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THE ARCHITECTS' JOURNAL

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JUN 1 1951

DETROIT



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, Eatock 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
MOLGP	Ministry of Local Government and Planning. 23, Saville Row, W.1.	Regent 8411
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
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte 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.	Molesley 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
RSI	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.	
SPAE	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. 21, College Hill, E.C.4.	City 4471
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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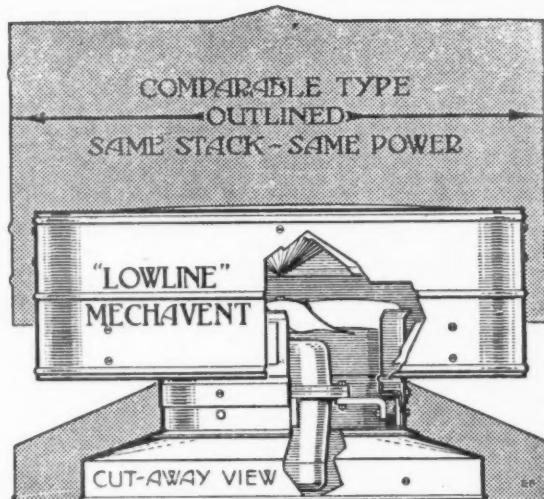
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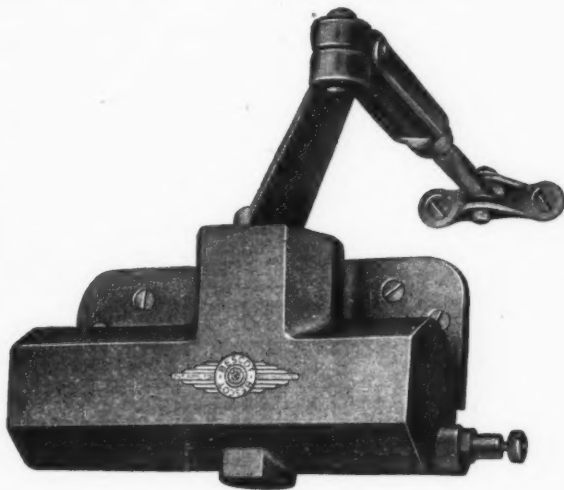
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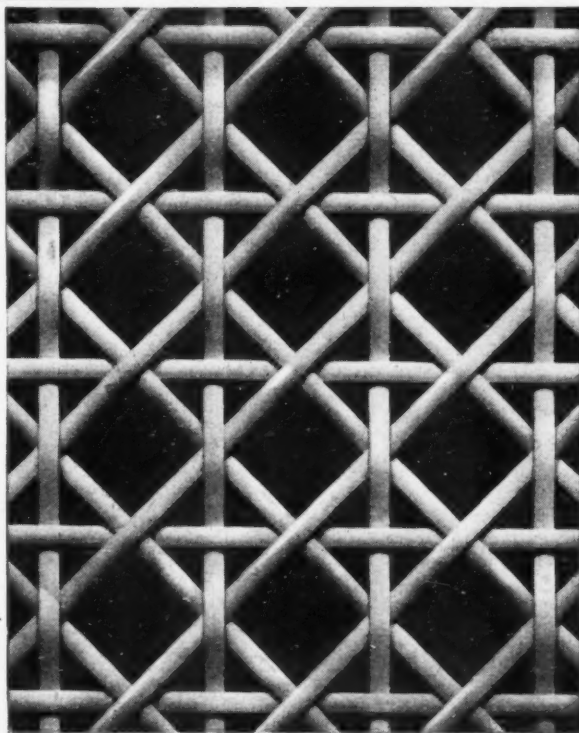


Illustration shows Pattern No. M.1010. Other Patterns and full particulars in Catalogue AJ 585.

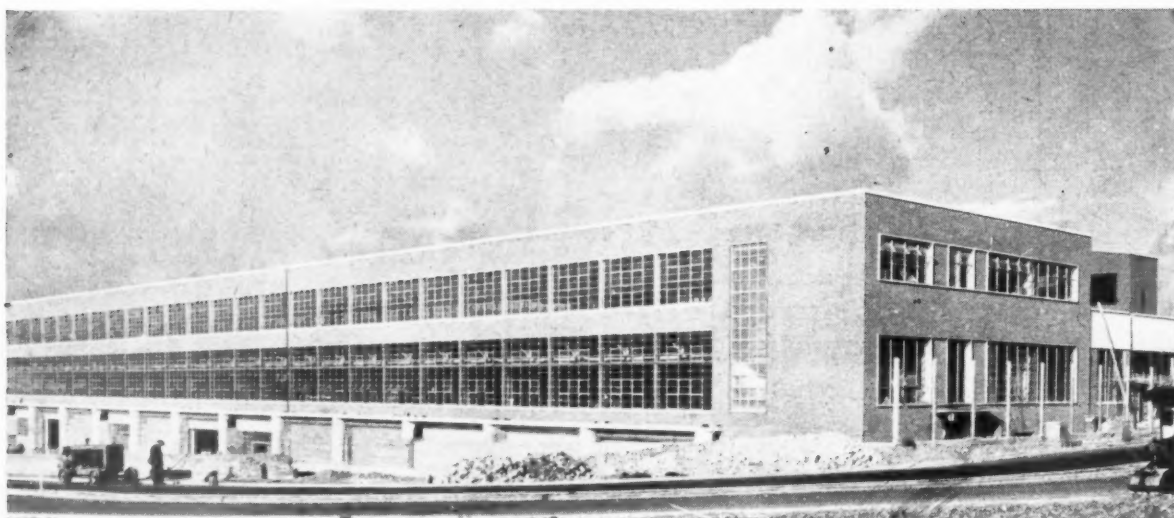
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FACTS AND FIGURES ON THE NEW VAUXHALL FACTORY

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Length	1,695 ft.
Width	480 ft.
Total volume of earth excavated (including factory, boiler house, roads, drainage tunnel)	750,000 cu. yds.
Structural steelwork	...	...	...	4,300 tons
Concrete	...	...	...	35,000 cu. yds.
Bricks	...	...	...	1,600,000
Drains	...	...	...	5½ miles
6 ft. water pipes	...	...	...	1 mile
Total length of air, water and gas piping	...	...	...	20 miles
Roof area	...	...	...	950,000 sq. ft.
Roof glass	...	...	...	240,000 sq. ft.
Storm water sewer	...	...	...	5 ft dia. x ¾ mile long
Area of new roads	...	...	...	21,000 sq. yds.
Capacity of producer gas plant	...	...	...	300,000 cu. ft. per hr.
Capacity of hot water boilers	150,000,000 B.T.U.'s per hr.
No. of lighting units	3,300 x 160 watt.
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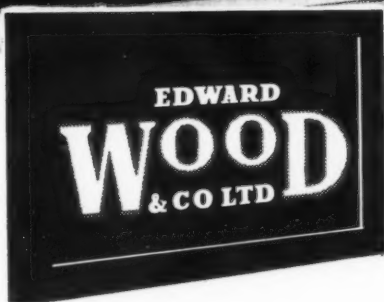
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The Known and the Unknown

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Easter Island, a lonely islet in the South Pacific



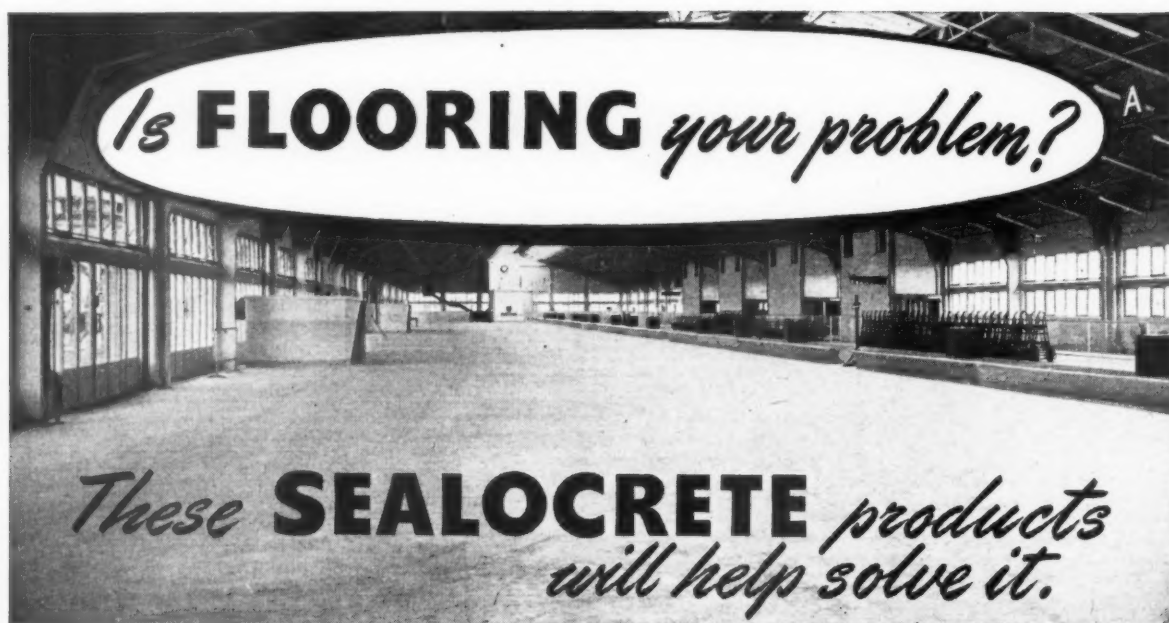
Everybody Knows-

Manchester's Town Hall and its great Extension built in
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Chief Assistant Architect, C. B. Dromgoole

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SEALOCRETE CONCRETE SURFACE DRESSING

This is a liquid which is applied to newly laid or existing concrete floors to render them dustproof, oilproof and case hardened. It can be applied to all kinds of existing concrete, granolithic, slag or ballast finished floors. The action of the solution is to penetrate the pores and voids and becomes an integral part of the concrete leaving a case hardened mass.



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Available in many colours and as they are in liquid form they are simple and clean to mix. They have no deleterious effect on cement or concrete. In fact, they give increased crushing and tensile strength as well as increased resistance to oil and grease penetration and prevent dusting.



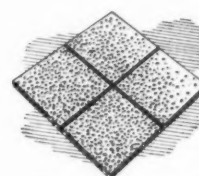
SEALOCRETE COLOURED CONCRETE SURFACE DRESSING

This is available in twelve colours and is used on concrete floors not subjected to heavy traffic. Floors so treated should be wax polished after the second application.



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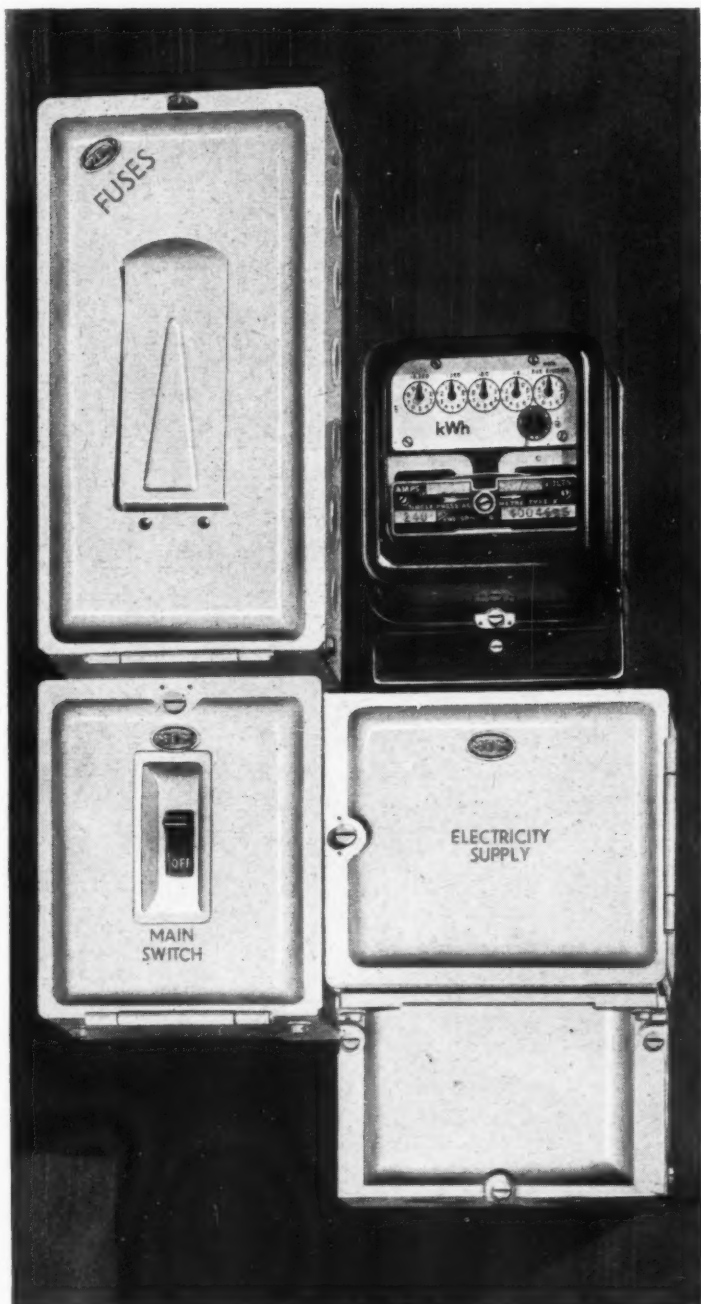
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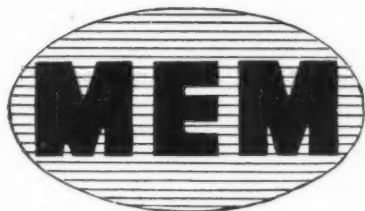




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Here is the consumer's control equipment which gives the choice of standard cartridge fuses *or* rewirable fuses. The 'Memera' circuit-fuse unit accommodates either type of fuse carrier without any other alteration being necessary.

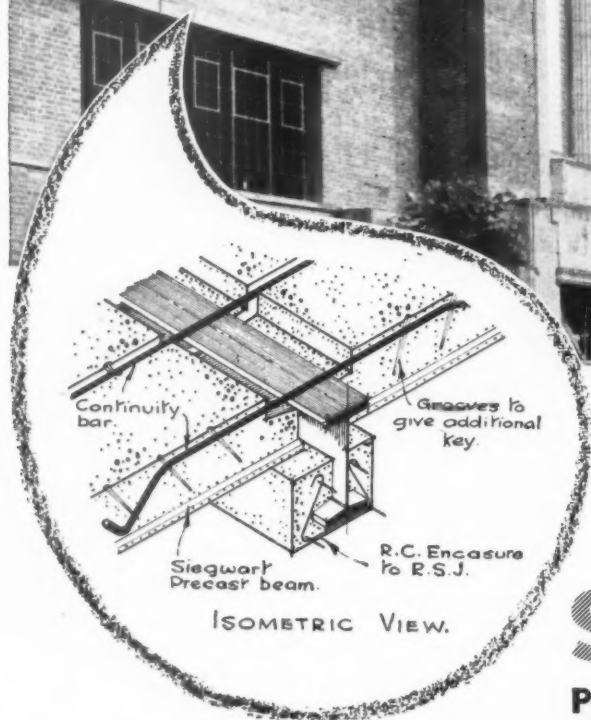
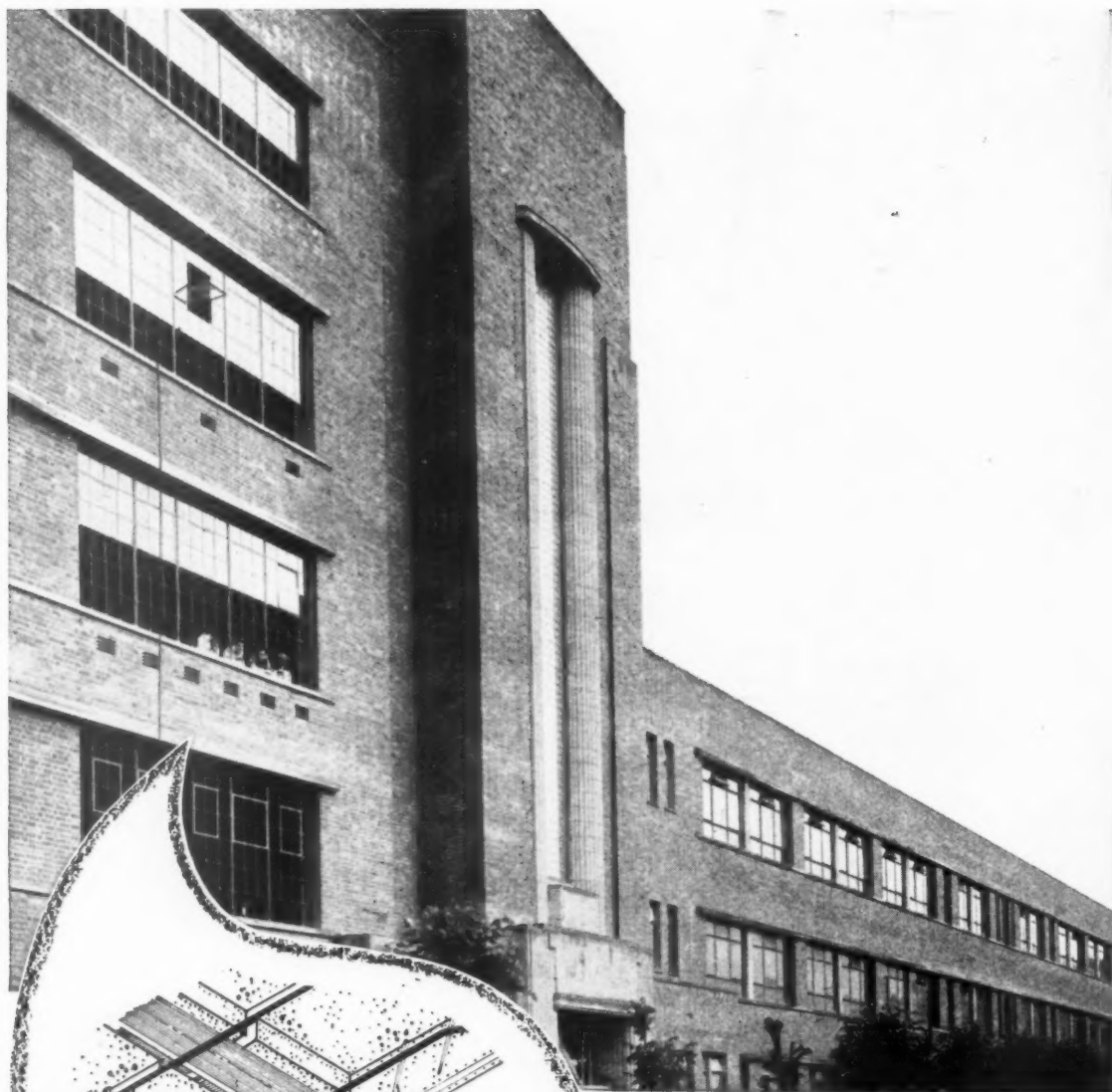
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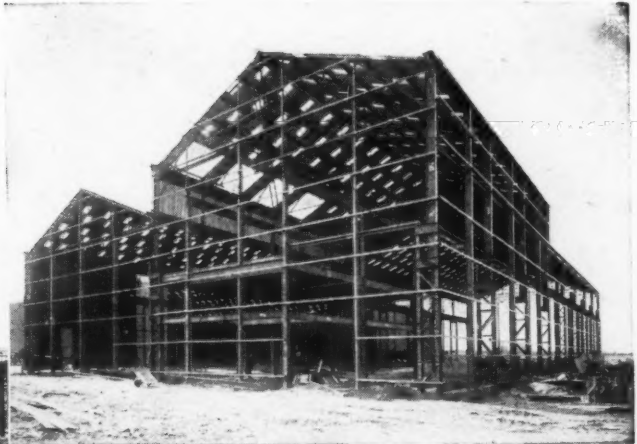
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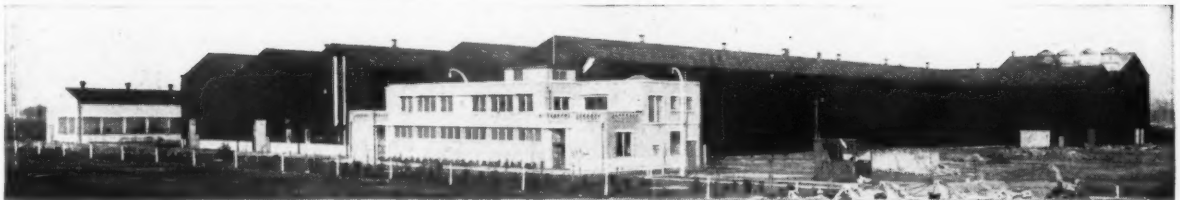
Works at Croxley Green, Enderby near Leicester, and Paisley

S/3,51 

STRUCTURAL



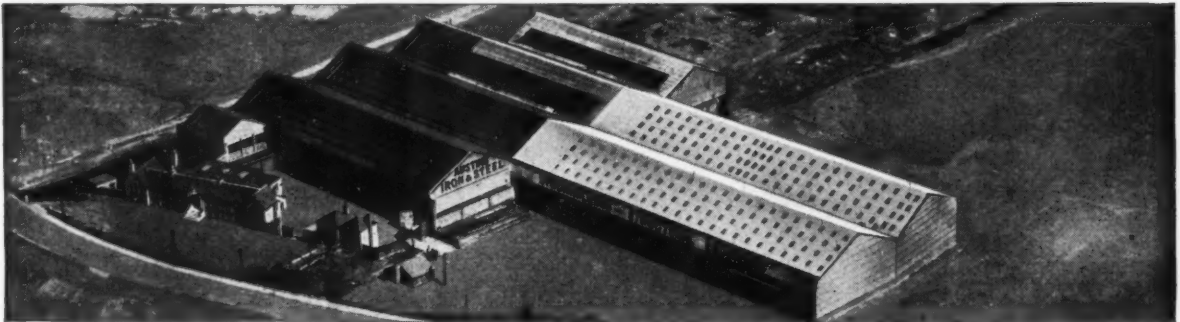
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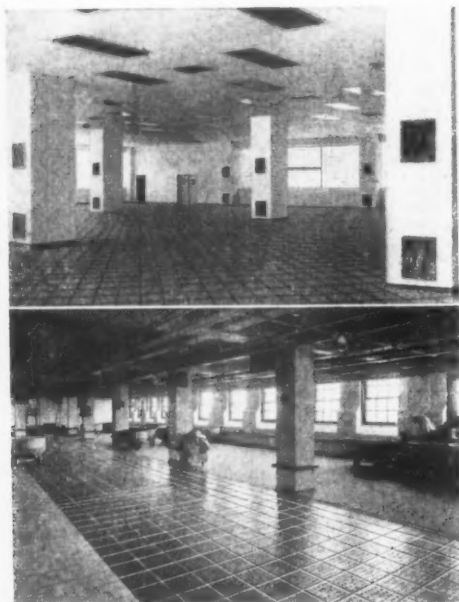
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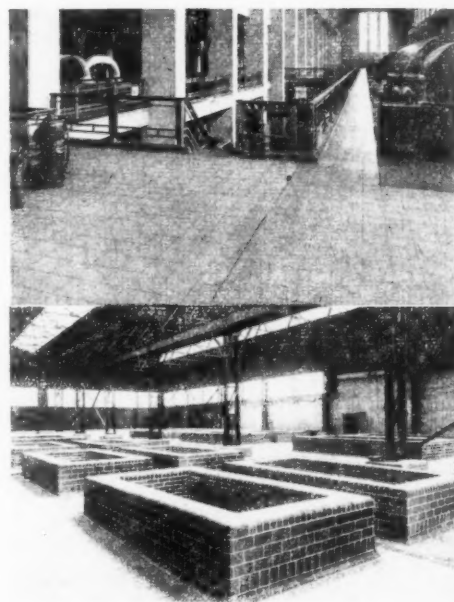
Red "Ferrogran" flag flooring in a Printing Works.

"Prodordur" tile floor in a Midlands Power Station.

"Consol" steel anchor floor plates in a Dough Room.

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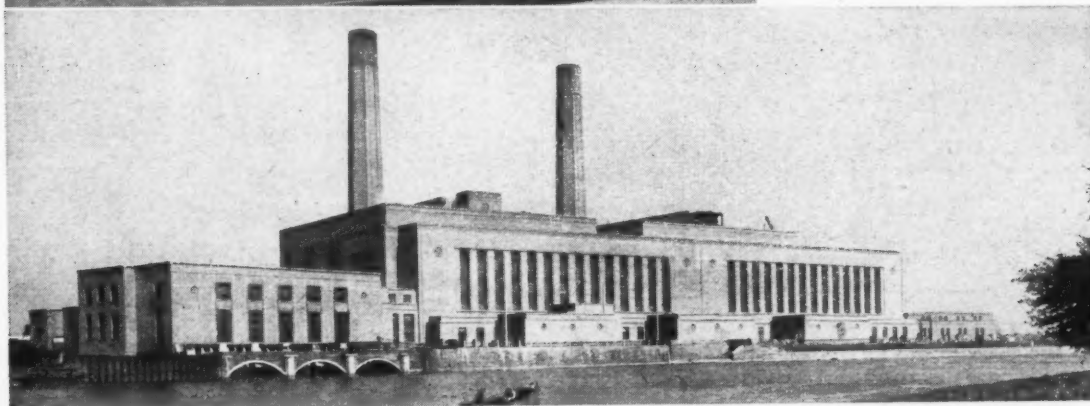


Above: Portion of Croydon Power Station, under construction.
Architect: Robert Atkinson, F.R.I.B.A.



Left: Stourport 'B' Power Station.
Architects: Farmer & Dark, F/R.I.B.A.

Below: Staythorpe Power Station.
Architect: T. Cecil Howitt, D.S.O., O.B.E., F.R.I.B.A.



BRICK

The Modern Building Material

Photographs
by courtesy of
British Electricity Authority

Issued by
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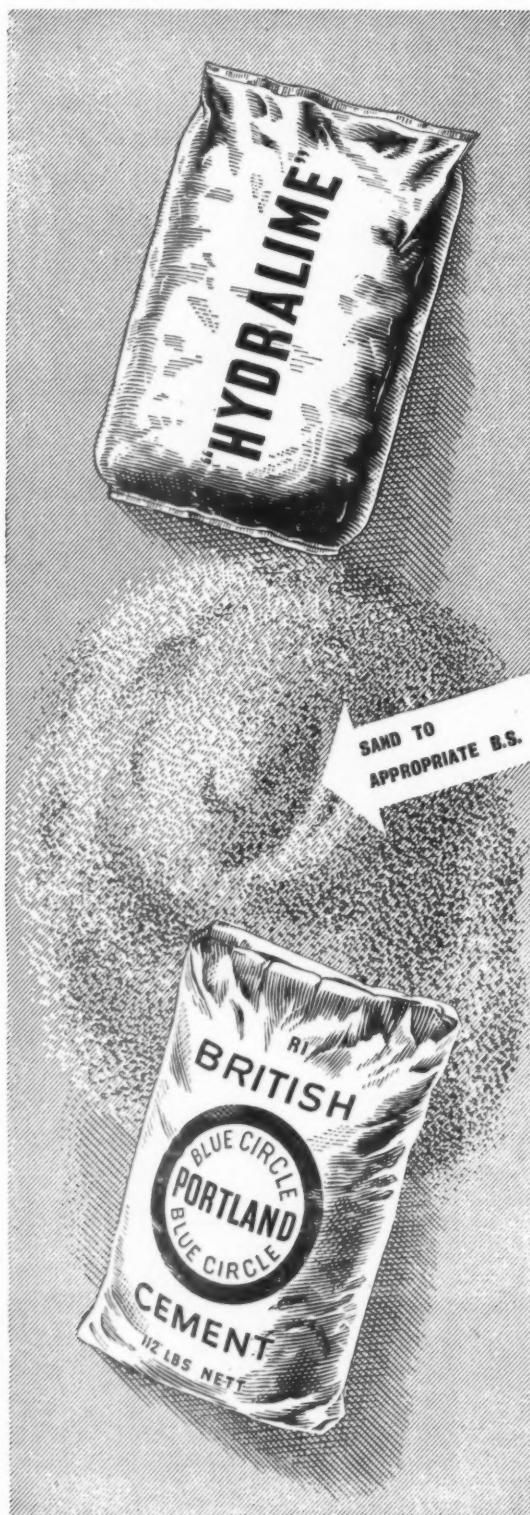


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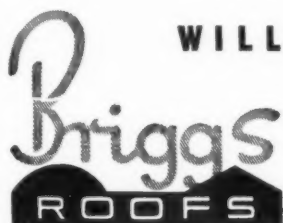


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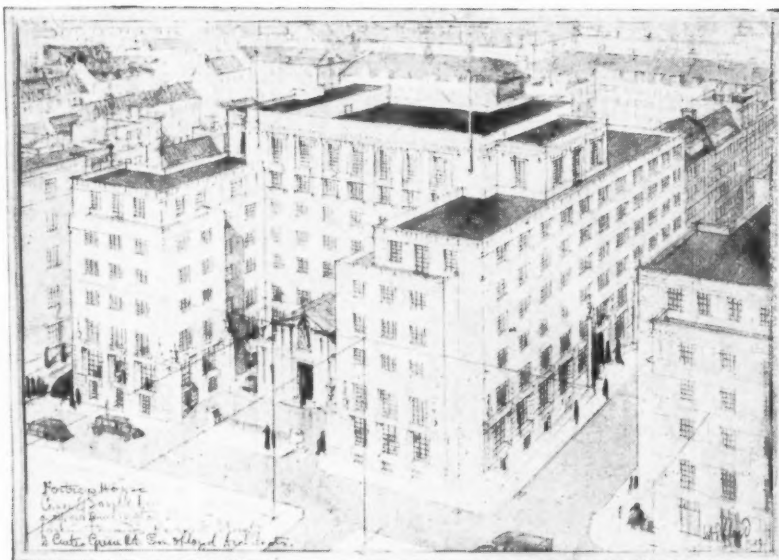
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This imposing new office block—23 Savile Row, now the headquarters of the Ministry of Local Government and Planning—is floored throughout with Accotile, "the low-cost floor with the luxury look."

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BUILDERS—Sir Robert McAlpine and Sons Ltd., 80 Park Lane, W.1.



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Accotile is kept fresh and new-looking indefinitely by normal sweeping and washing, but may be polished if an extra high finish is desired. It offers good resistance to most acids and, being non-absorbent, does not stain.

* * *

If you would like to hear more about Accotile—please write to us. We shall be pleased to send you full information. Armstrong's Accotile Flooring, Armstrong Cork Company Limited, Bush House, Aldwych, London W.C.2. Tel.: Chancery 6281. Scottish Branch: 5 Oswald Street, Glasgow C.1. Tel.: Central 5703.

FOR PUBLIC BUILDINGS, HOUSES, SCHOOLS, HOSPITALS, AND COMMERCIAL PREMISES

Accotile is quiet and comfortable to walk on, warm and non-slip.

Armstrong's Top-Set Coved Skirting, available in Pompeian Red and Plain Black, gives an added finish.

In existing buildings, Accotile is laid in a matter of hours and can be used immediately, so that occupation of the room is disturbed for the minimum time.

