty students are taking the course. These are drawn from as far afield as Malaya and China in addition to Hong Kong itself. In the later years of the course, the history and art of Chinese



architectural design will be incorporated in the curriculum. The school will, of course, make available to Western science the tradition and achievements of centuries of Chinese architectural art.

LOW COST HOUSING

Competition Designs to be Exhibited

The winning designs in *The Builder's* housing competition, which closed on January 17, will be exhibited at the Conference Hall, County Hall, Westminster, S.E.1 (by permission of the LCC) from Monday to Saturday, February 19 to 24. There were 320 designs received in this competition for a terrace house to cost not more than £1,000.



Dudley F. Cox is the new president of the LMBA. He is chairman and managing director of Haymills Ltd., general contractors, and has been closely associated with the LMBA for twelve months.

DIARY

A Question Night. At the Polytechnic Institute, Regent Street, W.1. (Sponsor, IOW.) 7.30 p.m. JAN. 25

Housing and Planning Problems in Slough. P. W. Macfarlane. At 13, Suffolk Street, S.W.1. (Sponsor, HC.) 6 p.m. JAN. 30

Research and Development in Public Offices. S. A. W. Johnson-Marshall and Robert H. Matthew. At 34, Bedford Square, W.C.1. (Sponsor, AA.) 8 p.m. JAN. 31

Thoughts on Architecture Today. Michael Waterhouse. At the University of London: Senate House. A course of two lectures. 5.30 p.m. FEB. 8 AND 15

The Architecture of Transport. Exhibition at the RIBA, 66, Portland Place, W.1, showing projects in this country and a selection of material from abroad. Weekdays 10 a.m. to 7 p.m. Saturdays 10 a.m. to 5 p.m. FEB. 22 TO MAR. 22

GOVERNMENT OFFICES

at RICKMANSWORTH, HERTS

designed by G. W. POLLARD

CHIEF ARCHITECT'S DIVISION, MOW

The new combined Government offices building, which lies to the north of the main road from Watford to Rickmansworth, provides accommodation for the Ministry of Labour and Ministry of National Insurance as well as administrative offices for other departments such as the Ministries of Food and Health on the first floor. The building is set well back to allow for future widening of the main road.

View from the south.



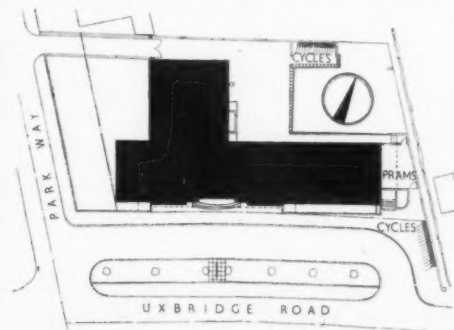


Facade to the main Uxbridge Road from the east.

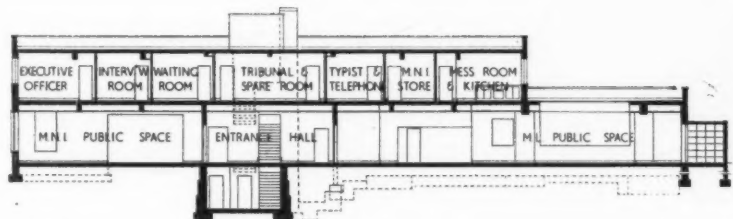
PLAN.—The ground floor consists mainly of two large public reception rooms for the Ministries of Labour and National Insurance and as the functions of these two departments are closely associated, a common entrance hall is provided. The public reception spaces contain counters and private interview cubicles separated by screens 5 ft. high.

CONSTRUCTION.—The walls are 11-in. cavity load-bearing brickwork supporting hollow tile floors and partition walls. The roof is also of hollow tile construction.

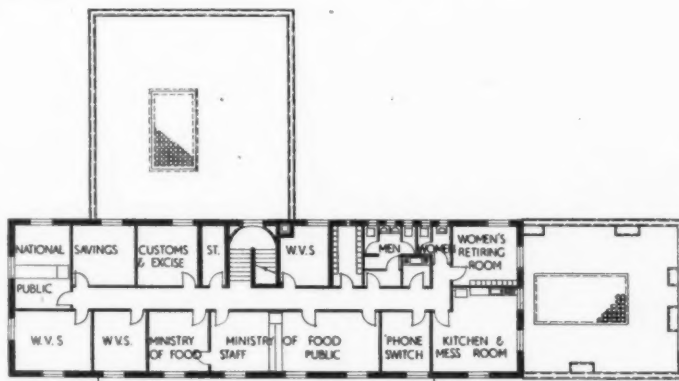
FINISHES.—The walls are faced with 2½-in. handmade dark multi-facings, generally brown in colour. The pointing is struck off flush and is buff coloured. The roof is covered with sanded roofing felt on lightweight concrete screed with a cork overlay. The floors have a thick lightweight screed concealing telephone ducts, electric conduits, etc. The windows have reconstructed stone linings with moulded jambs. Internally, the large public rooms have silver grey walls with a terrazzo dado and ceilings and windows ivory coloured. The floors are finished with grey-blue tiles and the doors are



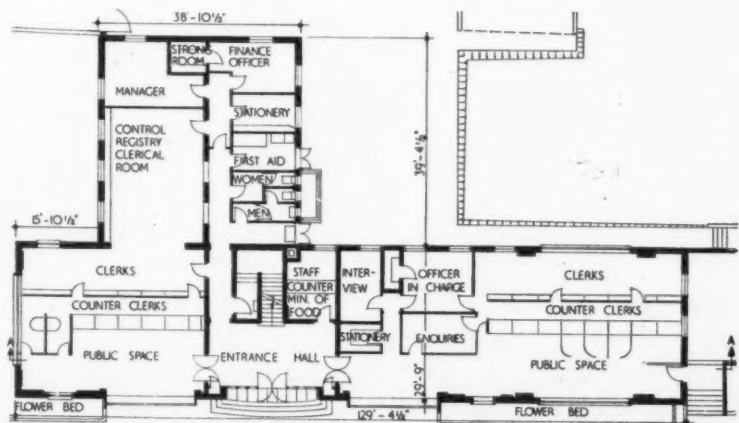
Site plan



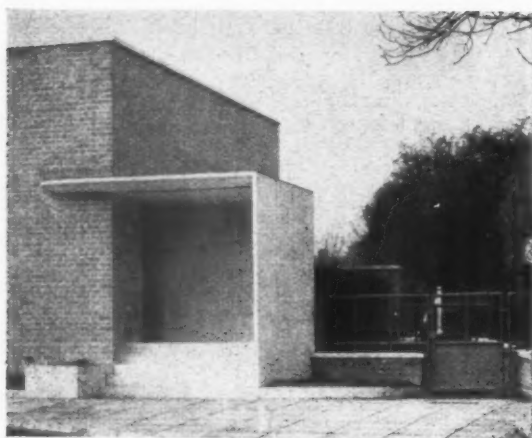
Section A-A



First floor plan



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



Left, detail of exit porch at east end of the building. Below, left, public space at east end of ground floor.

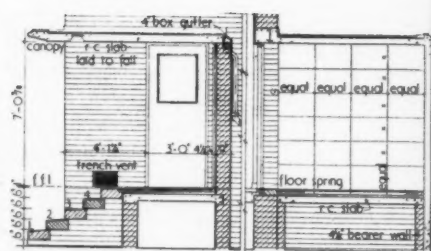


GOVERNMENT OFFICES

at RICKMANSWORTH HERTS

[designed by G. W. POLLARD

CHIEF ARCHITECT'S DIVISION, MOW

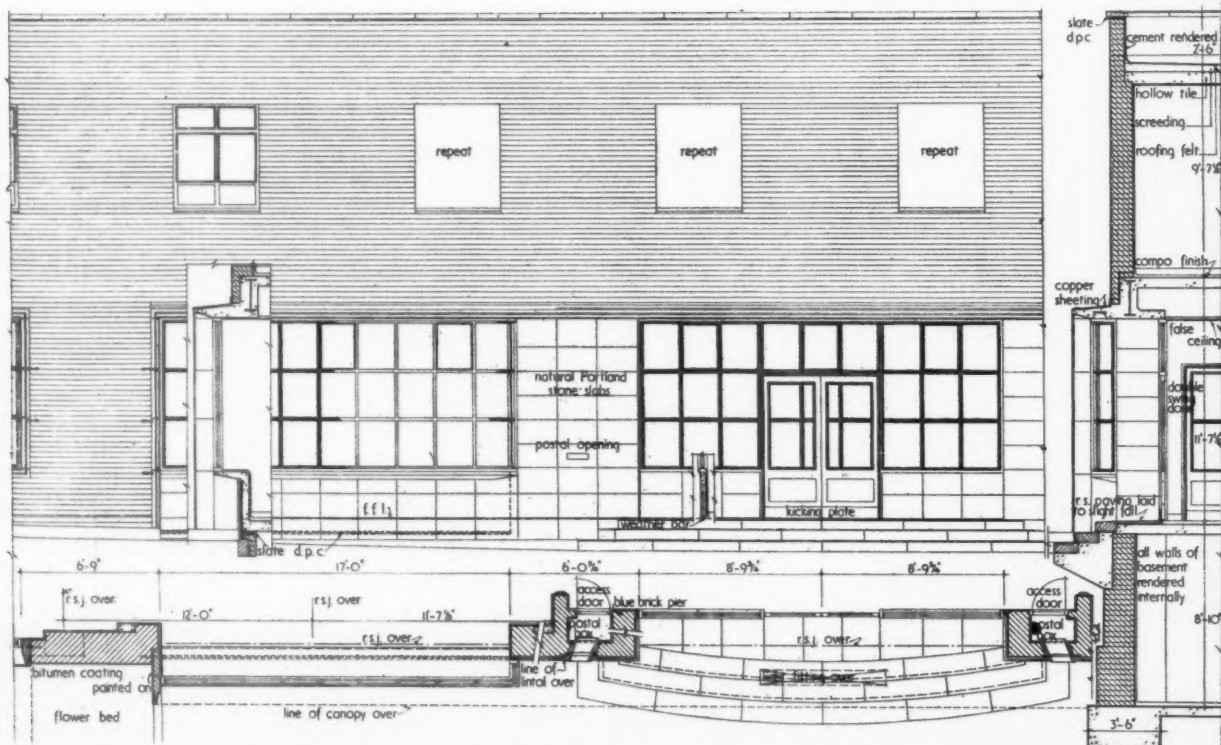


Plan, cross and longitudinal sections of exit porch. [Scale: $\frac{1}{4}'' = 1'0''$]

Painted blue. The counters and screens are constructed of grey plastic with dark brown tops.

SERVICES.—The building is heated by low-pressure hot water in concealed embedded panels and where suspended ceilings occur, the heating tubes are also suspended, immediately above the plaster face. The main telephone ducts to each room are buried in the floor screed, but where flexibility is required in the public spaces, wires run above the floor in shallow metal channels with spring clip segmental aluminium covers under the counters.

The contract price was £30,940. The general contractors were Y. J. Lovell & Son, Ltd. For list of sub-contractors see page 140.



Plan, elevation and section of main entrance [Scale: $\frac{1}{4}'' = 1'0''$]



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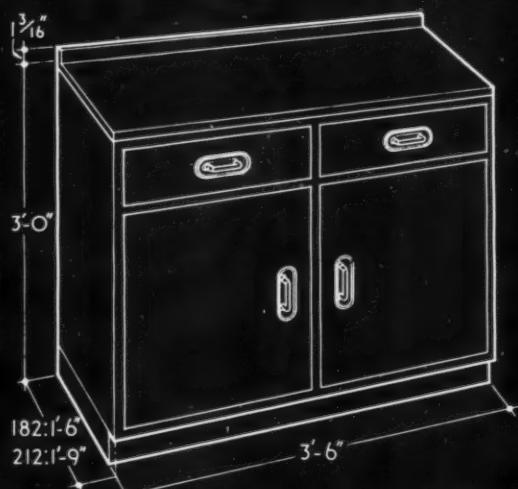
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SPECIALISED FITTINGS | KITCHEN UNITS

43.E13

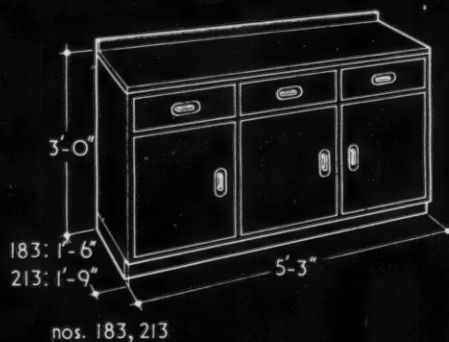
The Architects' Journal Library of Information Sheets 291. Editor: Cotterell Butler, A.R.I.B.A.



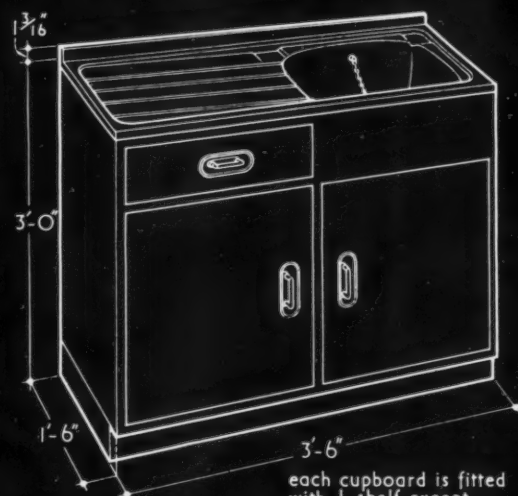
nos. 182, 212

each cupboard is fitted with 1 shelf

FLOOR CABINETS.



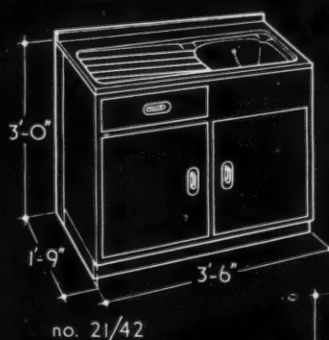
nos. 183, 213



no. 18/42

each cupboard is fitted with 1 shelf except those under sinks

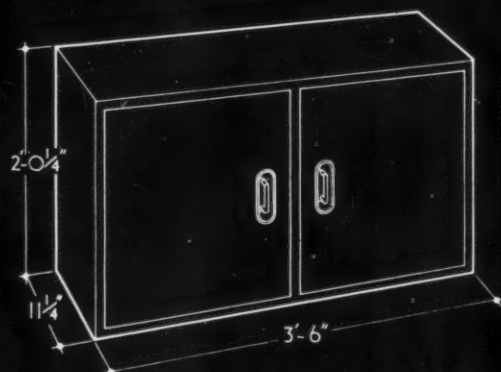
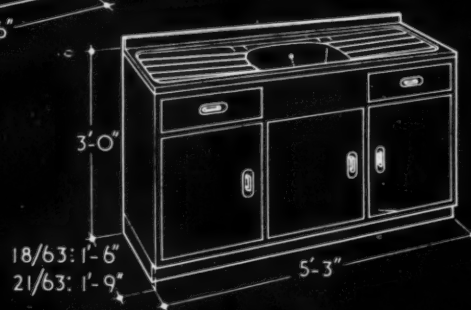
SINK UNITS.



no. 21/42

size of sinks: 1'-8" x 1'-4 1/2" x 8 1/2" deep

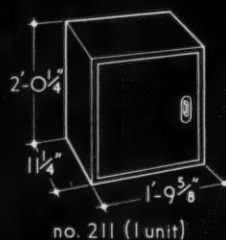
nos. 18/63, 21/63



no. 422 (2 units)

each unit is fitted with 1 shelf

WALL CUPBOARDS.



no. 211 (1 unit)



no. 633 (3 units)

43.E13 · WARWICK · FLOOR CABINETS, SINK UNITS AND WALL CUPBOARDS

This Sheet, the first of two describing the Warwick range of kitchen equipment, deals with floor cabinets, sink units and wall cupboards. The Warwick gas cooker, domestic boiler and refrigerator which are designed to match the above are described on Sheet 43.E14.

Construction Generally

The cabinets and wall cupboards are constructed of pressed aluminium. The drawer runners are of seasoned and planed wood sliding in aluminium channels. Both door and drawer fronts are packed with sound-deadening material.

Floor Cabinets

These are available in four sizes as shown. The tops are constructed from a single sheet of stainless steel.

Sink Units

These are available in four sizes as shown. The sinks and drainers are a single-piece stainless steel pressing. Model Nos. 18/42 and 21/42 may be obtained with left or right hand drainers.

Wall Cupboards

These are available in three sizes as shown.

Fixing: The cupboards are plugged and screwed to walls through holes provided in the backplates.

Fittings

Handles: The handles are recessed and are of black plastic fitted to polished stainless steel insets.

Hinges: These are concealed when the doors are closed.

Catches: All doors are fitted with spring-loaded ball catches.

Finish

All units are supplied finished stove-enamelled cream. The plinths are finished stove-enamelled black.

Compiled from information supplied by:

C.S.A. Industries Ltd.

Address: Warwick, England.

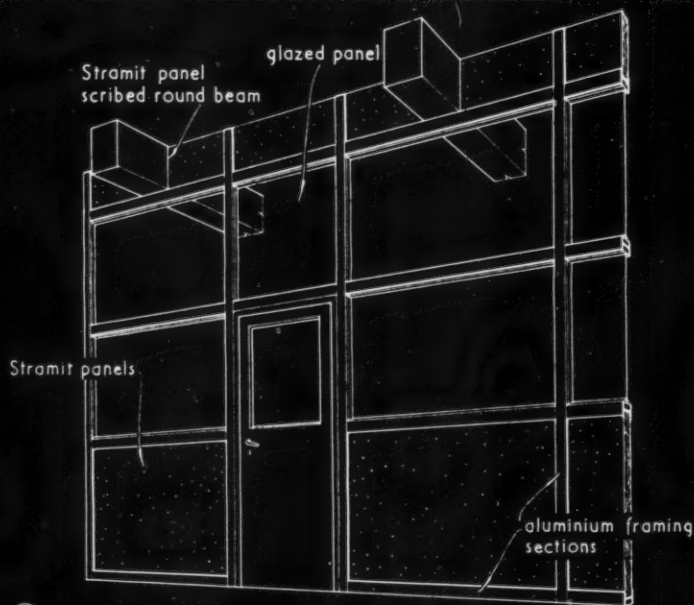
Telephone: Warwick 500.

Telegrams: Conscrew, Warwick.