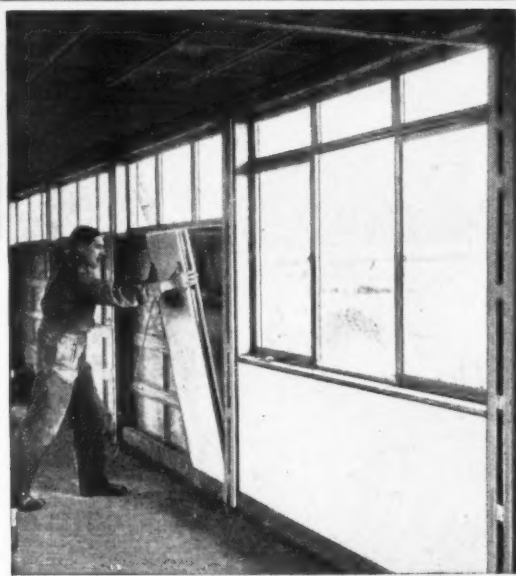
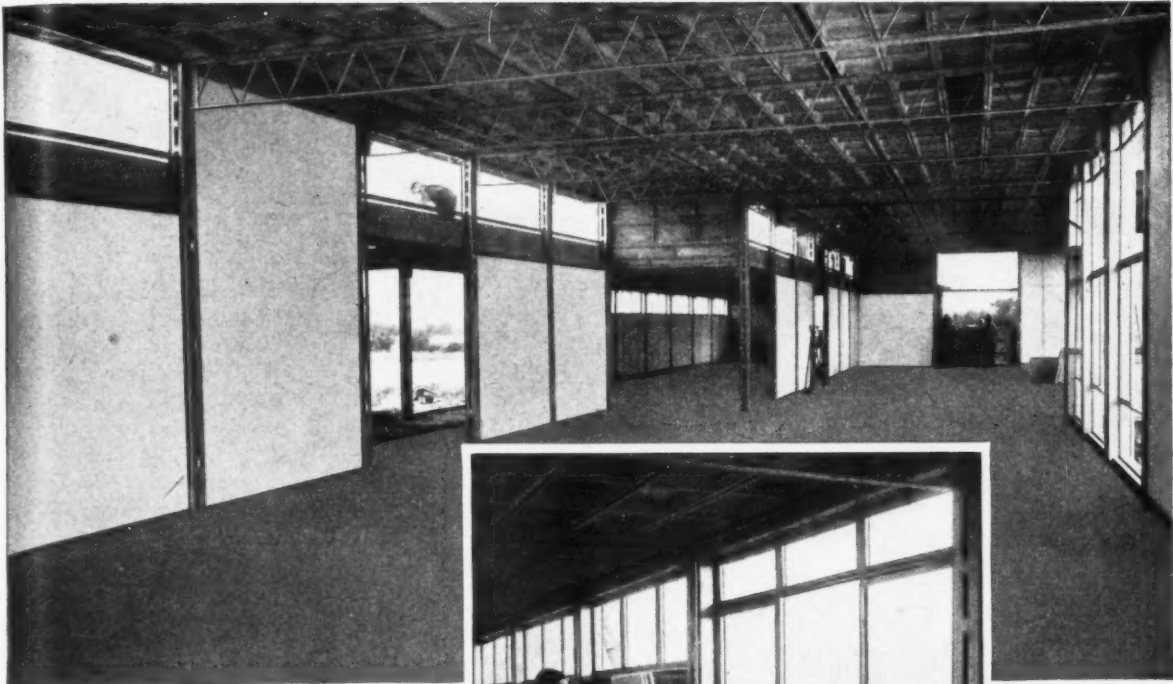
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Armstrong's Accotile is a composition of inert asbestos fibres and ground rock fillers, fadeless mineral pigment, and asphalt or resin binders, supplied in accurately-cut tiles (sizes 12" x 12", 9" x 9" and 6" x 6"), border strips, etc. With 20 years' successful experience in America behind it, it is now manufactured in England at the Tyneside factory of the Armstrong Cork Company Ltd.

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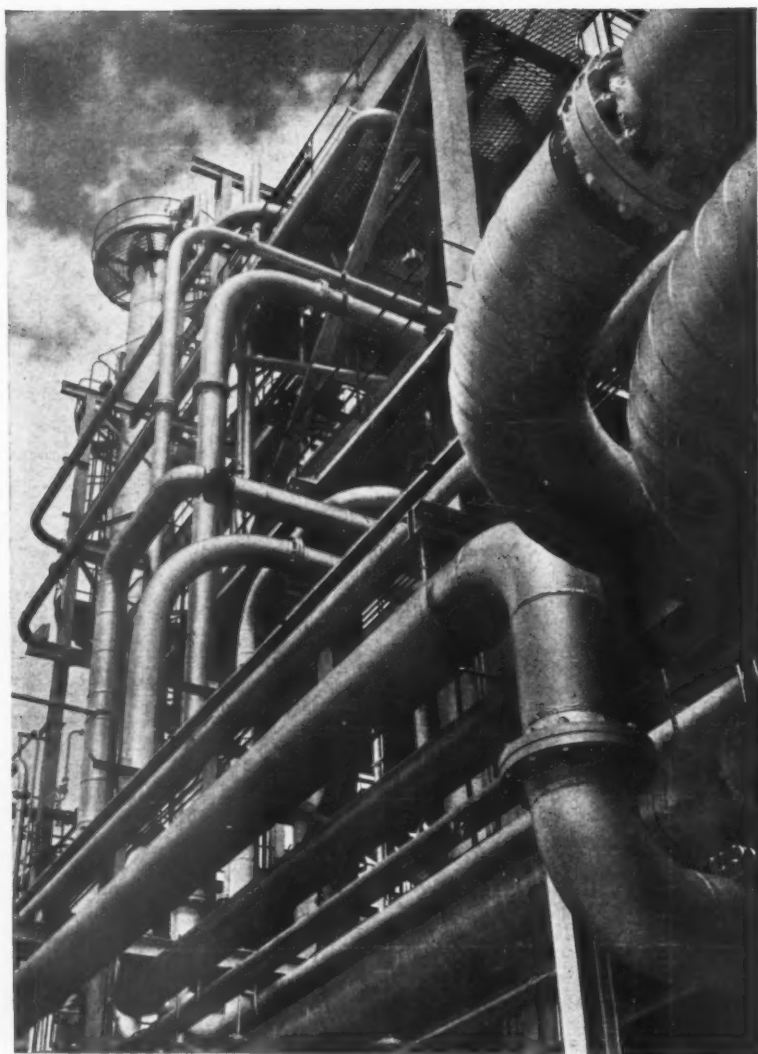


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About Aluminium...

3

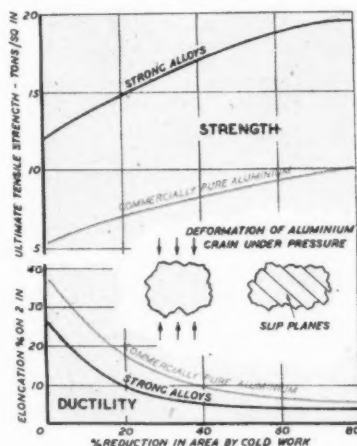
HEAT TREATMENT

AS applied to aluminium and its alloys, the term "heat treatment" usually implies those processes, more specifically called *solution treatment* and *precipitation treatment*, by which the mechanical properties of certain alloys may be improved.

With these should logically be considered *annealing*, which has the effect of softening all forms of aluminium, and is often necessary, during fabrication, to remove the effect of work-hardening as a prelude to further cold-forming operations. This is the only thermal treatment applied to the simpler work-hardening type of aluminium alloy, and may well be described first.

Annealing

Aluminium, like other metals, has a structure of innumerable crystals or grains. Cold working, as in rolling or drawing, distorts this structure; the individual grains are deformed, movement taking place along slip planes, and there is as a consequence an increased resistance of the metal as a whole to further deformation. It is then said to be *strain- or work-hardened*, and this state is permanent at ordinary temperatures.



Work Hardening

If the metal is heated, some relief of the internal stresses begins; this is *recovery*. As the temperature rises, the distorted original grains disappear and new grains grow to form a stress-free system. This *recrystallisation* brings the metal to its softest state.

These effects depend on time as well as temperature; so that the change may be completed quickly, it is usual to heat in air at a much higher temperature (340° C to 450° C) than the minimum necessary for recrystallisation. Apart from convenience,

In this series of articles, the student will find the broad outlines of the technology of aluminium. No completeness is claimed for these notes, but it is hoped that they may provide an introduction to the characteristics of this important structural metal.

this is done to avoid the merging of crystals to form larger ones, which is encouraged by, among other factors, long heating time. *Grain growth*, as it is called, impairs mechanical properties and surface finish. Alloys that are especially prone to grain growth are sometimes annealed more rapidly in molten salts at about 500° C.

Annealing, which is normally carried out in electrical or gas-fired air furnaces, is used to make further cold working possible, and several anneals may be needed before the metal reaches its final shape. A variation is *partial-, back-, or temper-annealing*, where fully hard material of some compositions may be allowed to soften only to the intermediate degree of hardness, or temper, required.

Solution Treatment

Certain metals, of which copper is the best example, are capable, in the solid state, of true solution in aluminium. The amount of such elements that the aluminium will accept is limited, but increases with temperature. If the temperature is lowered again, the excess proportion of the alloying element forms compounds, such as CuAl_2 , which are deposited within the grains, and on their quantity, and more especially on their size, depends the resistance of the structure to deformation and hence the mechanical properties of the alloy.

Solution treatment, sometimes called *normalising* (from a faulty analogy with steel metallurgy) or simply "heat-treatment", is a process by which this phenomenon is exploited. The temperature is raised to about 500° C, usually in a bath of molten sodium nitrate, until the alloying elements are taken fully into solid solution. The alloy is then cooled, by quenching in water, too quickly for the dissolved elements to be precipitated; the solution remains supersaturated and the metal is temporarily soft. This condition is unstable and precipitation gradually takes place in the form of extremely fine particles. This small particle size (about $1/10,000,000$ in. dia.) enhances the tenacity of the metal, which is then said to have *age-hardened or aged*.

Refrigeration is sometimes used to delay precipitation from the supersaturated

state. In rivets, for example, the soft, formable condition that prevails for an hour or so after solution treatment may be maintained for about twenty hours, if need be, by storing at a low temperature.

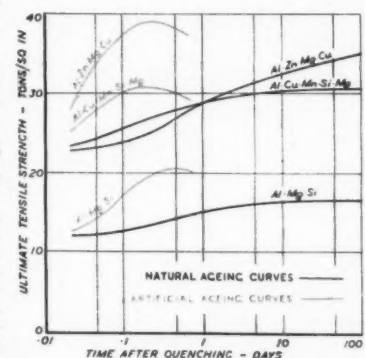
Precipitation Treatment

In some alloys, the spontaneous ageing process just described is complete after a few days at room temperature. A greater degree of precipitation and hardening than occurs naturally is, in certain alloys, induced by heating to about 170° C for ten hours or so (time and temperature depending on the composition). This is called *precipitation treatment or artificial ageing*. Excess treatment, either in temperature or time, causes undesirable growth of the precipitated particles, reducing their effectiveness in strengthening the metal.

Temper Designation

The condition of an alloy is conveniently indicated by a symbol placed after its specification number. The system adopted by the British Standards Institution is as follows:

- M — as manufactured, with no heat treatment and without regard to work-hardening.
- O — annealed, soft.
- $1/4\text{H}$, $1/2\text{H}$, $3/4\text{H}$ or H — the degree of work-hardening resulting from rolling or drawing.
- W — solution heat treated.
- P — precipitation heat treated (artificially aged).
- T — solution heat treated and naturally aged.



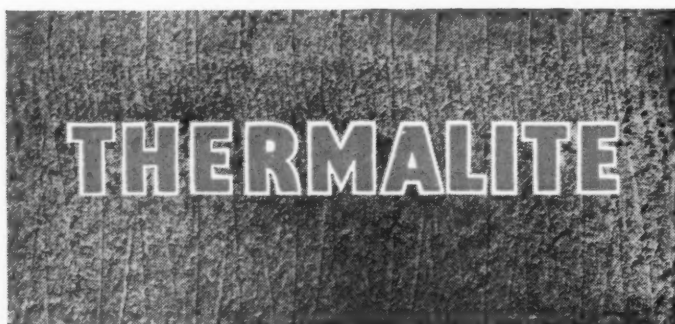
Ageing

The fourth article in this series will be concerned with tensile properties.

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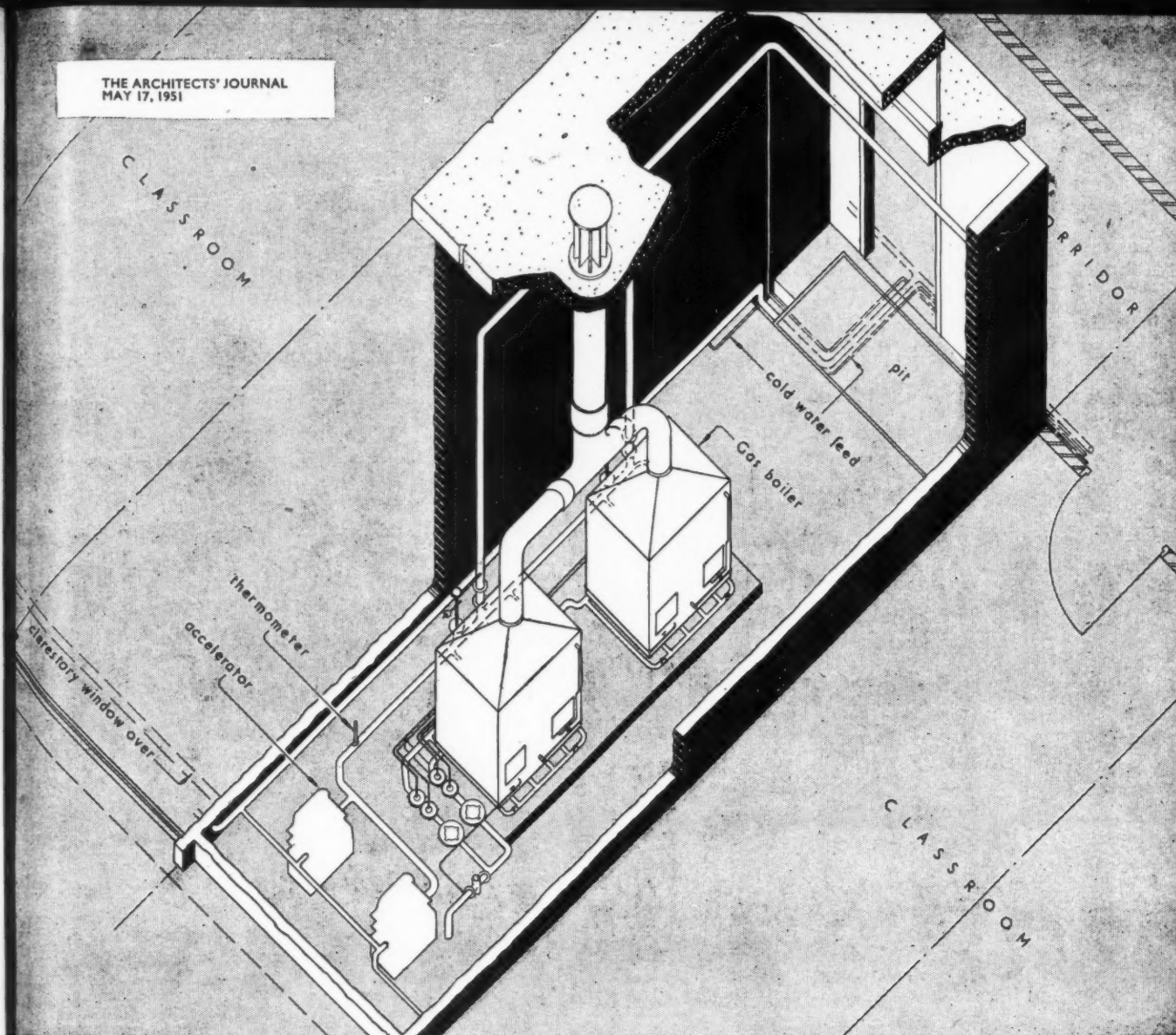
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Boiler house for New Classroom Block, Twickenham Technical College. County Architect : C. G. Stillman, F.R.I.B.A.

GAS solved this school heating problem

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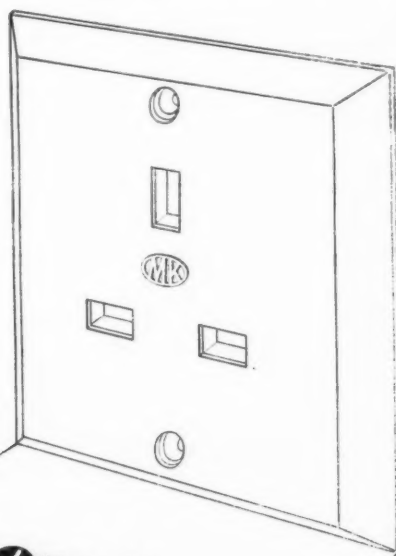
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Italy: Compagnia Finanziaria Industriale & Mercatille S. a R. L., 11, Corso Sempione, Milan, Italy.

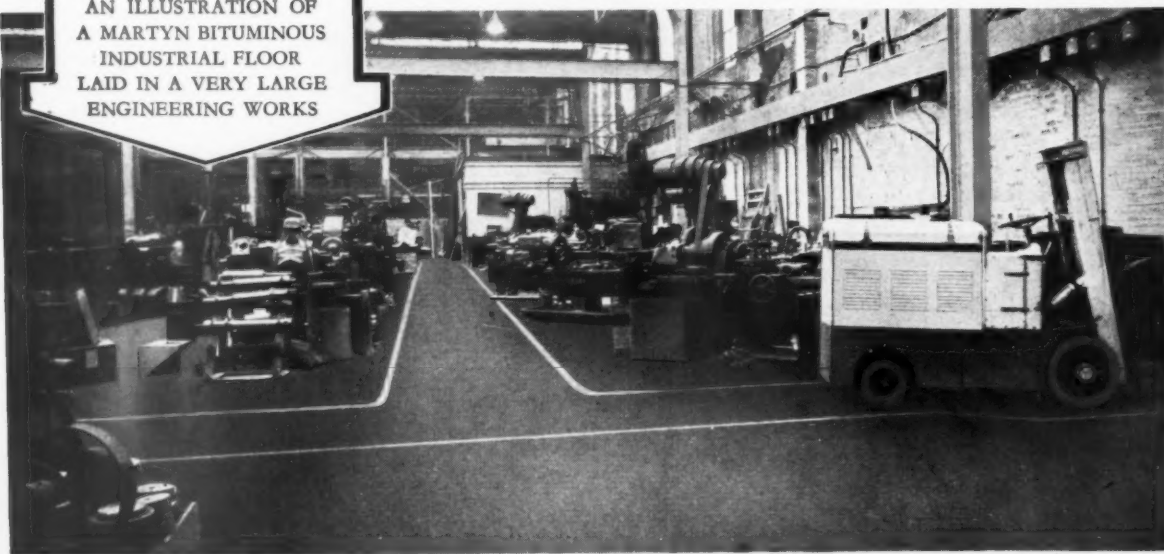
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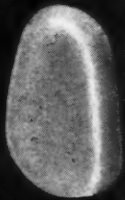
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TOURING THE KITCHENS

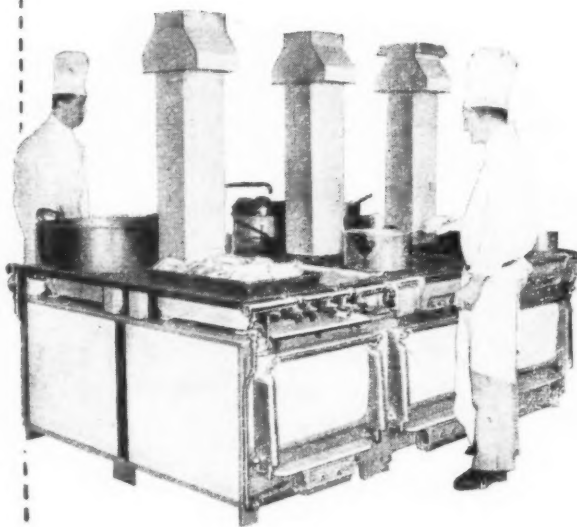


Hydro Harrogate

That sightseers visit the kitchens of His Late Majesty, King Henry VIII at Hampton Court Palace, or those of big ships at sea, is common knowledge.

Less well known but more worth knowing is the fact that the Manager of the Hydro Hotel, Harrogate, regularly takes guests on tours of *his* kitchens. It is perhaps scarcely necessary to add that these are equipped throughout by Radiation (Large Cooking Equipment) Ltd.

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Architect: P. Billington, A.R.I.B.A., A.M.T.P.I.

Contractors: Kirk & Kirk, Putney, S.W.15.

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They would have withstood the tramp of booted and spurred gallants, just as today they withstand the tread of even the most heavy-footed modern. The ease of installation and maintenance of these Tiles would have astounded the craftsmen who built the inn: their beauty, their comfort, their range of colours and designs would have delighted them. These are the qualities which make Semastic Decorative Tiles a first choice for hotel and public house floor coverings

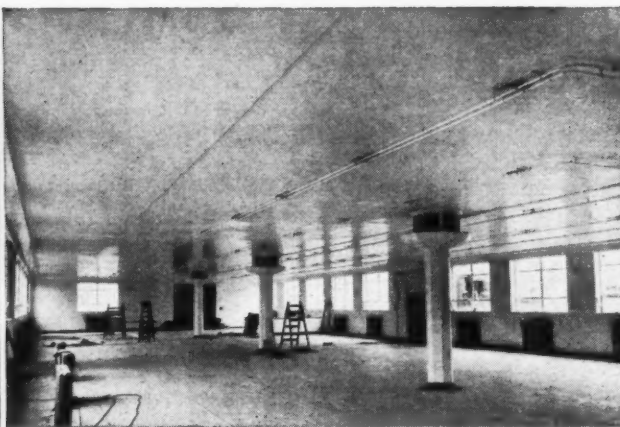
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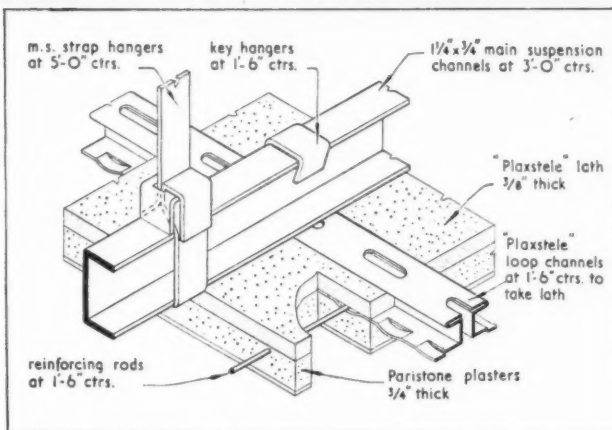
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The photographs show
*a large area of PLAXSTELE ceiling before
and after plastering, decorating and
fixing strip lighting.*

The isometric sketch shows
the general assembly of the component parts.

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Newalls Sprayed Limpet Asbestos is also widely used for Acoustic Correction in Cinemas, Churches, and other Auditoria.

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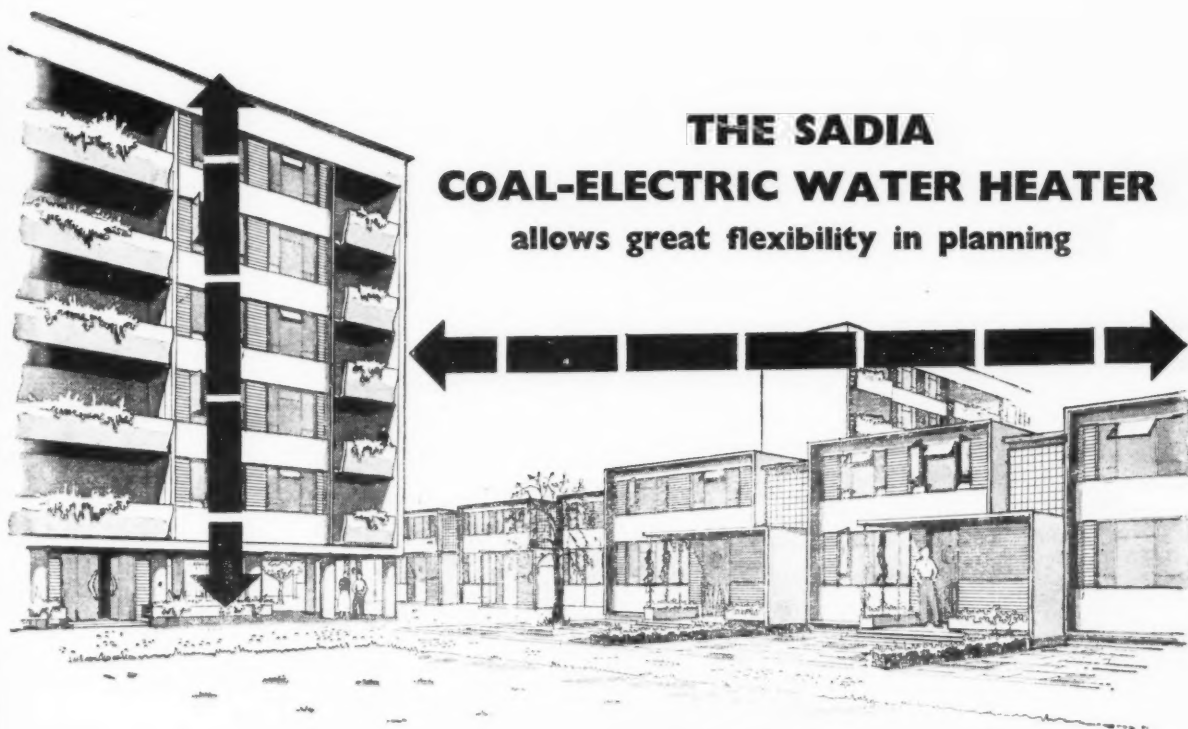


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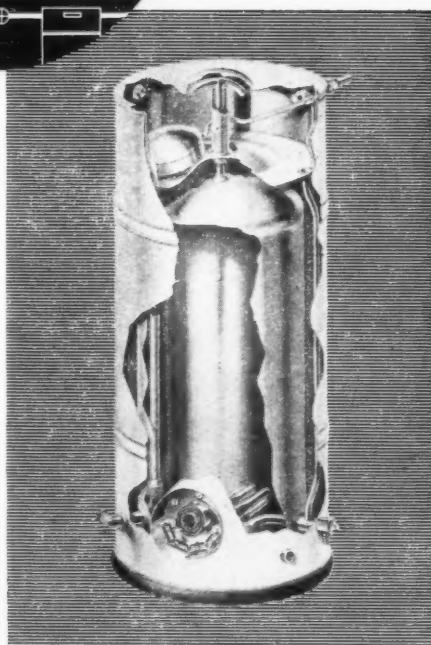
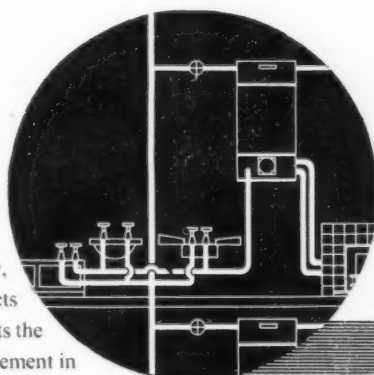
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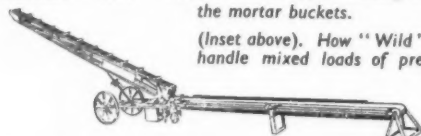
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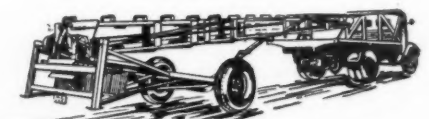
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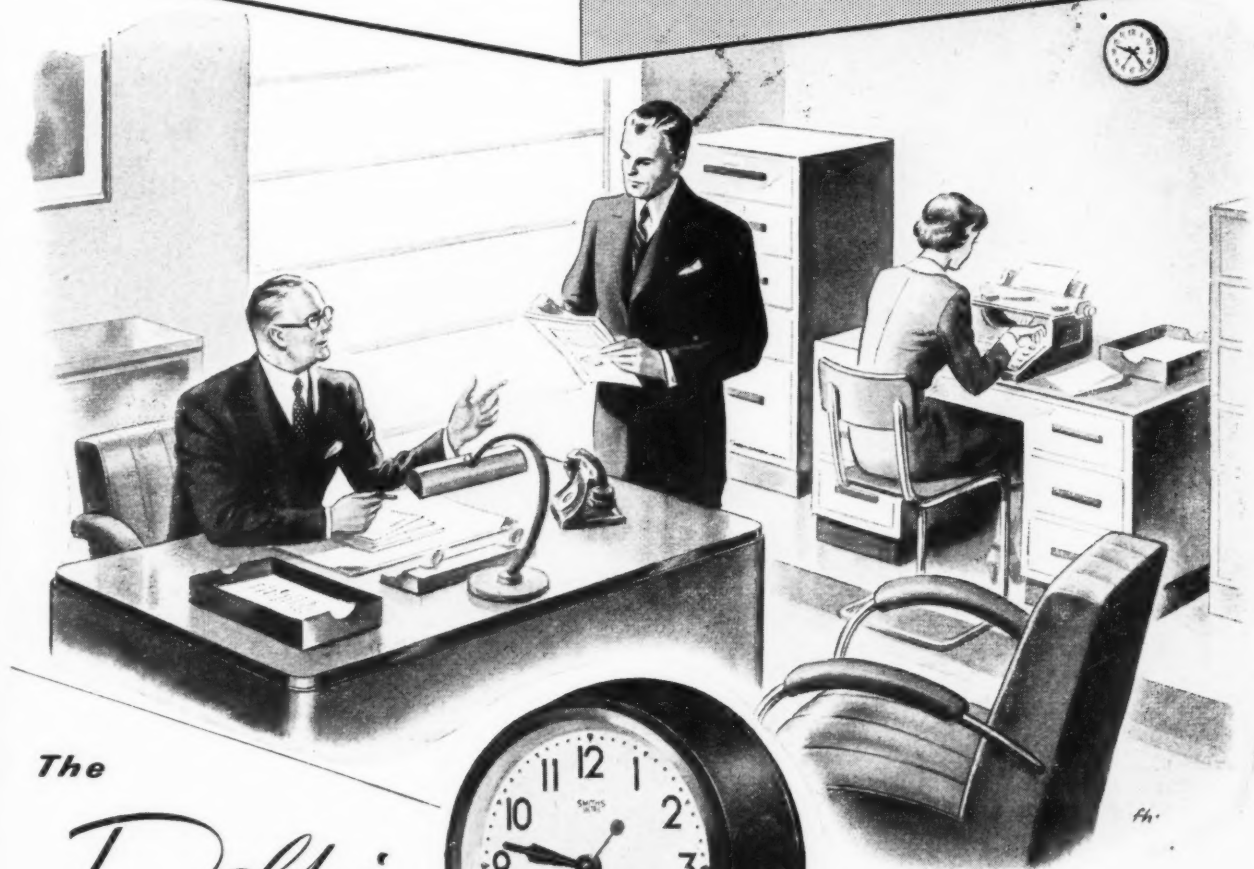
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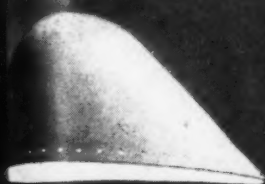
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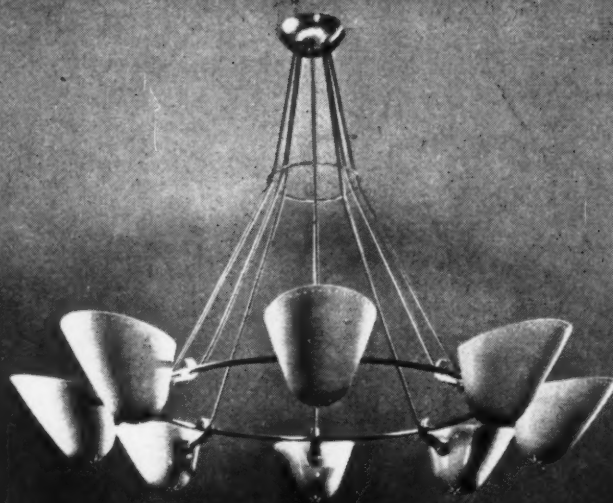
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FV. 15/R WALL BRACKET. Fixed. Small metal reflector. Finishes: reflector, off-white; backplate, brass or satin chromium. Lamp: up to 60 watts.



FV. 118/R PENDANT. Eight-light ring with large metal reflectors. Finishes: reflectors and supports, off-white; remainder, satin brass. Flexible cords, white. Lamps: up to 8 x 100 watts.



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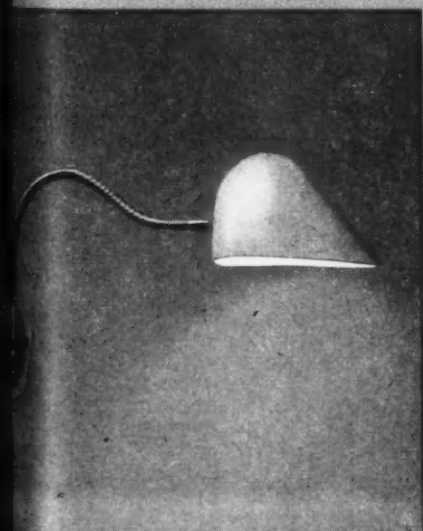
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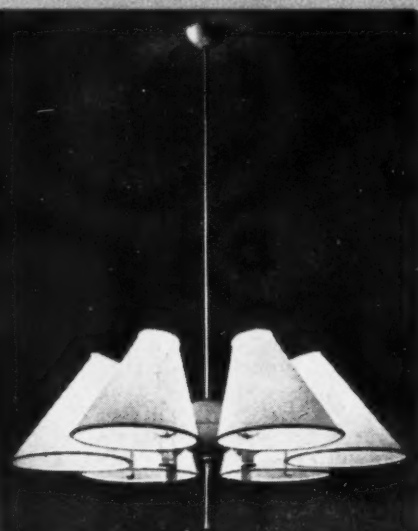
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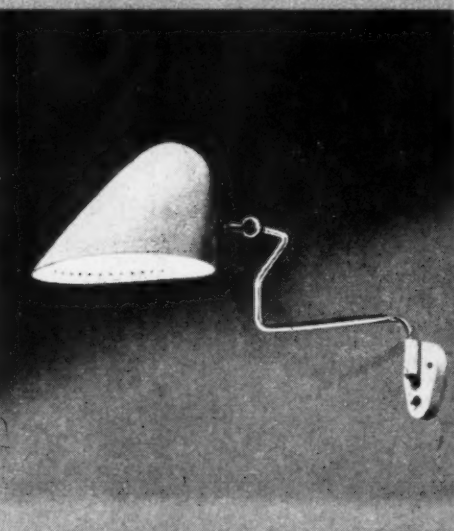
FV. 15/R WALL BRACKET. Adjustable small unpierced reflector. Finishes: reflector and backplate, off-white; arm, brass. Complete with switch. Lamp: up to 60 watts.



FV. 16/S PENDANT. Six-light. Shades with turning arms. Finishes: centre body and ceiling plate, off-white; remainder, satin brass or satin chromium. Shades: ivory or peach plastic. Lamps: up to 6 x 75 watts.



FV. 2/R BRACKET. Adjustable arm. Large metal reflector. Finishes: reflector and backplate, off-white; arm, satin brass or satin chromium. Complete with switch. Lamp: up to 100 watts.





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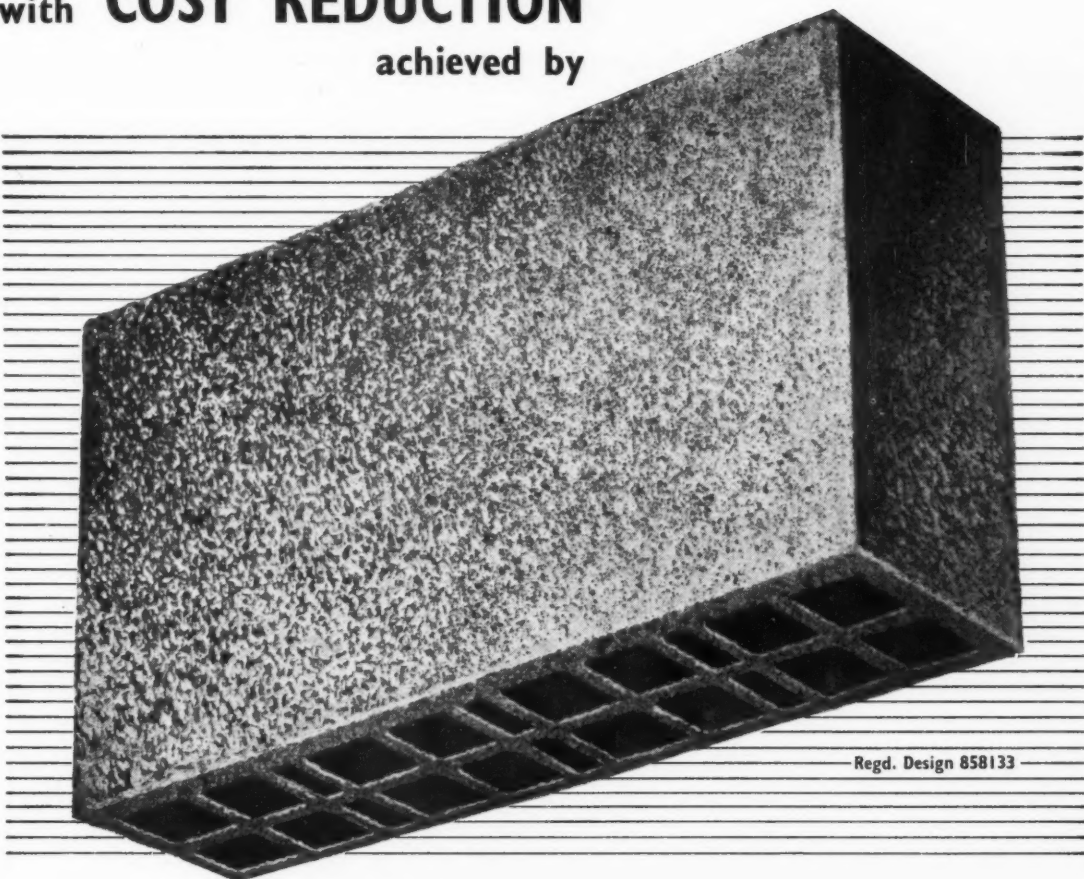
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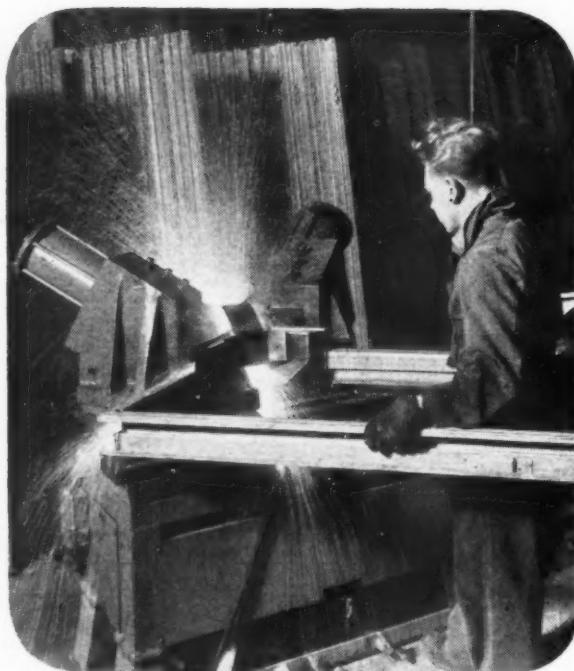
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THE ARCHITECTS' JOURNAL

No. 2933

17 MAY 1951

VOL 113

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OPEN-AIR SCULPTURE

The LCC were thoroughly justified in deciding that their open-air sculpture exhibition, held in Battersea Park, in 1948, was worth repeating. It should be a regular event, and Mrs. Dalton and her committee are to be congratulated on bringing off another fascinating show. Even the cold east wind that seems determined to be doing all it can to blight every Festival occasion could not prevent the opening last week being a success.

Having said that, I hope I shall be forgiven for saying I didn't think it as good a show as last year. It isn't so much that there are more second-rate pieces, as that the second-rate pieces have been given the most prominent sites so that one is more aware of them. The central lawn is dominated by a huge plaster decoration by Maurice

Lambert which I thought quite unworthy of the position—others of course may disagree—and works by Dobson, Epstein and Lipchitz, none of which are anything like the best these sculptors can do.

The best piece on the central lawn I thought was the equestrian figure by Marino Marini (whose one-man show at the Hanover Gallery no one should miss), though it is a little small to look its best out of doors. That is a criticism that can be made of several of the exhibits; it is interesting to notice how an outdoor-setting makes a figure below a certain size lose all its serious qualities and become a toy—a case in point is the Giacometti.

One other general criticism is that several of the exhibits—including an interesting Pevsner abstraction—that happen to be dark in colour are posed against dark vegetation and become almost invisible. But better weather may help this. Better weather, too, should bring people in their thousands. Whatever faults one may find it remains a splendid show, with a number of really good pieces by Henry Moore, Despiau, Skeaping, Reg Butler, Karin Jonzen, Maillol, Soukop, Wotruba and others.

TECHNICAL HITCH

Even the most solemn occasions seldom pass off without a little light relief, and the triumphantly successful opening of the Royal Festival Hall ran true to form with a bit of unrehearsed drama behind the scenes. All that the audience heard of it was the surprising sound of a telephone bell while the Archbishop of Canterbury was conducting the dedication service—and they wouldn't have heard that if it hadn't been for the wonderfully

sensitive acoustics of the auditorium. The telephone in fact rang twice. It was an SOS from Gerald Barry and the Lord Mayor of London, stuck in a lift. They were on the way up to their box when it happened, after attending the ceremony of unveiling an inscription performed by the King when the Royal party entered the building. Fortunately the lifts have a telephone, so when the lift stuck they were able to call down to the auditorium.

The official who answered it, somewhere off-stage (at least that is how the story reaches me) thought his leg was being pulled, told the callers not to be silly and rang off. The imprisoned victims waited as patiently as they could and then rang again. This time they were believed and they were released in time to hear the concert which formed the second part of the programme.

PREMIUMS FOR ARCHITECTS

The Minister of Planning & Local Government has dropped a broad hint to the local housing authorities that it is very much in their interests to employ qualified architects for their housing schemes. In a recent circular the Minister informed the councils that if they employed architects on their work, he would not require them to submit their proposals to his Ministry for approval. This praiseworthy step will, at the same time, eliminate an administrative bottleneck and should improve the standard of design of the housing of certain local authorities. I feel fairly certain that if Councillors realize that by employing an outside architect they can speed up their housing, they will not be so willing to let their unqualified (architecturally) surveyor do the work instead.

C R E A T I O N W I T H C R A F T S M A N S H I P



A section of the new Ladies Powder Room at Messrs. Selfridges Limited, London, W.1.
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Astragal takes the opportunity of congratulating the South Bank design team which is shown in the above photograph. From left to right ; Hugh Casson, co-ordinating architect, downstream area ; James Gardner, co-ordinating designer, downstream area ; R. T. James, of R. T. James and Partners, consulting engineer ; Ralph Tubbs, architect for the Dome ; James Holland, co-ordinating designer, upstream area ; Misha Black co-ordinating architect, upstream area ; Ralph Freeman, of Freeman, Fox and Partners, consulting engineer.

This latest piece of wisdom from MOLGP should also serve to put architects who do housing work on their mettle. It has seemed from time to time as though architects have been slightly irresponsible about the design of houses for their local committees. There are cases where the same type plans, prepared in 1945 and even then not very good ones, have done duty for every housing scheme since. There have surely been some advances in the last five years or so. Architects would probably be encouraged to think a bit harder if they were required to explain to their housing committee why they had made no change from their designs of the previous year, for with BRS, TDA, and HMSO pouring out technical studies there should be some development even in the most backward areas.

BRISTOL FASHION

My illustration (right) shows the progress which has been made in providing Bristol's new municipal buildings with a fresh setting. It is the subject of an irate letter from a correspondent published on page 620 of this issue.

*

The triangular piece of land in the foreground is known as College Green. Until a few months ago it was shaded by some magnificent trees (planes, if I

remember aright) which provided a very pleasant green foil to the intricacy of the fourteenth - cum - nineteenth century cathedral which stands just out of sight on the left of the photograph below.

*

Adverse criticism before a design is finished is usually hardly fair. Nevertheless there are points already apparent in this design which, deck them out how you will, will always be unpleasant. The way, for example, the axis of the paths is just off centre of the

axis of the building, and the way the paths firmly and splendidly lead nowhere. I will not comment on the architecture, by this year's Gold Medallist Vincent Harris, if only because it is old news, but I would like to make an appeal for the planting on the Green of quick-growing trees as soon as possible. This kind of building will never sit easily beside the cathedral. Geraniums red and delphiniums blue, or the arboreal equivalent, for this particular Bristol dormouse, and the higher the better.



Work in progress on the new setting for Bristol's new municipal building. See note above.



Ruling the Waves

Almost everywhere he goes on the South Bank exhibition site the visitor is drawn to the river, which, as is generally known by now, has been imaginatively incorporated into the exhibition design. If the visitor enters the downstream section of the site from the Waterloo Bridge entrance, the point from which the JOURNAL has started its South Bank tour in this issue, his eye will be directed to the river by the harbour (see page 624) and, as he moves along the overhead walk from here, by the "look-out" platforms which are suspended over the Thames (page 625). If, on the other hand, the visitor goes into the exhibition from the Waterloo Station entrance, he will be persuaded (if he

follows his nose and not the official guide) to approach the river from the main piazza. But if he follows his guide, he will learn as much from his ear as from his eye that he is approaching the water. As he rounds the corner of the Sea and Ships Pavilion he will hear the sound of the sea breaking on the shore, an effect produced by Richard Huw's Mobile water sculpture (above) which virtually rules the waves. Further along the river is Charoux's family group and beyond, the Powell-Moya Skylon, one of several features of the exhibition which are, happily, completely useless, in no way symbolic and altogether pleasant to have about the place.

THE FIVE TO ONE RATIO

Readers will have seen references, no doubt, to the decision of the Minister of Local Government and Planning to allow changes in the ratio of five to one for local authority and private house building when there are a large number of applications for licences to build. I was therefore surprised to see in a recent *Hansard* that of seventy-five applications made for decreasing the ratio in favour of private building only nine had been granted.

*

Of course figures can prove anything, but I was interested to see that Mr. Lindgren, Parliamentary Secretary to the MOLGP, could put up a strong case for the small number of applications granted. On investigation, apparently, on the basis of discovering how much separate accommodation was really needed, the long lists of private house builders dwindled rapidly. The nine applications granted were, it seems, the only genuine cases which could be discovered in which the five to one building ratio did not adequately cover the demand of the private builder for essential accommodation.

ASTRAGAL

DIARY

Reclaiming the Desert. Ritchie Calder. At 28, King Street, Covent Garden, W.C.2. (Sponsor, TPCA.) 6.15 p.m.

MAY 24

British Architects' Conference. At Belfast. (Sponsor RIBA.)

MAY 30-JUNE 2

25th Annual County Meeting. At Southampton. (Sponsors, TPI, 18, Ashley Place, S.W.1.)

MAY 25-27

FOB South Bank Exhibition. Daily 10.30 a.m. to 11.30 p.m. Sundays, 12.30 p.m. to 11 p.m.

UNTIL SEPT. 30

Exhibition of Exhibitions. At Royal Society of Arts, John Adam Street, W.C.2. Mondays to Saturdays, 10 a.m. to 6 p.m. (Wednesdays, 10 a.m. to 8 p.m.)

UNTIL SEPT. 30

FOB Exhibition of Architecture. At Lansbury, Poplar. Weekdays, 10.30 a.m. to 8 p.m. Sundays, 12.30 p.m. to 8 p.m.

UNTIL SEPT. 30

Exhibition of Science. At the Science Museum, South Kensington. Weekdays (except Tuesdays and Saturdays), 12 noon to 10 p.m. Tuesdays and Saturdays, 10 a.m. to 6 p.m. Sundays, 2.30 p.m. to 6 p.m.

UNTIL SEPT. 30

1851 Centenary Exhibition. At Victoria and Albert Museum, South Kensington. Weekdays, 10 a.m. to 6 p.m. Sundays, 2.30 p.m. to 6 p.m.

UNTIL OCT. 11

The Editors

MODERN ARCHITECTURE MAKES GOOD

"PEOPLE making for the South Bank," wrote the London correspondent of the *Manchester Guardian*, "begin to smile as they come close to it. This is something new for London—people in the mass with smiles on their faces. And the smiles persist because for once the pleasures of realization more than match those of anticipation." This is something new for architects too: to find that the ordinary citizen, faced by twenty-seven acres of modern architecture and contemporary design, not only accepts it but delights in it, and is eager for more.

The strength of public reaction can be judged pretty accurately by the comments of the daily press, and almost without exception they express approval. Surprise, too, of course, and occasionally mystification, but the really encouraging and most delightful fact is that modern architecture, the contemporary style, call it what you will, is overwhelmingly popular. For the first time it has been given a real chance to show its hand in this country. A wonderful site on the edge of the Thames and, in what appears now to have been the neglected, but true, centre of London. A site which commands views from Westminster Palace to St. Paul's on three sides, and, on the fourth, the black, congested and grimy squalor of Waterloo acting as an acid to etch deep the lesson this exhibition teaches.

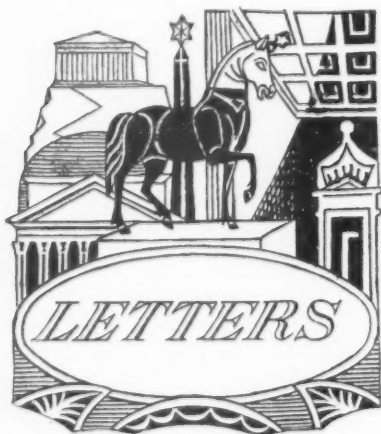
For the last twenty years it has been evident in this country that, in the dreary battle of styles, modern architecture was slowly but inevitably winning. It was not, however, until the members of the Council for Architecture, set up to advise the Festival organization, were named and the Director of Architecture for the Festival of Britain appointed that it became obvious that there was to be given an opportunity to the advocates of contemporary architecture which literally could only occur once, if then, in a hundred years. An opportunity which, we are thankful to report, has been splendidly taken. This '51 Festival as a whole, and in particular the Lansbury and South Bank exhibitions, are showing the nation just how worthwhile modern design can be.

The JOURNAL, then, in acknowledgment of the very great efforts which have been made to launch this Festival, wholeheartedly offers its congratulations to those chiefly concerned. Firstly, to Herbert Morrison, who, as Lord President of the Council, was mainly responsible for Festival preparations. It is only due to his single-mindedness and persistence in the face of intense opposition that we are having a Festival at all. Secondly, to Gerald Barry, Director General of the Festival, for his brilliant organization and for his ability to ensure that the most suitable person was found for each job. Thirdly, to Hugh Casson, Director of Architecture on the Exhibition Presentation Panel, who, with fellow architect members, Misha Black, James Gardner and Ralph Tubbs, planned,

directed and ensured the very high standard of architectural design now to be seen on the South Bank.

Most of this week's JOURNAL is devoted to giving an overall survey of the South Bank Exhibition. Next week we hope to pay more attention to the individual pavilions themselves. The lesson which this South Bank exhibition teaches is a simple one, but one of the hardest to carry out successfully. The result has not been matched in this country for well over a hundred years. For the architect, in addition to being an exhibition, it is, above all, an excursion into the art of townscape, in the greatest and most embracing sense of the word. Packed into twenty-seven acres is a richness of visual effect obtained only by capturing the world outside the boundaries of the site as well as by paying meticulous attention to detail. The ground surfaces have been as carefully considered as the planting in the gardens and the surfaces of walls and roofs. The street furniture which can do so much to make or mar a scene has been as carefully positioned as it has been designed.

There are faults; of course there are faults. This is, after all, only a first attempt by the present generation at an art which has nearly died. But study the photographs which follow and see what a magnificent attempt has been made. Better still, go to the site and study the design for yourself. It is every architect's duty to do so. Modern architecture in the mass (surprisingly enough, state approved and sponsored) has well and truly arrived, and the people love it.



R. Cuddon

C. H. Knight

F. V. Bennett

Desecration at Bristol

SIR.—The placing of the Unicorns on the new Municipal Buildings in Bristol recently gave rise to considerable public criticism and

controversy. Something however seems, to have escaped public comment, that is the felling of the mature plane trees that once graced College Green. On a recent visit to Bristol I was horrified to find that the Cathedral and the lovely Lord Mayor's Chapel are now reduced to insignificance by the dominating character of the new building and the naked expanse that lies before it.

The anger that I felt on first seeing the levelled site has been replaced by a feeling of uneasiness. This desecration is the latest and perhaps the most obvious of a series of civic tragedies that have occurred in and around this city. I fear now that the misguided intentions of the Corporation and its advisers will soon denude Bristol of all its charm and original character.

The carpeting of the site with the finest grass seed, the planting of innumerable flowering shrubs, the possible construction of a pond for goldfish, can surely never replace the mature and graceful dignity of the trees as they once appeared to my eyes.

Kent.

R. CUDDON.

[See ASTRAGAL'S comments and illustration on page 617.—ED.]

Durability of Lead Roofs

SIR.—Your correspondent, A. P. Holdsworth writes (April 5) that old lead roofs of churches and cathedrals might be removed for their salvage value and replaced with "equally suitable more modern materials." What is equally suitable? The lead roofs of old churches have a character of their own that is part of the character of these

buildings. Surely it is desirable to preserve a lead roof for the sake of preserving the character of the building.

A well laid lead roof covering on a sound roof structure will have a very long life, and renovations to achieve this condition are worth while if there is intention to extend the life of a church for as long as possible.

Whether or not a saving of 40-50 lb. per square yard load on a roof would avoid the need to repair an unsound roof structure, is a question that can only be answered in individual cases. A light roof covering might prolong the life of an unsound roof but there are other loadings to consider—super-imposed and wind pressure—and a roof structure meeting the requirements of these would probably be strong enough to carry a lead covering.

Lead sheet is not exceptionally heavy for a roof covering; single lap tiling is as heavy and plain tiling is at least twice the weight.

C. H. KNIGHT.

Lead Technical Information Bureau.
London.

Building Bulletin No. 4

SIR,—I have been asked to thank you for the thoughtful treatment of Building Bulletin No. 4 in your issue of April 26, and to seek some more space in your columns for an explanation of one or two points which might lead to misunderstanding.

The third paragraph of Mr. Cleeve Barr's review suggests that the Bulletin "attempts in effect to provide a more scientific basis for approximate estimating." In fact, it is not intended that the methods suggested in the Bulletin should supersede the efficient methods of approximate estimating at present in use by quantity surveyors. The idea is simply to encourage the quantity surveyor to supply the architect at the design stage with cost information related to the functions performed by various "elements" as well as to the total cost of the building.

The Specimen Cost Analysis at Appendix 5 which you published is not intended to become a standard form of presentation. The selection of elements to be costed in any particular case will depend on the building technique. For example, "Frame A" may have its structural components spaced at such intervals as to require subsidiary structural members to carry ceilings, floors, etc. In "Frame B," on the other hand, the spacing may be such that no subsidiary structural members are necessary. The costs of these two Frames can only be compared if to the cost of "Frame A" are added the elements required to make it functionally comparable with "Frame B"; thus it may be necessary to take into account, for instance, the costs of additional items such as reinforcement of floor slabs.

Finally, I have been asked to emphasize that the Bulletin implies no change in the current procedure for approval of educational building projects by the Ministry. This does not involve a detailed examination of cost, such as Mr. Russon seems to have in mind. In order to receive approval, schemes have only to comply with the Building Regulations, and to come within the limits of total cost laid down. The Ministry undertakes detailed examinations of cost only for research and development purposes.

London.

F. V. BENNETT.

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

A SURVEY OF THE FESTIVAL OF BRITAIN SOUTH BANK EXHIBITION

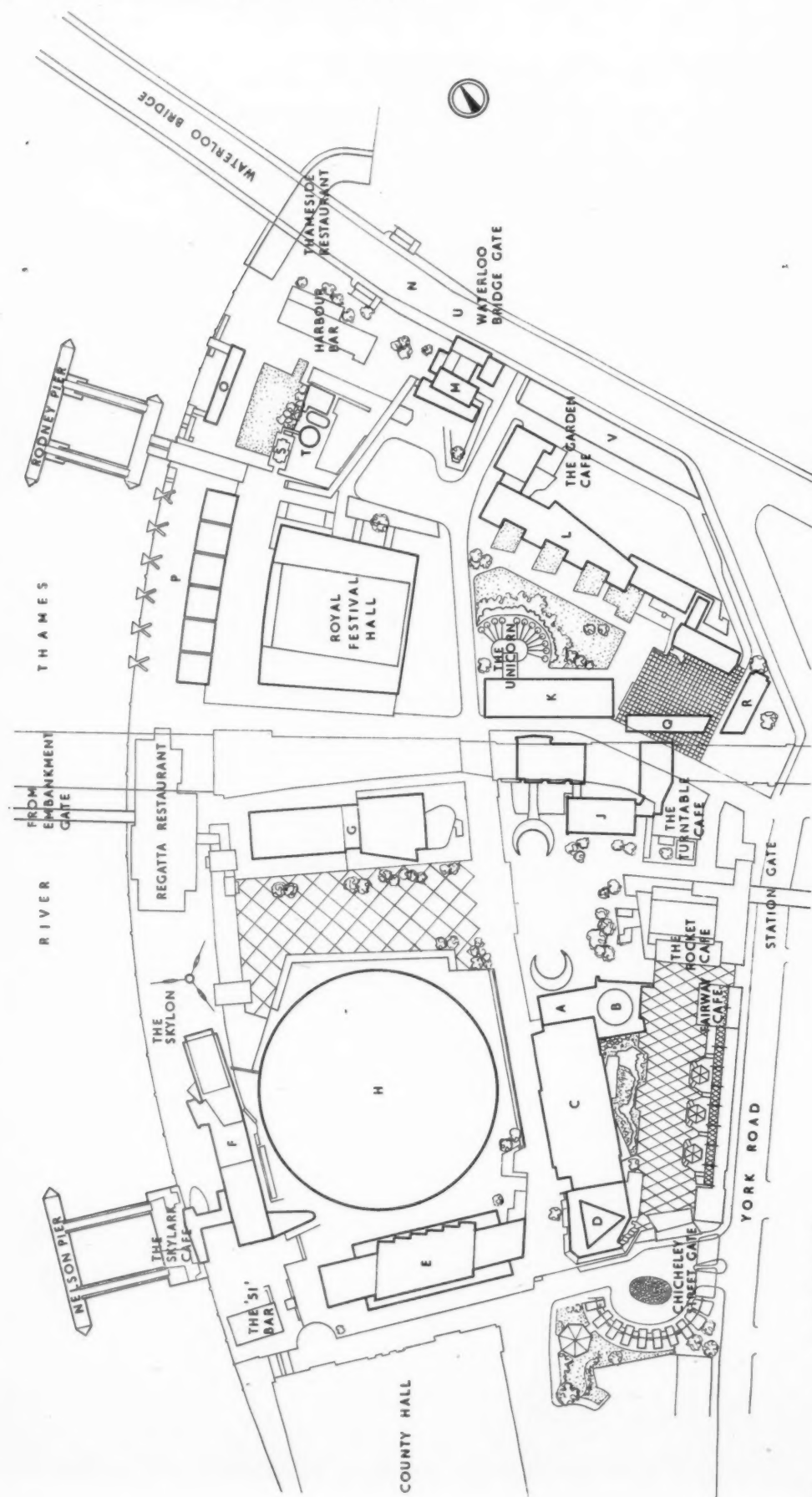
CO-ORDINATING ARCHITECTS :-

DOWNSTREAM: HUGH CASSON

UPSTREAM: MISHA BLACK

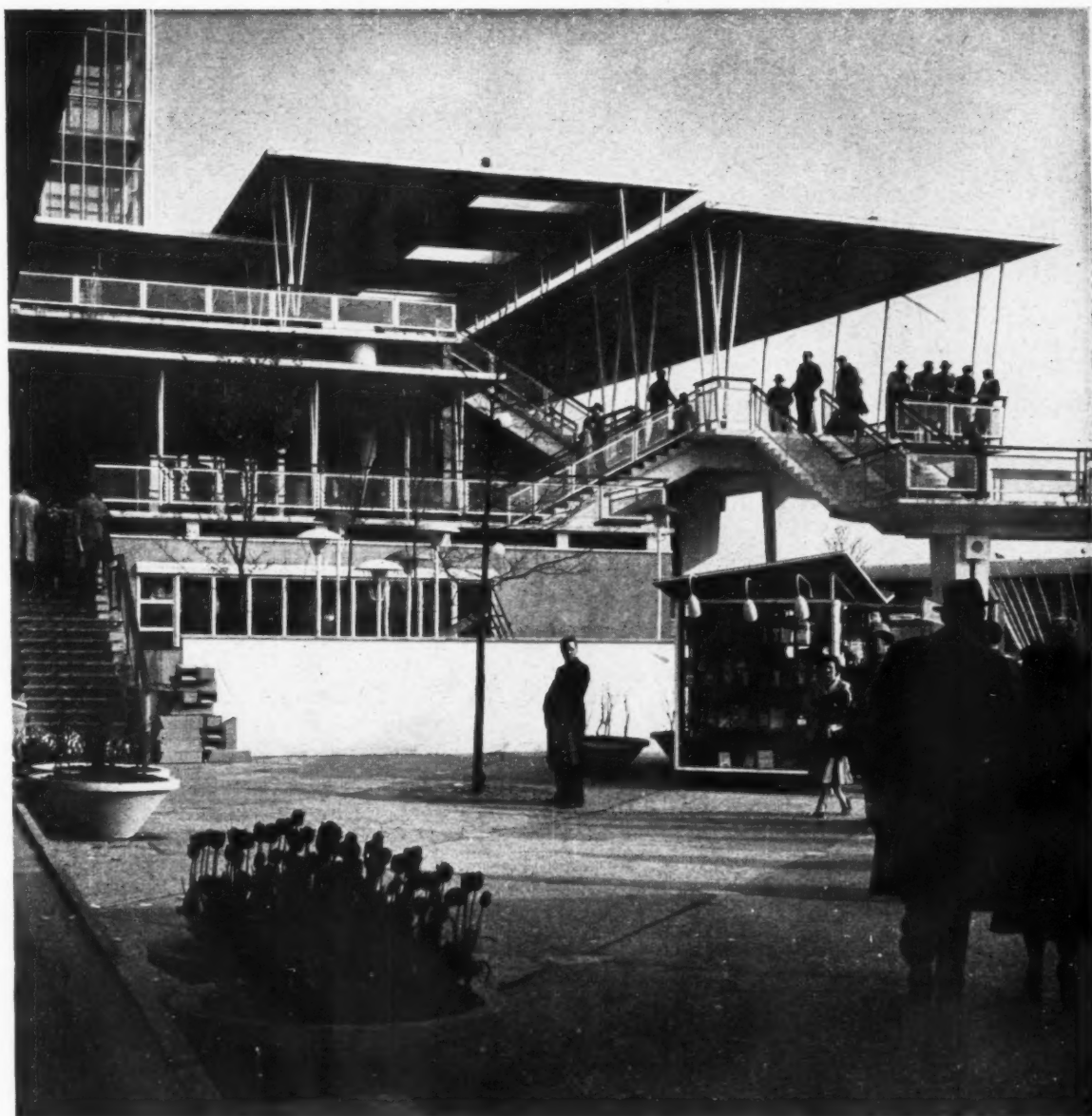
The JOURNAL takes its readers this week on a preliminary tour of the South Bank Exhibition. The theme of the exhibition has been ignored here and none of the buildings is shown in any detail. But an attempt has been made to give the readers who have not visited the South Bank an idea of what was in the planners' minds when they laid out the exhibition, with its enclosed spaces leading suddenly into exciting vistas and its incorporation of the river into its design. The architecture and the display were planned under the direction of the Festival Offices' Exhibition Presentation Panel, which has the following membership :—Gerald Barry, director-general, chairman ; Cecil Corke, director, exhibitions, deputy chairman ; Misha Black ; G.A. Campbell, director, finance and establishments ; Hugh Casson, director, architecture ; Ian Cox, director, science and technology ; A. D. Hippisley Coxe (CID) ; James Gardner ; James Holland ; M. Hartland Thomas (CID) ; Ralph Tubbs ; Peter Kneebone, secretary. The consultant engineers were Freeman, Fox and Partners and R. T. James and Partners. Below is a view showing the Transport pavilion (Architects : Arcon) at night, when the exhibition has an even more exciting appearance than it has by day, with the star-studded main concourse in the foreground.