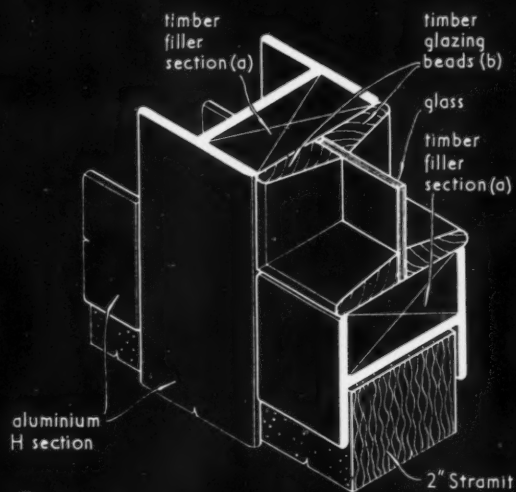
BUILDING SLABS | LIGHTWEIGHT MATERIALS: APPLICATIONS

14.L4

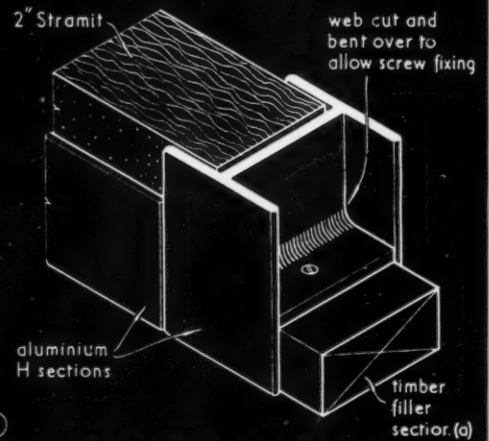
The Architects' Journal Library of Information Sheets 292. Editor: Cotterell Butler, A.R.I.B.A.



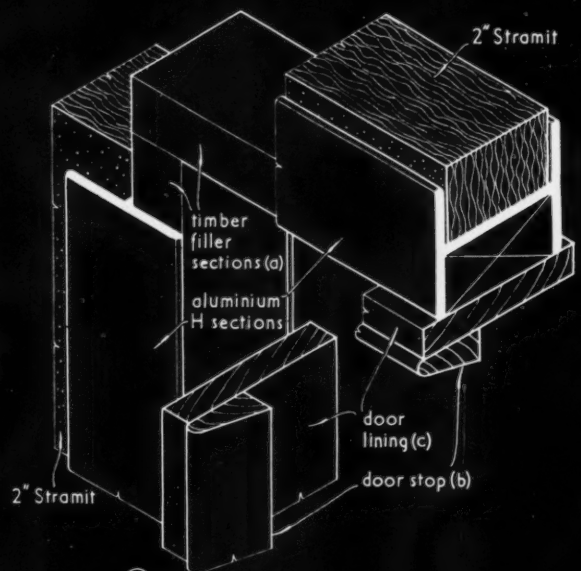
①
PERSPECTIVE VIEW OF TYPICAL GLAZED PARTITION.



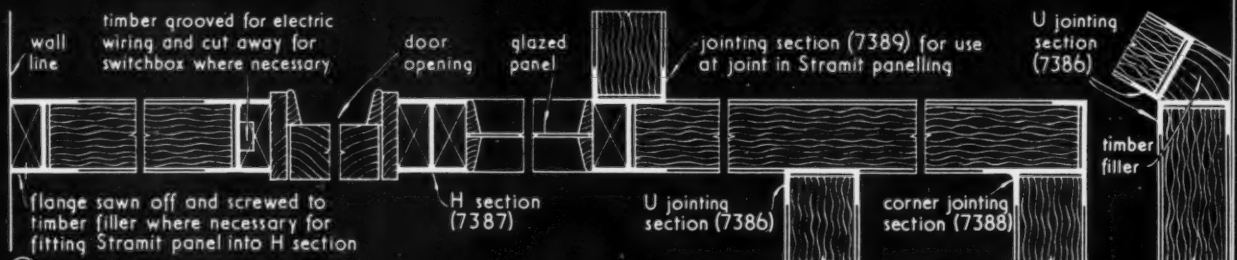
③
DETAIL OF GLAZING.



②
FIXING AT INTERSECTION OF H SECTIONS
AT FLOOR, CEILING AND DOOR JAMBS.



④
FIXING AT DOOR.



⑤
TYPICAL PARTITION PLANS.

14.L4 · STRAMIT · BUILDING SLABS : 4. PREFABRICATED PARTITIONS

This Sheet describes a prefabricated partition composed of Stramit building slabs, extruded aluminium framing sections and timber beads and filler sections. The system allows for the construction of glazed or unglazed partitions. The recovery value is high as the partitions can be readily demounted and re-erected elsewhere if necessary.

Applications of Stramit building slabs for roofs and ceilings, traditionally constructed partitions and wall linings are given on Sheets 14.L1, 2 and 3.

Construction

The building slabs and the aluminium framing sections are, when so specified by the client, supplied cut to size. Where floors are uneven the dado glass line can be kept level by the insertion of thin packing pieces in the H sections, which obviates the necessity for re-cutting the slabs. Where necessary the Stramit slab can readily be cut on site to the contour of existing cornices, etc., with carpenters' tools. The upright framing members should normally run unbroken from floor to ceiling and be securely fastened top and bottom. When constructing screens that do not reach to the ceiling, a continuous timber capping piece over the top H section and filler piece is recommended. If the screen is long, or contains door openings, the aluminium sections forming the door frame should carry up to ceiling height and be anchored there to avoid whip. Where ceilings present difficulty due to cornices or beams an alternative construction can be effected by running the uprights from floor to ceiling and cutting-in the intermediate rails at a convenient height, making the top panel a press fit under the ceiling with an aluminium head rail.

Electrical Services

Electric wiring can be concealed in the framing. Electric flush-type switches can be mounted inside the aluminium extrusions; it is possible to conceal plug boxes within the slab itself to give a flush appearance to both sides of the partition.

Spread of Flame (B.S. 476 : 1932)

B.R.S. report (reference 36/5192/2) classifies Stramit for "spread of flame" in class 1 when plastered, class 2 when painted with a flat or gloss paint and class 3 when untreated.

Thermal Conductivity

B.R.S. report (reference 36/5192/2) gives the thermal conductivity of Stramit as 0.60 B.th.u. per sq. ft. per hour for 1 in. thickness and 1° F. temperature difference.

Stramit has a low thermal capacity and rooms insulated with this material afford an agreeable feeling of warmth and the surfaces are warm to the touch due to the rapidity with which the material is raised in temperature.

Sound Insulation

The sound reduction of Stramit is approximately 30 decibels while its absorption ranges from 45 per cent. to 50 per cent. between normal frequencies. These data were obtained from researches carried out by the Chalmers Technical University, Gothenberg, Sweden, and the Laboratoire D'Essais, 292, rue St. Martin, Paris.

B.R.S. Report

A copy of the full report may be seen or obtained on application to the manufacturer only.

Compiled from information supplied by :

Stramit Boards Ltd.

Sales and Technical Departments.

Address : Packet Boat Dock, Cowley Peachey,
Near Uxbridge, Middlesex.

Telephone : West Drayton 3021.

Factory : Stowmarket, Suffolk.

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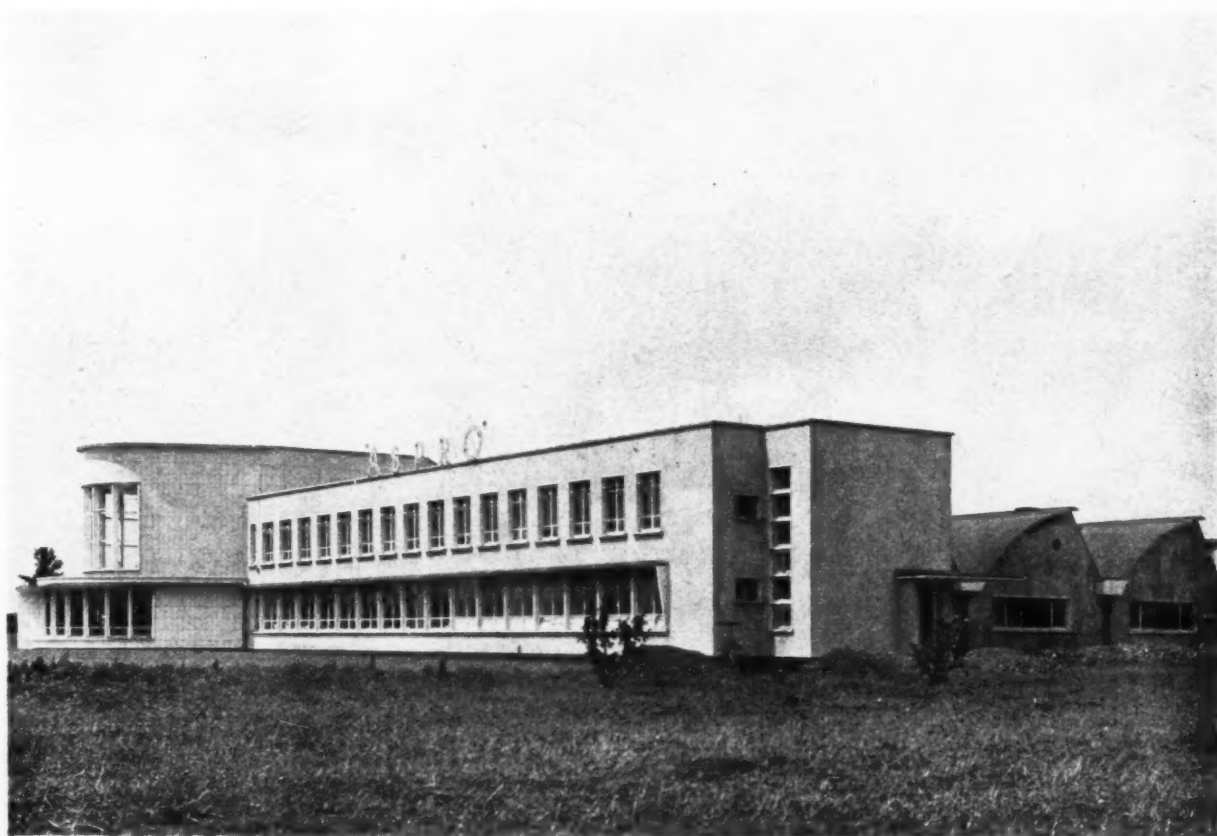
Editor: Cotterell Butler, A.R.I.B.A.

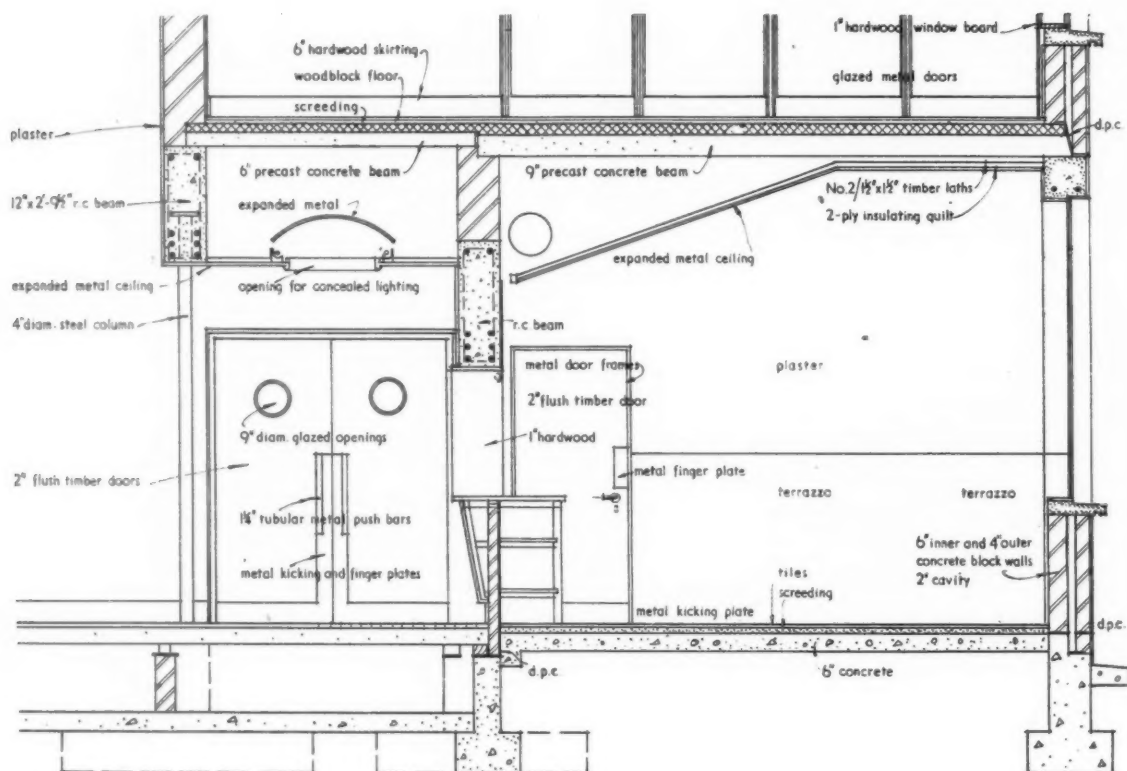
FACTORY

at INCHICORE, DUBLIN, IRELAND
designed by ALAN HOPE

The first stage of the factory for Aspro (Ireland) Ltd. includes only one third of the final working area. The working area will be extended to the east and north. Nissen huts, built under temporary licence, are at present used as a subsidiary factory.

The factory from the south-east.





Section through kitchen (Scale: $\frac{1}{4}'' = 1' 0''$)

FACTORY

at INCHICORE, DUBLIN, IRELAND

designed by ALAN HOPE

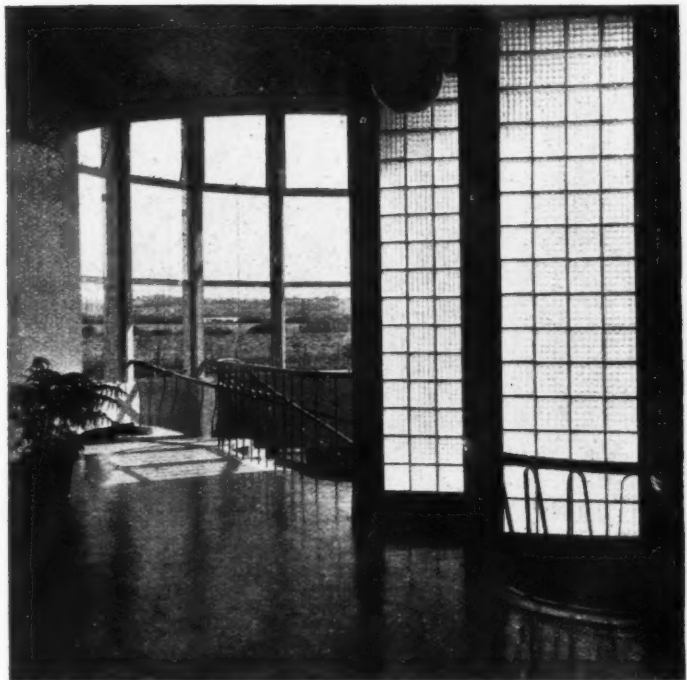
SITE.—The site is bounded on the south side by a trunk road. A ring road is projected along the western side. The town planning authority required that there should be no traffic approach from these two sides. A building line of 160 ft. has been adopted. There is no main drainage.

PLAN.— The functions of the building have been divided into working, administration and recreation areas. The goods entrance is on the north side and the staff entrance is on the west side. The recreation area, which includes a hall with a fully-equipped stage, a kitchen and lavatories, can be sealed off from the rest of the factory and used for private functions.

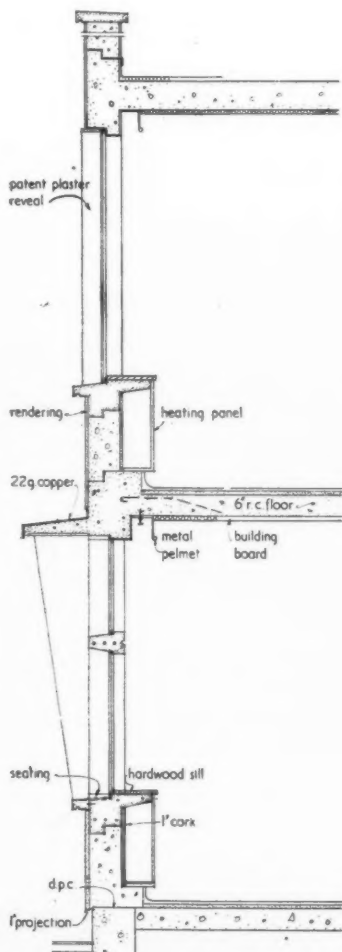
The lounge and main staircase.



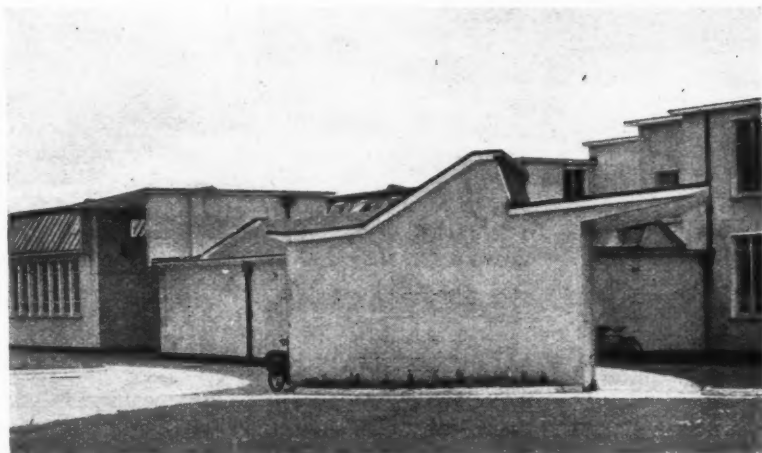
CONSTRUCTION.—Three different forms of construction are used. The north light roof to the factory is of shell concrete, supported on reinforced concrete columns. Wall panels between the columns consist of two skins of concrete block with a cavity between. The reinforced concrete frame of the office block supports a hollow tile floor and roof; walls are of solid concrete block, lined internally with 1-in. cork insulation. Partitions are of concrete block and also of steel. The pitched roof over the



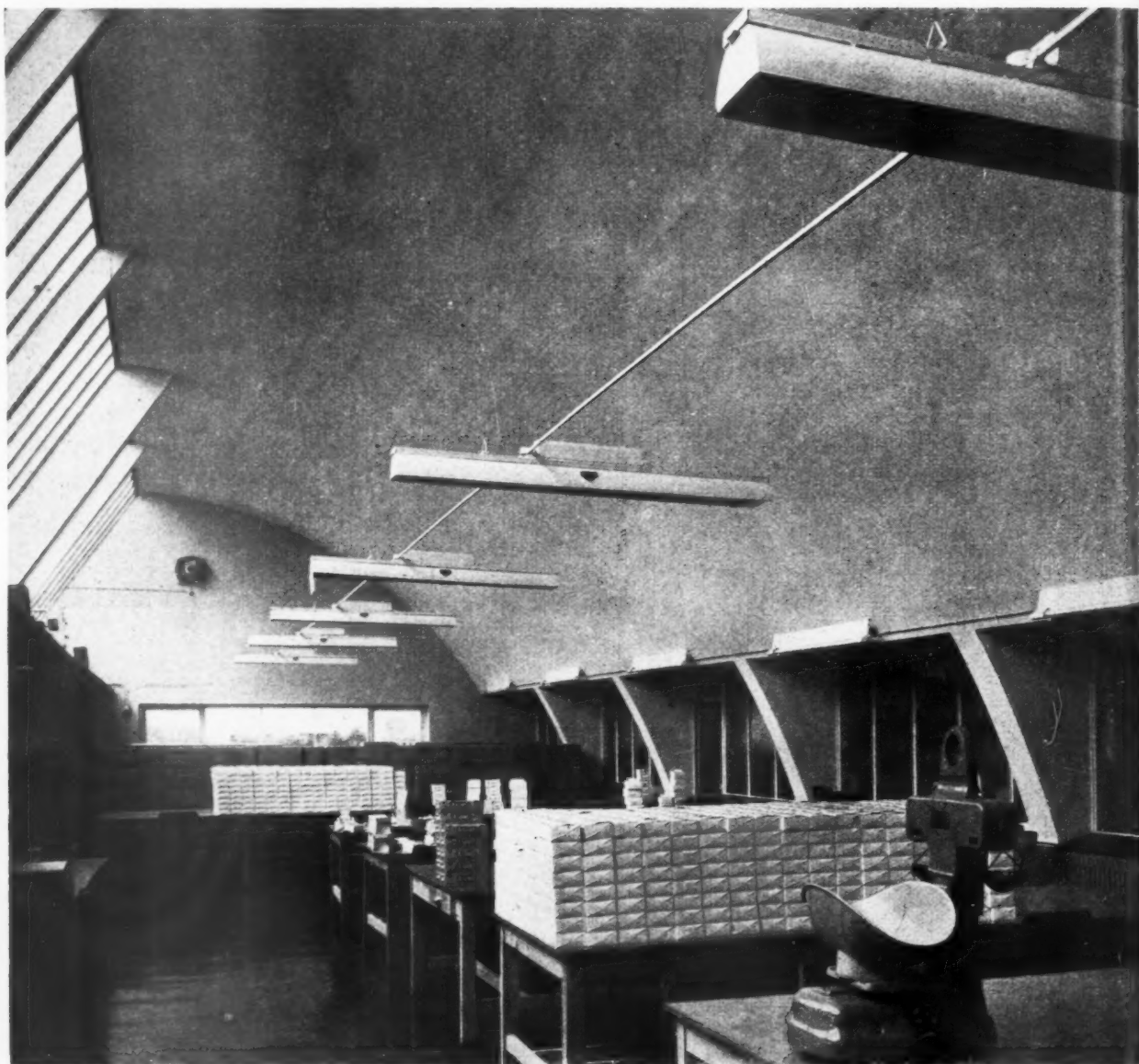
The main staircase and landing on the first floor.