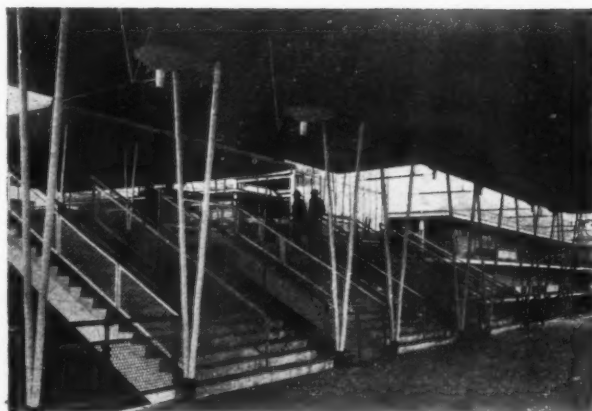
Site plan

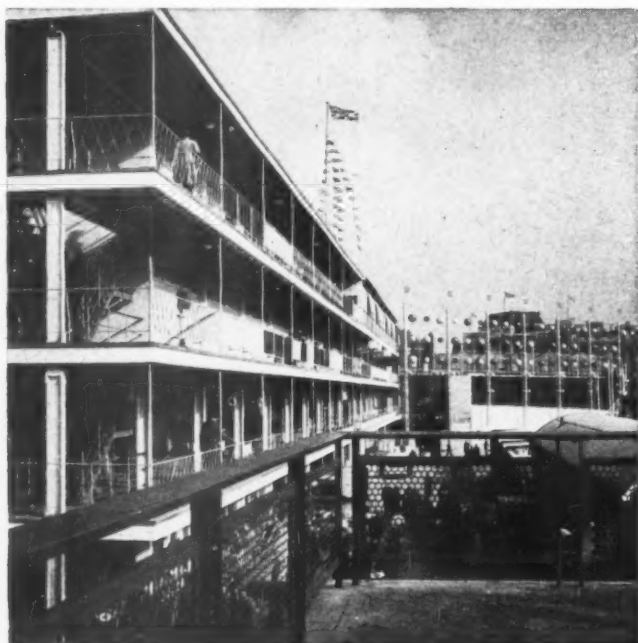
- KEY
- A. The Land of Britain
 - B. The Natural Scene
 - C. The Country
 - D. Minerals of the Island
 - E. Power and Production
 - F. Sea and Ships
 - G. Transport
 - H. Dome of Discovery
 - J. The People of Britain
 - K. The Lion and the Unicorn
 - L. Homes and Gardens
 - M. The New Schools
 - N. Health
 - O. Sport
 - P. Seaside
 - Q. Television
 - R. Telecinema
 - S. 1851 Centenary Pavilion
 - T. Shot Tower
 - U. Design Review
 - V. Administration



DOWNSTREAM SECTION : ENTRANCE

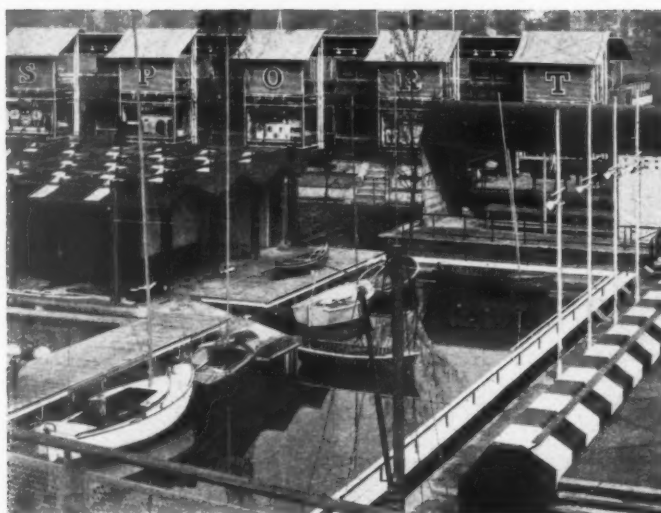
The exhibition entrance (above) from Waterloo Bridge, incorporating a tower and The New Schools exhibit is perhaps the most exciting in the exhibition, with its multiple roof slabs poised over an intricate series of stairs and ramps. It was designed by Maxwell Fry and Jane Drew. (Display designer: Neville Conder and Patience Clifford.) Left is a view looking up towards the entrance gates, with the Administration building and staff canteen to the right of the picture. (Architect: Edward Mills.)



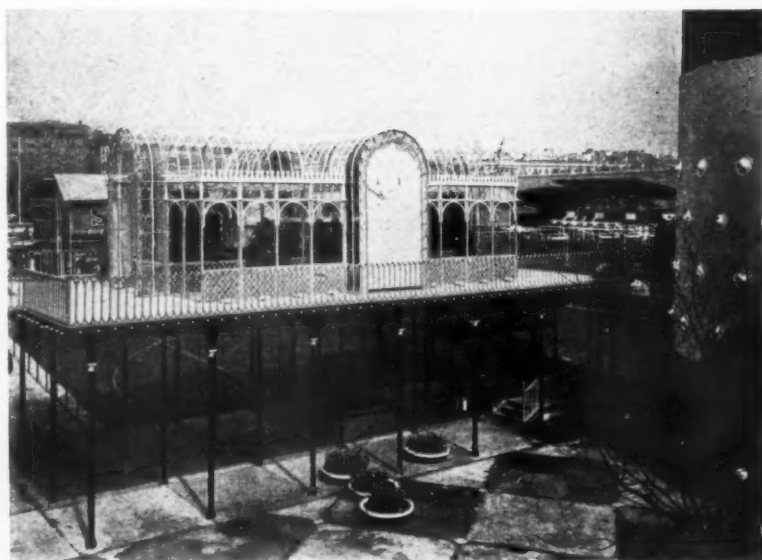


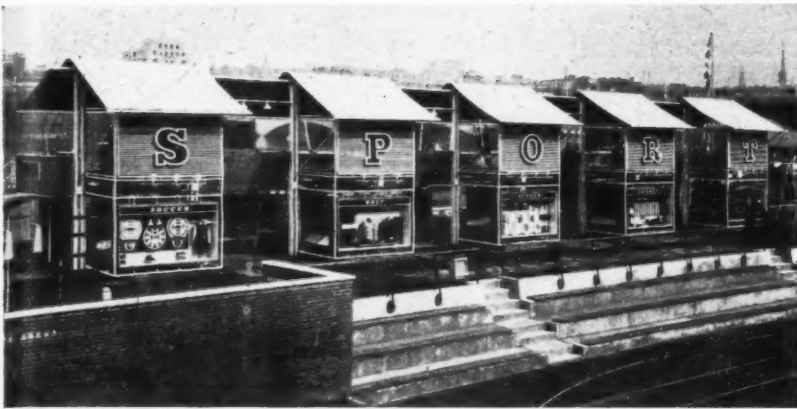
OVERHEAD WALK

Another view (left) of the Administration buildings (Architect: Edward Mills) showing the screen of coloured balls on the Waterloo Road edge of the site. This view, and the one below left, which shows the Sport pavilion behind the harbour, were taken from the overhead walk leading from the Waterloo entrance seen on the previous page.



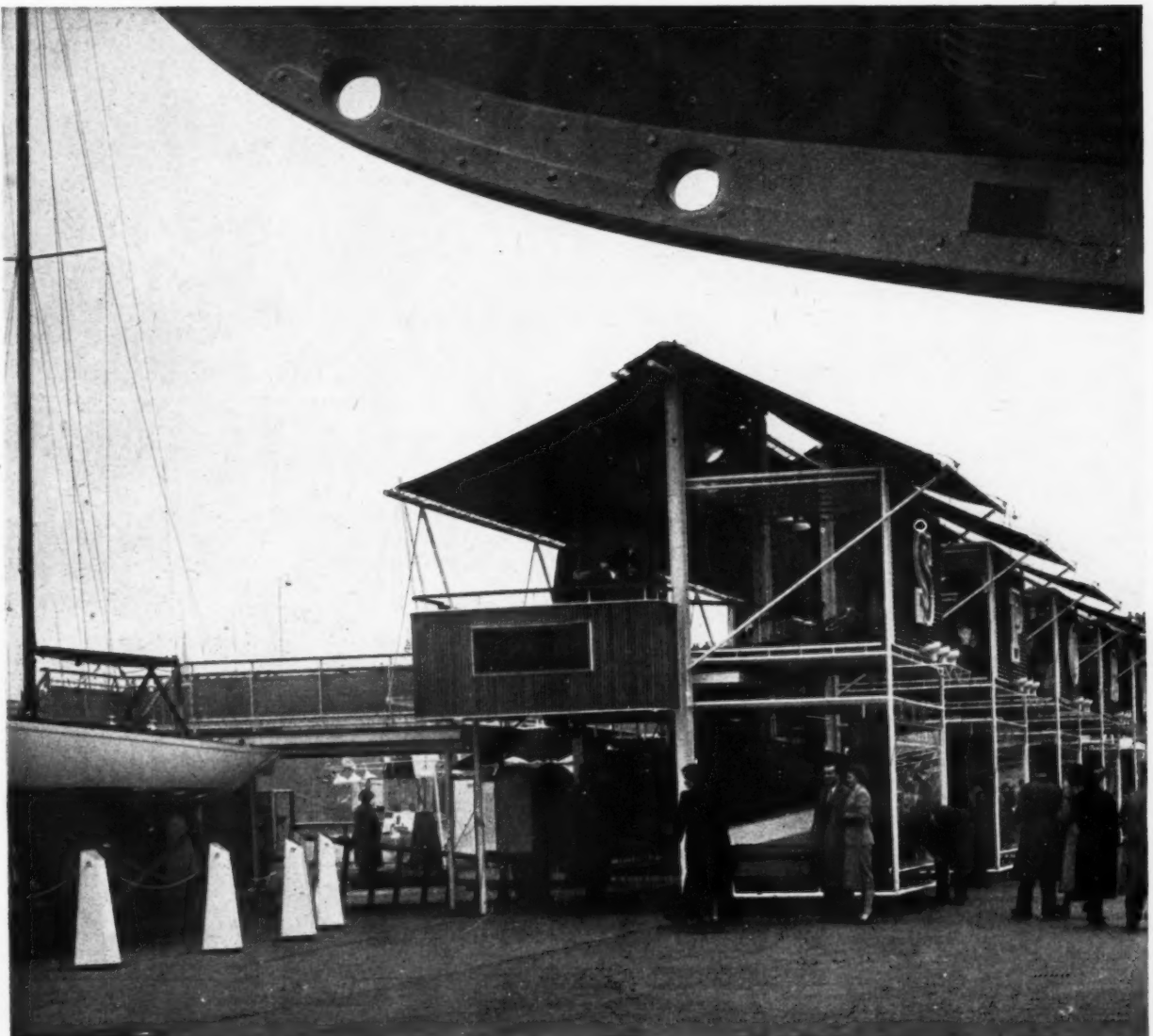
Another view (above right) of the harbour from the Waterloo entrance walk showing parts of the Harbour Bar and of Waterloo Bridge in the background. Right, a view from the same walk of the 1851 Centenary Pavilion. (Architect: Hugh Casson. Display designer: James Gardner.) Part of the Sport pavilion is visible behind it.

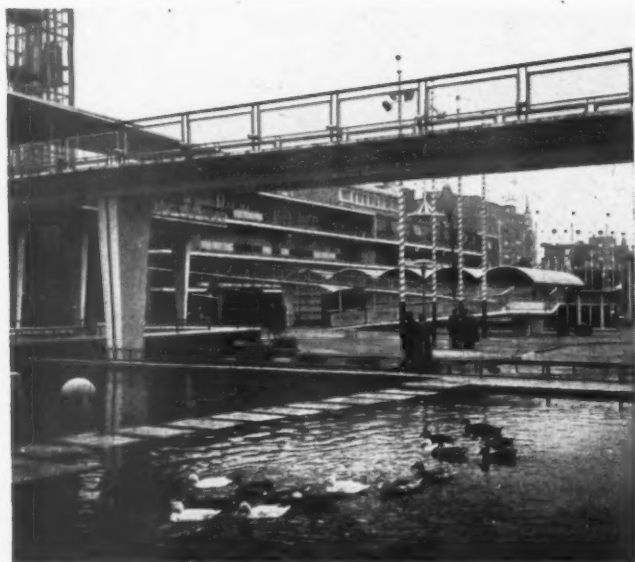
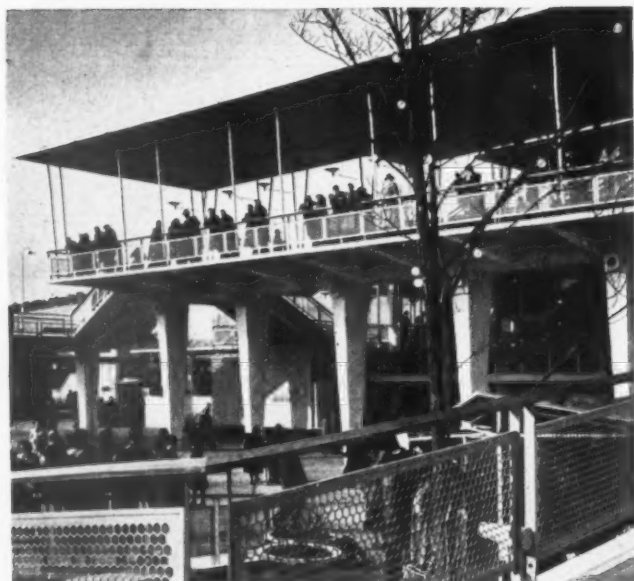




RIVERSIDE

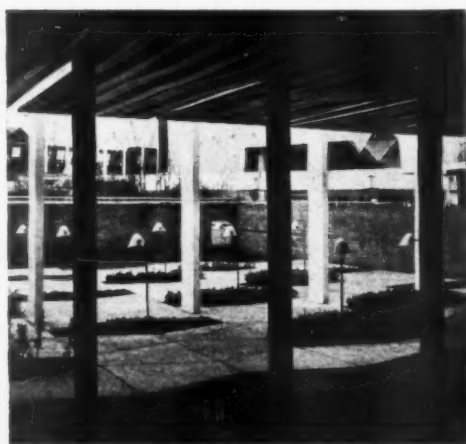
Another view (above left) from the Waterloo Road entrance walk of the Sport pavilion (architects and designers : Gordon and Ursula Bowyer) with the sports arena in the foreground and the river beyond. Above right : "look-out" platforms over the river, designed by Eric Brown and Peter Chamberlin for the Seaside section. Below : another view of the Sport pavilion.

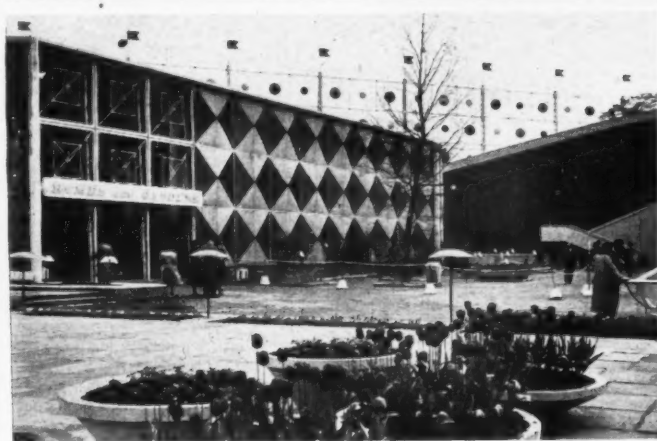
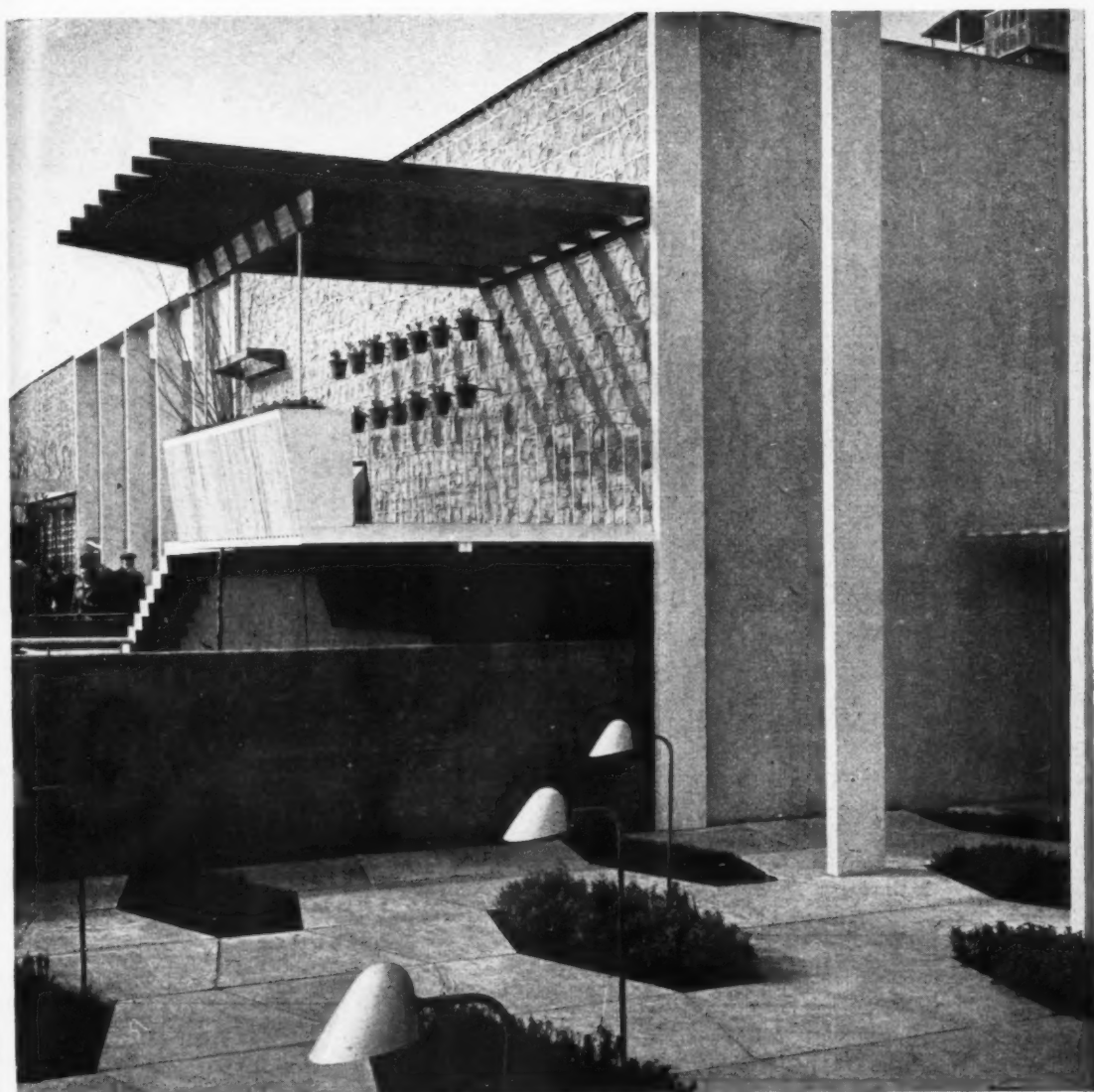




HOMES AND GARDENS

A little farther downstream from the Sport pavilion is the Thames-side Restaurant: top left is the view upstream from its terrace. Crossing the downstream section from north to south one passes under the Waterloo entrance overhead walk, centre left, and sees the Administration buildings and the screen of coloured balls flanking Waterloo Road, bottom left, in the background of the photograph. Below, view from inside the Homes and Gardens pavilion, looking out into one of the garden courts. Opposite page, part of the exterior of the pavilion seen from the same garden. Bottom left: the entrance to the Homes and Gardens pavilion, with the Telecinema (Architect: Wells Coates) to the right of the picture. Bottom right: a view looking back towards the Royal Festival Hall and the Shot Tower from the balcony of the Telecinema.

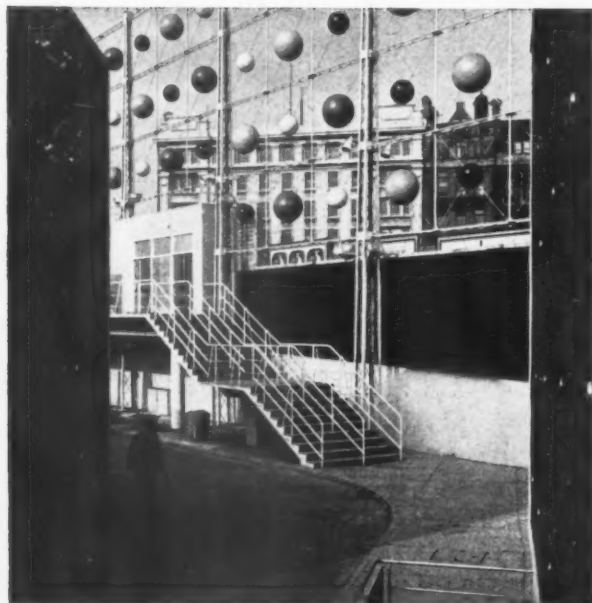




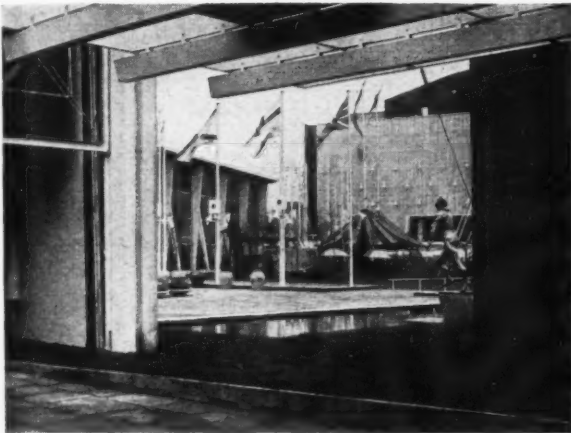


SOUTH ENCLOSURE

Left: the Telecinema, with the TV building, also designed by Wells Coates, on the right. Below left, a photograph taken from the balcony of the Telecinema, showing the coloured balls on the Waterloo Road side of the exhibition and the road that runs between the Homes and Gardens and the Administration buildings. Below right: a view looking from the main entrance of the Homes and Gardens pavilion, showing the Administration building in the background.



Below left: another view from the entrance to the Homes and Gardens pavilion, showing Epstein's gilded bronze sculpture and parts of the concert hall and of The Lion and Unicorn pavilion. Below right: detail of the stairs on the outside of The Lion and Unicorn pavilion (Architects: R. Y. Goodden and R. D. Russell. Display designers: R. Y. Goodden, R. D. Russell and Richard Guyatt.) The main entrance to the building is seen at the bottom of this page.





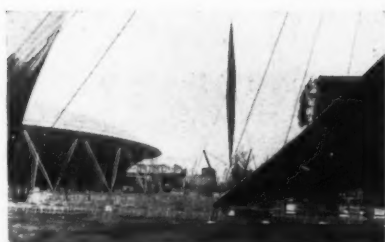
EATING OUT

Between the Lion and the Unicorn pavilion and the Homes and Gardens pavilion is The Unicorn restaurant (architects and interior designers: R. T. Goodden and R. D. Russell), the last feature in the JOURNAL's tour of the Downstream Section of the South Bank exhibition. Surrounding it is a garden designed by Peter Shephard.



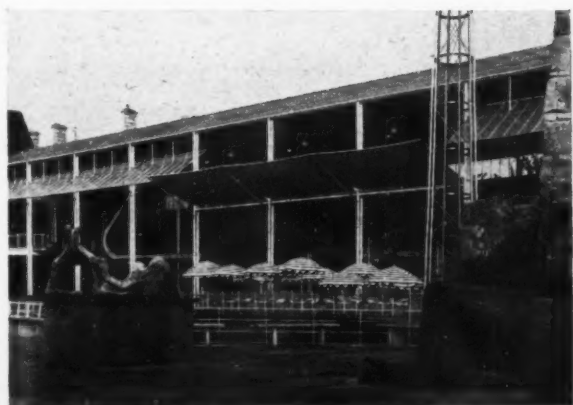
UPSTREAM : THE LAND

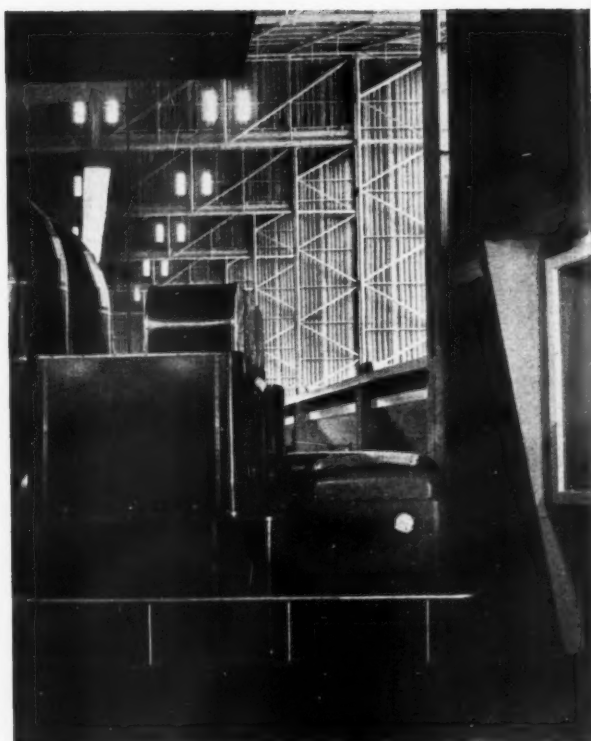
In the upstream section our tour follows (more or less) the route recommended in the official guide. After glancing across the main piazza (right) the visitor is recommended to go into The Land of Britain (extreme right). (Architect: H. T. Cadbury Brown. Display designer: V. Rotter.)



COUNTRY

After the Land of Britain comes The Natural Scene (left) (designed by Brian O'Rourke and display designer F. H. K. Henrion) who were also responsible for the next pavilion, The Country (bottom, left and right).



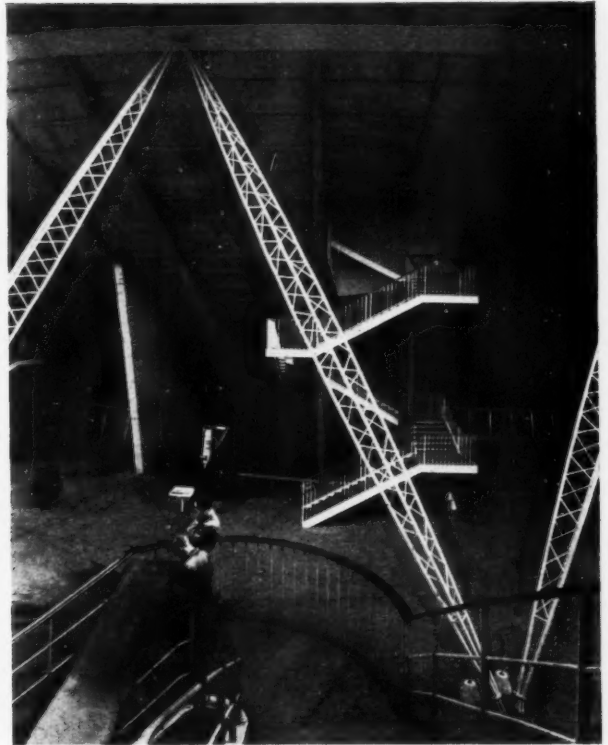
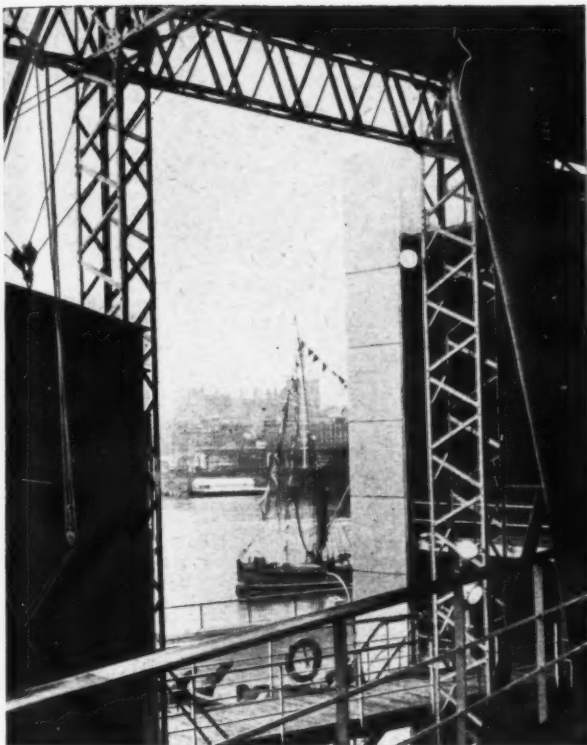


INDUSTRY AND LEISURE

In contrast to the open and spacious Country pavilion is Minerals of the Land (above) designed by the Architects' Co-operative Partnership. (Display designer: Beverley Pick.) A bridge leads from this building to Power

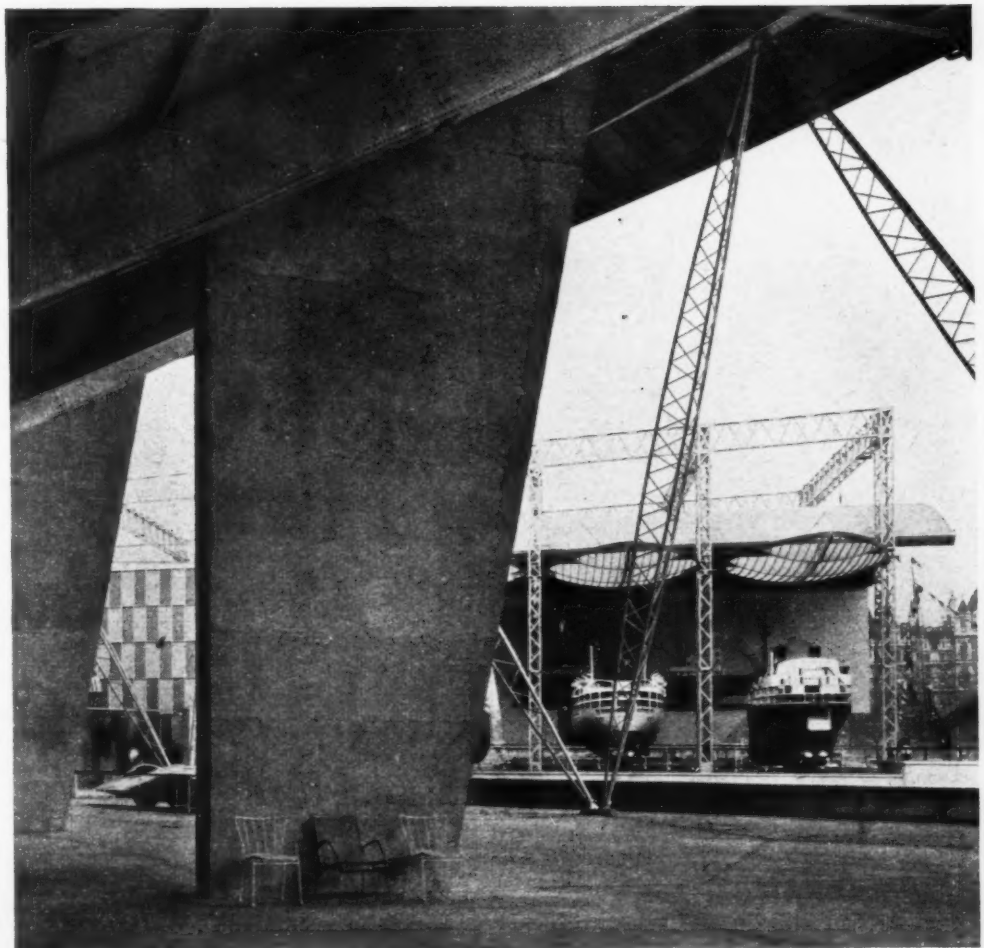
Grenfell Baines and H. J. Reifenberg. (Display designers: Warnett Kennedy and Associates.) In front of the exit to this building, and on the river's edge, is the '51 Bar, seen in a night view below. (Architect and designer: Leonard Manasseh. Sculpture by Daphne Hardy.)





SEA AND SHIPS

On the river's edge, near the '51 bar, is Basil Spence and Partners' Sea and Ships building, from which can be seen, above left, intriguing glimpses of the Thames. (Display designers: James Holland and Basil Spence.) From this building the view, above right, of the Dome of Discovery was also obtained. Another glimpse of the Sea and Ships pavilion is shown right from a point near the entrance to the next building in the sequence, the Dome of Discovery.





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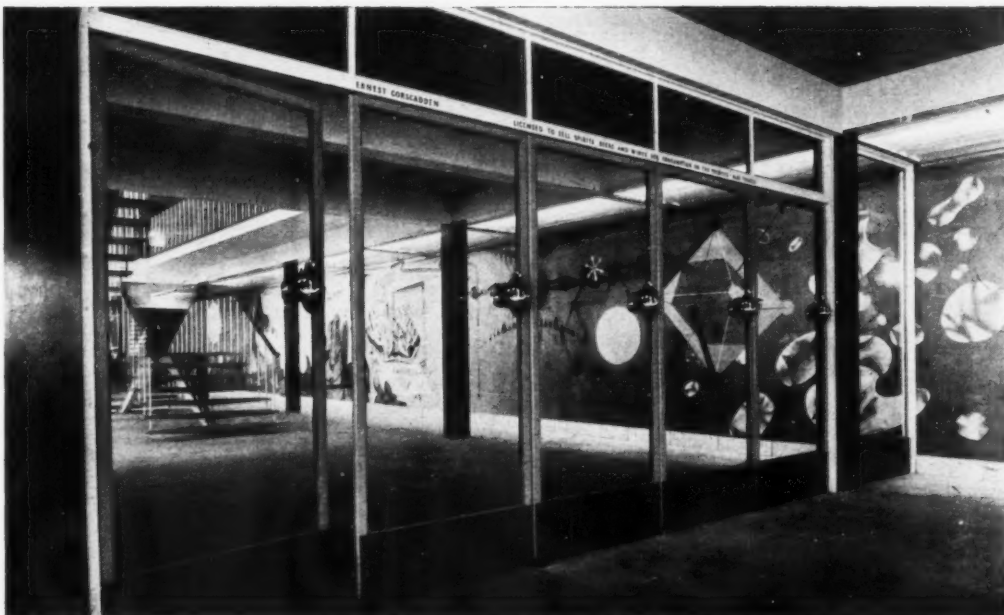
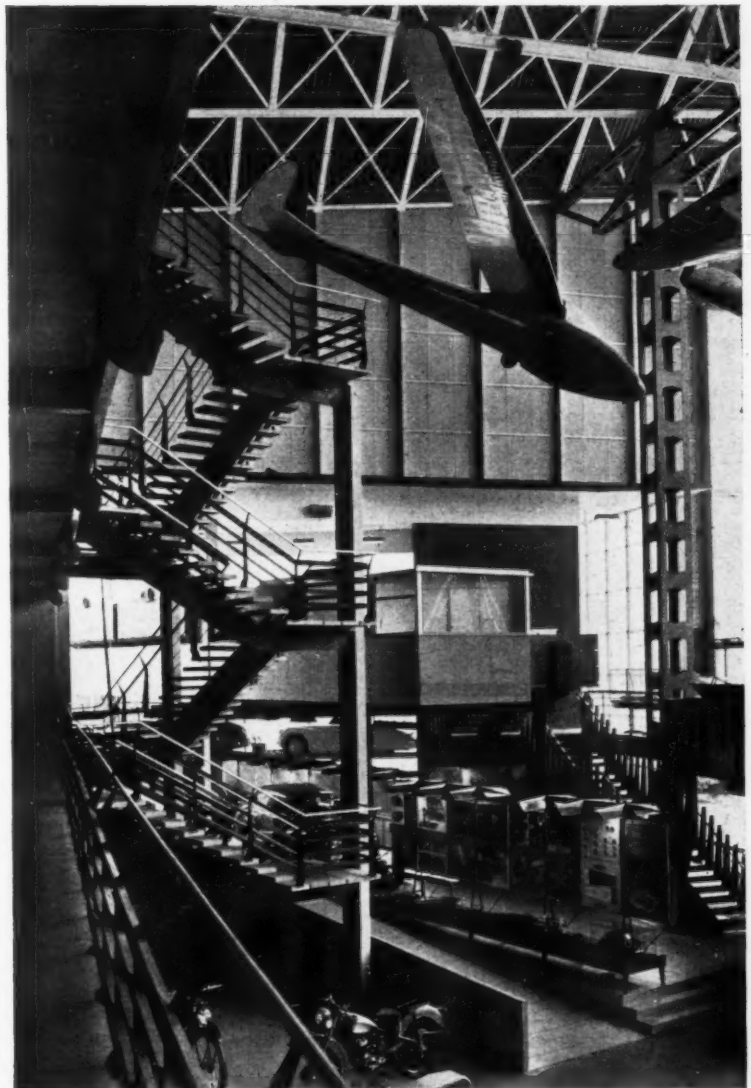
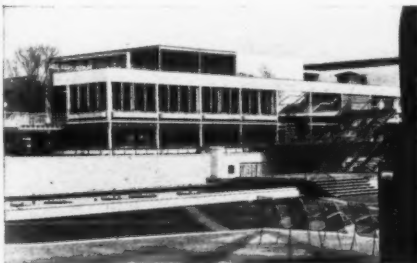
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DISCOVERY

The interior of the Dome of Discovery, photographed from the top of the escalator. (Architect: Ralph Tubbs. Display: Design Research Unit.) Just above the escalator can be seen the main entrance, at a lower level than the principal floor. Thrusting through the inward sloping walls are the massive concrete fins which support only the gallery and are structurally disconnected from the Dome itself.

RESTAURANT AND TRANSPORT

Below: the Regatta Restaurant, situated on the river walk. (Architects and interior designers: Misha Black and Alexander Gibson. Theme of decorative patterns: M. Hartland Thomas and Helen Megaw.) The mural on the restaurant's terrace (bottom) is by John Tunnard. (Note the hand-shaped door handles.) Right is an interior view of the Transport building (Architects and designers: Arcon).





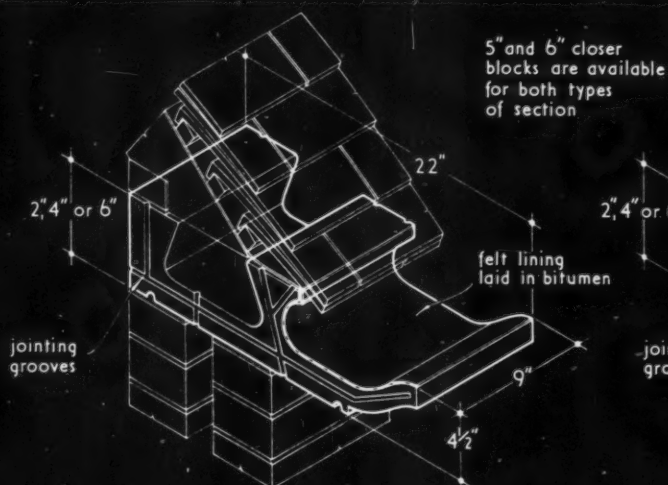
NIGHT - TIME

Seen here, behind the skylon (designed by Phillip Powell and Hidalgo Moya) and the dome are the floodlit buildings over the river.

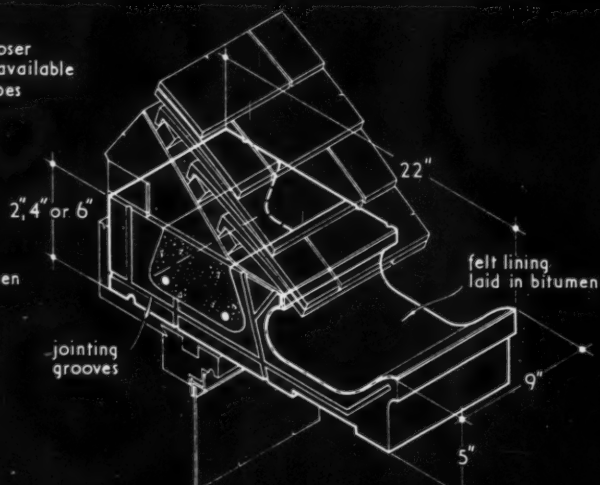
SANITATION | EQUIPMENT | R.W. GOODS

33.U10

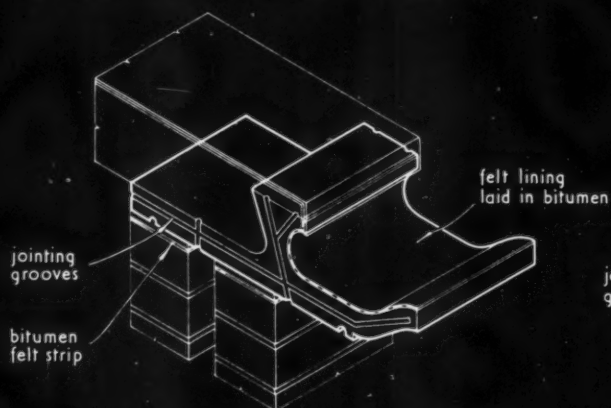
The Architects' Journal Library of Information Sheets 311. Editor: Cotterell Butler, A.R.I.B.A.



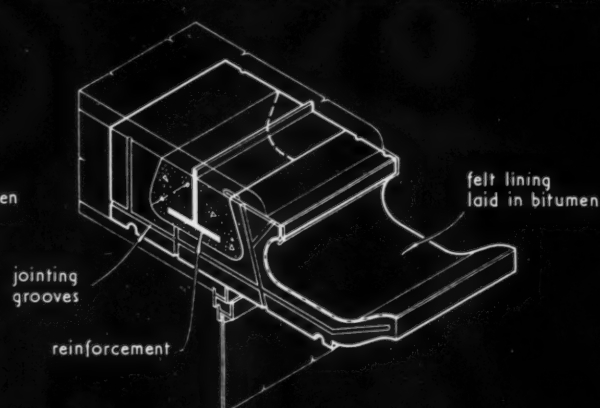
pitched roof: type G shown fixed over 11" cavity wall



pitched roof: type N with integral lintel shown fixed over window

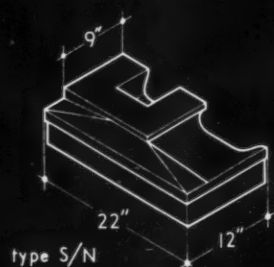


flat roof: type G shown fixed over 11" cavity wall

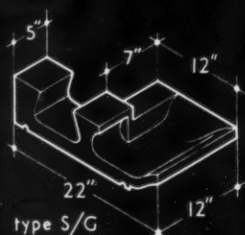


flat roof: type G with integral lintel shown fixed over window

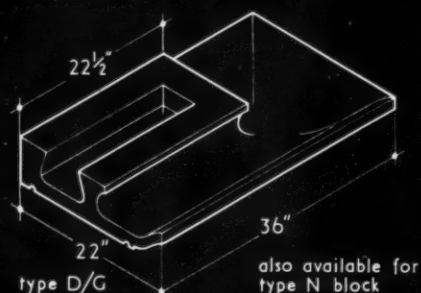
STANDARD TYPES OF GUTTER BLOCK AS APPLIED TO PITCHED AND FLAT ROOFS.



type S/N

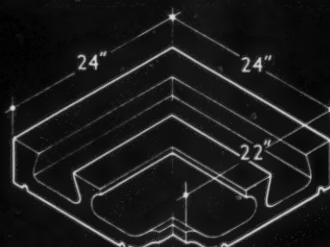


type S/G



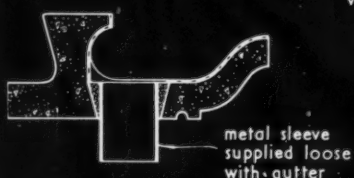
type D/G

ALTERNATIVE TYPES OF STOPPED END.

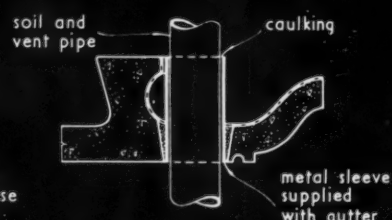


INTERNAL ANGLE BLOCK.

external angle blocks also available 36" x 22"



R.W. PIPE CONNECTION.



S. AND V. PIPE CONNECTION

33.U10 'FINLOCK' PRECAST CONCRETE COMBINED GUTTER, EAVES AND LINTEL

This Sheet describes a gutter, eaves and lintel assembly which is built up from specially formed precast waterproofed concrete blocks. The blocks are 9 in. long by 6 in. high by 22 in. from front to back and when bedded together they take the place of the usual gutter, fascia and soffit, and also, where occurring over window openings, can be reinforced and filled with concrete to form a lintel. The gutter troughs are lined, after erection, with felt laid in bitumen and sealed with a covering of bitumen. The felt and bitumen are supplied with the gutter blocks. The blocks, being 6 in. high, two courses of brickwork are saved at eaves level, in addition to a saving in timber and site labour.

Types of Section

There are two standard types of gutter and soffit moulding available as shown. Each type may be obtained with the following alternative back upstands to accommodate different forms of roof truss construction.

- 6 in. (types G and N).
- 4 in. (types G/4 and N/4).
- 2 in. (types G/2 and N/2).

Special blocks can be made to fit around or incorporate truss shoes where necessary.

Standard Blocks

A wide range of blocks and fittings is obtainable to fit in with any form of construction.

Straight blocks: Size: 9 in. by 22 in. May be obtained if required with sleeved rainwater outlet (2 in., 2½ in., 3 in., 4 in.) or sleeved aperture for soil and vent pipe.

Closers: Sizes: 6 in. by 22 in., 5 in. by 22 in.

External angles: Size: 36 in. by 22 in. Right- or left-handed.

Internal angles: Size: 24 in. by 24 in.

Stopped ends: All stopped ends may be obtained right- or left-handed and with rainwater outlets or soil and vent pipe apertures if required.

Type S (moulded end). Size: 12 in. by 22 in.

Type F (flush end). Size: 12 in. by 22 in. For use where gutter finishes against a wall abutment.

Type D (moulded return end). Size: 36 in. by 22 in. Permits the use of a downpipe on a gable wall.

Weight

The weight per foot run of section G blocks is 60 lb. and of section N, 62 lb. This is approximately 17 lb. and 19 lb. respectively more than the weight of the brickwork which would normally be required.

Fixing

No special setting-out is required. Blocks to take ventilating or rainwater pipes are laid in position first. Intermediate blocks are then bedded as closely as possible, closers being used where necessary as cutting is impracticable. The joints are cut off flush and the external surfaces given a thin coat of cement wash well brushed in.

Falls: Falls are unnecessary and the troughs are sufficiently deep to allow up to 75 ft. between outlets, thereby effecting a saving in cost of drainage fittings.

Expansion joints: In practice no expansion joints have been found to be necessary when using the blocks with pitched roofs. Where these gutters form part of the construction of concrete flat roofs other considerations for expansion may arise, but the problem can usually be solved by breaking the bed joint from the brickwork with a suitable bitumen felt.

Lining: The bitumen adhesive supplied is poured into the gutter trough and brushed out as required. When it is tacky, the lining felt is unrolled into the trough and firmly pressed into position. A final coat of bitumen adhesive is then applied.

Lintels

The blocks are supported on temporary hangers and support-boards, which may be obtained on hire from the manufacturer. For spans of up to 6 ft. 6 in. two ½-in. reinforcing rods are sufficient; for greater spans the reinforcement must be increased accordingly. The concrete should be run for a distance of at least one foot on either side of the opening.

Orders

It is only necessary when ordering to send a dimensioned plan; the manufacturer will calculate the number of blocks and fittings required.

Patents

Manufactured under Snazell Patents 21231/46 ; 5770/49 ; 32527/49 ; Registered Designs 861112/4 ; 854745/6.

Further Information

The manufacturer maintains a Technical Department and an outside staff who are available to answer questions and advise generally on technical problems dealing with the use of these gutters.

Compiled from information supplied by :

Finlock Gutters Ltd.

Address : 20, St. John's Road, Tunbridge Wells, Kent.

Telephone : Tunbridge Wells 20313.

GLASS FIBRES GENERAL DATA

The Architects' Journal Library of Information Sheets 312. Editor: Cotterell Butler, A.R.I.B.A.

8.E1

REVISED 17.5.51

TYPE	DESCRIPTION	nominal thickness, inches (uncompressed)	STOCK SIZES OR QUANTITIES	manufacturing density lb/cu.ft.	thermal conductivity B.Th.u./sq.ft./hr./1° F.	APPLICATIONS
quilt, light	lightly felted fibres covered with treated kraft paper and thread-sewn	$\frac{3}{4}$	rolls: 15 yd. long x 1 yd. wide	5	0.25	for the heat and sound insulation of floors, walls, partitions and ceilings (for houses)
medium	as for quilt, light	1	rolls: 15 yd. long x 1 yd. wide	5	0.25	as for quilt, light (for hotels, schools, institutes, etc.)
heavy	as for quilt, light	$1\frac{1}{4}$	rolls: 10 yd. long x 1 yd. wide	5	0.25	as for quilt, light (for telephone boxes and places where absolute quiet is desired)
4 in. house insulation	the material is lightly felted so that it may be used in blanket form	4	rolls: 18 ft. long x 12 in., 14 in., 16 in., 18 in. wide	$1\frac{1}{2}$	0.30	for all forms of roof space and attic insulation where the material is laid between the joists
loose wool	unbonded, felted material	—	bags: 28 lb. bales: about 36 lb.	3	0.26	for all types of cavity insulation
bitumen-bonded mat	lightly felted fibres bonded with bitumen	1	rolls: 10 yd. long x 36 in. wide, 12½ yd. long x 42 in. wide, both roll lengths also made in widths to suit joint spaces	3	0.28	for the insulation of prefabricated panels, walls and ceilings and of walls, ceilings and floors both in temporary and permanent prefabricated and conventional constructions: for laying over joists in attic insulation
bitumen quilt	lightly felted fibres bonded with bitumen and covered with treated kraft paper	$\frac{3}{4}$	rolls: 10 yd. long x 1 yd. wide	3	0.28	for attic insulation where the material is laid over the joists
resin-bonded semi-rigid mat	lightly felted fibres bonded with resin	1, $1\frac{1}{2}$, 2, $2\frac{1}{2}$, 3, $3\frac{1}{2}$, 4	sizes within the limits 72 in. x 42 in.	3	0.25	for the insulation of walls, ceilings and roofs

8.E1 'FIBREGLASS' INSULATING MATERIALS

This Sheet supersedes Sheet 8.E1 published 9.10.47. It describes the general properties of Fibreglass insulating material. The table on the face summarises the primary characteristics of the various forms in which the material is available.

Material

Fibreglass consists of glass drawn into flexible fibres, possessing high tensile strength. The material is entirely inorganic, non-hygroscopic, unaffected by moisture and will not rot or cause corrosion of any surface with which it may come in contact. It offers no sustenance to vermin and is non-inflammable.

Thermal Conductivity

National Physical Laboratory tests have been carried out on this material (under the earlier trade name of Glass Fibres). The thermal conductivity figures quoted on the face of the Sheet are based on these tests. Copies of the actual reports may be obtained from the manufacturer.

Applications

Detailed applications of this material will be dealt with on subsequent Sheets.

Trade Name

The word 'Fibreglass' is a registered trade mark.

Compiled from information supplied by :

Fibreglass Ltd.

Head Office : Ravenhead, St. Helens, Lancs.

Telephone : St. Helens 4224.

Telegrams : Fibreglass St. Helens.

London Office : 63-65, Piccadilly, W.1.

Telephone : Regent 2115-6.

Telegrams : Fibreglass Piccy London.

Glasgow Office : 136, Renfield Street, Glasgow, C.2.

Telephone : Douglas 2687.

Telegrams : Fibreglass Glasgow.

Newcastle Office : c/o Pilkington Brothers Ltd., Westgate Road.

Telephone : Newcastle 20938.

Telegrams : Pilkington Brothers Ltd., Newcastle.

Manchester Office : 11, Piccadilly, Manchester, 1.

Telephone : Blackfriars 8863

Prices are for work executed complete and are for an average job in the London area; all prices include overhead charges and profit for the general contractor.

CURRENT PRICES FOR MEASURED WORK

BY DAVIS, BELFIELD AND EVEREST, Chartered Quantity Surveyors

For Rates of Wages and Market Prices of Materials
see THE ARCHITECTS' JOURNAL for April 26, 1951.

T. Davis

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

PRELIMINARIES

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

EXCAVATOR

Excavation

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

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

Disposal

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

Planking and Strutting

Planking and strutting to sides of surface or basement excavation not exceeding 5' 0" deep	per ft. super	-/6
Ditto not exceeding 10' 0" deep	per ft. super	-/8
Planking and strutting to sides of surface trenches not exceeding 5' 0" deep (both sides measured)	per ft. super	-1/3
Ditto not exceeding 10' 0" deep (ditto)	per ft. super	-/3

CONCRETOR

Concrete (Basic Prices)

Portland cement concrete 1 : 3 : 6 with 1½" coarse aggregate in foundations and masses exceeding 12" thick	per yard cube	58/3
Ditto 1 : 2 : 4 with ¾" coarse aggregate ditto	per yard cube	59/-

Add to Basic Prices for:—

Working around rod or mesh reinforcement	per yard cube	3/4
Being in beds less than 12" thick (6"-12")	per yard cube	1/8
Ditto less than 6" thick (4½"-6")	per yard cube	5/-

CONCRETOR—(continued)

Being in small quantities not exceeding 3' cube	per yard cube	13/5
Being in suspended floors and roofs	per yard cube	10/1
Being in walls not exceeding 6" thick	per yard cube	16/9
Ditto exceeding 6" but not exceeding 12" thick	per yard cube	11/9
Ditto exceeding 12" thick	per yard cube	8/4½
Being in lintels, beams, etc., not exceeding 72 sq. in. sectional area	per yard cube	25/2
Ditto exceeding 72 and not exceeding 144 sq. in. sectional area	per yard cube	20/2
Ditto exceeding 144 sq. in. sectional area	per yard cube	16/9
Being in columns not exceeding 72 sq. in. sectional area	per yard cube	31/10
Ditto exceeding 72 and not exceeding 144 sq. in. sectional area	per yard cube	25/2
Ditto exceeding 144 sq. in. sectional area	per yard cube	20/2

Formwork

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

Reinforcement

½" to 1" diameter mild steel rod reinforcement, hooked, bent and tied at intersections as required and fixing in concrete	per cwt.	38/6
¾" diameter ditto	per cwt.	41/8
1" diameter ditto	per cwt.	53/4
Steel wire mesh fabric reinforcement to B.S. 1221, weighing 4.71 lb. per yard super, well lapped at joints and embedded in concrete	per yard super	2/8
Ditto weighing 9.32 lb. per yard super ditto	per yard super	5/1

BRICKLAYER

Common Brickwork

	Flettons	Rough stocks
Reduced brickwork one brick thick in cement-lime mortar (1 : 3 : 9)	per yard super 24/8	30/-
Add to the above:—		
If in cement mortar (1 : 3)	per yard super -/3	-/3
If circular on plan to flat sweep	per yard super 4/1	4/5
Ditto to quick sweep	per yard super 8/1	8/8
Half brick wall in cement lime mortar (1 : 3 : 9)	per yard super 13/4	16/-
Ditto built fair and pointed both sides with a neat flush joint	per yard super 15/1	17/9

BRICKLAYER—(continued)

		Flettons	Rough stocks
One brick wall built fair and pointed both sides with a neat flush joint	per yard super	29/2	34/6
11" hollow wall with 2" cavity and galvanized iron twisted ties	per yard super	29/-	34/4
<i>Engineering Brickwork</i>			
		Lingfield	Blue
		Engin-	Pressed
		Wirecuts	bricks
Reduced brickwork one brick thick in cement mortar (1:3)	per yard super	34/10	56/6
Half brick wall in cement mortar (1:3)	per yard super	18/10	29/11
Ditto built fair and pointed both sides with a neat flush joint	per yard super	20/7	32/3
One brick wall built fair and ditto	per yard super	38/7	60/8
<i>Sundries</i>			
Extra for internal fair face and flush pointing	per yard super	1/-	
Horizontal damp-proof course of two courses of slates and bedding and pointing	per foot super	3/4	
Ditto of hessian base bitumen well lapped at joints	per foot super	-/10	
Fixing only metal window, size 1' 8" x 4' 0", including cutting and pinning lugs to brickwork, bedding frames and pointing in mastic one side	each	7/-	
Ditto, 3' 3" x 4' 0" ditto	each	10/10½	
Ditto, 6' 6" x 4' 0" ditto	each	19/3	
<i>Partitions</i>			
Breeze concrete solid partition blocks to B.S. 492 and setting in cement mortar	per yard super	7/5	8/7½ 10/- 12/8
Hollow clay partition blocks to B.S. 1190, keyed on both sides and ditto	per yard super	7/10	8/7½ 9/10½ 12/-
Moler hollow partition blocks, keyed on both sides and ditto	per yard super	12/3	15/4½ 17/4 19/7
<i>Facings</i>			
		White glazed facings p.c.	
		1,140/- M	
		for stretchers	
		1,125/9-M	
		for headers	
		and pointing with	
		white cement	
Extra over common brickwork built with bricks p.c. 96/-M for facings as described, and pointing with a neat weathered joint:—		Ordinary facings, p.c.	
To solid wall in Flemish bond	per yard super	12/3	14/- 69/9
To cavity wall in stretcher bond	per yard super	10/-	11/4 55/10
To ditto in Flemish bond with snapped headers	per yard super	11/10½	13/6 —
Half brick wall in facings in stretcher bond built fair and pointed one side with a neat weathered joint	per yard super	22/4	23/8 —
Ditto pointed both sides	per yard super	23/3	24/6 —
One brick wall in facings built fair and pointed one side	per yard super	41/10	44/5 —
Ditto pointed both sides	per yard super	42/7	45/2 —
Brick on end flat arch in facings 4½" on soffit and 9" high and pointing	per foot run	2/7	2/8 —
Brick on edge coping to 9" wall with two courses plain tiles under, laid breaking joint, two cement angle fillets and pointing	per foot run	4/5½	4/7 —

ASPHALTER

<i>Tanking</i>			
		To B.S.	To B.S.
		1097	1418
Horizontal asphalt tanking in three thicknesses on brick or concrete	per yard super	15/3	25/9
Vertical ditto	per yard super	19/5	29/5
<i>Roofing</i>			
		To B.S.	To B.S.
		988	1162
¾" asphalt flat in two thicknesses on and including felt underlay	per yard super	11/7	19/2

ASPHALTER—(continued)

		To B.S.	To B.S.
		988	1162
¾" asphalt skirting 6" high with angle fillet at bottom and rounded top, turned into groove	per foot run	1/11½	2/5½
¾" asphalt fascia 6" high with solid water check roll at top and undercut drip at bottom	per foot run	2/8½	3/3

DRAINLAYER

Trenches and Beds

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

Excavate trenches for 4"-9" pipes, including planing and strutting, filling in and ramming, and wheeling and spreading surplus:—			
For each 12" in depth, for trenches not exceeding 3' 0" deep	per yard run	2/8	
Ditto for trenches exceeding 3' 0" and not exceeding 5' 0" deep	per yard run	4/-½	
Ditto for trenches exceeding 5' 0" and not exceeding 10' 0" deep	per yard run	6/5	
6" concrete (1:3:6) bed and benching for pipes	per yard run	4" 7/9	6" 9/1
6" ditto, and surround	per yard run	12/8	15/3

Drains

		3"	4"	6"
Clayware butt-jointed land drains and laying in trench	per foot run	-/4	-/4½	-/8
"Seconds" quality glazed stoneware socketed drains and laying and jointing in trench	per foot run	1/10	2/6½	4/3
"British Standard" quality ditto	per foot run	2/1	3/0	5/-
Extra on "Seconds" quality for bends	each	2/9	3/11	7/2
Ditto "British Standard" quality ditto	each	3/4½	4/11½	8/9
Extra on "Seconds" quality for single junction	each	3/6	5/1½	8/7
Ditto "British Standard" quality ditto	each	4/2	6/-	10/1
Cast iron socketed drains to B.S. 437 and laying and jointing in trench	per foot run	9/6	14/6	28/4
Extra for short radius bend (Fig. No. 4)	each	19/-	37/7	105/9
Extra for single junction (Fig. No. 18)	each	34/8	67/4	186/10

Fittings, etc.

		4"	6"
Glazed stoneware trapped gully with galvanized grating and outlet and setting in concrete	each	19/3	31/6
Ditto with vertical inlet ditto	each	22/11	35/2
Cast iron trapped gully with high invert, grating, and 4" outlet and setting in concrete	each	42/-	—
Ditto with vertical inlet ditto	each	51/6	—
Glazed stoneware intercepting trap with inspection arm, stopper and chain and fixing in manhole and jointing to drain	each	69/-	78/6
Brown glazed stoneware half round straight channels and bedding and jointing in cement mortar	per foot run	1/7	2/5
Ditto ordinary channel bend and ditto	each	4/10	6/9½
Cast iron coated single seal manhole cover and frame to B.S. 497 Grade C and setting frame in cement and cover in grease	each	39/7	55/-
Galvanized ditto	each	67/9	98/6

PAVIOR

		¾"	1"	1½"
Cement and sand (1:3) floated screed to receive pavings	per yard super	2/10	3/6	4/2
Ditto trowelled smooth to receive linoleum	per yard super	3/2	3/10	4/6
Cement and sand (1:3) paving trowelled hard and smooth	per yard super	3/2½	3/10½	4/6½
Granolithic paving (1:2½) laid on concrete	per yard super	5/3	5/11	6/7½
¾" Red composition paving to B.S. 776 laid on prepared screed	per yard super	15/9		
¾" Terrazzo paving (Portland cement and spar aggregate) laid on prepared screed	per yard super	34/1½		
Extra for white or cream cement	per yard super	5/3		
¾" Rubber flooring in all colours, laid on prepared screed	per yard super	48/10		
¾" x 12" x 12" Rubber tile flooring ditto	per yard super	38/3		



On July 5th...

the De La Rue Exhibition
opens. Unique in the
scope of its interest, it will

tell the story of our organisation from the birth of the Founder in 1793. The exhibits—many of them are of great value—include early postage stamps and banknotes, rare packs of playing cards, books printed in gold. Their interest today ranges from some of the earliest fountain pens to modern gas appliances and the use of plastics in such widely different fields as cocktail bars, blood transfusion and the artificial insemination of cattle. Admission is by ticket only, and as we desire to make your visit both pleasant and memorable, we shall be glad if you will let us know which day and time is most convenient for you.