Section through south wall of offices
[Scale: $\frac{1}{4}'' = 1'0''$]



The factory from the north west. The cycle sheds are in the foreground and the kitchen with the executives' dining room above is on the extreme right.



The packing department.

FACTORY

at INCHICORE, DUBLIN, IRELAND

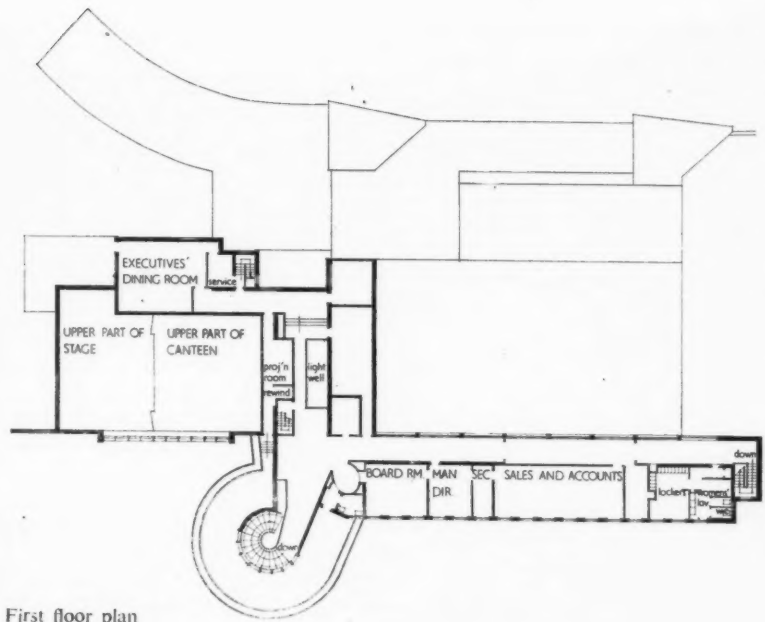
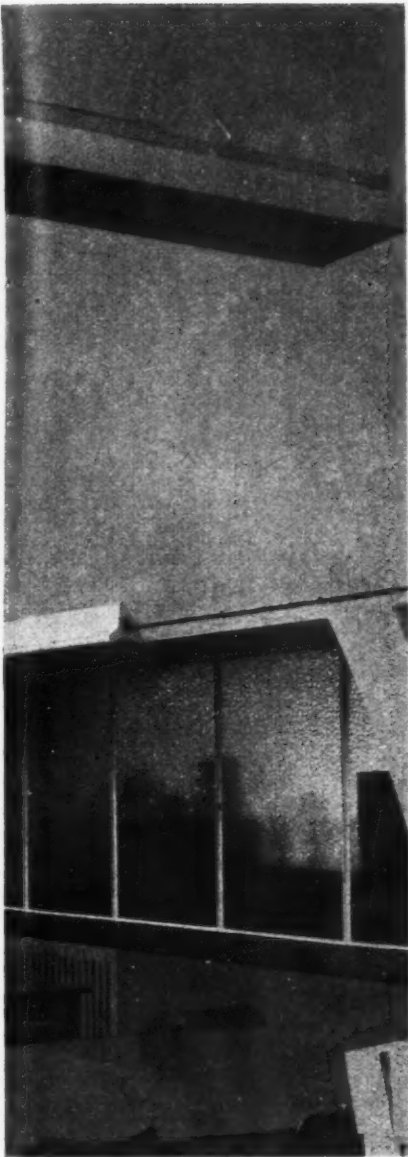
designed by ALAN HOPE

recreation hall consists of slates supported on steel trusses. Window frames and north light glazing bars are of steel, the frames are sherardized and the glazing bars sheathed in lead.

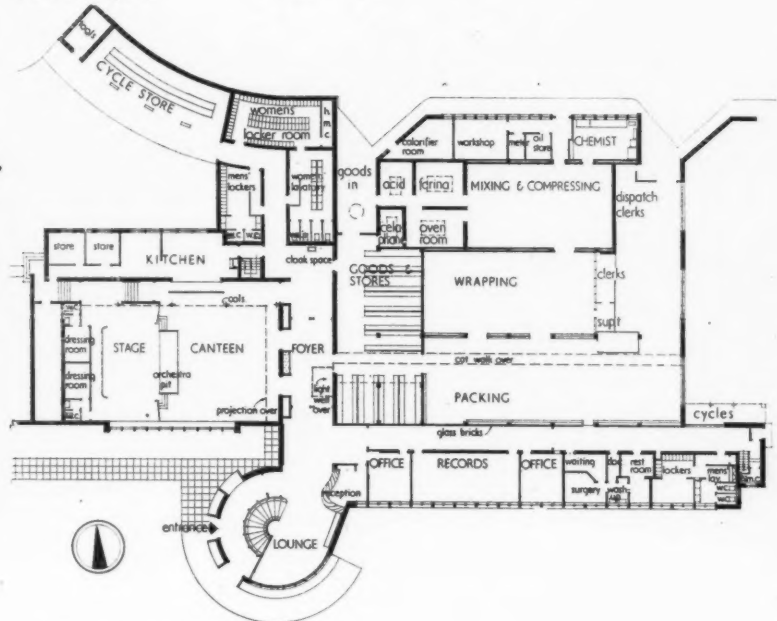
FINISHES.—Factory area; roof, lined with fibre board and painted; floor, asphalt tiles; walls,

plastered and painted. Entrance hall floors, rubber tiles; staircase, linoleum. Recreation hall, which is to be used for dancing as well as a staff canteen, sprung birch board floor. Boardroom walls and floor, mahogany.

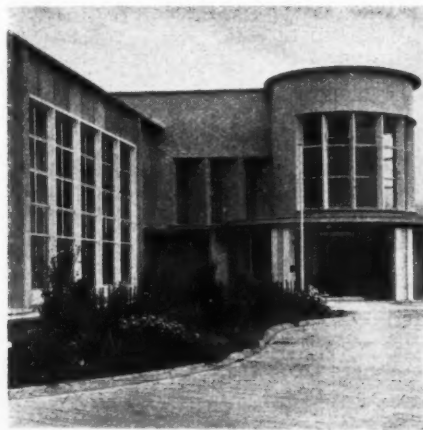
SERVICES.—The building is warmed by steam



First floor plan



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



The main entrance.

passing through gill pipes in wall recesses, which are covered by metal grilles. The hot water supply is obtained from a steam heated calorifier. The boiler house is placed apart from the factory.

CONTRACT.—The general contractor was responsible for all sub-contracts. The contract was for a



The canteen. The kitchen serving hatch is on the left. The doors open on to the foyer. The windows belong to the cinema projection room.

FACTORY

at INCHICORE, DUBLIN, IRELAND

designed by ALAN HOPE

lump sum and the total final cost, including site works and a sewage disposal plant was £99,000. The buildings alone cost approximately £75,000.

The general contractor was T. & G. Crampton Ltd. A list of sub-contractors appears on page 140.

The records office on the ground floor.



INFORMATION CENTRE • INFORMATION SHEETS
QUESTIONS AND ANSWERS • CURRENT TECHNIQUE
THE INDUSTRY • PRICES • TECHNICAL ARTICLES

TECHNICAL SECTION

This is a first study of the problems arising from the prohibition of certain uses of zinc and copper; readers may be able to put forward other suggestions—if so, the JOURNAL will be pleased to hear of them.

PROHIBITED USES OF ZINC AND COPPER

So far as the architectural profession is concerned, the main difficulties will arise in respect of articles enumerated under the heading of "Architectural and Decorative Metal Work of all kinds (Internal and External)."

However, in addition to this list, there are certain other categories of prohibited articles which may affect the architect. For example: under the heading of "Household Appliances and Domestic Utensils," there are a few items, such as stair rods and fittings and curtain rails, the absence of which may involve some thought as to alternatives which might be used and the need to provide the appropriate fixings.

Under the heading of "Electrical and Gas Accessories and Appliances," there will evidently be a very serious restriction of the types and patterns available for such items as lighting reflectors, shades, galleries and shade carriers, suspension chains and ornamental lighting fittings of all types.

Under "General Galvanizing" there are a number of articles the prohibition of which is likely to be very harmful, for example: wall-ties, gutter brackets and nails. The life of any ungalvanized alternatives will be disproportionately short. It might be argued that paint or bitumen dipping would serve as a substitute for galvanizing but this will not stand scrutiny. These are, inevitably, handled roughly and the paint protection would be damaged in places which would be inaccessible when the articles are fixed. It is to be hoped that appropriate provision will be made for the exclusion of these articles from the order.

Similarly there is no effective substitute for zinc or copper sheet for certain types of flashing and it is again to be hoped that some reconsideration will be given to the prohibition of this item.

In his Press statement, the Minister of Supply stated that it had not been possible to consult all the manufacturing industries affected, before the provisional list was issued. It seems likely, therefore, that prompt and determined efforts, on the part of professional bodies and trade associations of the building industry, might persuade the Minister to omit from the order those items which cannot be satisfactorily or economically replaced by other materials.

The month's postponement of the commencement of the order (from Feb. 1 to March 1.) gives the building industry an opportunity to study the problem carefully and to make very strong representation to the Ministry before it is too late.

Prohibited uses of copper, zinc and/or copper alloys	Suggested alternatives	Remarks
Barrel bolts	Steel	Steel bolts not normally available in the patterns and qualities customary in the brass bolts.
Brackets	Pressed steel	—
Chains (sink and bath waste)	None	—
Cills	Revise details to make use of hardwood, concrete, etc.	—
Cornice coverings ..	Asphalte	Revise detail to provide more generous weathering, etc.
Damp courses	Reinforced bituminous membranes	Examine details for possibility of slipping or extrusion under certain conditions, and revise as necessary.
Door handles	Cast iron, plastic ..	Revise detail.
Draught excluders ..	Plastic, steel, iron ..	Choice heavily restricted in fixed patterns.
Drawer pulls		
Expansion joints	Reinforced bituminous membranes	Metal joints. Mainly only required in special cases and may represent a considerable hardship in such cases.
Flashings	No effective substitute can be visualised at the moment.	—
Floor plates and flooring strip	—	—
Glazing bars	Hardwood, aluminium ..	With appropriate revision in details.
Gutters and rainwater goods	Steel and iron (pressed or cast). Asbestos cement.	—
Handles	Plastic	—
Hinges	Steel	Corrosion problem here. Specify protection.
Hooks	Steel	—
Knobs other than external	Plastic	—
Plates (name, number and letter plates; kicking plates)	Plastic, where protection can be given from weather	—
Rails and railings ..	Steel and iron	—
Roofing sheets, except for essential repairs	No alternative strictly comparable. Revise roof type	—
Sash lifts	Pressed steel, plastic ..	—
Stays	Cast iron or steel pressings	A corrosion protection problem is involved.
Step treads	Revise details	—
Strips (e.g., for counter edges)	Plastic	—

Prohibited uses of galvanizing	Suggested alternatives	Remarks
Gutters	Cast iron, asbestos cement	Supply situation already difficult.
Gutter brackets	None effective	Presumably brackets will have to depend on paint protection—not very good in the long run.
Nails	None effective	Prohibition disastrous.
Tubes and fittings (other than water tubes)	None effective	For galvanized tube as used for various miscellaneous purposes, such as handrails, etc., substitutes would be costly and ineffective.
Wall ties	None effective	Prohibition disastrous.

The list of items above is an extract from the provisional list issued by the Ministry of Supply. The following items have been omitted, as they are used for so many different purposes, that it is impossible to make any general recommendations: clips, grilles, hangers, hasps, linings, plaques, rings, sheathing, and staples.

CURRENT MARKET PRICES OF MATERIALS

BY DAVIS, BELFIELD AND EVEREST, Chartered Quantity Surveyors

Rates of Wages last rose on July 3, 1950, and are now as follows:—

LONDON DISTRICT

Within 12 miles radius 3s. 0d. *Craftsmen.*

From 12-15, 2s. 11½d. *Labourers.*

LIVERPOOL and DISTRICT

.. .. . 3s. 0d. *Craftsmen.*

2s. 6½d. *Labourers.*

GRADE CLASSIFICATIONS

	A	A ¹	A ²	A ³
Craftsmen ..	2s. 10½d.	2s. 10d.	2s. 9½d.	2s. 9d.
Labourers ..	2s. 5d.	2s. 4½d.	2s. 4d.	2s. 3½d.

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

Prices vary according to quality and the quantity ordered.

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

CONCRETOR

Cements

	6 tons and over	In 80-ton freights F.A.S. Safe Wharf in River Thames London Area.
* Portland to B.S. 12 .. per ton	69/-	66/6
* Rapid hardening to B.S. 12 ..	75/-	72/6
† Aquacrete water repellent ..	100/6	
Snowcrete ..	(Minimum 1-ton lots) 241/6	(paper bags free)

Prices for Portland Cement include for delivery to Charing Cross.

* In non-returnable paper bags or jute sacks charged at 12/- net per ton or 8d. each net per bag in lots of less than 1 ton.

* In returnable jute sacks charged at the rate of 35/6 net per ton of cement or 1/9½ net per sack in lots of less than 1 ton. Credit on return at 1/6 net per sack.

* In returnable cotton sacks charged at 66/8 net per ton or 3/4 net per sack.

† Supplied in packages charged 12/- per ton extra.

Aggregate and Sands, etc. (Full Loads)

1½" Unscreened ballast to B.S. 882, Table 5 ..	per yard cube	16/4
½" (Down) Washed, crushed and graded shingle to B.S. 882, Table 2 ..	per yard cube	14/5
¾" Sharp washed sand to B.S. 882, Table 3 ..	per yard cube	16/9
Brick hardcore ..	per yard cube	6/3

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

Reinforcement

Home trade maximum basis price for mild steel rods to B.S. 785, ½" diameter and upwards, ex mills delivered to station or siding per ton £22 1 0

Extras for:—

Under ½" to ¾" diameter ..	per ton	15 0
Ditto ¾" and over ¾" diameter ..	per ton	£1 2 6
½" and over ½" diameter ..	per ton	£1 10 0
¾" and over ¾" diameter ..	per ton	£1 17 6
1" and over 1" diameter ..	per ton	£2 5 0
1½" and over 1½" diameter ..	per ton	£2 12 6
2" diameter ..	per ton	£3 0 0
Under ½" to ¾" diameter ..	per ton	£4 10 0

Fabric Reinforcement

16.35 lb. 9.32 lb. 4.71 lb. 1.83 lb.

Steel wire mesh fabric to B.S. 1221, Part A per yd. super. 6/0 3/6 1/9 1/1

BRICKLAYER

Common Bricks

Third stocks ..	per 1,000	112/8
Rough stocks ..	per 1,000	132/8
Mild stocks ..	per 1,000	184/8
Sand limes ..	per 1,000	89/-
Phorpro pressed Flettons ..	per 1,000	92/-

Facing Bricks

Hand-selected sand limes ..	per 1,000	124/-
Phorpro rustic Flettons ..	per 1,000	117/-
Stocks, first hard ..	per 1,000	219/8
Stocks, second hard ..	per 1,000	209/8
Southwater pressed sandfaced reds ..	per 1,000	233/6
Dorking pressed sandfaced multicoloured facings ..	per 1,000	202/6

BRICKLAYER—(continued)

Engineering Bricks

Lingfield engineering wirecuts ..	per 1,000	168/-
Southwater engineering No. 2 (second quality red pressed) ..	per 1,000	231/-
* Blue pressed bricks to B.S. 1301 ..	per 1,000	336/-

* Haulage extra

Glazed Bricks

	Best quality	Seconds
	£ s. d.	£ s. d.
White, Ivory or Brown, 9" × 2½" × 4½"		
Headers ..	per 1,000 39 10 0	37 10 0
Stretchers ..	per 1,000 40 0 0	38 0 0

Prices for glazed bricks + 27½% seconds.
+ 32½% bests.

Limes and Sands

	1 ton lots.
	per ton
† Lime, greystone, to B.S. 890 ..	50/6
† Lime, chalk, ditto ..	90/6
* Lime, hydrated, ditto ..	99/6
Washed pit sand to B.S. 1200 ..	per yard cube 16/9

* Including paper bags.

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

Sundries

10 s.w. gauge galvanized butterfly type wall ties to B.S. 1243 ..	per 1,000	87/3
Wall ties, galvanized, 8" × ½" × ½", to B.S. 1243 ..	per cwt.	72/9
Damp proof course slates: Imported Welsh		
Size 14" × 9" ..	per 100	53/- 72/6
.. 14" × 4½" ..	per 100	25/9 34/6
Hessian base bitumen damp course to B.S. 743 ..	per yard super	4/11
Terra-cotta airbricks ..	each	1/1 2/2 5/3
Galvanized cast-iron airbricks ..	each	2/7 4/5 6/8
Galvanized cast-iron hit-and-miss ventilators ..	each	2/6 4/10 6/3
Buff terra-cotta chimney 1' 0" 1' 6" 2' 0" 2' 6" 3' 6" 5' 0" pots ..	each	5/9 7/1 10/1 13/2 29/3 49/4
Wall reinforcement supplied in standard rolls containing 25 yards lineal		
12" wide black japanned ..	per roll	3/-
12½" wide black japanned ..	per roll	3/9
† Greater widths pro rata 2½" price, carriage paid on orders of £7.		
Discount for quantities.		

Partitions, etc.

	2"	2½"	3"	4½"
	per yard super	per yard super	per yard super	per yard super
Breeze to B.S. 492 ..	3/2	3/8	4/2	5/6
Hollow clay to B.S. 1190 (keyed) (S25) ..	3/5	3/8	4/4	5/4
Moler (keyed) ..	7/6	9/3	10/3	11/6

PAVIOR

2" coarse gravel for paths ..	per yard cube	17/6
½" fine ditto ..	per yard cube	19/-
Clean granite chippings to B.S. 1201, Table 4 (in 5-ton loads) ..	per ton	37/6
Red quarry tiles, 6" × 6" × ½", to B.S. 1286 ..	per yard super	11/6
Ditto 6" × 6" × ½", to B.S. 1286 ..	per yard super	10/-
Buff quarry tiles 6" × 6" × ½", to B.S. 1286 ..	per yard super	13/6
Ditto 6" × 6" × ½", to B.S. 1286 ..	per yard super	11/-
Hard red paving bricks, 2" ..	per 1,000	336/9
Ditto 1½" ..	per 1,000	319/9



“Now if I’d designed
the new
House of Commons...

*I, too, would have put in ‘Falkirk’
Heavy Duty Cooking Equipment”*

SIR CHRISTOPHER WREN, it is recorded, was drawn up in a basket several times a week to inspect the progress of the building of St. Paul’s, the cost of which amounted to £747,661.10.0. precisely. Such an acute and omniscient brain could not fail to appreciate the practical and lasting qualities of the ‘Falkirk’ appliances which completely equip the Press Gallery kitchen in the new House of Commons. ‘Falkirk’ are unchallenged experts in community catering. The Company has specialised for many years in strong, durable yet simple cooking appliances designed for gas, steam, electricity, solid fuel and oil. ‘Falkirk’ installations are used and praised throughout the world.

‘FALKIRK’ SERVICE FOR CATERERS

Catering problems differ, but there is always one right way and many wrong ways of laying out the kitchens, whether in industrial and factory canteens, hotels, hospitals, restaurants, clubs or cafés. When asked, ‘Falkirk’ supply individual plans, worked out by their own experts in the light of their long and varied experience. There are ‘Falkirk’ representatives all over Britain to provide suggestions, supervise installation, inspect and carry out maintenance, when once the kitchens are in actual use.

A comprehensive catalogue of ‘Falkirk’ Heavy Duty Cooking Equipment is available to architects and other interested persons, upon request.



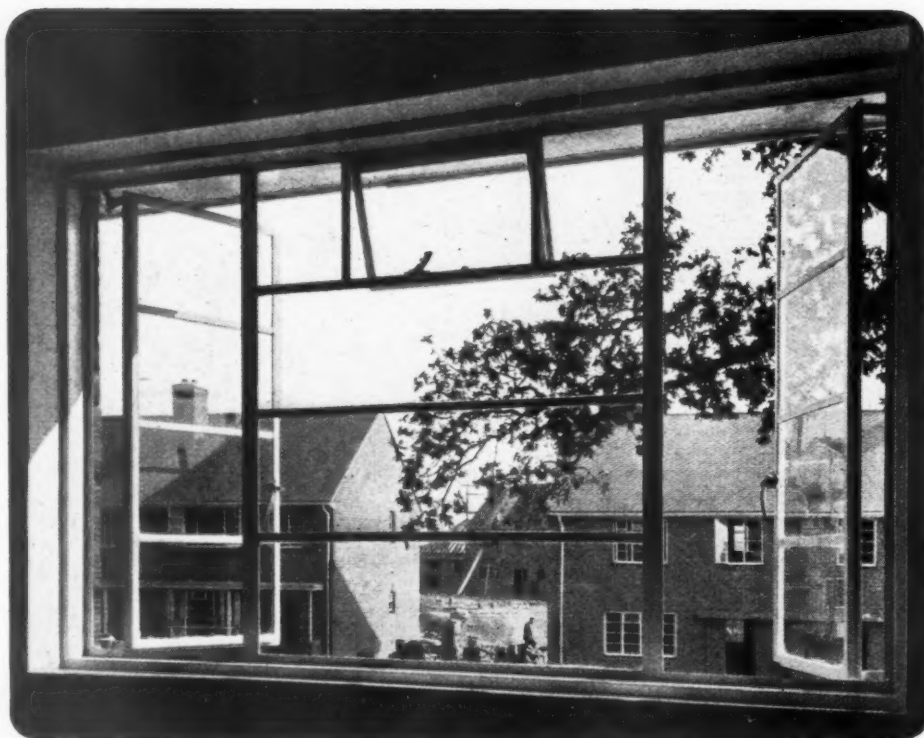
THE FALKIRK IRON CO. LTD., FALKIRK, SCOTLAND 

MORTIMER HOUSE, 37-41 MORTIMER ST., LONDON, W.1.

LILLIES CHAMBERS, ALBION ST., LEEDS

18 LEIGH ST., LIVERPOOL TRADE MARK

(PROPRIETORS: ALLIED IRONFOUNDERS LIMITED)



THE MODERN WINDOW

*is fitted with friction hinges
has no stay to clutter the cill
never slams : will not corrode*

HOPE'S

HENRY HOPE & SONS LTD., Smethwick, Birmingham, & 17 Berners St., London, W.1

DRA

Pipes i

Second
Best Q
British
Tested
British

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DRAINLAYER

Clay Land Drain Pipes to B.S. 1196

Pipes in 12" lengths	3"	4"	6"
per 1,000	151/-	195/-	404/-

Salt Glazed Stoneware Pipes and Fittings

	Orders for 2 tons and over	Standard List +	
		Orders under 2 tons 100 pieces upwards	Orders under 2 tons less than 100 pieces
Seconds Quality	35% less	55% less	65% less
Best Quality	15%	15%	15%
British Standard Quality	42½%	62½%	72½%
Tested Quality	60%	80%	90%
British Standard Tested	67½%	87½%	97½%

Cast Iron Drain Pipes and Fittings

Socket and spigot pipes to B.S. 437:—	Weight per 9 ft	Size	9 ft.	6 ft.	4 ft.	3 ft.	2 ft.
			per yd.	per yd.	each	each	each
1	1	17	4"	16/8	18/4	29/4	22/5
2	0	1	6"	24/11	29/5	47/1	37/7
3	3	21	9"	45/-	58/8	101/2	77/3

Tonnage Allowances:—

Orders up to 2 tons nett.

*Bends (short radius) as Fig. No. 4	each	4"	6/3	13/-	40/-
*Single junctions as Fig. No. 18	each	6"	11/-	22/6	69/-
*Intercepting traps as Fig. No. 33	each	9"	30/-	50/-	123/-
*Gullies ordinary trapped "P"	each		14/6		
*Extra for 4" vertical back inlet	each		4/3		
*Grease gully trap	each		121/-		

* These prices are subject to 86% plusage.

Channels in Brown Glazed Ware.

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

White Glazed Channels

Orders under 20 pieces. Standard list + 12½%.

Manhole covers and frames

	Size of load	Unit price
C.I. coated double triangular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade A	35 tons	112/9
C.I. coated circular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade B	5 tons	61/6
	Size of load	Single seal Double seal Flat type Flat type
Coated manhole cover and frame to B.S. 497, Grade C, 24" x 18"	1 ton	29/8 44/-
Galvanised ditto, 24" x 18"	1 ton	51/5 73/6
Coated manhole cover and frame, to B.S. 497, Grade C, 24" x 24"	1 ton	42/4 64/4
Galvanised ditto, 24" x 24"	1 ton	75/11 109/8

ASON

Yorkstone

Building quality Robin Hood and Woodkirk Blue Stone.

Blocks scrapped, random sizes	per foot cube	8/11
Add for blocks to dimension sizes	per foot cube	1/1 (each dimension)
Templates with sawn beds, edges rough (up to 4 ft. super and not over 2' 6" long)	per foot cube	10/-
Templates with sawn beds, sawn one edge, per foot cube		11/6
Price f.o.r. Yorkshire, railway rate to London Station per ton. (Minimum 4-ton loads)		45/-

Bath Stone in random blocks

Monk's Park	per foot cube	5/7
St. Aldhelm Box Ground	per foot cube	6/7
Delivered on rail at South Lambeth station.		

Portland Stone in random blocks, average 20 feet

Whitbed	per foot cube	6/4½
Delivered on rail at Nine Elms Station.		

MASON—(continued)

Artificial Stone to B.S. 1217

4½" x 4" Sill, sunk, weathered, throated and grooved	per foot run	2/8
9" x 3" Ditto	per foot run	3/8
2" x 12" Coping, weathered and twice throated	per foot run	3/4
3" x 12" Ditto	per foot run	5/-
5" x 12" Saddleback coping, twice throated	per foot run	7/9
6" x 12" Ditto	per foot run	8/9

SLATER, TILER AND ROOFER

Slates

16" x 10" Best Bangor Slates to B.S. 680	per 1,000 actual	£ 46 5 0
20" x 10" Ditto	per 1,000 actual	£ 67 15 0

Tiles

Hand-made sandfaced 10½" x 6½" red roofing tiles	per 1,000	250/-
Machine-made sandfaced best red tiles with continuous ribs, 10½" x 6½"	per 1,000	215/-
Berkshire hand-made red Pantiles, 14½" x 10"	per 100	104/6
Concrete plain tiles, 10½" x 6½"	per 1,000	141/-
Ditto interlocking tiles, 15" x 9"	per 1,000	480/-

Asbestos-cement

*6" corrugated sheets, grey	per yard super	5/6½
*Prices are for minimum two-ton loads, and are subject to 2½% discount.		

Felt

Reinforced roofing felt to B.S. 747	per yard sup.	1/4½
Roofing felt (1-ply bitumen) to B.S. 747, Part I	per yard sup.	1/1½
Bituminous hair felt to B.S. 747, Part II	per yard sup.	2/1½

CARPENTER AND JOINER

Wall boards

½" Imported Fibre board (per 100 sq. ft.)	Up to 5,000 sq. ft.	5,000 to 15,000 sq. ft.
	31/3	29/6
½" Imported Hard-board (per 100 sq. ft.)	40/6	45/-
¾" Imported Hard-board (per 100 sq. ft.)	62/6	61/3
* ¾" Semi compressed asbestos cement flat building sheets, grey	per yard super	2/0½
* ½" Ditto	per yard super	2/10½
* Prices are for orders of 2 tons and over. Subject to 5% trade discount.		

Sundries

"Sisalkraft" standard grade	per yard sup.	-8½
"Sisalkraft" subsoil grade	per yard sup.	-5

Timber

Softwood for Carpentry (average price)	per std.	£75
Softwood for Joinery (ditto)	per std.	£80
Tongued and Grooved Softwood Flooring (ditto)	per std.	£78
First Quality English Oak (ditto)	per ft. cube	25/-
Teak (ditto)	per ft. cube	45/-

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

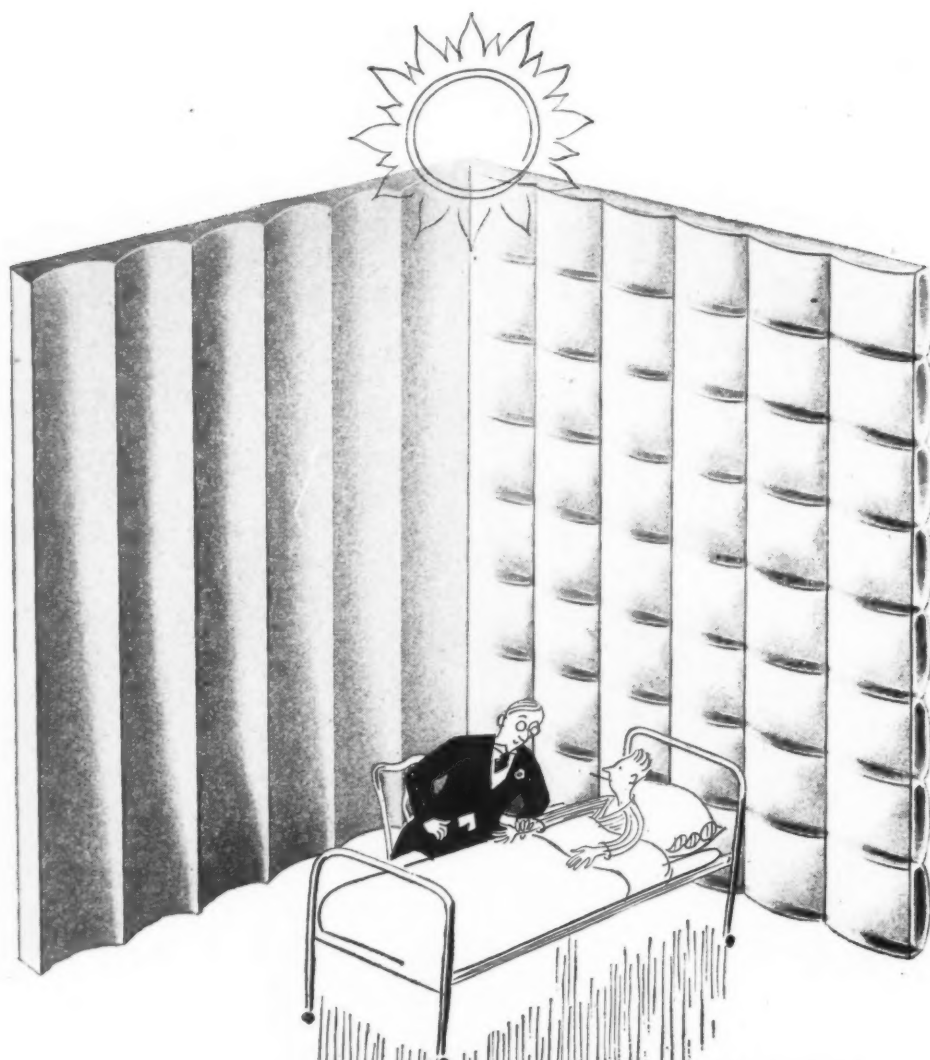
Type 4	size 2' 6" x 6' 6" x 1½"	each	42/10
Type 2 x G	size 2' 6" x 6' 6" x 2"	each	51/6
Type 4 x G	size 2' 6" x 6' 6" x 2"	each	57/9
In lots of from 1 to 11 inclusive.			

Standard E.J.M.A. Wood Windows

INP 26	size 2' 6" x 1' 5½"	each	32/6
4V 36	size 3' 6" x 7' 10"	each	140/7
IV 40	size 4' 0" x 2' 2½"	each	39/9
3T 46	size 4' 6" x 5' 11½"	each	140/5
4T 50	size 5' 0" x 7' 10"	each	159/11

Standard E.J.M.A. Kitchen Units

No. 1	size 3' 0" x 3' 6" x 1' 7"	each	189/4
No. 2	size 3' 0" x 3' 6" x 1' 7"	each	128/8
No. 4	size 3' 0" x 1' 9" x 1' 7"	each	114/9
No. 5	size 3' 10" x 1' 9" x 1' 7"	each	100/2
No. 7	size 6' 6" x 1' 9" x 1' 7"	each	189/10



health through GLASS

Will the hospital of the future be built entirely of glass, like some gigantic green-house? . . . More and more glass is being used in hospital construction inside and out. Much of it is coming from Chance Brothers. The classically simple lines of Chance Reeded and Reedlyte Glasses offer opportunities for large-scale partitioning and interior design in almost every kind of modern building. From the practical point of view, they are exceptionally white and allow the maximum passage of light while ensuring a high degree of privacy. Both surfaces are smooth and free from crevices, easy to keep clean.



CHANCE REEDED

- Narrow Reeded ($\frac{1}{8}$ in. ribs)
- Broad Reeded ($\frac{1}{4}$ in. ribs)
- Major Reeded ($1\frac{1}{8}$ in. ribs)
- Cross Reeded ($\frac{1}{2}$ in. ribs)

CHANCE REEDLYTE

A stipple-finish version of Reeded to give increased obscuring power.

- Narrow Reedlyte ($\frac{1}{8}$ in. ribs)
- Broad Reedlyte ($\frac{1}{4}$ in. ribs)

The maximum size of the above glasses is 100 in. x 42 in.

Free samples of glass and detailed literature will be forwarded on request.

FOR SCIENCE, INDUSTRY AND THE HOME

CHANCE BROTHERS LIMITED, Glass Works, Smethwick 40, Birmingham. Telephone: West Bromwich 1051.
LONDON OFFICE: 28 St. James's Square, London, S.W.1. Telephone: Whitehall 1603. Branch Works at Glasgow, St. Helens and Malvern.

STEEL AND IRONWORKER

Basis price for rolled steel joist sections, 5" x 4 1/2" x 16" x 6" in 10 ft. to 50 ft. lengths....	ex mills per ton	20	13	6
Extra for sizes :—				
9" x 7" .....	.....	.....	.....	.....
6" x 3" .....	.....	.....	.....	.....
3 1/2" x 3 1/2", 4" x 4", 5" x 3", 10" x 8", 12" x 8", 14" x 8", 16" x 8", 18" x 6", 18" x 7", 18" x 8", 20" x 6 1/2", 20" x 7 1/2" .....	.....	.....	.....	.....
5" x 2 1/2", 22" x 7" .....	.....	.....	.....	.....
4" x 2 1/2", 4" x 3", 24" x 7 1/2" .....	.....	.....	.....	.....
3" x 3" .....	.....	.....	.....	.....
4 1/2" x 1 1/2" .....	.....	.....	.....	.....
4" x 1 1/2" .....	.....	.....	.....	.....
3" x 1 1/2" .....	.....	.....	.....	.....
Basis price for angles	ex mills per ton	19	13	6
" " " tees .....	.....	.....	.....	.....
" " " solid steel columns .....	.....	.....	.....	.....

All delivered Station or Siding.