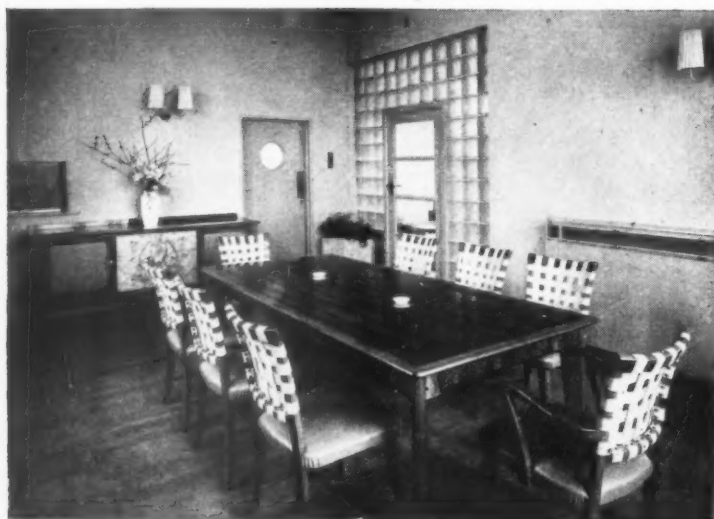
* * * De La Rue EXHIBITION

July 5th-July 19th, 10 a.m. to 8 p.m. 26 Conduit Street, London, W.1

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STORY & CO. LTD., 7 & 49 Kensington High Street, London, W.8.

Telephone: WES. 0825

PAVIOR—(continued)

$\frac{1}{2}$ " \times 12" \times 12" Cork tile flooring (brown shades) laid in mastic on prepared screed, surfaced and polished	per yard super	40/8
$\frac{1}{2}$ " Hard red paving bricks p.c. 309/6 per M. laid flat on prepared bed in cement mortar	per yard super	18/8
$\frac{1}{2}$ " Ditto laid herringbone	per yard super	20/4
6" \times 6" Red quarry tile paving to B.S. 1286 laid on prepared screed with straight joints	per yard super	$\frac{1}{8}$ " 19/7 $\frac{7}{8}$ " 21/10 $\frac{1}{2}$
6" \times 6" Buff quarry tiles as last	per yard super	21/4 24/6
2 $\frac{1}{2}$ " (Finished) Gravel path laid on prepared bed, well watered and rolled to cambers and falls	per yard super	2/4

MASON

Portland stone and all labours in pilasters, quoins, jambs, lintols, etc.	per foot cube	34/6
Ditto in arches, columns, cornices, etc.	per foot cube	47/6
Ashlar av. $\frac{1}{2}$ " on bed with plain dressed face	per foot super	19/6
	Portland	Artificial
Portland stone or artificial stone to B.S. 1217:—		
$\frac{1}{2}$ " \times 4" Sill, sunk, weathered, throated and grooved for water bar, set and jointed in cement mortar	per foot run	6/6 3/10 $\frac{1}{2}$
9" \times 3" ditto	per foot run	7/7 5/6
2" \times 12" Coping, weathered and twice throated, set and jointed as last	per foot run	7/- 5/-
3" \times 12" Ditto	per foot run	9/9 7/5
5" \times 12" Saddle back coping twice throated, set and jointed as last	per foot run	16/3 11/5
6" \times 12" Ditto	per foot run	17/10 13/3

SLATER, TILER AND ROOFER

Slates

20" \times 10" 16" \times 8"

Best Bangor slates to B.S. 680 laid with 3" lap, each slate nailed with two stout copper nails	per square	228/4 216/3
Ditto hung vertically to dormer cheeks and gables	per square	236/3 226/9

Tiles.

Hand made Machine made

Best sand faced plain (ribbed) tiles to B.S. 402, $10\frac{1}{2}$ " \times 6" laid to a 4" gauge with each tile in every fourth course nailed with galvanized nails	per square	155/5 147/-
Ditto hung vertically to dormer cheeks and gables to 4 $\frac{1}{2}$ " gauge with each tile nailed with galvanized nails	per square	150/2 141/9
Berkshire hand made sand faced red pantiles $14\frac{1}{2}$ " \times 10" laid to 2 $\frac{1}{2}$ " head and 1 $\frac{1}{2}$ " side laps, each tile in every third course nailed with galvanized nails	per square	149/9 157/6
Ditto to mansard slopes	per square	89/3
Concrete plain (ribbed) tiles to B.S. 473, $10\frac{1}{2}$ " \times 6" laid as before described for plain tiles	per square	91/10
Ditto hung vertically to dormer cheeks, and gables, ditto	per square	78/9 86/8
Concrete interlocking tiles 15" \times 9" laid to 3" lap, each tile in every third course nailed with galvanized nails	per square	78/9 86/8
Ditto to mansard slopes ditto	per square	78/9 84/-

Asbestos Cement

6" Corrugated asbestos cement sheeting fixed to wood roofs with galvanized drive screws and washers with a side lap of 1 $\frac{1}{2}$ corrugations and an end lap of 6"	per square	78/9
6" Ditto but fixed vertically	per square	84/-
Add to both last if fixed to steel purlins or sheeting rails with galvanized hook bolts	per square	2/11

Felt

Reinforced bituminous roofing felt laid with 3" laps and nailed to rafters at 18" centres with galvanized clout nails	per square	21/-
	Two layer	Three layer
One-ply bitumen felt to B.S. 989 laid on concrete. Each layer bedded in hot bitumen	per yard super	7/- 9/5

CARPENTER

Carcassing

Softwood, sawn and fixed, in plates, sleeper joists and lintols	per foot cube	17/11
Ditto in floor and ceiling joists	per foot cube	19/6
Ditto in stud partitions	per foot cube	21/-
Ditto in rafters	per foot cube	20/10
Ditto in purlins and struts	per foot cube	21/-

CARPENTER—(continued)

Ditto and framing in ridge	per foot cube	20/10
Ditto in hip and valley rafters including cutting rafters to sizes	per foot cube	22/10

Battening and Boarding

$\frac{3}{4}$ " \times 1 $\frac{1}{2}$ " Battens nailed to softwood for 20" \times 10" slates to 8 $\frac{1}{2}$ " gauge	per square	29/11 31/6
Ditto 16" \times 10" slates to 6 $\frac{1}{2}$ " gauge	per square	37/10 39/11
Ditto 10 $\frac{1}{2}$ " \times 6" tiles to 4" gauge (4 $\frac{1}{2}$ " for vertical hanging)	per square	60/4 57/9
	Roof Slopes	Mansards
Ditto 14 $\frac{1}{2}$ " \times 10" pantiles to 12" gauge	per square	21/- 21/6
Ditto 15" \times 9" concrete interlocking tiles to 12" gauge	per square	21/- 21/6
Roof boarding in batten widths close jointed and fixed to flat or sloping roofs	per square	124/- 159/9
Ditto tongued and grooved and prepared for felt roofing including furring to falls	per square	181/6 217/9
Sawn gang boarding fixed to joists in roof	per foot super	1/4 1/9
Wrot and crostongued eaves soffit	per foot super	2/- 2/5
6" Wrot and grooved eaves fascia planted on	per foot run	-10 $\frac{1}{2}$ 1/1

Wall and Ceiling Boards

$\frac{1}{2}$ " Fibre board to B.S. 1142 fixed with galvanized flat headed nails to softwood	per yard super	5/7 6/3
$\frac{1}{2}$ " Asbestos cement flat sheeting to B.S. 690 fixed as last	per yard super	5/- 5/4 $\frac{1}{2}$
$\frac{1}{2}$ " Ditto	per yard super	6/- 6/4

JOINER

Floors and Skirtings

(All thicknesses stated are nominal)

Plain edge softwood flooring in batten widths nailed to floor joists	per square	152/- 170/- 206/3
Tongued and grooved ditto	per square	168/- 180/3 218/-
1" Double grooved and tongued and grooved wood block floor laid herringbone with two-block border, set in hot mastic composition on prepared screed and wax polished:—		
Swedish softwood	per yard super	26/3
European Beech	per yard super	33/9
English Oak	per yard super	46/3
European Oak	per yard super	41/-
Burma Teak	per yard super	46/9
Softwood skirtings with splayed or molded top edge, planted on (per inch sectional area)	per foot run	-2 $\frac{1}{2}$ -2 $\frac{1}{2}$
Extra for grounds plugged to brickwork	per foot run	-6

Windows in Softwood

Rebated and molded softwood fanlights and casement sashes divided into squares for glass	per foot super	14" 2" 2/9 3/-
Extra for hanging	each	6/1 6/1
Cased frames with 6" \times 3" Oak sill and 2" molded double hung sashes including pulleys, line and weights	per foot super	— 9/9
N.B.—The above prices are for purpose made joinery. Standard pattern casement windows and double hung sashes and frames to B.S. 644 are cheaper.		

Doors in Softwood

Framed ledged and braced doors filled in with 1" T. & G. and V-jointed boarding and hanging	per foot super	1 $\frac{1}{2}$ " 1 $\frac{1}{2}$ " 2" 4/7 5/6 5/6
Four-panel door, square both sides and hanging	per foot super	3/5 4/1 4/1
Ditto molded one side	per foot super	3/8 4/4 4/4
Ditto molded both sides	per foot super	3/11 $\frac{1}{2}$ 4/7 4/7
N.B.—The above prices are for purpose made doors. Standard panelled doors to B.S. 459 are cheaper.		
1 $\frac{1}{2}$ " Standard flush doors 2' 6" \times 6' 6", internal pattern	each	97/6
2" Ditto external pattern	each	106/9

Linings, Frames, etc., in Softwood

Window and door linings etc. (per inch in sectional area)	per foot run	Up to 6" 6" to 12" -3 $\frac{1}{2}$ -3
Frames wrot all round and framed (ditto)	per foot run	-2 $\frac{3}{4}$ -2 $\frac{1}{2}$
Mullions, transoms and cills (ditto)	per foot run	-3 $\frac{1}{4}$ -2 $\frac{1}{2}$
		2" to 4" 4" to 6" -2 $\frac{1}{4}$ -2 $\frac{1}{4}$
Moldings, architraves, etc. (ditto)	per foot run	-2 $\frac{1}{4}$ -2 $\frac{1}{4}$

NEW FASHIONED
— yet as old as time!

The all-over pattern behind these words gives the clue to their meaning. It is a photograph of the latest Chance glass, *FESTIVAL* — a design with an age-old inspiration, for it comes from the molecular structure of a mineral called apophyllite.

Why apophyllite? As members of the Festival of Britain Pattern Group, Chance Brothers accepted the invitation to create an entirely new pattern on just such a basis, and this is the outcome, with the help of designer J. Beresford Evans and the Council of Industrial Design.

You can see the new *FESTIVAL* glass in the Pattern Group displays at the Land Travel Exhibition and at the Regatta Restaurant on the South Bank. You will also find it in use in the Regatta Restaurant, in the structure of the Beer Garden in Battersea Park and in the Science exhibit at South Kensington.

You will be able to judge its true contemporary feeling, its excellent obscuration. *FESTIVAL*, moreover, is a practical design in every way — easy to fit (adjacent panes need not be matched) and easy to keep clean. There is going to be a big demand for

Chance FESTIVAL glass

Chance
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For Science, Industry and the Home

CHANCE BROTHERS LIMITED, GLASSMAKERS SINCE 1824.

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JOINER—(continued)

6" Window boards with rounded nosings, tongued at back and including bearers	per foot run	Thickness 1" 2/7	1½" 2/10
9" Ditto	per foot run	2/11	3/2½

Shelving and Fittings in Softwood

Shelving of 2" slats spaced 1" apart on bearers (measured separately)	per foot super	¾" 2/1½	1" 2/8
Shelving on ditto	per foot super	2/2½	2/9
Crostoned shelving on ditto	per foot super	2/9	3/4½
Shelving 9" wide on ditto	per foot run	1/9	2/1½
2" Shelf bearers plugged to walls	per foot run	-1/11	1/1
The following in framed up cupboard fittings:—			
T. & G. & V-jointed back	per foot super	2/-	2/5
Crostoned top, bottom shelf or division	per foot super	2/10	3/5
1½" Flush cupboard doors	per foot super	5/11½	
Labour rebate or groove	per foot run	-2½	
Ditto cross-grain	per foot run	-4	
1" x 2" Bearers screwed on	per foot run	-5½	

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

IRONMONGERY

3" Steel butts (medium quality)	per pair	Soft-wood 1/1	Hard-wood 1/1
4" Ditto (ditto)	per pair	1/7½	1/7½
Double action floor springs and top centres including filling boxes with oil	each	146/-	151/2
Overhead check action door springs. P.C. 60/6	each	76/3	79/6
6" Barrel bolts. P.C. 6/-	each	8/-	8/6
Cupboard locks. P.C. 6/4	each	9/11	10/10
Norfolk latches. P.C. 5/-	each	9/4½	10/8
Cylinder night latch. P.C. 13/3	each	19/5	21/1
Mortice latch. P.C. 7/9	each	12/5	13/9
Rim lock. P.C. 8/4	each	12/1	13/1
Mortice lock. P.C. 12/8	each	18/10	20/5
Door furniture. P.C. 17/8	per set	20/5	20/9
Sash fasteners. P.C. 6/11	each	9/2	9/9
Casement fasteners. P.C. 6/1	each	7/10	8/3
Casement stays. P.C. 8/10	each	10/10½	11/3

STEEL AND IRONWORKER

Structural Steelwork

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

R.S.J.—in steel framed structures hoisted and fixed complete	per ton	£ s. d. 48 16 6
Riveted compound girders including plates and rivets	per ton	53 5 9
R.S. Stanchions including caps, bases, cleats, etc.	per ton	54 17 3
Riveted compound stanchions ditto	per ton	56 14 0
Riveted roof trusses with flat and angle members, plates, cleats, etc., 30' span	per ton	79 16 0
Ditto 40' span	per ton	77 14 0

Sundries

Simple wrought iron balustrades fixed complete (excluding mortices etc.)	per cwt.	9 1 0
Bolts with heads, nuts and washers and fixing	per cwt.	10 7 0

PLASTERER AND TILE FIXER

24 gauge expanded metal lathing and fixing to softwood soffits	per yard super	5/1
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Lime and Gypsum Plaster

Three coat lime and two coat Sirapite or similar Gypsum plaster:—		
On brick walls and partitions	per yard super	Lime 5/3 Sirapite 4/1
On concrete soffits including hacking	per yard super	6/4 5/8
On soffits of E.M.L. (measured separately)	per yard super	5/4 6/2
On and including wood laths, to soffits per yard super	per yard super	8/5 —
½" Gypsum plasterboard fixed to softwood soffits, in accordance with manufacturer's instructions, scrimmed and finished with setting coat of suitable plaster	per yard super	6/2
Plaster moulded cornice or cove (per inch in girth)	per foot run	-4½

Cement Rendering

Rendering in Portland cement and sand (1 : 4) and setting in Keenes cement on brick walls and partitions	per yard super	5/1
Portland cement and sand (1 : 3) plain face trowelled smooth on ditto	per yard super	4/8
Portland cement and sand (1 : 3) screed for tiling on ditto	per yard super	2/6

PLASTERER AND TILE FIXER—(continued)

Wall Tiler

6" x 6" x ½" Standard quality white glazed wall tiles set and jointed on prepared screed	per yard super	36/9
Ditto eggshell matt or glossy glazed enamelled	per yard super	46/6

EXTERNAL PLUMBER AND COPPERSMITH AND ZINCWORKER

	Flats	Gutters, flashings, etc.	Stepped flashings
Milled sheet lead and labour	per cwt. 226/-	226/-	234/-
24 S.W.G. sheet copper and labour	per foot super 4/10	5/1	5/4
23 S.W.G. sheet copper and labour	per foot super 5/1	5/6	5/9
14 gauge zinc and labour	per foot super 3/4	3/7	3/10

Rainwater Pipes and Gutters

	3"	4"
Cast iron medium section (¾" metal) R.W. pipes and jointing and fixing to walls with pipe nails and distance pieces or holderbats (cutting and pinning holderbats measured separately)	per foot run 4/8	3/9 5/9 4/8
Pressed steel R.W. pipes and ditto	per foot run 3/3	2/8 4/6 3/10
Asbestos cement R.W. pipes and ditto	per foot run 2/2	— 2/11 —
Cast iron half round eaves gutter and jointed and fixed with brackets to fascia	per foot run 2/1	2/10 3/6 4/3
Ditto O.G. ditto	per foot run 2/7	3/6 3/9 5/3
18 Gauge pressed steel half round ditto	per foot run 2/3	3/1
Ditto O.G. ditto	per foot run 2/8	3/6
Asbestos cement half round ditto	per foot run 2/-	3/1

Soil and Ventilating Pipes

	3"	4"
Lead soil, waste and ventilating pipes (17 lb. per yard for 3" and 22.8 lb. per yard for 4" diameter) fixed to walls with lead tacks and brass screws	per foot run 12/5	17/3
Medium or heavy section cast iron soil, waste and ventilating pipes with caulked joints, fixed to walls, with pipe nails and distance pieces	per foot run 4/10	6/- 6/-

INTERNAL PLUMBER

Lead Pipes

Prices are based upon the following weights per yard.

	1"	1½"	2"	2½"
Supply	7 lb.	11 lb.	16 lb.	21 lb.
Distributing	6	9	12.5	16
Flushing and overflow	3	5	7	9
Waste and ventilating	—	—	—	7
Supply pipe in trench (measured separately)	per foot run 4/5	6/10	9/9	12/9
Ditto fixed to walls and ceilings	per foot run 4/10	7/3	10/6	14/-
Distributing pipe fixed to walls and ceilings	per foot run 4/3	6/3	8/6	11/1
Flushing and overflow pipe ditto	per foot run 3/-	3/11	5/4	7/2
Waste and ventilating pipe ditto	per foot run —	—	—	5/10
Joints to fittings	each 5/8	6/10	7/2	8/5
Bends	each 1/-½	1/-½	1/3	1/7
Branch joints	each 6/6	7/11	8/6	9/9

Steel Tubes and Fittings

Galvanised steel tubes to B.S. 1387 Class C with screwed joints in red lead as supply pipe laid in trench (measured separately)	per foot run 1/8½	2/1	2/2	2/11
Ditto Class B ditto fixed to walls and ceilings as supply, distributing, waste pipe, etc.	per foot run 1/8½	2/1	2/2	2/9
Joints to fittings	each 3/8	4/6	5/3	6/3
Bends	each 2/2	2/6	3/4	5/-
Tee, equal or reducing	each 2/2	2/8	3/2	3/4

Furniture for Special Needs

Certain places, such as offices, hotels, and restaurants need special furniture. Heal's are happy to undertake commissions for individual pieces of furniture, or can execute entire furnishing schemes. In either case we shall try to interpret your ideas as sympathetically as possible and we hope that our long experience of working to architects' plans may prove helpful to you.



The Board Room, Glen Line Ltd., London, showing the furniture designed and made by Heal's Contracts Ltd. The table is Australian walnut and the chairs are covered in hide. The carpet is a green Wilton.

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INTERNAL PLUMBER—(continued)

Copper Tubes and Fittings

Prices are based upon the following gauges:—

	1"	1 1/2"	2"	3"
Supply	18	17	16	16
Distributing, waste, etc.	19	19	18	18
Copper tubes to B.S. 1386, as supply pipe laid in trench (couplings and trench measured separately)	per foot run 1/7 1/2	2/4	3/3	3/10
Ditto to B.S. 659 as distributing, waste pipes, etc. fixed to walls and ceilings. Couplings measured separately	per foot run 1/9 1/2	2/1 1/2	3/1	3/6
Brass compression type couplings—copper to copper	each 4/-	4/9	6/7	8/6
Ditto bends	each 5/3	6/3	9/-	11/7
Ditto tees	each 7/1	8/-	12/3	17/8

Sanitary Fittings

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

GLAZIER

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

GLAZIER—(continued)

	To wood	To metal
1/2" Georgian wired polished plate and ditto	per foot super 4/10	4/11
1/2" Polished plate (glazing quality) and ditto	per foot super 4/6 1/2	4/8

PAINTER

Whitening, Distemper and Paint on Walls

Prepare and twice whiten plastered walls and ceilings	per yard super	1/-
Prepare and twice distemper with washable distemper on plastered walls and ceilings	per yard super	1/6
Ditto on brick or concrete	per yard super	2/-
Prepare, prime, and paint two coats oil colour on plastered walls and ceilings	per yard super	4/3

Paint on Metal

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

Paint on Wood

	Basic price	Add for each additional coat
Knot, prime, stop and paint one coat oil colour on general surfaces of woodwork	per yard super 3/1	1/2 1/2
Ditto on skirtings, rails, frames, etc., not exceeding 3" girth	per yard run -/4 1/2	-/1 1/2
Ditto ditto for each additional 3" in girth	per yard run -/4	-/1 1/2
Ditto on sash squares one side	per dozen 3/11	1/6
Ditto on large sash squares one side	per dozen 7/-	2/8 1/2
Stain and Varnish on Wood		
Prepare, size, stain and twice varnish on general surfaces of woodwork	per yard super	3/1
Ditto on skirtings, rails, frames, etc. not exceeding 3" girth	per yard run -/5	-/4 1/2
Ditto ditto for each additional 3" in girth	per yard run	-/4 1/2

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

8.26 surveying and specification ESTIMATING

How to Estimate. John T. Rea. (B. T. Batsford Ltd., 1951, 11th edition, 21s.)

Eleventh edition, including cost adaptation tables and percentages from 1936 to 1950.

From 1902 until 1937 "How to Estimate" rightly enjoyed a very high reputation as a comprehensive work on the analysis of builders' prices, although, towards the end of this period, some of the illustrations, such as those of incandescent burners and speaking tubes, gave it a slightly old-fashioned air. Since then the prices have not been revised and remain as at 1936/37.

In this, the eleventh edition, "important corrections" have been made to the first three introductory chapters but the corrections do not go so far as to bring the prices per ft. cube up to date. The main feature of this edition consists of cost adaptation tables and percentages, covering rates of

wages and the prices of about forty different materials, from 1936 to 1950.

Despite the high reputation of the editor and the publishers, it is difficult to see how the very meagre amount of really up-to-date information can make the present volume worthy of the price asked.

10.83 design : building types

CHURCH DESIGN

Church Design. Alan G. Fudge. (The Epworth Press. 1950. 4s.)

Fifty pp. Architectural approach. Some plan requirements for church and ancillary buildings. Noise and acoustics.

The author is an architect and commences this small book with a brief discussion on the architectural approach to new church building. This is clearly aimed at breaking down the attitude of negative conservatism encountered among some church building committees.

On "planning" the author gives some useful information on dimensions of seating, etc. The chapter dealing with Sunday school organization may not apply to all organizations but gives suggestions which may raise useful ideas for discussion between architect and clients.

The chapters on noise and acoustics are of some value but hardly go far enough to be a complete study of the subjects and, in any case, quite adequate treatments are available in the recognized textbooks.

There is something for both architect and interested layman in this book but it leaves one with a slight impression that it falls between the two. However, the factual information forms a useful reference for the office.

12.49 materials: metal

ALUMINIUM SECTIONS

Aluminium and Aluminium Alloy Sections. BS 1161:1951. (British Standards Institution. 5s.)

Revision of 1944 Standard. Covers additional sizes. Does not include the large sizes which some manufacturers can supply.

13.68 materials: timber FLOORING

Resistance to Wear of Kwao as Flooring. F. H. Armstrong. (Wood. March, 1951.)

First of series of articles giving result of FPRL tests on wearing properties of unfamiliar woods. Useful.

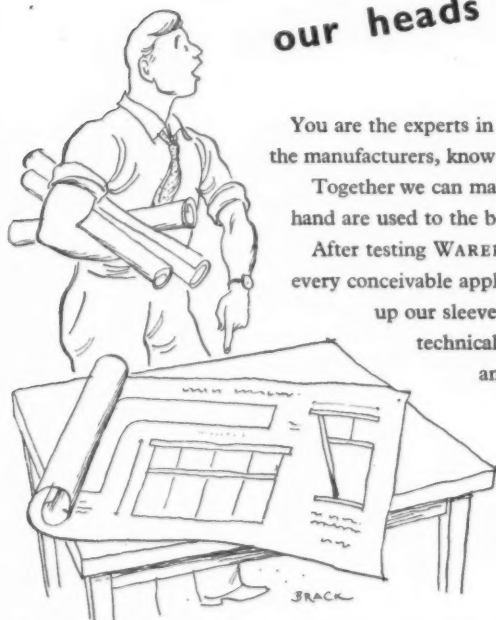
15.87 materials: finishes FLOOR FINISHES

Floor Finishes. F. C. Harper. (RIBA Journal. March, 1951.)

BRS work on floor finishes. Largely description of development of test methods.

Although not the kind of paper which gives immediate answers to the architect's many problems about floor finishes, this is a description of a most important aspect of research—the development of test methods. It deals especially with the difficulties encountered in finding a satisfactory method of testing floors for resistance to wear and it should be noted that with present test methods the comparative results of the same method of test on different types of floor may be very misleading.

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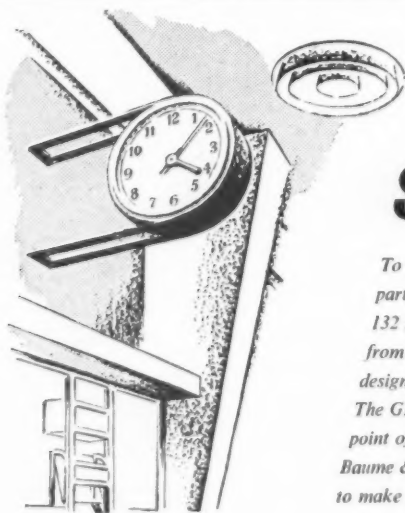
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To ensure accurate synchronization, all clocks at the South Bank exhibition are part of the same GIBSON MASTER CLOCK SYSTEM. The Master Clock controls the 132 slave clocks and Time Recorders in different parts of the exhibition, and batteries, charged from the mains, keep the system running in the event of a power cut. The slave clocks are designed to harmonize with the buildings in which they are installed.

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The Gibson slave clock in the booking hall of the Festival underground station at Waterloo

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24.148 lighting HISTORY OF LIGHTING ENGINEERING

The Early Years of Illuminating Engineering in Great Britain. J. W. T. Walsh. (Trans. IES. Vol. XVI. No. 3. 1951. p. 49.)

Review of development, chiefly from late 19th century. Interesting.

Count Rumford wrote what was probably the first book on illuminating engineering, but engineering practice really got under way when Trotter gave his paper on measurement at the Institution of Civil Engineers, in 1892. In its early years, illuminating engineering was concerned mainly with street lighting.

One of the early controversies centred around the question, should standards depend on the output of the source or the intensity on the object? The former was often favoured (e.g. two 16 candle-power lamps for a bedroom 15 ft. x 15 ft.).

The American IES was formed in 1905 and the English in 1909. Among the active early members was P. J. Waldram. At that time a well-known encyclopædia under "Illumination" merely gave the cryptic reference, "see Fireworks."

From 1909-14 glare was a preoccupation, and the idea of indirect lighting originated about this time in an effort to avoid it. The first lighting code came from this period, and there was a burst of studies of factory lighting in relation to the work of the government Factory Department. Gas lighting was still very common then, and illumination levels fell as low as 1/10 ft. candle.

Waldram published daylight studies as early as 1909 and he and his son J. M. Waldram published the well-known diagram in 1923. By this time the fundamental engineering idea of illumination had been established and the pioneering period came to an end.

24.149 lighting DOWNLIGHTING

Characteristics of Downlighting. R. S. McCandless. (Architectural Record [USA] Feb., 1951. p. 142.)

Design of units, spacing, lighting levels, efficiency. Useful, well illustrated.

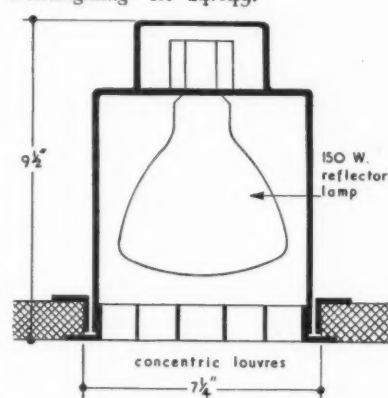
"Downlighting" is the American term for lighting vertically downward through ceiling points. This can only be used alone for certain purposes, and must be used carefully to avoid excessive contrasts. It can provide, on one hand, dim, dramatic lighting with low power, or, on the other, glittering brilliance. Church and shops are two types of building which the author suggests might have downlighting. Downlight units used in conjunction with indirect or general light may have a wider application.

A dozen types of units are described and illustrated, some with baffles, some with louvres, some using spotlight lamps, some using cross-beam reflectors, some with lenses and some designed to control the shape of the beam. Ideally, the author says, downlights should be spaced so that at least ten lights give light to each point on the working place. This means having fairly close spacing, because the units must not spread their light widely, or they will seem excessively bright, for the ceiling gets only reflected light and is, therefore, fairly dark. "Spread" is usually limited to a 90° arc.

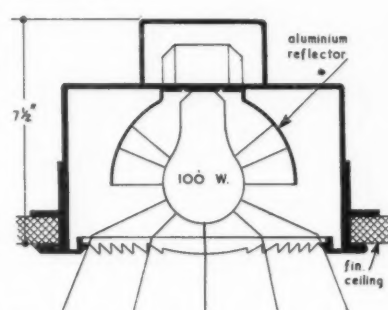
The efficiency of the units is usually low, not greater than 50-60 per cent., and commonly as low as 40 per cent. within the useful arc. The efficiency of optical and pin-spot types of unit is sometimes below 10 per cent.

Colour, access and control are mentioned but no important points are given.

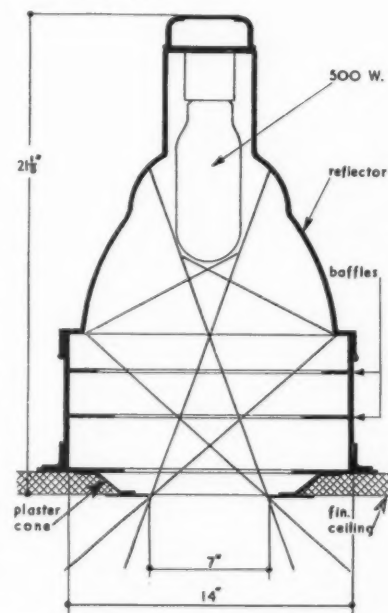
Downlighting—see 24.149.



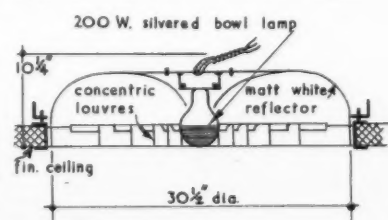
Louvre can.



Flush ceiling plate.



Ellipsoidal reflector in can with baffles.



Flush dome unit.

26.87 services and equipment : miscellaneous FIRE EXTINGUISHING HYDRANTS

Hydrant Systems. Draft BS C of P 402.101: 1950. (British Standards Institution, 2s.)

Draft Code of Practice covering Fire Extinguishing Hydrants in and about buildings.

This Code of Practice will be of use to all who have to provide fixed fire protection equipment in and about buildings. Included are details of appliances and components (with reference to the appropriate BSS), recommendations as to water supplies and to the selection of the appropriate equipment for a given job, and testing and maintenance. Reference is also made to the various authorities to whom reference should be made in the planning stage of a hydrant installation. No reference is made to hydrant installations other than for fire-fighting.



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CANCELLATIONS

Sheet 28.H1 has been cancelled for revision and should be removed from collections. It will be republished.

Sheets 43.E10 and 43.E11 have been cancelled and should be withdrawn from the Library.

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

ENQUIRY FORM

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

Please ask manufacturers to send further particulars to:—

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ADDRESS

A.J. 17.5.51

Announcements

Mr. Peter M. Bone, DIP. ARCH., A.R.I.B.A., has moved to Cranford, Portstewart, Co. Londonderry, Northern Ireland.

Messrs. Adamson, Gray and Adamson, M.INST.R.A./A., have moved to 11, Portman Street, Portman Square, W.1.

Mr. Aiden J. Kernan, A.R.I.C.S., will be glad to receive manufacturers' information sheets, catalogues & technical brochures at 15, College Green, Dublin, Eire.