PLASTERER

Plaster and Cement		1-ton loads	6-ton loads	
Thistle (browning) to B.S. 1191, Class B	per ton	123/9	105/3	
Gypstone to B.S. 1191, Class B	per ton	80/6		
Paristone (haired) to B.S. 1191, Class B	per ton	83/-		ex Works,
Ditto (unhaired)	per ton	80/6		Kent.
Sirapite (coarse) to B.S. 1191, Class C	per ton	117/9	96/3	
Ditto (fine) to B.S. 1191, Class C	per ton	125/9	104/3	
Keene's Pink to B.S. 1191, Class D	per ton	166/9		
Keene's White to B.S. 1191, Class D	per ton	172/3		
Cullamix (Tyrolean Finish), 1-ton lots and upwards	per ton from	161/-	to 194/6	
Sundries				
Sharp washed sand to B.S. 1198	per yard cube	16/9		
Cow Hair	per cwt.	84/6		
Expanded metal lathing, 9' 0" x 2' 0" x 3/8" mesh x 24 gauge	per sheet	5/4		
1' Plasterboard (base board)	Up to 149 yards	150-299 yards	300-599 yards	Over 600 yards
per yard super	2/3 1/2	1/11 1/2	1/10 1/2	1/9 1/2
Galvanized lath nails	per cwt.	106/3		
Hessian Scrim cloth in 100-yard rolls, 3 1/2" wide	per roll	6/8		

Wall Tiles

The following prices are subject to 12 1/2 per cent. addition :			
Standard quality white glazed 6" x 6" x 1/2"	per yard super	18/6	
Cream glazed 6" x 6" x 1/2"	per yard super	20/6	
Eggshell or glossy glazed 6" x 6" x 1/2"	per yard super	26/3	

PLUMBER

Lead and Copper

3 1/2 lb. and upwards milled sheet lead in quantities of 5 cwt. to 1 ton in sheets to B.S. 1178	per cwt.	157/3
Allowance for old lead delivered to merchant or manufacturer	per cwt.	123/9
Hot rolled copper sheeting in 5-cwt. lots (4' x 2' sheets), to B.S. S09	23 wire gauge	per cwt. 270/-
Ditto	24 wire gauge	per cwt. 273/-
Zinc sheeting in 2-cwt. lots	14 gauge	per cwt. 170/9

Cast Iron Goods

Percentage Adjustment on List No. 3100 A.B. 1/2/40.

Rainwater Goods (painted or unpainted)	Plus 75%
Soil goods (coated or uncoated)	Plus 75%

Mild Steel Rainwater Goods

	Standard List
Gutters (under 100 lengths)	Less 17 1/2% + 5%
Pipes and Fittings (" ")	Less 17 1/2% + 5%

Asbestos-Cement Rainwater Goods

The following prices are subject to 12 1/2% trade discount.
Orders over £30 are subject to 17 1/2% trade discount.

PLUMBER—(continued)

Rainwater Pipes.

Prices are for 6' 0" lengths, but 10' 0" lengths are available in 2", 2 1/2", 3" and 4" diameters at same prices. Short lengths up to 2' 0" are charged as 1 yard. From 2' 0" to 4' 0" charged as 1 1/2 yards. From 4' 0" to 6' 0" charged as 2 yards. Over 6' 0" charged as 10' 0"

	2"	2 1/2"	3"	4"	6"
Round Pipes	2/8	3/-	3/7	4/11	10/2
per yard run					

Gutters.

Short lengths of gutter up to 2' 0" charged as 1 yard; from 2' 0" to 4' 0" as 1 1/2 yards, and over 4' 0" as 2 yards.

	3"	4"	4 1/2"	5"	6"	8"
Half round gutters	1/11	2/3	2/4	2/9	3/10	4/9
per yard run						
Ogee gutters per yard run	—	2/9	3/-	3/7	4/5	5/7

INTERNAL PLUMBER

Lead pipe in coils, 5 cwt. and upwards, to B.S. 602	per cwt.	158/6
Lead soil pipe	per cwt.	161/6
Drawn lead traps with brass screw eye, 6 lb., to B.S. 504		
S. trap	each	1" 11" 1 1/2" 2"
P. trap	each	6/- 7/- 8/8 12/6
Extra for 3" deep seal "S" trap	each	5/3 5/9 7/2 10/-
Extra for 3" deep seal "P" trap	each	1/5 1/8 1/11 2/5
	each	1/- 1/3 1/3 1/8

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

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

Tubes :	1/2" to 4"	Fittings :	
Class B	36 1/2%	Lightweight	17 1/2%
" C	27%	Heavyweight	10%
Galvanized Class B	8 1/2%		
" C	plus 4 1/2%		
Flanges :	1/2" to 2"	2 1/2"	3" to 4"
Lightweight (Table D)	4 1/2%	37 1/2%	51 1/2%
Heavyweight (Table E)	Plus 14 1/2% less	27 1/2%	42 1/2%
Copper tubing to B.S. 659 and 1386	Basic price	per lb.	1/11 1/2

GLAZIER

Sheet Glass, cut to size (ordinary glazing quality), to B.S. 952, Section A.
For quantities exceeding 500 ft. super.

18 oz.	per foot super	4 1/2d.
24 oz.	per foot super	5 1/2d.
32 oz.	per foot super	9 1/2d.

Polished Plate glass, ordinary substance, approximately 1/2", to B.S. 952, Section A.

In plates not exceeding :	Glazing quality	Selected glazing	Silvering quality
2 ft. super	2/8	2/10	3/4
3 ft. super	3/-	3/5	4/1
5 ft. super	3/2	3/10	4/7
*45 ft. super	3/9	4/1	5/7
*100 ft. super	4/5	5/7	7/2

* Extra sizes, i.e., plates exceeding 100 ft. super or 160 in. long, or 96 in. wide, at higher prices.

1/2" figured rolled and cathedral, to B.S. 952, Section B—untinted	per foot super	7 1/2d.
1/2" or 1/4" rolled plate, " "	per foot super	8 1/2d.
1/2" or 1/4" rough cast, " "	per foot super	8 1/2d.
1/2" Georgian wired cast, " "	per foot super	10d.
1/2" Georgian wired polished plate, " "	per foot super	3/10d.
1/2" wired cast, " "	per foot super	9 1/2d.

PAINTER

White ceiling distemper	per cwt.	24/6
Washable distemper	per cwt. from	90/-
Ready mixed white lead paint (best), semi-gloss, per 32 lb.	per gallon	55/6
Aluminium paint (best quality)	per gallon	32/-
White enamel paint	per gallon	45/-
Oil stain (scumble)	per lb.	3/6
Varnish (outside quality), copal oak	per gallon	30/-
" " general oak	per gallon	26/-



Reception room, Standard Motor Co. Ltd., Coventry.

Well-designed Welcome . . .

The comfort of the visitor was the first consideration in planning the decor of this lofty and well-equipped reception room. An all-important factor contributing to the atmosphere of welcome is the flooring which is of Semastic Decorative Tiles.

These high-quality tiles are made in both plain and marbled colours, the range of which offers every opportunity for individuality in treatment and for colour harmony or contrast. The tiles are easy to clean and to maintain, and their original freshness

of appearance can be retained indefinitely despite continual use.

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Decorative Tiles

A Product of

A DUNLOP COMPANY

INSTALLATION SERVICE

Country wide installation service is provided by the following leading floor laying specialists who represent the highest standard of experience and workmanship available in the country.

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|--|-----------------------------|---|------------------------------------|
| ● ALBA FLOORING CO. LTD. | ● J. A. HEWETSON & CO. LTD. | ● HOLLIS BROS. LTD. | ● HORSLEY SMITH & CO. (HAYES) LTD. |
| ● PILKINGTON'S ASPHALTE CO. LTD. | ● SEMTEX LTD. | ● THE LIMMER & TRINIDAD LAKE ASPHALT CO. LTD. | |
| ● THE PENMAENMAWR & TRINIDAD LAKE ASPHALT CO. LTD. | | ● THE WESTERN TRINIDAD LAKE ASPHALT CO. LTD. | |

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.

INFORMATION CENTRE

14.36 materials: concrete CONCRETE FINISHES

Colour and Texture in Concrete Surfaces. J. G. Wilson. (Reinforced Concrete Review, July, 1950.)

General discussion and notes on various methods of obtaining colour and texture. Illustrated. Interesting discussion on paper is fully reported.

This rather brief paper gives some useful indications of present day possibilities for obtaining texture and colour in precast concrete units. Exposed aggregate, scraped finishes, tooled surfaces, acid treatment and textured mould linings are all described. A fairly lengthy discussion of the paper adds interesting information. Not an exhaustive study of the subject but a good quick review.

15.82 materials: applied finishes and treatments FLOOR FINISHES

Floor Finishes for Houses. National Building Studies No. 11. (HMSO, 1950. 1s.)

Requirements. Notes on available types. Precautions and limitations. Maintenance. Table of comparative properties. Table of costs and availability (May 1949). Lists of BS and BS Codes. Notes on damp courses under floors.

The cost and scarcity of timber has led to a widespread search for alternative types of floor finish. This Bulletin discusses the essential requirements under headings of appearance, cleanliness, wear, indentation, durability, comfort, quietness, slipperiness and tread as an introduction to notes on all common types of flooring. While the notes are useful up to a point the amount of experience available on some of the newer forms is insufficient for definite pronouncements to be made. The result is that the whole Bulletin leaves a general impression of vagueness. This is to some extent overcome by a table listing the various finishes with gradings from very good to very poor under the headings of cleaning, indentation, wear, warmth to touch, quietness and non-slip characteristics. Another appendix deals with costs and availability but it is unfortunate that this refers to conditions in May, 1949. Surely such information could have been made a little more up to date.

There is an appendix listing all relevant British Standards and Codes of Practice which forms a useful reference and finally there is another appendix giving useful notes on damp-proof membranes.

19.104 construction: details REPAIR OF PLASTER CEILING

Notes on the Repair and Preservation of Decorated Plaster Ceilings. (J. F. S. Jack. RIBA Journal, Sept., 1950.)

Notes based on experience of MOW Historic Buildings branch. Specialist interest but useful. Illustrated by sketches.

Tricky problems arise in most types of repair work, and advice from a member of the Historic Buildings Branch of the MOW should be welcomed by all those who, without having the same background of experience, meet such cases. This article discusses some typical problems and gives useful descriptions of recommended treatments, together with good explanatory diagrams. Most of the suggestions only involve using ordinary care and common sense but it is helpful, nevertheless, to know that these simple methods are those which the experts actually employ.

23.138 heating and ventilation DESIGN OF SKIRTING HEATING INSTALLATION

Practical Baseboard Heating. Charles H. Burkhardt. (Plumbing and Heating Journal [USA], Sept., 1950.)

First article of a series on the design of baseboard heating installations.

In view of the considerable interest being taken in this country in baseboard heating—to us, skirting heating—this article may be of value.

The major advantage of such an installation is the good heat distribution: heat is provided round the perimeter of the cold outside wall, the point of greatest loss. Skirting heaters should therefore cover as much of the outside wall as possible, using a type with a low emission per lineal foot where necessary to achieve this. Where necessary, ordinary radiators or convectors may be used to supplement skirting heating: alternatively, skirting heaters may supplement radiators, e.g. beneath large windows. A well-designed system should give a small floor-to-ceiling temperature gradient, usually about 2°F.

Skirting heaters may be of the radiant panel type or may include convection surfaces to increase output: they are available in different heights. Typical heating surfaces, per foot run, are:

Radiant Type—1.75 to 2.9 square feet.

Convector Type—2.6 to 5 square feet.

(Emission in the USA is based on a temperature of 215°F., giving 240 B.th.U's per square foot per hour: in this country, lower temperatures are usual, and a more usual figure for emission is 160 B.th.U's/sq. ft./hr.).

When installing skirting heaters, if cracking of plaster is to be avoided, it is important to provide for expansion. For radiant types, $\frac{1}{4}$ in. per 10 ft. run should be allowed.

24.146 lighting TELEVISION LIGHTING

Visual and Lighting Problems of Home Television. E. W. Commer. (Illum. Engineering [USA], July, 1950, p. 433.)

Formation of picture, size; viewing distance and tone range; filters, lenses; surrounding. Good.

The remarks about the formation and size of the television picture are more useful to makers of sets than to users; the conclusion is that the 10-in. tube is about the minimum giving satisfaction. Viewing distances should be about ten times the diameter of the tube, plus about 2 ft., with greater distances when viewing for long periods. At such distances separate lines should fuse.

Filters will give flexibility in viewing under the full range of daylight to darkness, but not until tubes are brighter than at present. Lenses offer immediate advantages in size and flatness but limit the good viewing positions.

People feel that they can see cinema or television pictures better in darkness, and, of course, there are then fewer distractions.

But cinema conditions are not paralleled in the home; television pictures are, in reality, brighter than cinema pictures, and much lighter surroundings can be used. Discomfort is near minimum when the background appears about as bright as the screen, but it should not be brighter. Lamps lighting the foreground and other surroundings should be well screened or have very low brightness shades. It is desirable to have surroundings lit well enough for the eyes to wander easily, otherwise there will be strain in long-period viewing. But nothing should be brighter than the picture.

The author says nothing of set-design to improve the picture. Grey picture-surrounds are general, of course, but the usual silhouette frame of dark wood seems an unpromising thing from the point of view of comfort.

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

ENQUIRY FORM

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

Please ask manufacturers to send further particulars to:—

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A.J. 25.1.51



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INFORMATION
SHEETS

18.F1 REFERENCE BACK

Readers are asked to note the following revision and to amend their copy of the Information Sheet in question:

The address of the Flooring Department, Armstrong Cork Company, is now: Bush House, Aldwych, London, W.C.2.

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AND TABLE TOPS
CUBICLE UNITS
REFRIGERATORS**

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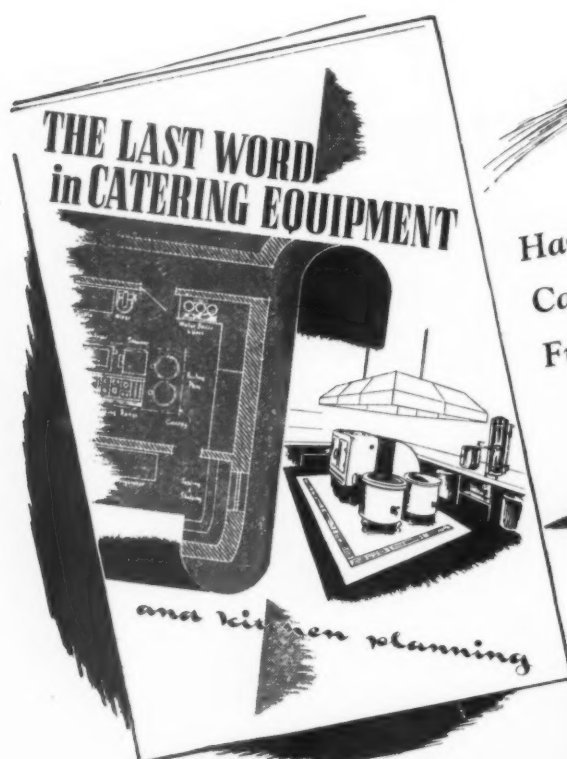
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THE INDUSTRY

By Brian Grant

PLASTERBOARD DATA

ICI have just issued a booklet on Pioneer plasterboard which conveniently summarizes the essential data about wallboard, baseboard, lath for plaster finish, and insulating plasterboard. It includes notes on the sizes in which the various grades are produced, methods of fixing and finishing, and some useful hints on preventing damage during storage and handling. The insulating grade has a sheet of bright metal foil stuck to one face for reflection, and it is interesting to note that if this foil is properly bonded and earthed it provides an effective screen against electrical interference on radio and television sets. Similarly, it can also be used as a radio aerial, provided that it is insulated from the wall or ceiling structure. (ICI Ltd., Nobel House, 2, Buckingham Gate, London, S.W.1.)

GYPSUM INSULATION

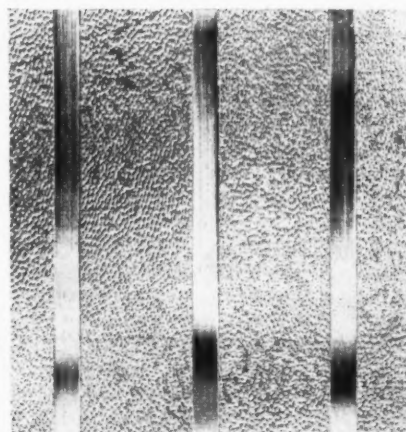
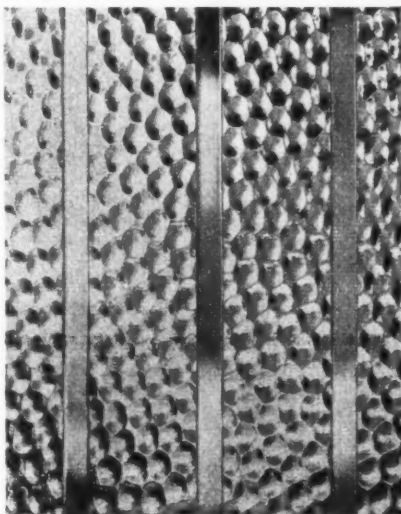
Mention of gypsum plasterboard reminds me that Plaster Products, of Greenhithe, are marketing a loose insulating fill for ceilings and walls under the name of Thermafil. The ordinary roof of tiles on felt, plus a conventional ceiling, gives a transmission factor of 0.43, and it is claimed that a 2-in. thickness of Thermafil between ceiling joists will reduce this figure to 0.15; on a roof of 500 sq. ft. this should mean an annual saving of just over $\frac{1}{2}$ ton of coal. Weighing 20 lb. per cubic foot, a ton of Thermafil will cover about 760 sq. ft. of roof space at a thickness of 2 in. The material is tipped between the joists, starting at the eaves, and screeded to the required thickness with a notched batten; but before starting it is important to make sure that the wind cannot penetrate at the eaves. Thermafil can also be used as an insulating fill for walls lined with sheet materials on battens. (Plaster Products (Greenhithe) Ltd., Greenhithe, Kent.)

INDUSTRIAL ADHESIVES

I have already referred in these notes to the remarkably interesting monthly bulletins published by Aero Research Ltd. Simply and clearly written, they often deal with some current production method in which synthetic adhesives are used for assembly purposes, and provide a very good idea of what can be done nowadays with these useful materials. This firm has now published a booklet, *Adhesives for Industry*, which summarizes the essential characteristics of the various thermosetting adhesives and also contains some informative notes on metal bonding with Redux and Araldite.

The introduction of synthetic resin glues has influenced, first of all, the woodworking industries, but many other materials, such as metals, glass and ceramics, can also be bonded; metal to metal bonds, for example, using the Redux process, are accepted for the load-carrying structure of aircraft, and are also used for light engineering products, such as sinks and furniture.

Most of the adhesives described fall under the general heading of "separate applica-



Two new obscured glasses by Pilkington Bros. Left, Hammerstripe; above, Pinstripe.

tion," in which the setting of the resin is accelerated by a separately applied hardener or catalyst; but there are many different grades of each, to be used according to the type of joint to be made. Note in particular the "gap-filling" types, for use when machining errors in timber with uneven shrinkage must be allowed for, or where the shape of joint makes it difficult to apply a clamp. A useful publication to be kept for reference. (Aero Research Ltd., Duxford, Cambridgeshire.)

TWO NEW OBSCURED GLASSES

Pilkingtons have just announced two new figured rolled glasses (illustrated above) known as Hammerstripe and Pinstripe. The diffused light transmission of both types is 82 per cent., and so far as their diffusion and obscuration powers are concerned, they correspond closely to their own parent patterns, No. 3 Hammered and Pinhead Morocco. (Pilkington Bros. Ltd., St. Helens, Lancs.)