The address of the Norwich district office of the Hotpoint Electric Appliance Company Ltd. is now 22, St. Benedict's Street, Norwich. The telephone number is still Norwich 20863.

The MOW has authorized the following price increases following rises in costs:—*Cement*, 2s. per ton for Ordinary Portland and Rapid Hardening Cement; *Cast Iron Baths*, 2½ per cent. in maximum selling prices; *Sanitary Fireclay Ware*, 7½ per cent. in the overall maximum selling prices; *Roofing Felts and Dampcourses*, 5 per cent. in the maximum selling prices of roofing felts and dampcourses made to British Standard specifications by members of the Association of British Roofing Felt Manufacturers.

Mr. F. Bowen has been appointed to the board of Radiation Group Sales Ltd., and will be in charge of the Solid Fuel Division. He joined the Radiation organization in June, 1927, as secretary of the John Wright group of companies in Birmingham. In April, 1938, he transferred to the associated company at Leeds—Messrs. Wilsons & Mathiesons Ltd.—of which he became managing director.

A new company, the Société des Revêtements Cemetex, S.A., has been formed, with an issued share capital of 100,000,000 francs, by the Dunlop Rubber Co. Ltd. in con-

junction with the Société Anonyme des Pneumatiques Dunlop, France. The company will operate in France under licence from Semtex Ltd., a Dunlop company, as flooring and decking contractors, and has already begun, at its factory at St. Maur des Fossés, near Paris, the manufacture of thermo-plastic tiles similar to the sematic decorative tiles of the English company. The managing director is M. R. Chevrot, general manager of the French Dunlop company, and the other directors are Mr. F. G. Mottershaw, managing director of Semtex Ltd.; Mr. E. Holt, Dunlop's chief accountant; and MM. G. Lattard, M. Deglos and E. Gimon, all senior executives of the French Dunlop Company.

Messrs. Culpin and Son, 3, Southampton Place, W.C.1, will now be known as Clifford Culpin and Partner. The partners will remain as at present, Mr. Clifford E. Culpin (F) and Mr. W. W. Ryder (A).

Walter Lilly & Co., Ltd., building contractors, of Westminster, have appointed Mr. Henry J. Scholey to the position of Contracts Manager. A Canadian by birth, Mr. Scholey has been engaged on many major projects throughout the United States and Canada, combined with a considerable experience of the construction industry in England during the war years. The firm have recently increased the telephone lines of head office, Abbey 4661, where there are now 10 lines, and their purchasing office, Pollards 5266, where there are now 4 lines.

Messrs. Thomas De La Rue & Co., Ltd., will be holding a private exhibition of their products at the galleries of the Royal Society of Painters in Water Colours, Conduit Street, W.1, from July 2 to July 19. Exhibits of historical interest from the company's own museum will help to tell the story of the firm's development from early Victorian times, and among the articles shown will be several which were on display at the Great

Exhibition of 1851, when the business had already been in existence for nearly 40 years. Admission will be by invitation.

Messrs. Kelly's Directories Ltd., whose "Laxton's Builder's Price Book" was reviewed recently in the Information Centre, announce that this book is now out of print. A new and revised edition will, however, be available next year.

Battersea power station will get its fourth chimney as a result of work begun by Taylor Woodrow Construction Ltd., on November 27 last. Acting for the British Electricity Authority, the contractors are to finish the construction of the station which was delayed by the war. The civil engineering and building contract, which will be completed in 12 months, includes extensions to the switch house, boiler house and turbine house; a new office block and the new chimney, 350 feet high. Taylor Woodrow are also extending West Ham power station.

Messrs. C. S. Allott & Son, consulting engineers, of North Parade, St. Mary's Parsonage, Manchester 3, have taken into partnership Mr. Arnold Bailey, A.M.I.C.E., and Mr. Stanley Gleaves, M.I.STRUCT.E., both of whom have been concerned with the practice during a long period of years and have in more recent times acted as senior associates.

Mr. Rudolf Frankel, F.R.I.B.A., has been appointed Professor of Design for the final class at the Department of Architecture, School of Fine Arts, Miami University, Ohio. His London office address is still 120, Grove End Gardens, N.W.8.

At a recent meeting of the Council of the English Joinery Manufacturers' Association (Incorporated), the president Mr. M. van Westerborg was in the chair; the following firms were elected members:—Woodworth Joinery Ltd., Ernest Slater Ltd., T. W. Bell Ltd., Cygnet Joinery Ltd.

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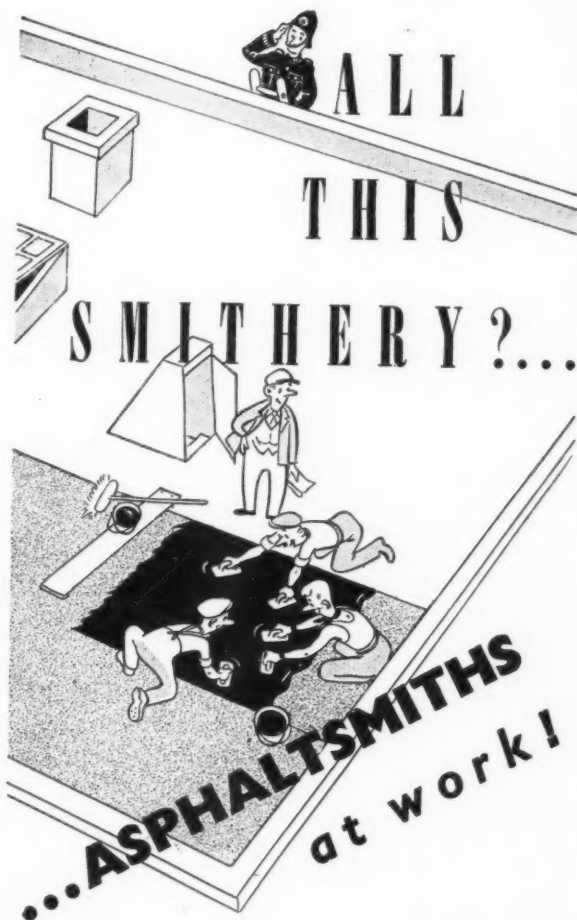
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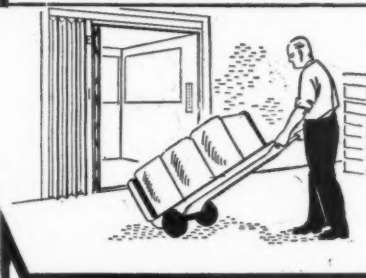
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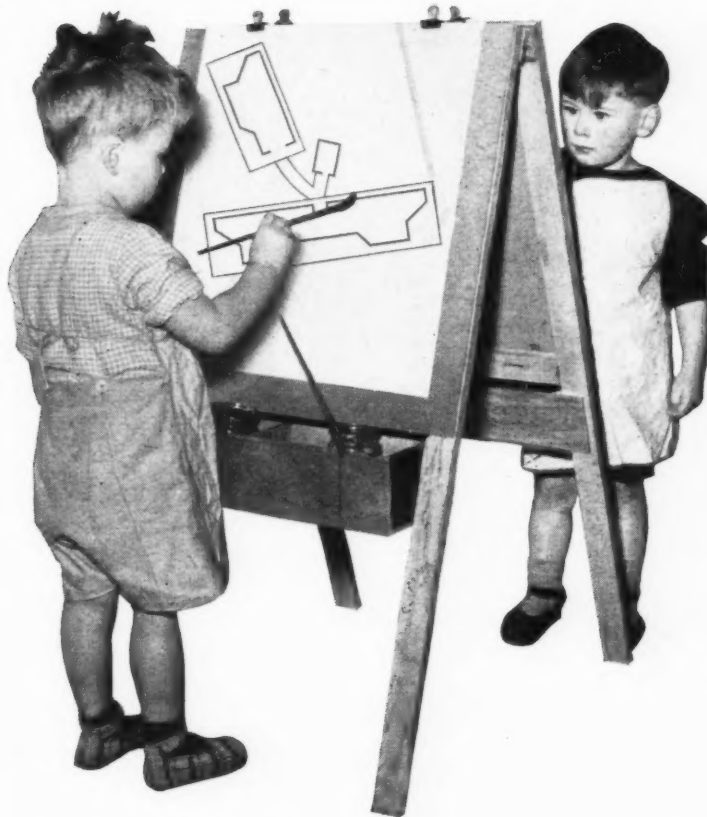
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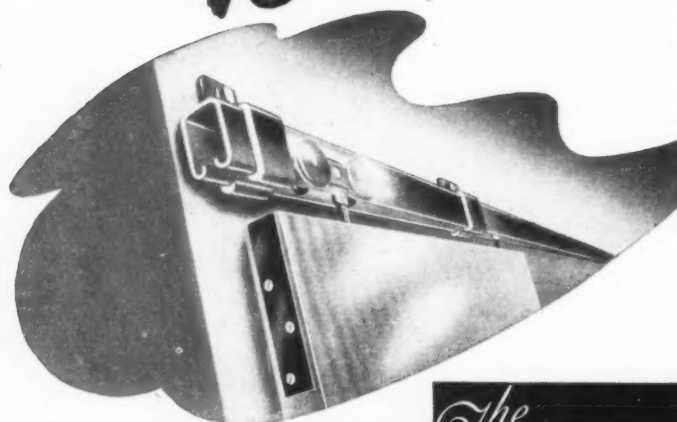
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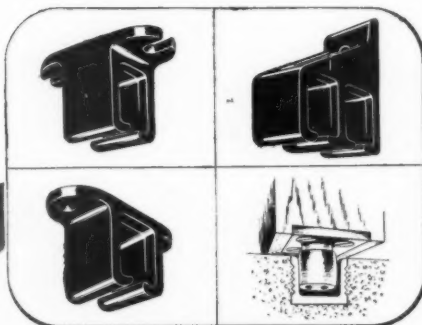
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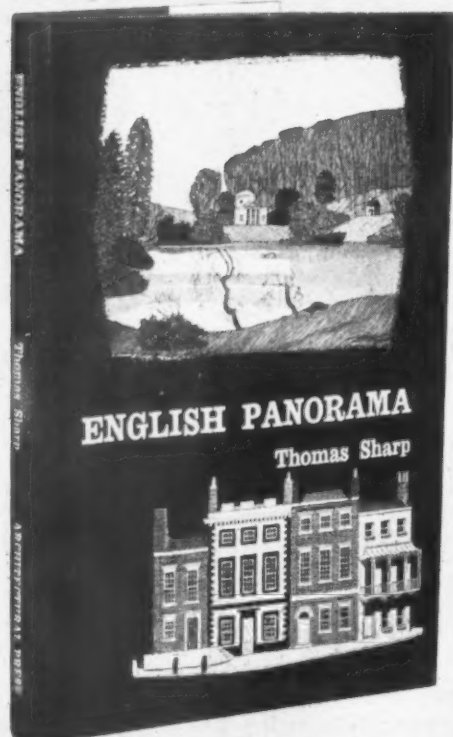


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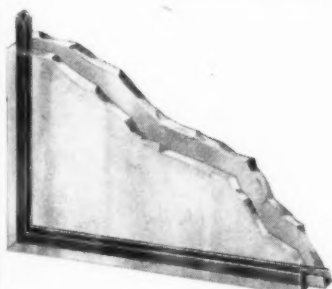
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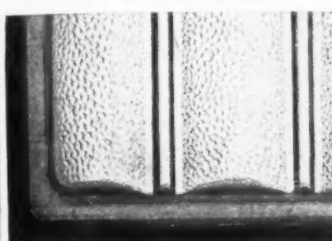
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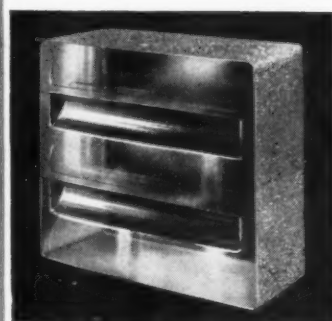


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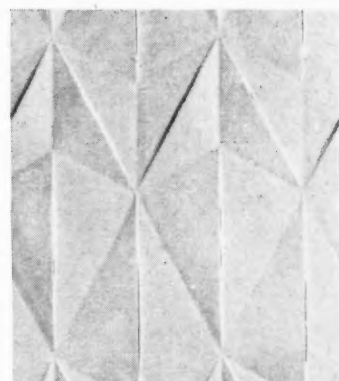
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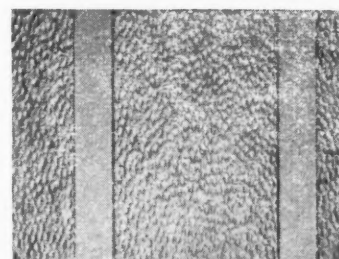
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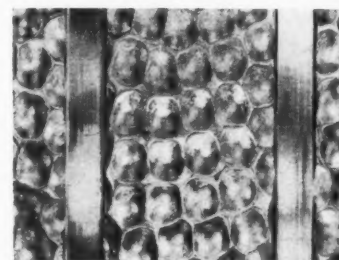
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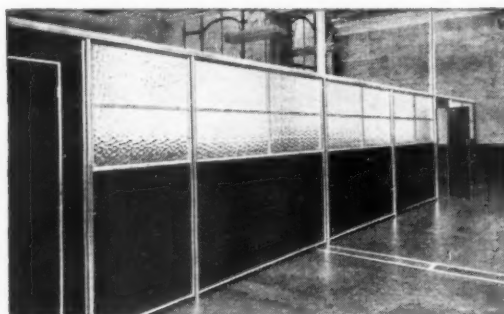
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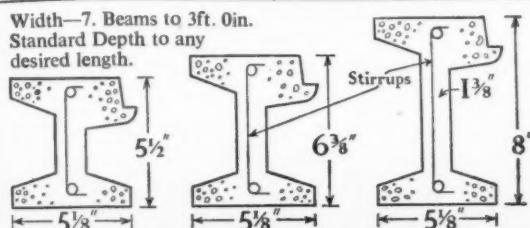
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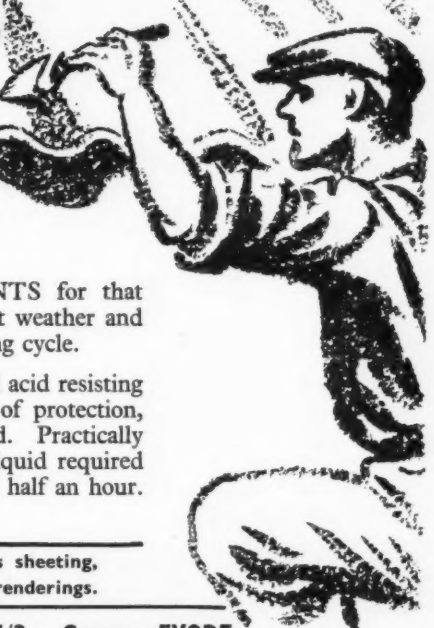
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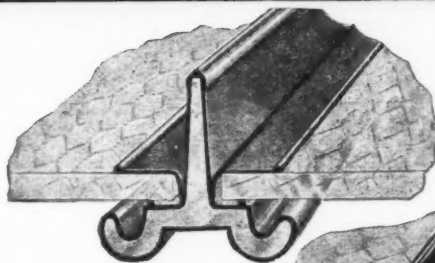
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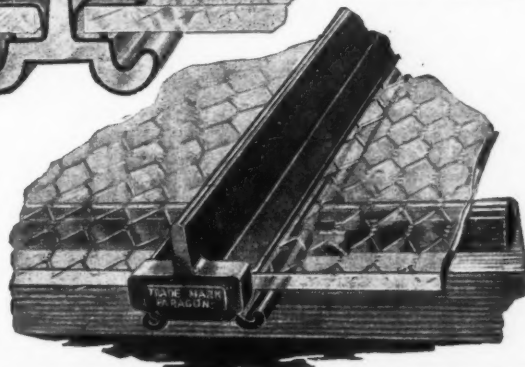
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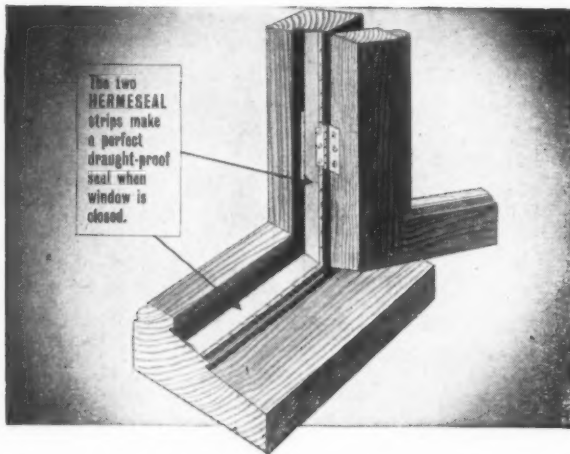
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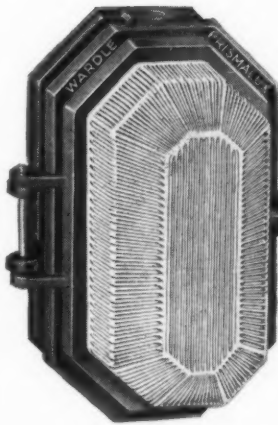
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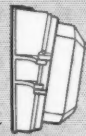
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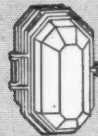
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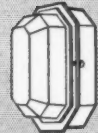
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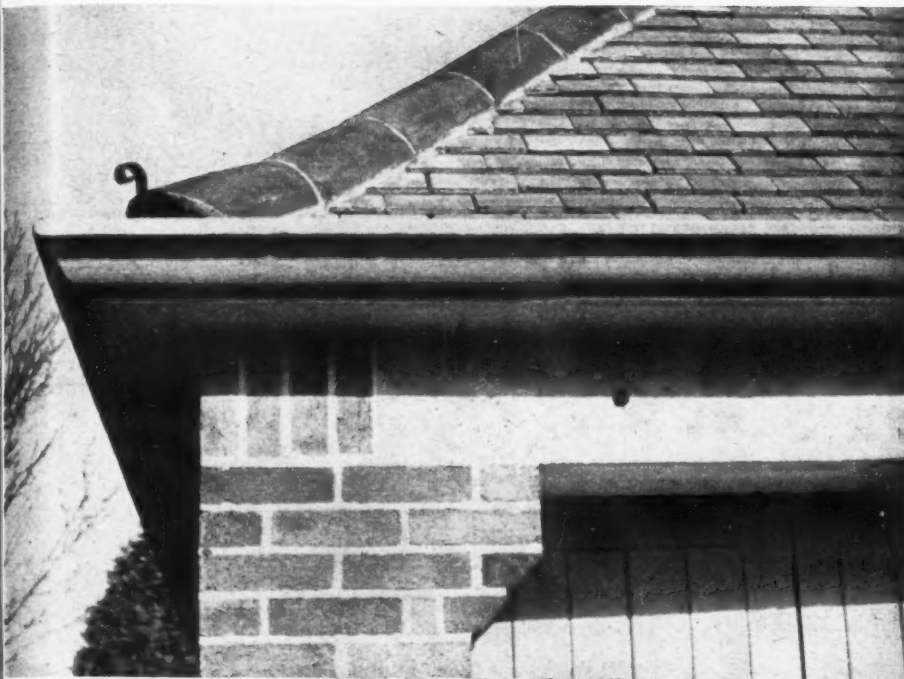
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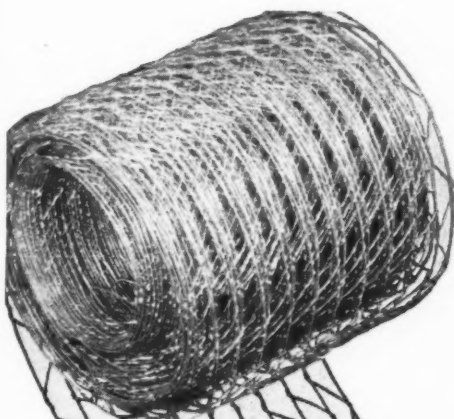
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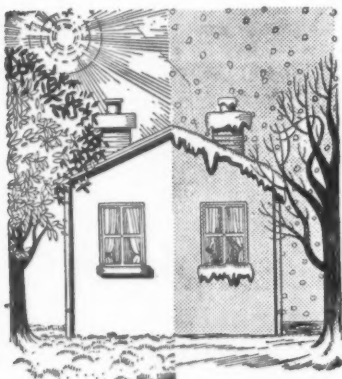
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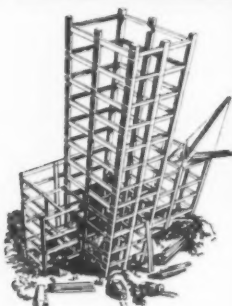
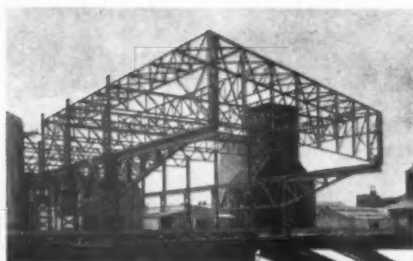
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Exhibition Design. Edited by Misha Black, O.B.E. Contributors: Misha Black, O.B.E., Basil Spence, F.R.I.B.A., James Holland, F.S.I.A., Adrian Thomas, Richard Guyatt, Lynton Fletcher, M.A., J. Mortimer Hawkins, M.I.E.S., H. F. Clark, A.I.L.A., Dorothy Goslett, Austin Frazer.

THE PURPOSE of this book is to show what are the essential qualities of a good exhibition, and how to achieve them. It contains over 270 illustrations—photographs, drawings and plans—of well-designed recent exhibitions grouped under 'Trade Fairs', 'Public Exhibitions', 'Propaganda Exhibitions', 'Travelling Exhibitions', and 'National and International Exhibitions'. The technique of exhibition design is covered comprehensively and in detail. Each chapter is written by an expert in his own field. The mass of information the book contains will be of value to the professional exhibition designer and equally to the exhibition promoter. *Bound in full cloth boards. Size 9½ ins. by 7½ ins.; 188 pages; 274 illustrations. Price 25s., postage 10d.*

Town and Country Planning Textbook. Edited by APRR. Foreword by Professor W. G. Holford.

THIS BOOK PROVIDES the only comprehensive textbook available for students of town and country planning, and at the same time a complete reference book for the practising planner and for other professional workers in allied fields. Compiled under the editorship of both the Association for Planning and the School of Planning, it covers the entire new syllabus of the Town Planning Institute. It affords an opportunity of systematic study in physical planning and is divided into sections on 'Geography', 'Planning Survey', 'Social Survey', 'Transport', 'Industry and Power', 'Law and Economics', all of which are contributed by leading experts. *Bound in full cloth boards. Size 8½ ins. by 5½ ins.; 634 pages; a good bibliography. Price 42s., postage 10d.*

Building Materials: Science and Practice. By Cecil C. Handisyde A.R.I.B.A., A.A.Dip. With a Foreword by A. H. Moberly, Chairman of the Text and Reference Books Committee of the Royal Institute of British Architects.

THIS, THE FIRST of three books written and published at the recommendation of the Royal Institute of British Architects, provides up-to-date information on building materials in a form most useful to architectural students and to practising architects. Mr. Handisyde deals both with traditional materials and the many new materials which have come into use during the past two decades and takes full account of the very considerable amount of recent scientific research which has been brought to bear on all materials, old and new alike. He examines thoroughly those problems of increasing concern to architects today—to what extent alternative materials will provide comfortable buildings, warm and quiet and secure against fire, as well as weatherproof and durable. *Bound in full cloth boards. Size 9 ins. by 5½ ins.; 336 pages; 58 diagrams and photographs. Price 25s., postage 8d.*

Switzerland Builds: Its Architecture Modern and Native. By G. E. Kidder Smith. Introduction by Siegfried Giedion

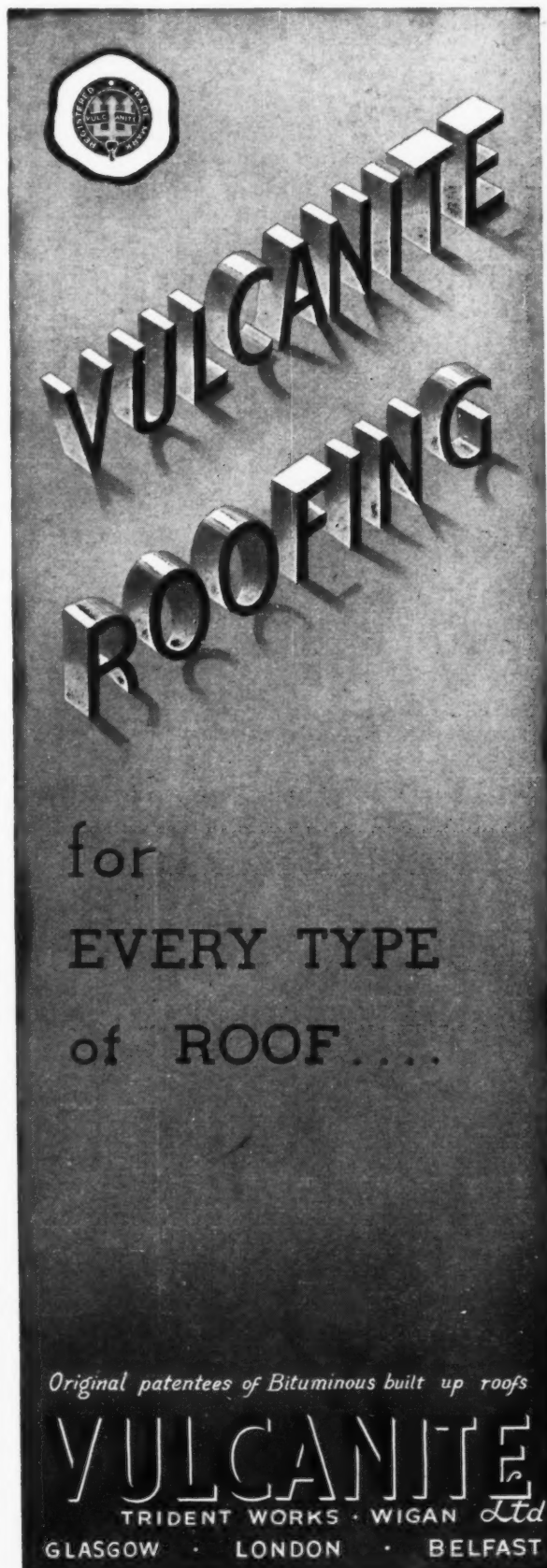
THIS IS THE ONLY BOOK ever published in English recording the development and contribution of one of the chief sources of authentic contemporary architecture. Sixty pages are devoted to a fascinating survey of native types, the simple functional quality of which is in complete sympathy with the contemporary forms that follow. In the design of churches Switzerland stands alone: in her philosophy and building of schools, foremost in Europe; and the public buildings generally rank with the world's finest since the war. Mr. Kidder Smith is 'amongst other things, a photographer of genius' says THE ARCHITECTURAL REVIEW. *Bound in full cloth boards. Size 11½ ins. by 8½ ins.; 234 pages; 40,000 words; 6 pages in full colour; nearly 500 monochrome illustrations. Price 42s., postage 1s. 6d.*

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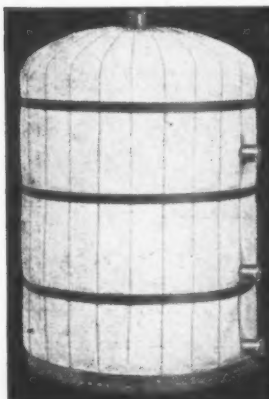
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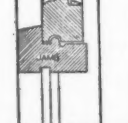
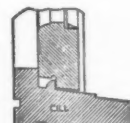
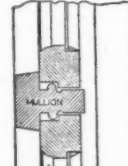
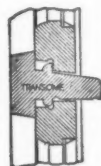
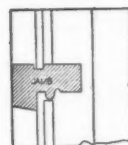
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CLASSIFIED ADVERTISEMENTS

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

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

Public and Official Announcements

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LONDON COUNTY COUNCIL

Applications are invited for positions of ARCHITECTURAL ASSISTANT salaries up to £680 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 Act, 1937, 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) 4555

SOUTH-WEST METROPOLITAN REGIONAL HOSPITAL BOARD.

Applications are invited for the following appointments on the Board's Architectural Staff:

ASSISTANT ARCHITECT, A.P.T., Grade VIII, £565-£760 p.a., plus London weighting allowance. Applicants must be Fellows or Associates of the Royal Institute of British Architects, and have had good general experience, including hospital design and construction, the control of contracts and specification writing.

JUNIOR ARCHITECTURAL ASSISTANT, A.P.T., Grade IV, £490-£525 p.a., plus London weighting allowance. Applicants should have attained the Intermediate standard required by the Royal Institute of British Architects, have had good architectural training and general experience, and be capable of preparing working and detail drawings.

The appointments are subject to the National Health Service (Superannuation) Regulations, 1950, and to satisfactorily passing a medical examination.

Applications, stating age, qualifications, present and past appointments, experience and training, together with the names and addresses of three referees, should be forwarded to the Secretary (S.2), South-West Metropolitan Regional Hospital Board, 11a, Portland Place, London, W.1, to be received by first post on Saturday, 26th May, 1951.

CITY AND COUNTY OF BRISTOL.

BRISTOL EDUCATION COMMITTEE.

COLLEGE OF TECHNOLOGY.

Principal: F. W. PARTINGTON, B.Sc.

Required full-time ASSISTANT LECTURER for Building Construction, Draughtsmanship and General Building and Architectural Subjects. Qualifications in Building, Architecture or Surveying, together with professional and/or teaching experience. Salary scale £450-£725, with graduate and training additions if applicable. Professional experience, National Service, and previous teaching allowed for in fixing initial salary.

Application form (returnable as soon as possible), obtainable by sending stamped addressed envelope to the Registrar, College of Technology, Bristol, 1.

G. H. SYLVESTER,

Chief Education Officer.

Council House, College Green, Bristol, 1. 2599

THE NORTH-WESTERN ELECTRICITY BOARD.

NO. 1 SUB AREA.

APPOINTMENT OF THIRD ASSISTANT ENGINEER (BUILDING CONSTRUCTION).

Applications are invited for the appointment of Third Assistant Engineer (Building Construction), in the Construction Section of the Mains Engineer's Department, No. 1 Sub Area, Town Hall, Manchester.

The successful applicant will be required to give general assistance to the Sub-Area Building Construction Engineer in the control and operation of a sub-section composed of members of all trades in the Building Industry.

The work involves repair and maintenance of all premises within the Sub-Area, and the erection of new sub-stations, office blocks, etc.

Applicants must have had a wide experience in the direct control of labour, supervision of contractors, estimating and costing, and practical experience in building design, will be considered an advantage.

The salary for the post will be in accordance with the National Joint Board Revised Agreement, Class M, Grade X, i.e., £727-£739-£751 per annum.

The post is superannuable.

Applications, stating age, qualifications and experience, present post and salary, should be received by the Sub-Area Secretary, No. 1 Sub-Area, The North-Western Electricity Board, Town Hall, Manchester, 2, not later than Saturday, 26th May, 1951.

BOROUGH OF HESTON AND ISLEWORTH. ENGINEER AND SURVEYOR'S DEPARTMENT.

TECHNICAL STAFF.

Applications are invited for the undermentioned posts in the Borough Engineer and Surveyor's Department:

(a) GENERAL ENGINEERING ASSISTANT, Grade A.P.T., II (£420-£465), plus London weighting.

Other things being equal, preference will be given to candidates who have passed the Intermediate Examination of the Institution of Municipal Engineers or other equivalent.

(b) GENERAL ENGINEERING ASSISTANT, Grade A.P.T., IV (£480-£525), plus London weighting.

Candidates should have good Civil or Municipal engineering experience, and other things being equal, preference will be given to candidates who have passed the examination qualifying for A.M.I.C.E. or A.M.I.Mun.E.

(c) JUNIOR ARCHITECTURAL ASSISTANT, Grade A.P.T., II (£420-£465), plus London weighting.