LIGHT FITTINGS

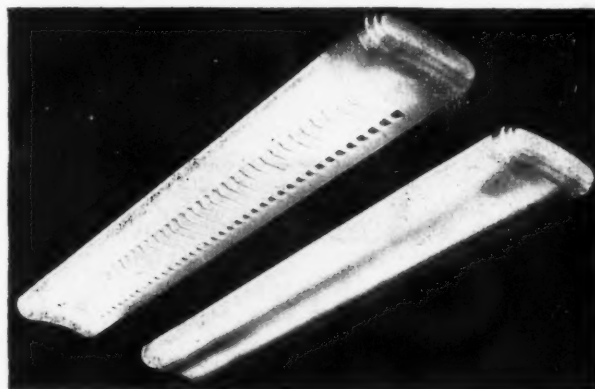
The photograph below shows two versions of a new Atlas lighting fitting which houses a pair of 80-watt fluorescent lamps. Although the control gear and chassis are the same, the Perspex diffuser is available either in a louvred or in a clear reeded pattern; with opal Perspex end caps and a shallow chassis, the fitting is remarkably free from end patches or shadows on the ceiling above. The louvred design is suggested for showrooms and high level display lighting, while the reeded type is put forward as being more suitable for libraries, banks or similar public buildings. Both ordinary starter switch and quickstart systems of control are standard-

ized and prices (not including lamps) vary from £21 3s. 6d. plus £3 13s. 2d. purchase tax to £23 plus £3 18s. (Thorn Electrical Industries Ltd., 105, Judd Street, London, W.C.1.)

ALUMINIUM IN BUILDING

The latest publication by the ADA deals with the use of aluminium alloys in structural engineering and illustrates a number of familiar examples, the Vascule bridge at Sunderland, the Clunie and Saguenay River bridges, and, of course, the Dome of Discovery. In dealing with a subject of this kind, the explanatory notes are necessarily somewhat brief, but aluminium alloys are considerably easier to work than steel, and aluminium rivets are now produced in diameters up to $\frac{1}{2}$ in., and are driven cold. In the larger sizes it is permissible to use hot driven steel rivets provided that the temperature of the plate or section does not rise above 200°C. The question of corrosion is briefly touched upon and it is pointed out that steel nuts or bolts should be galvanized or cadmium plated, and that the aluminium should receive a coat of bituminous paint if it is to be in contact with any alkaline material, such as lime. (The Aluminium Development Association Ltd., 33, Grosvenor Street, London, W.1.)

Another publication issued recently comes from T.I. Aluminium. This is intended, firstly, as a general guide to those unfamiliar with the general properties of aluminium and its alloys, and secondly, as a simple handbook dealing with commercial specifications, mechanical properties and points on the various fabrication techniques with which the designer should be familiar. (T.I. Aluminium Ltd., Redfern Road, Tyseley, Birmingham 11.)



New Atlas fluorescent lighting fittings with two types of Perspex diffusers.

Buildings Illustrated

Factory for Aspro (Ireland) Ltd., at Inchicore, Dublin, Ireland. (Pages 127-132.) Architect: Alan Hope, B.A.R.C.H., M.R.I.A.I., A.R.I.B.A., A.M.T.P.I. Quantity Surveyor: Beckett and Metcalf. Consulting Engineer: J. P. Tierney & Co. General Contractor: T. and G. Crampton Ltd. Sub-contractors: Steelwork to tower, boiler house, etc., hand-rail circular stairs, balustrading, J. & C. McGloughlin; terrazzo Accotile tiling, door frames, partitions, Verso Bros.; heating, M. Hall Ltd.; electricians, Gallagher Bros.; lift, G. Johnson; shutters, fixing, E. G. Dwyer; rubber floors, The Irish Dunlop Co.; sewerage disposal, Tuke & Belk, faience, Hathenware; patent glazing, Glaslok Ltd.; asphalt, South of Ireland Asphalte Co.; blinds, McGrath Bros.; Ruberoid, S. P. Glorney; radiator covers, doormat frames, Thos. Dockrell; woodblock flooring, J. J. O'Hara.

Combined Government Office Building, Uxbridge Road, Rickmansworth, Herts. (Pages 124-126.) Architect: G. W. Pollard, A.R.I.B.A., of the Chief Architect's Division, Ministry of Works, London. General Contractor: Y. J. Lovell & Son Ltd. Sub-contractors: Bricks, Henry J. Greenham Ltd.; stone, Bath & Portland Stone Firms Ltd.; artificial stone, Globe Building Products Ltd.; structural steel, Smith Walker Ltd.; fireproof construction, Caxton Floors Ltd.; roofing felt, D. Anderson & Son Ltd.; roof lights, J. A. King & Co. Ltd.; invisible embedded panel heating system, J. Jeffreys & Co. Ltd.; electric wiring, Grierson Ltd.; terrazzo, Marriott & Price Ltd.; casements, C. E. Welstead Ltd.; metalwork, Clark, Hunt

Ltd.; joinery, Broomhall Joinery Co. Ltd.; tiling, Carter & Co. (London) Ltd.; shrubs and trees, Sear & Carter; office fittings, Holoplast Ltd.

Canteen for the London Transport Executive, Bondway, Vauxhall, London, S.W.8 (Page 122). Architect to the LTE: T. R. Bilbow, F.R.I.B.A. Section Architect (Road Transport): K. J. H. Seymour, A.R.I.B.A. Assistant: H. S. Bushell. General contractor: L. & W. Whitehead.

Garden of Rest, Lexden, Colchester, Essex. (Pages 120-121.) Architect: Bailey & Walker, L./F.R.I.B.A. General Contractor: T. & F. Marshall. Sub-contractors: Bricks, W. H. Collier Ltd.; artificial stone, Noelite Ltd.; waterproofing materials, Stucco Ltd.; metalwork, J. Taylor & Sons, and Butler Jones (Name Plates) Ltd.; stonework, G. H. Durrant; crest, H. W. Collins.

Announcements

The third joint annual dinner of the County Architects' Society and the City & Borough Architects' Society was held recently at 96 Restaurant, Piccadilly, with Mr. A. G. Chant, president of the County Architects' Society, presiding, supported by Mr. L. C. Howitt, president of the City & Borough Architects' Society. Approximately 60 members and guests were present, the guests including Mr. J. L. Denman, F.R.I.B.A., vice-president of the RIBA; Mr. C. D. Spragg, C.B.E., secretary of the RIBA; Mr. G. H. Banwell, secretary of the AMC; Mr. R. R. Meyric Hughes, deputy secretary of the CCA; and Mr. J. Harper Smith, O.B.E., L.L.B., Town Clerk of Lincoln.

Corrections

In the progress report by D. Rigby Childs in our issue for December 28 a photograph of a model of the existing town at Bracknell was wrongly captioned "Bracknell New Town." We have been asked to state that in addition to Louis de Soissons and Partners, who are designing the first 72 houses, Julian Leatheart and C. S. Kimpton have been engaged as outside architects for the design of the extension to the Development Corporation's office. 52 houses are now under construction for the New Town.

In our issue for January 11 the name of E. Howard Sadler, A.R.I.B.A., was misspelt on page 60 in connection with the Henry Dickens Court, Kensington. Mr. Sadler was Assistant Architect to Edward Armstrong and Brian O'Rourke on this work.

In our issue for January 4 (page 60) the English Bridge & Structural Engineering Co. Ltd. were shown as sub-contractors in connection with the Factory at Duxford, Cambridgeshire. They were, in fact, main contractors for all steel work and aluminium on this work.

It was wrongly stated in our issue for January 4 (page 11) that Fawsley House, Northumberland, had been demolished. In fact, it has now been turned into a woodworking factory. This has enabled the owner to repair the roof on an economic basis and it is no longer in danger of demolition.

In the JOURNAL for January 4, on page 3, the licensees of the Festival Inn were named as Messrs. Hanbury, Buxton & Co. Ltd. This is incorrect. The full name should have read: Messrs. Truman, Hanbury, Buxton & Co. Ltd.

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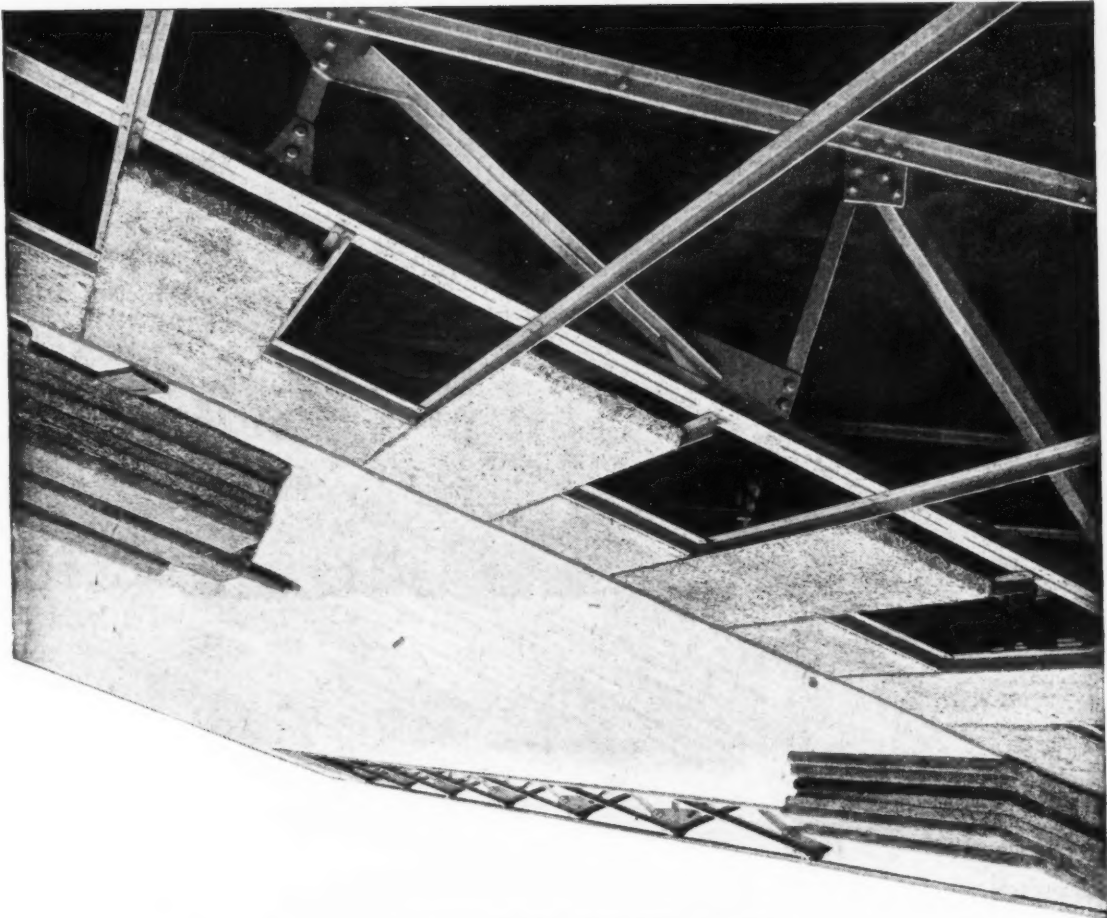
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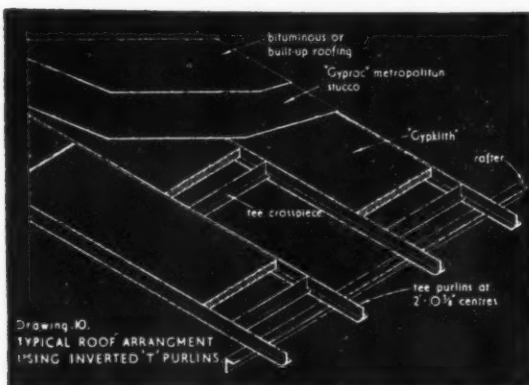
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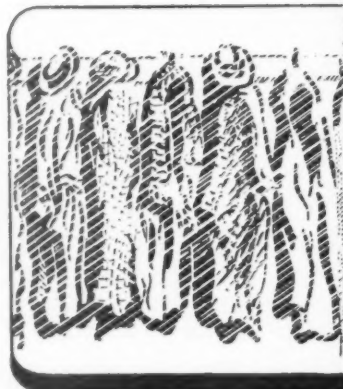
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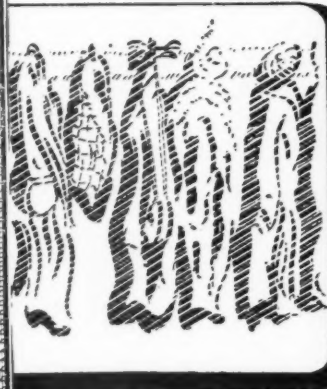
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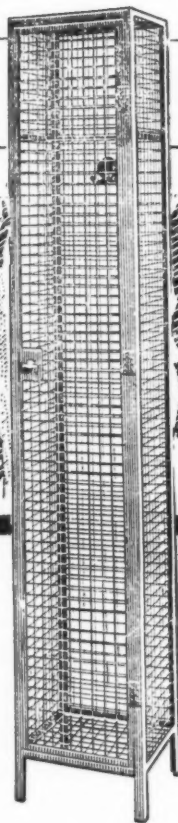
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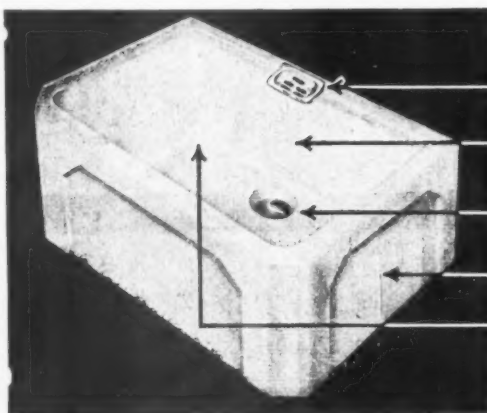
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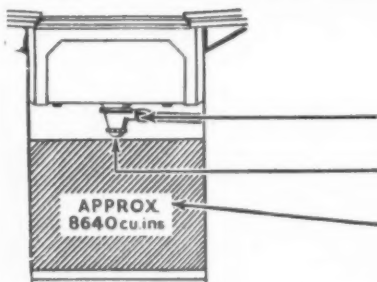
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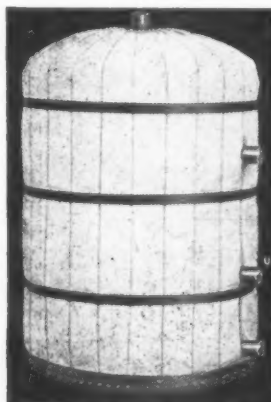
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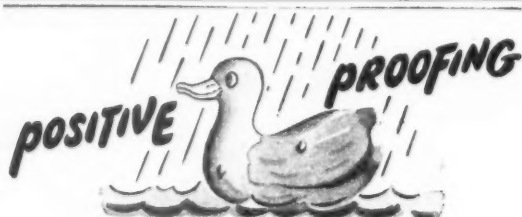
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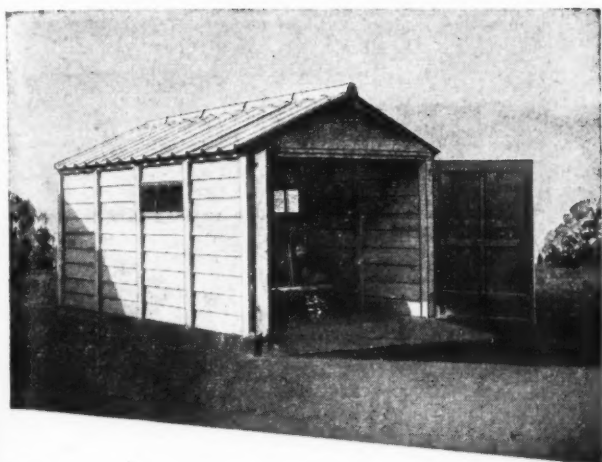
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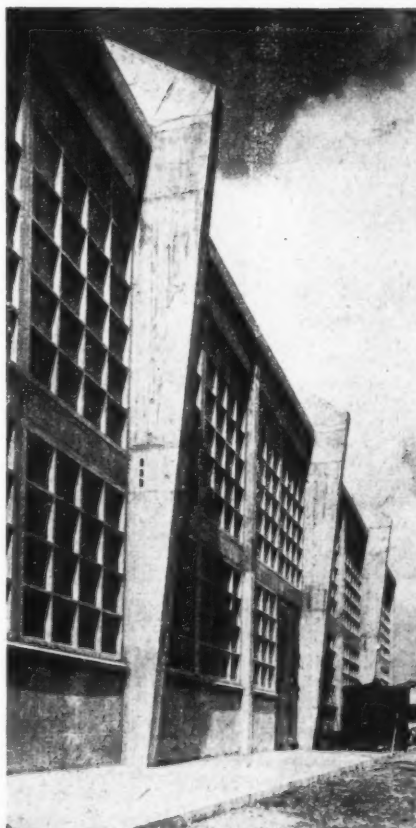
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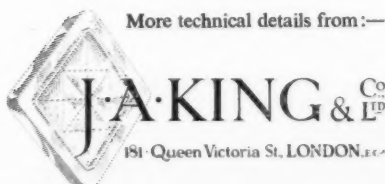
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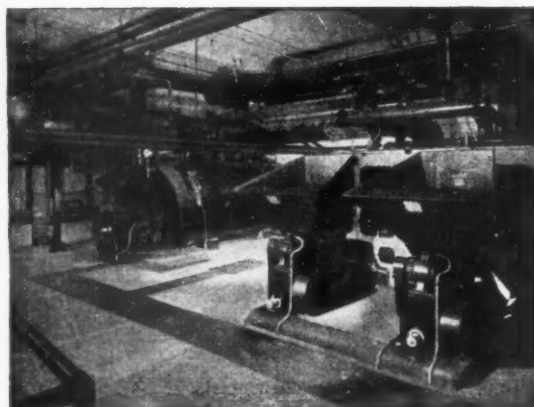
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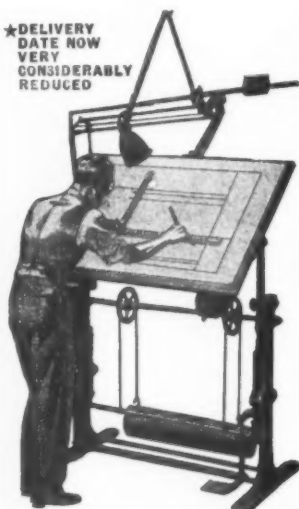
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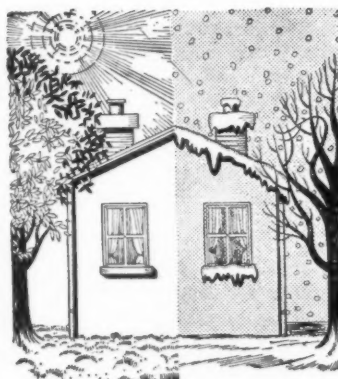


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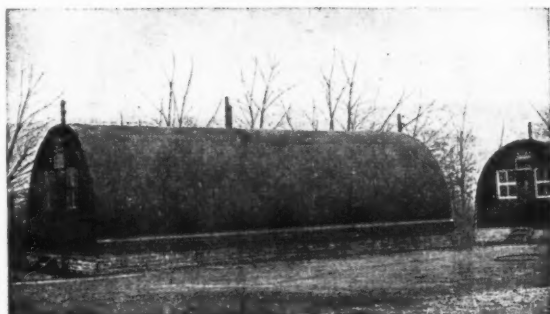
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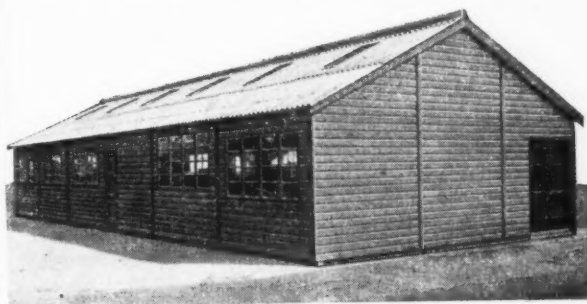
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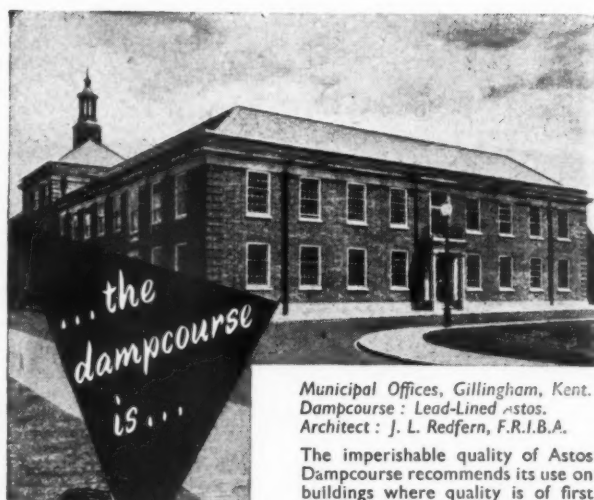
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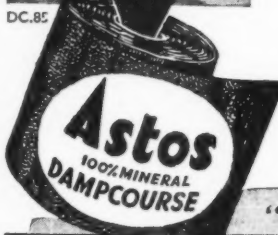
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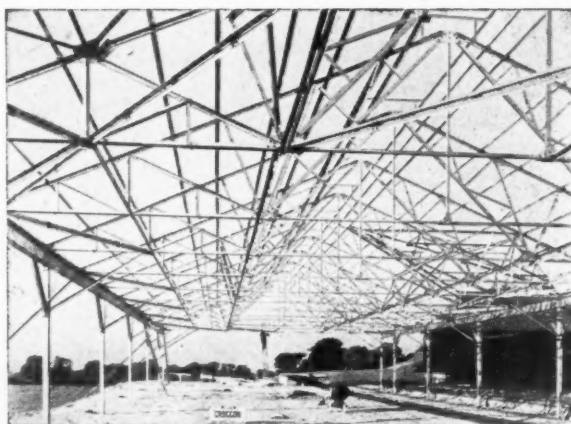
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Applications are invited for the following appointment in the Architects' Section of the Chief Engineer's Department of Westminster: SENIOR ARCHITECTURAL ASSISTANT, minimum starting salary £650 per annum. Applicants, who must be Registered Architects and should be studying for or have passed the Final Examination of the R.I.B.A., should be capable of preparing working and detailed drawings and specifications, and supervising and controlling the work on contracts. Experience in design and planning of industrial buildings would be an advantage.

The appointment is of a permanent nature, and pension arrangements will be discussed with short list candidates.

Applications, stating age, qualifications, and particulars of previous appointments held, must be submitted to the Staff Controller, North Thames Gas Board, 30, Kensington Church Street, London, W.8, quoting reference 9757. 4541

LONDON COUNTY COUNCIL.

Applications are invited for positions of ARCHITECTURAL ASSISTANT (salaries up to £580 a year) in the Housing and Valuation Department. Commencing salaries will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Acts, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

Successful candidates will be required to assist in the design, layout and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's Division.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required and quote reference A.A.1). Canvassing disqualifies. (816) 4558

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DERBYSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for the under-mentioned appointments on the permanent staff. Conditions of service and salaries are in accordance with the National Joint Council Scheme for Local Authorities, as adopted by the County Council.

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Applicants must be suitably qualified and have had good experience, particularly in connection with buildings of a Local Authority.

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Applicants to have had a good architectural experience and to be first-class draughtsmen.

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

Canvassing members of the Council, directly or indirectly, will be a disqualification for appointment.

The County Council is not in a position to assist successful applicants with housing accommodation.

Applications to be made on a form to be obtained from the undersigned, to whom it must be returned, accompanied by copies of three recent testimonials, not later than 5th February, 1951.

Envelopes and applications must be endorsed, stating clearly the vacancy for which the application is made.

F. HAMER CROSSLEY, Dipl.Arch.(L'pool), F.R.I.B.A., County Architect.

St. Mary's Gate, Derby. January, 1951. 1680

SURREY COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT, Grade III, at a commencing salary of £450 per annum, rising by annual increments of £15 to a maximum of £495 per annum, plus London allowance of up to £30, according to age.

Applicants must be of good general training and give full details in their applications, and preference will be given to applicants who have passed the Intermediate Examination of the Royal Institute of British Architects.

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

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 2nd February, 1951.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration.

The Council will be unable to provide any housing accommodation, and the successful applicant will be required to make his own arrangements in this direction.

T. W. W. GOODERIDGE,

Deputy Clerk of the Council.

County Hall, Kingston-upon-Thames. 1639

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

Applications, stating age, qualifications, present position, salary and experience, accompanied by copies of three recent testimonials, should be appropriately endorsed and delivered to the undersigned not later than Saturday, 3rd February, 1951.

RICHARD DE Z. HALL,

Town Clerk.

Town Hall, Halifax. 8th January, 1951. 1644

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Application forms to be obtained from the Borough Engineer, Town Hall, Barking; must be returned to the undersigned not later than 2nd February, 1951.

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Town Hall, Barking. 1663

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CITY ARCHITECT'S DEPARTMENT.

Applications are invited from suitably qualified persons for the following appointments to the permanent staff:—

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Applicants for appointments (c) must have experience in measuring building work executed on site and the working up incidental thereto.

The selected applicants will be required to pass a medical examination, and the appointments will be subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, giving date of birth, particulars of training, experience, etc., with copies of two recent testimonials, should be received by J. R. Pigott, F.R.I.B.A., City Architect, Kingsway, Stoke-on-Trent Staffs, endorsed with the title of the appointment applied for, not later than Saturday, 3rd February, 1951.

HARRY TAYLOR,

Town Clerk.

Town Hall, Stoke-on-Trent. 11th January, 1951. 1643

HARROW URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the under-mentioned appointments in the Department of the Engineer and Surveyor:—

(1) ARCHITECTURAL ASSISTANTS (TWO). Grade A.P.T. IV. Salary scale £480-£525, plus London "weighting." Applicants should have had good office experience, and preference will be given to those holding recognised professional qualifications. Duties will include the preparation of sketch designs, working drawings and specifications in connection with housing schemes, schools and municipal buildings generally.

(2) TECHNICAL ASSISTANT. Grades A.P.T. II/III. Salary £420-£495, plus London "weighting." Applicants should have had experience in property surveys, preparation of specifications and scale drawings, supervision of work and checking accounts for maintenance and repair work. Duties will be in connection with the maintenance of schools and municipal buildings generally, and preference will be given to holders of recognised technical qualifications. Payment of a motor car or motor cycle allowance in accordance with the Council's approved scale is under consideration.

The Council is unable to offer any assistance in obtaining housing accommodation.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, to the passing of a medical examination, and to the National Joint Council's Scheme of Conditions of Service.

Forms of application may be obtained from the undersigned, to whom they should be returned not later than Friday, the 9th February, 1951.

Canvassing will be a disqualification.

H. WELLS,

Clerk of the Council.

Council Offices, Harrow Weald Lodge, Harrow. 1660

HAMPSHIRE COUNTY COUNCIL.

Applications are invited for two appointments of DEPUTY AREA PLANNING OFFICER, to work under the direction of the Area Planning Officers in two of the Divisional Areas of Hampshire:—

Grade VI/VII, of the National Scales (£595-£710), in the South-West Area, centred at Lyndhurst.

Grade VI, of the National Scales (£595-£660), in the North-West Area, centred at Winchester. The qualifications required are Corporate Membership of the Town Planning Institute, and preferably also Corporate Membership of the Royal Institute of British Architects, or the Institution of Civil Engineers or the Royal Institution of Chartered Surveyors.

Previous experience in a similar capacity in a Government or Local Government Planning Department would be an advantage.

The appointments are pensionable and are subject to satisfactory medical report. The officers appointed will be required to keep a car and will receive travelling allowance on the County scale for the time being in force.

Applications, stating age, education, qualifications, previous experience and present position, together with a copy of one testimonial and the names and addresses of two persons to whom reference may be made as to professional ability and character, and endorsed "Deputy Area Planning Officer," must reach the County Planning Officer, Litton Lodge, Clifton Road, Winchester, not later than the 9th February, 1951.

G. A. WHEATLEY,

Clerk of the County Council.

The Castle, Winchester.

January, 1951.

1678

LONDON ELECTRICITY BOARD.

DRAUGHTSMEN.

Applications are invited for the above position in the North-Eastern Sub-Area. Initially the successful applicants will be based at Romford Road, Stratford, E.15.

Applicants should have had a good general education and drawing office experience, preferably on Mains Records.

Pending grading of the post under the National agreement of the appropriate negotiating body, the salary will be within the range £300-£500 per annum, according to qualifications and experience.

Application forms obtainable from Establishments Officer, 46, New Broad Street, London, E.C.2, to be returned duly completed within 7 days. Please enclose foolscap envelope and quote reference EST/V/1049/A on envelope and all correspondence.

CITY OF OXFORD.

CITY ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Applications are invited for the under-mentioned post on the Permanent Staff of the City Architect and Planning Officer's Department:—

PLANNING ASSISTANT. Within the range Grade I/V, A.P.T. Division, £390-£570 per annum.

Applicants should be capable of undertaking duties in connection with the survey and preparation of the Development Plan, have had experience in Development Control, and must possess a knowledge of the Town and Country Planning Act, 1947.

Candidates should preferably have passed the Final Examination of the Town Planning Institute, or hold a recognised Town Planning qualification, but consideration will be given to applicants not fulfilling these requirements, the actual salary of the successful applicant will then depend on his qualifications and experience at the time of appointment.

Surveying, Engineering or Architectural qualifications will be deemed an advantage. The Council may be able to assist the successful applicant in finding housing accommodation, if required.

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

Further details of the duties and Application Form, which must be used in applying for the post, may be obtained from E. G. Chandler, A.R.I.B.A., A.M.T.P.I., City Architect and Planning Officer, and Application Forms must be returned to him at the Town Hall, Oxford, not later than Saturday, the 10th February, 1951.

HARRY FLOWMAN,

Town Clerk.

1676

URBAN DISTRICT OF HORNCHURCH.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT, in the Architect's Section of the Engineer and Surveyor's Department, at a salary in accordance with Grade IV of the Scales of Salaries for the National Joint Council for Local Authorities Staffs, viz., £480, rising by annual increments of £15 to £525 p.a.

Particulars of the appointment and form of application can be obtained from the undersigned, by whom applications in envelopes endorsed "Architectural Assistant" must be received not later than Monday, 5th February, 1951.

P. L. COX,

Clerk of the Council.

Council Offices, Hornchurch.

19th January, 1951.

1693

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for positions of ARCHITECT, Grade III, (£550-£700), and TECHNICAL ASSISTANT (up to £580) for work on new housing, schools, and other public buildings. The positions are superannuable. Candidates for Grade III positions should possess professional qualifications. Application forms from the Architect (A/H/P/S), The County Hall, Westminster Bridge, S.E.1, enclosing stamped addressed foolscap envelope. Canvassing disqualifies. (384) 3914

URBAN DISTRICT COUNCIL OF CORBY.

ASSISTANT ARCHITECT.

Applications are invited for the above appointment, in the department of the Engineer and Surveyor, at a salary which will be in accordance with qualifications, training and experience, and will be as follows:—

(a) REGISTERED ARCHITECTS, with six or more years' experience in an Architect's office or at a School of Architecture. Grade V, A.P.T. Division (£550-£610), or Grade VI, A.P.T. Division (£595-£660), according to qualifications and practical experience.

(b) REGISTERED ARCHITECTS, with less than six years' experience in an Architect's office or at a School of Architecture. Grade V, A.P.T. Division (£520-£570).

(c) ARCHITECTURAL ASSISTANTS, of not less than two years' experience in an Architect's office (exclusive of pupillage or attendance at a School of Architecture). Grade IV, A.P.T. Division (£480-£525).

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

Housing accommodation will be made available to the successful candidate, if married.

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

Forms of application can be obtained from the undersigned, to whom they must be returned, when completed, by not later than noon on Wednesday, the 7th February, 1951.

G. B. BLACKALL,

Clerk of the Council.

Council Offices, Corby, Northants.

1667

BOROUGH OF WIDNES.

APPOINTMENT OF DEPUTY BOROUGH ARCHITECT.

Applications are invited for the appointment of Deputy Borough Architect, at a salary in accordance with A.P.T., Grade VIII, of the National Scale of Salaries, commencing at £685 per annum.

Applicants, who should be not more than 40 years of age, must be Associates of the Royal Institute of British Architects, and have had considerable experience in Municipal Architectural work, including post-war housing, post-war schools and public buildings.

Applications, stating age, present and previous positions, technical training and qualifications (with dates), and concise particulars of experience, together with the names and addresses of three persons to whom reference may be made, must be delivered, endorsed "Deputy Borough Architect," to the undersigned on or before Saturday, 3rd February, 1951.

The appointment, which will be terminable by one month's notice on either side, is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination. Canvassing will be disqualification, and applicants must disclose any relationship to members of the Council.

FRANK HOWARTH,

Town Clerk.

Town Hall, Widnes.

15th January, 1951.

1679

NEWCASTLE-UPON-TYNE REGIONAL HOSPITAL BOARD.

SPECIAL AREA FOR CUMBERLAND AND NORTH WESTMORLAND.

PROPOSED GENERAL HOSPITAL FOR WEST CUMBERLAND.

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GOVERNMENT OF NORTHERN IRELAND.

MINISTRY OF HEALTH AND LOCAL GOVERNMENT.

TECHNICAL STAFF—HOUSING AND PLANNING.

Applications are invited for unestablished posts of:—

(a) ASSISTANT ARCHITECT, Grade A (Planning), £700-£900 per annum.

(b) ASSISTANT ARCHITECT, Grade B (Housing), £500-£750 per annum.

(c) PLANNING ASSISTANT, £500-£750 per annum.

Commencing salary within the above ranges will be fixed according to qualifications and experience; a salary lower than £500 may be paid to a candidate under 26 years of age.

Qualifications: Candidates for (a) and (b) posts must be Registered Architects by examination. In addition, candidates for the Housing vacancy should have experience in up-to-date house design and layout.

Candidates for the Planning Assistant post must be either Registered Architects by examination, Corporate Members of the Institution of Civil Engineers, or Associates of the Royal Institution of Chartered Surveyors.

In addition, applicants for Planning appointments must possess a recognised qualification in town planning or have good experience in town planning work.

Preference will be given to candidates who served with H.M. Forces during wartime, providing the Ministry is satisfied that such candidates can, or within a reasonable time will be able to discharge the duties efficiently.

Applications, giving date of birth, full particulars of qualifications and experience, stating the post applied for, with copies of two recent testimonials, should be sent without delay, to the Director of Establishments, Ministry of Finance, Stormont, Belfast.

1671

EDINBURGH COLLEGE OF ART.

ANDREW GRANT BEQUEST SCHOLARSHIPS.

The Board of Management may award twelve Junior Open Scholarships of £200 each per annum, tenable for two years at the Edinburgh College of Art, to students who have completed a period of, but not exceeding, two years at any recognised Art Institution, and who do not exceed the age of 20 years at 1st October, 1951.

The College incorporates Schools of Architecture, Design and Crafts, Drawing and Painting and Sculpture.

Application forms and further particulars may be obtained from the Secretary, Edinburgh College of Art, Lauriston Place, Edinburgh, 3.

The latest date for receiving applications is 28th February.

1670

WEST SUFFOLK COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the County Architect's Department. Salaries as indicated in accordance with the National Joint Council Salary Scales, position on scales according to qualifications and experience, viz:—

(a) SENIOR ASSISTANT ARCHITECT, A.P.T., Grade VII (£635-£710).

(b) JUNIOR ARCHITECTURAL ASSISTANTS (THREE), A.P.T., Grades I-II (£390-£465).

(c) JUNIOR QUANTITY SURVEYING ASSISTANT, A.P.T., Grades I-II (£390-£465).

(d) ENGINEERING DRAUGHTSMAN, A.P.T., Grades I-II (£390-£465).

Applicants in respect of (a) should be Associates of the Royal Institute of British Architects, with not less than three years' office experience.

Applicants in respect of (b) should be Probationers of the Royal Institute of British Architects studying for the Intermediate Examination and with not less than two years' office experience.

Applicants in respect of (c) should be Students of the Royal Institution of Chartered Surveyors studying for the Intermediate Examination and with not less than two years' office experience.

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

The successful candidates will be required to pass a medical examination.

Forms of application may be obtained from the undersigned, by whom applications, together with the names of two referees, should be received not later than 14 days after the date of publication of this advertisement.

L. G. H. MUNSEY,

Clerk of the County Council.

Shire Hall, Bury St. Edmunds.

January, 1951.

1669

CITY OF BATH.

CITY PLANNING DEPARTMENT.

Applications are invited for the appointment of a PLANNING ASSISTANT, Grade A.P.T. II (£420-£465 per annum). Applicants should be neat and efficient draughtsmen, and preferably should have experience in a Planning Department. Any technical qualifications will be an advantage.

Applications, stating age, qualifications and experience, together with copies of two recent testimonials, should be sent to the City Planning Officer, 2, Princes Buildings, Bath, not later than the 10th February, 1951.

(Sgd.) JARED E. DIXON,

Town Clerk.

1696

CARDIFF RURAL DISTRICT COUNCIL. APPOINTMENT OF QUANTITY SURVEYOR.

Applications are invited for the appointment of Quantity Surveyor in the Engineer and Surveyor's Department.

Candidates should have had good general experience in the preparation of Bills of Quantities, interim certificates, and the preparation of final accounts for domestic housing work.

Salary to be paid will be in accordance with the appropriate Grade of the A.P.T. Division of the National Scale of Salaries, having regard to the candidate's experience and qualifications.

The appointment will be subject to one month's notice on either side, the National Scheme of Conditions of Service, and the successful applicant will be required to pass a medical examination.

Details of qualifications and experience, together with names of two persons to whom reference may be made, should be delivered to me in sealed envelopes endorsed "Appointment of Quantity Surveyor," within 14 days from the date of publication of this advertisement.

S. P. YOULDON, M.C., F.R.I.C.S.,
L.R.I.B.A.,
Engineer, Surveyor and Architect.
Park House, 20, Park Place, Cardiff.
12th January, 1951. 1668

MUNICIPALITY OF SINGAPORE.

Applications are invited for THREE appointments of ASSISTANT ARCHITECT AND BUILDING SURVEYOR, on the permanent staff of the Municipal Architect and Building Surveyors Department, Singapore.

Qualifications: A.R.I.B.A., preferably with previous experience of Municipal Government, or other Official Service. Knowledge of L.C.C. Building Bye-Laws an advantage. Age 24 to 30 years.

Basic salary scale \$500-\$1,000 per month. Starting point between \$500 and \$660, according to age and experience. Graduated scale of allowances, e.g., on basic salary of \$560 p.m. present allowances are: expatriation \$110 p.m. plus cost of living, \$192 p.m. for single man or \$246 for married man, or \$319 for married man with dependent family. One Malayan dollar equals 2s. 4d. Thus a married man with family on basic salary of \$560 p.m. would draw equivalent of £1,363 per annum.

Quarters with heavy furniture provided at 8 per cent. of salary or allowance in lieu. Initial engagement on three years agreement. Eight months leave after four years service. Free medical attention. Passages paid, including family (children under 17 years). Compulsory Provident Fund contribution 7½ per cent. of salary, and Municipal Commissioners donate 7½ per cent. for ten years, rising to 20 per cent. after twenty years service.

Applications in duplicate, with full personal and technical information and copies of three testimonials, to Messrs. Peirce & Williams (Agents to the Municipal Commissioners), 1, Victoria Street, London, S.W.1, before Monday, 5th February, 1951. 1666

BOROUGH OF WORKINGTON. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant in the Borough Engineer and Surveyor's Department.

Applicants should be good draughtsmen and possess a sound knowledge of building construction, and be capable of preparing working drawings, etc., with the minimum of supervision. Preference will be given to applicants who have considerable experience in the design of houses to Government standards.

The salary will be A.P.T., Grade IV, i.e., £480-£525, or Grade V, £520-£570, according to the qualifications of the person appointed.

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

Housing accommodation is not immediately available, but the Council will, if necessary, make a house available to the successful applicant as soon as they are in a position to do so.

Applications, stating age, qualifications, training and experience, details of past and present appointments, and accompanied by the names of three referees, should be forwarded to the undersigned not later than Tuesday, the 6th February, 1951.

JOHN R. COCKFIELD, Town Clerk.
Town Hall, Workington.
16th January, 1951. 1687

HAYES AND HARLINGTON URBAN DISTRICT COUNCIL. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above-mentioned permanent appointment in the Department of the Engineer and Surveyor, at a salary in accordance with A.P.T. Division, Grade IV, of the Scale of Salaries (£480-£525), plus appropriate London "weighting."

Preference will be given to applicants who have passed the Intermediate Examination of the R.I.B.A.

Forms of application, together with further particulars of the appointment, may be obtained from the Engineer and Surveyor, Town Hall, Hayes, Middlesex, to whom completed applications should be returned not later than the 10th February, 1951.

A. E. HIGGINS, Clerk of the Council.
Town Hall, Hayes, Middx.
1709

LONDON COUNTY COUNCIL. QUALIFYING EXAMINATION FOR THE OFFICE OF DISTRICT SURVEYOR.

Formal notice is hereby given that the next examination of persons desirous of obtaining a certificate of proficiency to perform the duties of the office of District Surveyor will be conducted in London in October, 1951, by the Board established by the London County Council in accordance with Section 77 of the London Building Acts (Amendment) Act, 1939. The minimum age limit for candidates is 25.

Possession of this certificate carries eligibility to compete for appointment to vacant positions as District Surveyor, at maximum salaries ranging from £1,200 to £1,800 a year (inclusive), or as Assistant District Surveyor (salary scale £840 by £40 to £960 a year).

It is intended to hold subsequent examinations annually.

For regulations governing candidature, the current syllabus, and application forms for the examination, or for any further information, apply to the Architect to the Council, County Hall, Westminster Bridge, S.E.1. (1451) 1715

COUNTY BOROUGH OF HALIFAX. APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment in the Borough Engineer's department at a salary in accordance with National Scale, A.P.T., VII (£635-£710).

The successful candidate will be offered the tenancy of a Corporation flat.

Candidates should possess appropriate technical qualifications, and will be required to pass a medical examination. The appointment will be subject to the conditions of service adopted by the Corporation and to the Local Government Superannuation Act, 1937.

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

Applications, stating age, qualifications, present position, salary and experience, accompanied by copies of three recent testimonials, should be appropriately endorsed and delivered to the undersigned not later than Saturday, 3rd February, 1951.

RICHARD DE Z. HALL, Town Clerk.
Town Hall, Halifax.
15th January, 1951. 1710

STAFFORDSHIRE COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT.

Applications are invited for the appointment of a SENIOR ASSISTANT, A.P.T., Grades VII-VIII, salary £635-£760, on the established staff of the County Planning Department.

Applicants for the appointment should be Associates of the R.I.B.A. A high standard of ability in design is required, and experience in landscape architecture and in the design and carrying out of housing estate layouts would be an advantage.

A lodging allowance of 25s. per week, and 3rd class return railway fare home every two months, will be paid for a maximum period of six months, where the successful candidate is married and has to continue to maintain his home outside the geographical County while seeking housing accommodation.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, the National Joint Council's Scheme of Conditions of Service as adopted by the County Council, the passing of a medical examination, and to one month's notice on either side.

Canvassing, directly or indirectly will be deemed a disqualification, and relationship to any member or senior officer of the Council must be disclosed.

Applications should give details of age, education and training, qualifications, present and previous appointments and experience, and should include copies of two recent testimonials, and the names of two other persons to whom reference can be made. Applications should be sent to D. W. Riley, County Planning Officer, 41a, Eastgate Street, Stafford, not later than the 29th January, 1951.

T. H. EVANS, Clerk of the County Council.
1711

GLENROTHES DEVELOPMENT CORPORATION.

Applications are invited from suitably qualified persons (under 45 years of age) for appointment as JUNIOR ASSISTANT ARCHITECT. The salary scale applicable to the post rises to £520 per annum, but the commencing salary will be fixed according to experience and qualifications.

Applicants should have passed at least the Intermediate Examination of the R.I.B.A. Experience of Schools and Public Buildings will be advantageous.

The post will be superannuable under the Local Government (Scotland) Act, 1937, and the successful candidate will be required to pass a medical examination.

Particulars of the assistance which the Corporation will give in securing housing accommodation will be given at the time of interview.

Canvassing, directly or indirectly, of members of the Corporation will constitute an absolute disqualification.

Applications, giving full particulars of the candidate's age, qualifications and experience, together with copies of not more than three recent testimonials, must reach the Secretary, Glenrothes Development Corporation, Woodside, Glenrothes, by Markinch, not later than 2nd February, 1951.

1699

THE BEDFORDSHIRE COUNTY COUNCIL invite applications for the following appointments on the County Architect's Staff:—(a) ASSISTANT QUANTITY SURVEYOR. A.P.T., Grade VI, salary £595-£660 per annum. Applicants should be qualified Quantity Surveyors and experienced in preparation of Bills of Quantities, specifications, valuation and measurement for Interim Certificates and settlement of final accounts. (b) JUNIOR ASSISTANT QUANTITY SURVEYOR. A.P.T., Grade II, salary £420-£465 per annum. Applicants must be experienced in working-up Bills of Quantities, measurement and valuation for Interim Certificates and settlement of final accounts. The appointments are superannuable. Married officers living in the district but maintaining their families away from Bedford may claim special allowance of 25s. per week. Application forms from the undersigned, returnable by 5th February, 1951.

J. B. GRAHAM, Clerk of the County Council.
Shire Hall, Bedford.
15th January, 1951. 1688

COUNTY BOROUGH OF WEST BROMWICH. APPOINTMENT OF ASSISTANT ARCHITECTS (GRADE VII AND GRADE VI).

Applications are invited for the following appointments on the permanent staff of the Borough Engineer and Surveyor:—

(a) ASSISTANT ARCHITECT. Salary in accordance with A.P.T., Grade VII (£635 to £710).

(b) ASSISTANT ARCHITECT. Salary in accordance with A.P.T., Grade VI (£595 to £660).

The persons appointed must hold and continue to hold the appropriate qualifications set out in the Grading of Special Classes of Officers of the National Charter, M.1.

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

Applications, stating age, experience and qualifications, together with the names of two persons to whom reference may be made, should be delivered to the undersigned not later than Saturday, 17th February, 1951.

Canvassing, either directly or indirectly, will be a disqualification, and relationship to any member or senior officer of the Council must be disclosed.

H. SCHOFIELD, B.Sc.(Eng.), A.M.I.C.E., A.M.T.P.I.,
Borough Engineer and Surveyor.
Town Hall, West Bromwich.
15th January, 1951. 1700

BRECONSHIRE COUNTY COUNCIL invite applications for the following permanent appointments (Male or Female) in the County Architect's Department:—

(a) ONE ASSISTANT ARCHITECT (Grade IV, £480-£525 p.a.); (b) ONE ASSISTANT ARCHITECT (Grade V, £520-£570 p.a.); (c) ONE ARCHITECTURAL ASSISTANT (Grade II, £450-£495 p.a.); (d) THREE ARCHITECTURAL ASSISTANTS (General Division or Grade II (£200-£385 or £420-£465 p.a.), according to experience and qualifications); (e) ONE QUANTITY SURVEYOR (Grade VII, £635-£710 p.a.).

Applicants for appointment under (a) must be Registered Architects. Successful applicants for appointment under (d) will be paid a salary within the Grades stated, according to their previous experience and qualifications. Applications must be made on a form to be obtained from the County Architect, Mr. H. C. W. Strickland, Rhdyd Offices, Brecon, South Wales (from whom further particulars may be obtained), and must be received by the undersigned not later than 3rd February, 1951.

C. M. S. WELLS, Clerk of the County Council.
County Hall, Brecon.
1672

BRACKNELL DEVELOPMENT CORPORATION invite applications from suitably qualified persons for the following appointment:—

ARCHITECT (Housing). Salary £550-£640-£750.

Applicants should be Corporate Members of the R.I.B.A., and an additional town planning qualification will be an advantage.

The successful applicant will be engaged on the design and construction of large housing layouts, and will work under the direction of E. A. Ferriby, B.Arch., A.R.I.B.A., A.M.T.P.I., Chief Architect to the Corporation.

The post will be superannuable under the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Applications, giving full particulars of the candidate's age, qualifications and experience, together with the names of two persons to whom reference can be made, must reach the General Manager, Bracknell Development Corporation, Farley Hall, Binfield, Bracknell, Berks., on or before 15th February, 1951, marking envelope "Architect."

1697

BOROUGH OF RUGBY. ASSISTANT ARCHITECT.

Rugby Corporation invite applications for the appointment of Assistant Architect. Salary A.P.T., VI £595-£660. Housing accommodation is available.

Preference will be given to candidates who have had Municipal experience and who have passed the Final Examination of the R.I.B.A.

Applications, together with copies of three recent testimonials, should reach the Borough Surveyor, "Burford House," Rugby, by Monday, 12th February, 1951.

1694

**BOROUGH OF POOLE.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.**

Applications are invited for the post of Architectural Assistant (Education), in the Borough Engineer's Department, at a salary in accordance with Grade Va of the A.P.T. Division of the National Scale of Salaries (£550-£610).
Form of application may be obtained from the undersigned, to whom completed applications should be forwarded by the 7th day of February, 1951.

WILSON KENYON,
Town Clerk.

Municipal Buildings, Poole.
13th January, 1951. 1689

**METROPOLITAN BOROUGH OF FULHAM.
ARCHITECTURAL ASSISTANT.**

Applications are invited for an appointment in the Architectural Section of the Director of Housing and Public Buildings Department.
Salary: A.P.T., Grade II (£420-£455 p.a.), plus weighting of £10, £20 or £30, according to age.
Applications on forms obtainable from me; closing date 5th February 1951.

CYRIL F. THATCHER,
Town Clerk.

Town Hall, Fulham, S.W.6. 1695

**BOROUGH OF CHATHAM.
AMENDED ADVERTISEMENT.
APPOINTMENT OF CHIEF ASSISTANT
ARCHITECT.**

Applications are invited for the appointment of Chief Assistant Architect within Grade VII (£635-£710).
Housing accommodation will be made available if required.

Conditions of appointment and form of application may be obtained from Mr. H. D. Peake, M.Sc.(Eng.), Borough Engineer and Surveyor, Town Hall, Chatham, to whom completed application forms should be returned not later than Wednesday, 14th February, 1951. 1698

Tenders for Contracts

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

**COUNTY BOROUGH OF ROCHEDALE.
Tenders are invited FOR THE ADAPTATION
OF HOLLAND STREET MILL TO FORM
MUNICIPAL TECHNICAL COLLEGE.**

Bills of Quantities, which will be ready for distribution on the 31st January, 1951, may be obtained from the Borough Surveyor, Town Hall, Rochdale, on payment of a deposit of two guineas, which amount will be returned on receipt of a bona fide Tender not subsequently withdrawn.

Tenders in sealed envelopes, endorsed "Tender for Technical College-Holland Street," must be delivered to the Town Clerk, Town Hall, Rochdale, not later than 9 a.m. on Thursday, the 1st March, 1951.

K. B. MOORE,
Town Clerk.

1686

Partnership

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

ARCHITECT, with 23 years' experience in all classes of architectural works, seeks Junior Partnership with established London Architect. Box 1666.

Competition

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

ARCHITECTURAL COMPETITION.

**A FESTIVAL HALL AT HESWALL FOR THE
WIRRAL URBAN DISTRICT COUNCIL.**

The Wirral Urban District Council invite Architects to submit designs in Competition for a Festival Hall to be erected at Heswall, Wirral, Cheshire.

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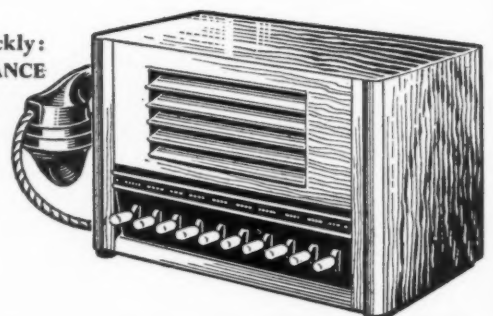
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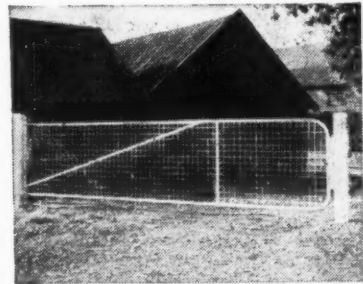
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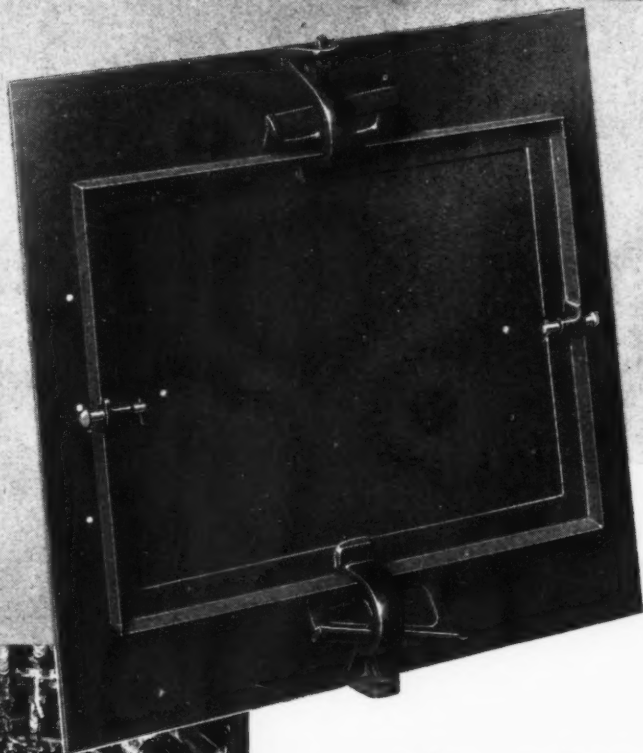
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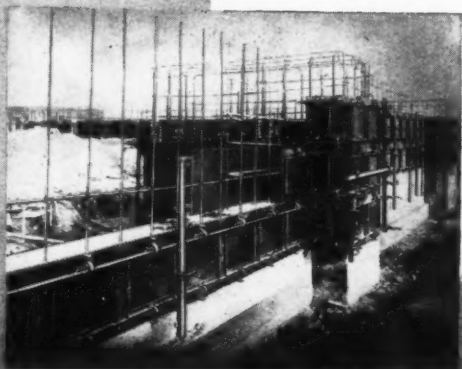


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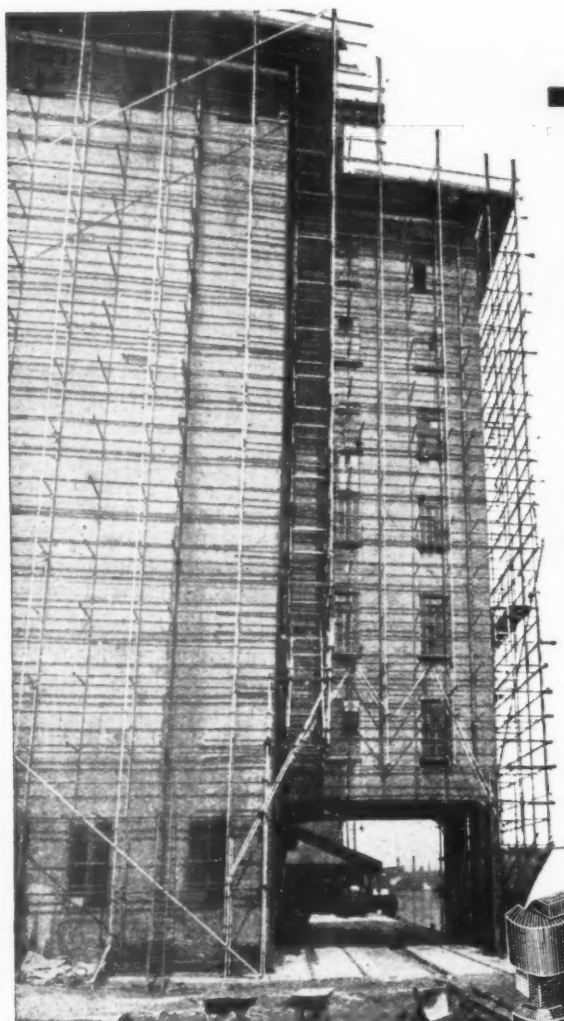
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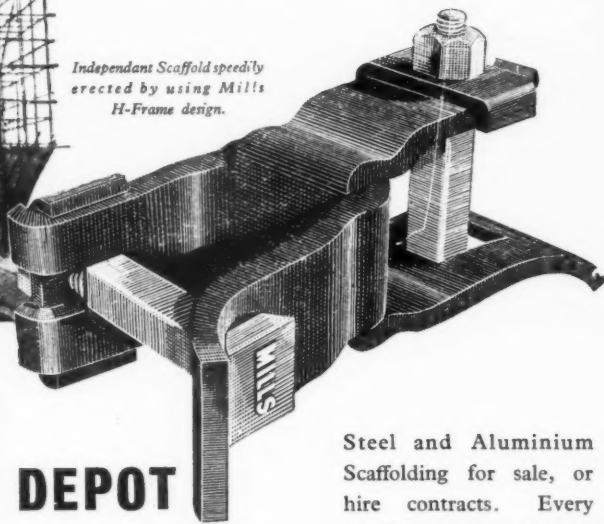


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