Other things being equal, preference will be given to candidates who have passed the R.I.B.A. Intermediate Examination.

(d) GENERAL ARCHITECTURAL ASSISTANT, Grade A.P.T., III (£450-£495), plus London weighting.

Candidates should have good experience in an architectural office, and other things being equal, preference will be given to candidates who have passed the R.I.B.A. Intermediate Examination.

The Council is unable to assist the successful candidate with housing accommodation.

Applications, on forms to be obtained from the Borough Engineer and Surveyor, 88, Lampton Road, Hounslow, must be returned to him not later than noon on 28th May appropriately endorsed.

HAROLD SWANN,

Town Clerk.

2522

COUNTY BOROUGH OF GREAT YARMOUTH.

APPOINTMENT OF CLERK OF WORKS.

Applications are invited for the appointment of Clerk of Works, to act under the direction of the Borough Engineer in the supervision of the erection of six-storey flats.

Applicants should have a thorough knowledge of the building trade, the erection of multi-storeyed flats, of steel-frame building and pile foundations. Membership of the Incorporated Clerk of Works' Association of Great Britain would be an advantage. The salary will be £12 per week. Housing accommodation will be provided if required.

Applications, stating age, qualifications and previous experience, together with the names of three persons to whom reference may be made, should be enclosed in an envelope, endorsed "Clerk of Works," and must be received by me not later than Friday, 25th May, 1951.

Candidates must disclose in writing whether they are related to any member or officer of the Council. Canvassing, either directly or indirectly, will disqualify.

FARRA CONWAY,

Town Clerk.

Town Hall, Great Yarmouth.

3rd May, 1951.

2550

MINISTRY OF WORKS.

There are vacancies in the Chief Architect's Division for ARCHITECTURAL ASSISTANTS and LEADING ARCHITECTURAL ASSISTANTS, with recognised training and fair experience. Successful candidates will be employed in London and elsewhere on a wide variety of Public Buildings, including Atomic Energy and other Research Establishments, Telephone Exchanges, and Housing.

Salary: Architectural Assistants, £340-£575 per annum; Leading Architectural Assistants, £570-£675 per annum. Starting pay will be assessed according to age, qualifications and experience. These rates are for London; a small deduction is made in the Provinces.

Although these are not established posts, some of them have long term possibilities, and competitions are held periodically to fill established vacancies.

Apply in writing, stating age, nationality, full details of experience, and locality preferred, to Chief Architect, Ministry of Works, 20, Horse, John Islip Street, London, S.W.1, quoting reference WG10/BC. 2217

NORFOLK COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited from Registered Architects for the appointment of a SENIOR ASSISTANT ARCHITECT, Grade VI (£595-£660 per annum).

Applications are also invited for the appointment of an ASSISTANT ARCHITECT, Grade V (£520-£570).

The above salaries do not include the increases recently recommended by the National Joint Council, which have not yet been considered by the County Council.

Applications, stating age, qualifications, present appointment and salary, full details of experience, and giving the name of three persons to whom reference may be made, should be sent to the County Architect, 27, Thorpe Road, Norwich, by not later than Monday, 28th May, 1951.

The appointments are on the permanent staff and are subject to National Conditions of Service.

H. OSWALD BROWN,

Clerk of the Council.

County Offices, Thorpe Road, Norwich.

2527

WEST SUFFOLK COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of JUNIOR QUANTITY SURVEYING ASSISTANT, on A.P.T., Grades I-II (£440-£515), of the National Joint Council Salary Scales, position on scale according to qualifications and experience.

Applicants should be Students of the Royal Institute of Chartered Surveyors studying for the Intermediate Examination and with not less than two years' office experience.

The appointment 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 candidate 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.

May, 1951. 2590

DERBYSHIRE COUNTY COUNCIL, ARCHITECT'S DEPARTMENT.

Applications are invited for the undermentioned appointments. Conditions of service are in accordance with the National Scheme for Local Authorities, as adopted by the County Council: QUANTITY SURVEYORS: (a) A.P.T., Grade VI; (b) A.P.T., Grade I. Applicants for (a) must be in possession of an appropriate professional qualification. The posts will be subject to the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination. Canvassing in any form will be a disqualification for appointment.

Applications to reach this office not later than 31st May, 1951, on forms which may be obtained from the undersigned.

F. H. CROSSLEY, Dipl. Arch. (L'pool),

F.R.I.B.A., County Architect.

St. Mary's Gate, Derby.

18th May, 1951.

2591

BOROUGH OF WREXHAM.

Applications are invited for the following appointments in connection with Capital Works (Housing):

(a) ARCHITECTURAL ASSISTANT (A.P.T., Grade Va or VI, £550-£610, or £595-£660 per annum, according to qualifications and experience).

(b) ASSISTANT QUANTITY SURVEYOR (A.P.T., Grade IV, £480-£525 per annum).

(c) CLERK OF WORKS (£405-£465 per annum).

Applicants for appointment:

(a) should be Associate Members of the R.I.B.A. or hold equivalent qualifications, and have a general architectural experience;

(b) should be suitably qualified and have had general experience in the preparation of Bills of Quantities, measuring and valuation for Interim Certificates and Final Accounts on various Building Contracts;

(c) should have a sound knowledge of Building Construction and all branches of Building Trades, and should preferably have had previous experience as a Clerk of Works on such contracts.

The Council is prepared to offer housing accommodation to the successful applicants (if married) for appointments (a) and (b).

Forms of application and Conditions of Service for the appointments may be obtained from the Borough Engineer and Surveyor, 31, Chester Street, Wrexham, and returned in an envelope appropriately endorsed to the undersigned not later than first post on Friday, 8th June, 1951.

PHILIP J. WALTERS,

Town Clerk.

Guildhall, Wrexham.

9th May, 1951.

2592

OUNDLAND AND THRAPSTON RURAL DISTRICT COUNCIL.

JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Junior Architectural Assistant, in the Architect's Department of the above Authority, at a salary within A.P.T., Grades I and II, of the National Scale of Salaries. The point of entry into the relevant salary Grades will depend on the experience of the successful applicant.

The post is permanent, and the appointment will be subject to (a) the National Scheme of Conditions of Service, (b) the provisions of the Local Government Superannuation Act, 1937, (c) the satisfactory passing of a medical examination, and (d) termination by one month's notice on either side.

Applicants should be of R.I.B.A. Intermediate Examination standard; have served Articles in an Architect's office, and have had experience in the preparation of Working Drawings, and making of Surveys. Preference will be given to applicants who have knowledge of Quantities.

Applications should be endorsed "Architectural Assistant," stating age, qualifications, previous and present appointment, and details of training and experience, accompanied by copies of three recent testimonials, should reach the undersigned not later than Friday, 1st June, 1951.

H. H. HASSALL,

Clerk of the Council.

Council Offices, Midland Road,

Thrapston, Kettering.

10th May, 1951.

2693

**LONDON ELECTRICITY BOARD.
NORTH-EASTERN SUB-AREA.**

Applications are invited for the following positions:

ENGINEERING DRAUGHTSMAN (Ref. V.1231/A.), at Stratford, E.15. Candidates should possess a wide experience in design and modification of sub-stations and other buildings, and ability to work on own initiative and deal with Architects and Surveyors. Salary from £500 per annum inclusive.

DRAUGHTSMAN (Ref. V.1230/A.), at South Woodford, E.18. Applicants should be at least 21 years of age and have had a good general education and drawing office experience, preferably on Mains Records. Salary within range £300-£500 per annum inclusive.

The salaries are provisional, pending grading of the posts under the National agreement of the appropriate negotiating body, and the commencing salaries will be determined according to qualifications and experience.

Application forms obtainable from Establishments Officer, 46, New Broad Street, E.C.2, to be returned duly completed within 10 days, quoting clearly the reference number of the vacancy for which application is made. Please enclose addressed foolscap envelope and quote relevant reference on all correspondence. 2562

**LANCASHIRE COUNTY COUNCIL.
DEPUTY COUNTY ARCHITECT.**

Applications are invited from Fellows or Associates of the R.I.B.A. for the appointment of Deputy County Architect, at a salary of £1,700-£2,750 p.a.

The establishment of the department is a large one and, in addition to high architectural ability, first-class administrative capacity will be necessary. The appointment will be terminable by three months' notice.

Applications forms, obtainable from G. Noel Hill, F.R.I.B.A., M.T.P.I., County Architect, County Hall, Preston, must be returned not later than 9th June, 1951. 2561

BIRMINGHAM REGIONAL HOSPITAL BOARD.

Applications are invited for the following appointments:

SENIOR ASSISTANT ARCHITECT. Salary scale: A.P.T., VIII (£685-£760). Applicants must have the Final R.I.B.A. or possess recognised Diploma of Architecture, and should have considerable experience of design of buildings and building procedure. Experience in design of mental hospitals will be an advantage.

ARCHITECTURAL ASSISTANT. Salary scale: A.P.T., III (£450 to £495). Applicants should be neat and expeditious draughtsmen, with experience of surveying buildings, preparing sketch designs, working drawings and details. Registration as student of R.I.B.A. will be an advantage.

ASSISTANT QUANTITY SURVEYOR. Salary scale: A.P.T., VII (£635-£710). Applicants should have Final of Royal Institute of Chartered Surveyors, and be fully experienced in taking off and preparation of Bills of Quantities.

Appointments are subject to National Health Service (Superannuation) Regulations, 1950, and to one month's notice. Applications, stating age, qualifications, experience and present appointment, with details of two referees, should be submitted to the Secretary, Birmingham Regional Hospital Board, 10, Augustus Road, Birmingham, 15, not later than 4th June, 1951. 2560

**METROPOLITAN BOROUGH OF POPLAR.
APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT (GRADE A.P.T., VIII).**

Applications are invited from suitably qualified persons for the permanent appointment of Chief Architectural Assistant in the Architect's Section of the Borough Engineer and Surveyor's Department. The applicant appointed will be under the direction of the Principal Assistant Architect, who is responsible for the section. The salary payable will be in accordance with Grade A.P.T., VIII, of the National Salary Scales, i.e., £685-£760 per annum, plus London weighting. Experience in the design of housing and multi-storey flats, and have a good knowledge of building construction, specification writing, and must be able to supervise a team of assistants.

Several schemes for the development of residential and neighbourhood units have been phased over a period of many years, in which will be involved interesting design and constructional problems. The applicant appointed will be engaged on the projects forming these areas.

Applicants should be Associates of the Royal Institute of British Architects. Full details of the appointment and forms on which application must be made may be obtained from the Borough Engineer and Surveyor, Poplar Town Hall, Bow Road, E.3, to whom completed applications must be delivered not later than first post on Tuesday, 22nd May, 1951. 2507

**POPULAR TOWN HALL, BOW ROAD, LONDON, E.3.
26th April, 1951.**

**LONDON COUNTY COUNCIL.
ARCHITECT'S DEPARTMENT.** Applications are invited for positions of ARCHITECT, Grade III (£650-£700) and TECHNICAL ASSISTANT (up to £580) for architectural work on new housing, schools and other public buildings. The positions are superannuable, and the above rates are subject to an addition of 10 per cent. on the first £600 and 7½ per cent. on any remainders. Application forms from the Architect, The County Hall, S.E.1, enclosing stamped addressed foolscap envelope and quoting AR/EK/A. Canvassing disqualifies. (514) 3914

CITY OF BIRMINGHAM EDUCATION COMMITTEE.

APPOINTMENT OF ASSISTANT QUANTITY SURVEYOR.

Applications are invited for appointment as Assistant Quantity Surveyor in the Architect's Branch of the Education Department. Salary: A.P.T., II (£470-£515).

Applicants should be thoroughly experienced in "working up," and should have passed the Intermediate Examination of the Royal Institute of Chartered Surveyors or its equivalent. Experience in the settlement of final accounts for minor contracts will be an advantage. The appointment will afford good experience for the keen worker over the whole field of quantity surveying.

Forms of application may be obtained from the undersigned, to whom they should be returned not later than 8th June, 1951.

E. L. RUSSELL,

Chief Education Officer,
Education Office, General Purposes Branch,
Council House, Margaret Street,
Birmingham, 3. 2583

EAST KILBRIDE DEVELOPMENT CORPORATION.

ASSISTANT EXECUTIVE IN THE ARCHITECTURAL DEPARTMENT.

The Corporation invite applications for the post of Assistant Executive in the Architectural Department. Candidates must have had substantial experience in the control and organisation of large scale building works carried out by contract and in the running of a large architectural office. It is desirable but not essential that applicants should be qualified Architects. The salary scale is £1,250-£50 to £1,500 per annum, with placing according to experience, etc. The appointment is subject to the Corporation's Conditions of Service and Superannuation Agreement. The selected candidate will be required to pass a medical examination. A house will be made available if required. Application forms may be obtained from the General Manager, Torrance House, East Kilbride, to whom they should be returned not later than 9th June, 1951.

Canvassing, directly or indirectly, of the members of the Corporation will constitute an absolute disqualification. 2571

**PETERLEE DEVELOPMENT CORPORATION.
APPOINTMENT OF QUANTITY SURVEYOR.**

Applications are invited from Associate Members of the Royal Institute of Chartered Surveyors for the appointment of Quantity Surveyor, at a salary equivalent to A.P.T., Grade VIII or IX, of the N.J.C. Salary Scales. Applicants should have considerable experience in preparation of Bills of Quantities and estimates of all types, particularly for housing work, and should be competent to carry out measurement of work on site, issue certificates, and check final accounts.

The position is a superannuable one, and the successful applicant will be required to pass a medical examination. The appointment, which is subject to the Conditions of Service adopted by the Corporation, will be terminable by one month's notice in writing on either side.

Housing accommodation will be made available to the person appointed.

Applications, giving particulars of age, experience, qualifications, etc., together with the names of two referees, should be addressed to the undersigned, to arrive not later than 2nd June, 1951.

A. V. WILLIAMS,

General Manager,
Shotton Hall, Castle Eden, Co. Durham.
4th May, 1951. 2569

STEVENAGE DEVELOPMENT CORPORATION.

The Stevenage Development Corporation invite applications for the following posts in the Department of Architecture and Planning (Chief Architect and Planner, Clifford Holliday, M.Arch., F.R.I.B.A., M.T.P.I.)—

(1) ASSISTANT ARCHITECTS. Grade IV. Salary £580-£30-£750. Applicants should be fully qualified Architects, with experience in housing and/or industrial buildings.

(2) JUNIOR ARCHITECTS. Grade Va. £530-£25-£570.

Candidates should either have completed a degree or diploma course at a recognised school of architecture or have passed the Final Examination of the R.I.B.A.

(3) ARCHITECTURAL ASSISTANT. Grade VI. Salary £350 at age 21, £379 at age 22, £400 at age 23.

Candidates must have reached the Intermediate standard of the R.I.B.A.

(4) TRACER. General Division. Scale (maximum), females £306, males £385. Initial salary according to age.

Initial salaries for posts (1) and (2) will be fixed according to qualifications and experience. Successful applicants will be required to contribute to a Local Government Superannuation Fund or an Assurance Scheme.

The Corporation anticipates that, if so desired, it will be able in the near future to offer successful married candidates the tenancy of a Corporation house.

Canvassing, directly or indirectly, of members or staff of the Corporation will disqualify.

Forms of application may be obtained from the Chief Administrative Officer, Stevenage Development Corporation, Aston House, near Stevenage, Herts., to whom completed forms should be returned not later than 28th May, 1951. 2568

BOROUGH OF WIDNES.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT, at a salary in accordance with A.P.T., Grade IV, of the National Scale of Salaries, commencing at the minimum of the grade.

Applicants must be Student R.I.B.A. and have worked in an architectural office for at least two years subsequent to having passed the Intermediate Examination.

The appointment will be subject to the National Scheme of Conditions of Service as adopted by the Council, and to the Local Government Superannuation Act, October, 1937, and to the successful candidate passing a medical examination.

Applications, stating full particulars of age, experience and qualifications, etc., together with the names and addresses of two referees, to be sent to the Borough Architect, Brendan House, Widnes Road, Widnes, not later than Friday, 8th June, 1951.

Canvassing, directly or indirectly, will disqualify.

FRANK HOWARTH,

Town Hall, Widnes.
7th May, 1951. 2563

**COUNTY BOROUGH OF READING.
BOROUGH ARCHITECT'S DEPARTMENT.**

Applications are invited for the under-mentioned appointments:—

(a) SENIOR ASSISTANT ARCHITECT, Grade VI (£595-£660 p.a.).

Applicants for this post must be Associates of the Royal Institute of British Architects.

(b) ARCHITECTURAL ASSISTANT, Grade I (£390-£430 p.a.).

Applications should be received by the Borough Architect, Town Hall, Reading, by Thursday, the 31st May, 1951, from whom the application forms can now be obtained.

G. F. DARLOW,

Town Hall, Reading.
18th May, 1951. 2584

CITY OF MANCHESTER.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of an ASSISTANT ARCHITECT on the permanent staff.

Salary: A.P.T., Grade V (£570 to £620 per annum).

Candidates must be Registered Architects; preference will be given to applicants who are Associates of the Royal Institute of British Architects and/or hold a Degree or Diploma of a recognised School of Architecture.

Persons who have the qualifications named above, but are not yet registered architects, are eligible to apply; the salary in such case would be A.P.T., Grade IV, commencing at £530 per annum, until registered.

Forms of application may be obtained from and returned to Leonard C. Howitt, B.Arch., F.R.I.B.A., City Architect, Town Hall, Manchester, 2, by the 1st June, 1951.

Canvassing is prohibited.

PHILIP B. DINGLE,

Town Hall, Manchester, 2.
May, 1951. 2582

BURGH OF PAISLEY.

Applications are invited for the following appointments in the Burgh Engineer's Department, viz.:

(a) ARCHITECTURAL ASSISTANTS. A.P.T., V.

(b) PLANNING ASSISTANTS. A.P.T., V. Applicants for (a) should have experience of housing, preferably with a local authority, and be qualified by examination as A.R.I.B.A. or equivalent.

Applicants for (b) should have suitable experience in Town Planning, and be qualified by examination as A.M.T.P.I. or equivalent.

The above appointments will be on a permanent basis, subject to the successful applicants passing the prescribed medical examination, and may be determined by one month's notice on either side. The successful applicants will be required to contribute to the Superannuation Fund.

Applications, with names of two referees, should be sent to the undersigned to reach him on or before Monday, 28th May, 1951.

JOHN A. MCGREGOR,

Burgh Engineer.
14, Gilmour Street, Paisley. 2581

HUDDERSFIELD TECHNICAL COLLEGE.

Principal: Dr. W. E. Scott, M.B.E.

Applications are invited for the post of HEAD OF THE DEPARTMENT OF BUILDING.

Candidates should hold suitable professional qualifications in Building or Architecture, and have had both teaching and industrial experience. The Department is graded I in the Burnham Scale for Establishments for Further Education. Salary £900-£25-£1,000. Duties to commence on 1st September, 1951, or as soon afterwards as possible.

No forms of application are issued, but further particulars are obtainable from the Principal, Huddersfield, to whom applications should be sent as soon as possible, accompanied by two testimonials and the names of three persons to whom reference can be made.

H. KAY,

Chief Education Officer.
2597

CITY OF LEEDS.

CITY ARCHITECTS' DEPARTMENT.

Applications are invited for the following appointments:

(a) ASSISTANT ARCHITECTS. A.P.T., VI-VII. Salary scale, £595-£710.

(b) ASSISTANT ARCHITECTS. A.P.T., VI. Salary scale, £595-£660.

(c) ASSISTANT ARCHITECTS. A.P.T., V. Salary scale, £520-£570.

Candidates must be Registered Architects.

(d) ARCHITECTURAL ASSISTANTS. A.P.T., IV. Salary scale, £480-£525.

(e) ARCHITECTURAL ASSISTANTS. A.P.T., III. Salary scale, £450-£495.

(f) ARCHITECTURAL ASSISTANTS. A.P.T., II. Salary scale, £420-£465.

(g) ASSISTANT QUANTITY SURVEYOR. A.P.T., VIII. Salary scale, £685-£760 p.a.

Candidates must be Members of the Royal Institution of Chartered Surveyors, and must be competent and experienced in all branches of quantity surveying.

(h) ASSISTANT QUANTITY SURVEYOR. A.P.T., V-VI. Salary scale, £520-£660.

Candidates should preferably have passed the Final Examination of the Royal Institution of Chartered Surveyors.

In each case the payment of salary increments will be subject to satisfactory service, and will be granted normally with effect from the 1st April following the completion of 6 months' service.

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

Application forms may be obtained from the City Architect, Priestley House, Quarry Hill, Leeds, 9, to whom they should be returned, together with copies of three recent testimonials, by 10 a.m. on Friday, 25th May, 1951.

Canvassing in any form, either directly or indirectly, will be a disqualification.

R. A. H. LIVETT, A.R.I.B.A., City Architect.

Priestley House, Leeds, 9. 2565

4th May, 1951.

BOROUGH OF DEVIZES.

TECHNICAL ASSISTANT.

Applications are invited for the temporary appointment of Technical Assistant in the office of the Borough Surveyor and Water Engineer, to assist in the preparation of schemes for the Council's permanent housing programme, at a salary in accordance with Grade IV (A.P.T.) of the National Scale of Salaries (£480 p.a., rising by annual increments of £15 to £525).

Applicants should have had good experience in the preparation of schemes of Municipal Housing, including Sewerage, Highways, and Water Supply. Preference will be given to applicants who have passed an examination of the Institution of Civil Engineers or the Institution of Municipal Engineers or the Royal Institution of British Architects.

Forms of application and any further particulars may be obtained from, and applications should be addressed to, the Borough Surveyor and Water Engineer, The Chequers, Devizes, Wilts.

All applications should be received in an envelope endorsed "Technical Assistant" by not later than noon on Monday, 4th June, 1951.

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

A. HODGE, Town Clerk.

Midland Bank Chambers, Devizes, Wilts. 2566

3rd May, 1951.

UNIVERSITY COLLEGE, IBADAN.

The University College, Ibadan, Nigeria, invites applications for the post of MAINTENANCE OFFICER, on salary of £950 a year.

Applications should reach the Registrar, University College, Ibadan, Nigeria, not later than 30th June, 1951, or the London Representative, University College, Ibadan, 1, Gordon Square, London, W.C.2, not later than 15th June, 1951. Further details may be obtained on application to either of the above. 2596

COUNTY BOROUGH OF HALIFAX.

BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF QUANTITY SURVEYOR.

Applications are invited for the above appointment, at a salary in accordance with Grade A.P.T., VII (£685-£760).

Housing accommodation for the successful candidate will be provided if necessary.

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, 26th May, 1951.

RICHARD DE Z. HALL, Town Clerk.

Town Hall, Halifax. 2564

4th May, 1951.

THE IMPERIAL WAR GRAVES COMMISSION

invite applications from suitably qualified candidates for the post of ASSISTANT TO ENGINEER, at their headquarters at Woodburn Green. Candidates must have had general engineering experience, a good education and technical training, and preferably be ex-Service. Experience with a Government or Local Authority or well established firm, including general office routine, would be an advantage. The appointment, which is on a temporary basis, carries salary on the scale £540-£645 per annum.

Applications should be addressed to the Appointments Officer, Imperial War Graves Commission, Woodburn House, Woodburn Green, High Wycombe, Bucks., within 10 days of the appearance of this notice. 2570

2570

COUNTY LONDONDERRY EDUCATION COMMITTEE.

Applications are invited for the following vacancies in the Committee's Architectural Department:—

SENIOR ARCHITECTURAL ASSISTANT. Salary, £400×£20-£600.

JUNIOR ARCHITECTURAL ASSISTANT. Salary, £200×£15-£400.

The point of entry in the salary scales will be determined according to the qualifications and experience of the successful applicants.

A large number of new schools are at present in the sketch plan stage, and successful candidates will be engaged on the preparation of working drawings, details, models and specifications, and will be given scope to work on the designs of other new intermediate and primary schools and school residences, etc., according to the programme on hand.

Successful candidates will be required to study for the R.I.B.A. examinations, facilities for which are provided in the local Technical College.

Forms of application may be obtained from the Education Office, New Row, Coleraine, County Londonderry, and should be returned to the undersigned within two weeks of the appearance of this notice.

R. B. HUNTER, Director of Education. 2594

2594

Architectural Appointments Vacant

4 Hms or under, 7s. 6d.; each additional 1/2 hr. 2s.

LIONEL BRETT & KENNETH BOYD have vacancies at their Hatfield office for three ASSISTANTS, preferably Intermediate standard. Please apply in writing to New Town House, Hatfield, Herts., stating experience and salary required. 2541

2541

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in busy country practice. Salary from £700, according to experience, age, etc. The intention is that the appointment should develop eventually into a partnership. Experience in managing offices and controlling staff is desirable, and the opportunity is an excellent one for a man with the required qualifications. Applicants should give full particulars of training, age, experience, etc. Also vacancy for Senior Assistant. Salary £450 to £550, according to qualifications. Box 2487.

BIRMINGHAM.—Architects require keen ASSISTANT, qualified or approaching R.I.B.A. Final; commercial and industrial work. Watson, Johnson & Stokes, Victoria Square. 2465

ARCHITECT'S ASSISTANT required, West Riding, Yorkshire. Must be good quick draughtsman and possess initiative. Good salary offered. Box 2512.

CHIEF and SENIOR ARCHITECTURAL ASSISTANTS required by London Firm of Architects. Please reply by letter, stating training, experience, qualifications and salary required, to Box 2516.

JUNIOR ARCHITECTURAL ASSISTANT required. Write, stating age, experience, and salary required, to Portess & Richardson, Lloyds Bank Chambers, Peterborough. 2518

ARCHITECT'S ASSISTANT required by busy provincial Architect, town and country practice, Reading area. Capable of preparing sketch plans, working drawings, specifications. Supervising. Checking accounts. Car expenses. Good salary and prospects. Write, stating experience and salary required to Box 2524.

ARCHITECTURAL ASSISTANT wanted for private office with varied practice. Reply in writing stating age, experience, and salary required to:—Peirce & Son, Architects & Surveyors, 30, St. Petersburg, Stockport. 2555

2555

JUNIOR ARCHITECTURAL ASSISTANT required in London office. Must be fully experienced, able to take charge of jobs, and to control staff of seven assistants. Excellent prospects for right man. Please reply, with full details of age, experience, and salary required, to Box 2572.

ARCHITECTURAL DRAUGHTSMAN required immediately in our Works Department Headquarters, situated in Manor Park, E.12. This position will be subject to medical examination, and after a satisfactory probationary period the successful applicant will be required to participate in the Society's superannuation scheme. Salary £405 per annum. Applications in writing, stating age, qualifications, and full details of experience in chronological order, to the Staff Manager, London Co-operative Society, Ltd., 54, Maryland Street, Stratford, E.15. 2577

2577

JUNIOR ARCHITECTURAL ASSISTANT required for Central London office, Architect in private practice. Phone Holborn 2843 for appointment. 2578

SENIOR ARCHITECTURAL ASSISTANT required (25 to 40). Salary range £9 17s. 6d. to £11 5s. Knowledge of reinforced concreting and steel work. Able to produce working drawings and specifications. Apply Men's Personnel Dept., Kodak, Ltd., Harrow, Middx. PMB.28427. 2574

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ASSISTANT ARCHITECT required for Manchester firm of Architects. Fully qualified and able to take charge of drawing office staff. Salary offered up to £750 per annum, according to age and experience. Write, stating age, qualifications, and details of previous experience. Box 2586.

TWO ARCHITECTS required, between Intermediate and Final standard. Salary according to qualifications, £500-£550 p.a., or more for the right type of applicant. Work consists chiefly of London Office Buildings and Industrial Architecture. Box 2595.

Architectural Appointments Wanted

ARCHITECTURAL MODEL MAKER (21), with 4 years' experience in Architect's office, knowledge of building construction, and ability to read drawings and work with perspex, card, etc., requires position in London area. Box 139.

SENIOR ASSISTANT (34) A.R.I.B.A., A.M.T.P.I., wide experience in office administration, works organization, design and construction; recently returned from completion of contract overseas, seeks position having reasonable prospects of permanency. Salary £800-£900. Box 146.

ASSOCIATE, school trained, with wide experience of heavy and industrial work, design, contracts and office organisation, seeks new position, at 3 months' notice in Southern England. Position of responsibility essential. Box 2587.

JUNIOR ASSISTANT, evening student, living Hertfordshire, 2 years' office experience, capable of 1/2 in. scale drawings, surveys, etc., seeks progressive post near home or Central London. Box 154.

ARCHITECT'S ASSISTANT, 9 years' varied practical experience, R.I.B.A. student, seeks permanent progressive post offering responsibility and scope for initiative, within daily access of Bournemouth. All replies answered and treated in strict confidence. Box 153.

STUDENT for Probationership, with 2 years' office experience, desires position with Architect leading to articles. Box 152.

ASSISTANT (26), completing Final studies, experience as senior in charge of small office, requires position in similar capacity. Box 151.

ARCHITECT (lady), Dip.Arch., school trained, 3 years' experience, including valuable term abroad, seeks progressive position in London. Box 148.

YOUNG Lady, Intermediate, some experience, requires position in London. Box 149.

ARCHITECTURAL ASSISTANT (28), Final standard, 5 years' school trained since demob., requires position in Southern England, including London, preferably where assistance can be given with housing. Why not interview? Box 150.

CHIEF ASSISTANT ARCHITECT (37), first-class office trained, practical contemporary outlook, excellent experience, specialised industrial and commercial, desires responsible remunerative position. Present address Midlands. Box 155.

A.R.I.B.A. (34) Managing Assistant for 5 years, seeks office with small staff and plenty of work in London or country. Box 156.

A.R.I.B.A. (34), small practice, South Bucks., industrial and general, offers 3 days per week in High Wycombe area, or full time with prospects. Moderate terms. Wide experience in London and provinces. Ambitions. Box 2598.

Other Appointments Vacant

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QUANTITY SURVEYOR required to work in Architect's Dept. of large N.E. London Building Contractors. Box 2575.

ARCHITECT required efficient SECRETARY/SHORTHAND-TYPIST, St. John's Wood. 5-day week. Phone Cunningham 2529 for appointment. 2576

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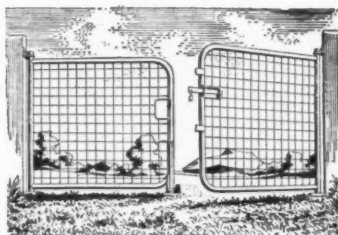
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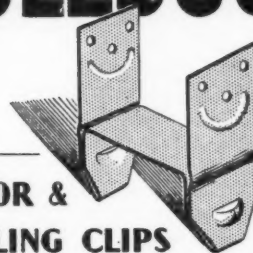
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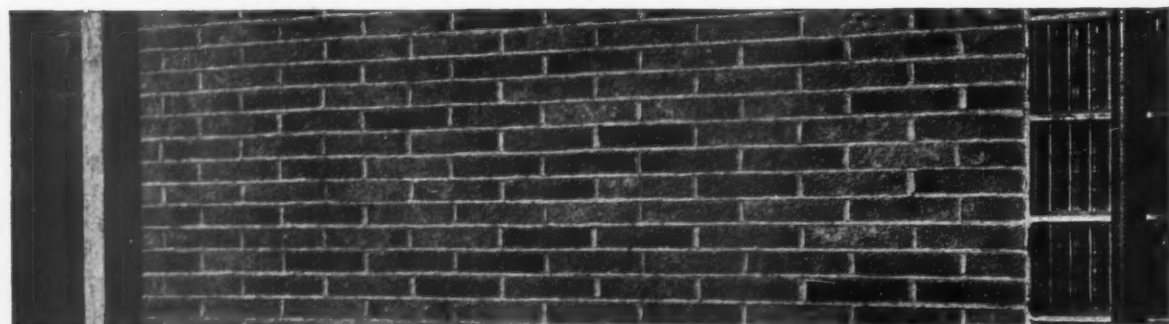
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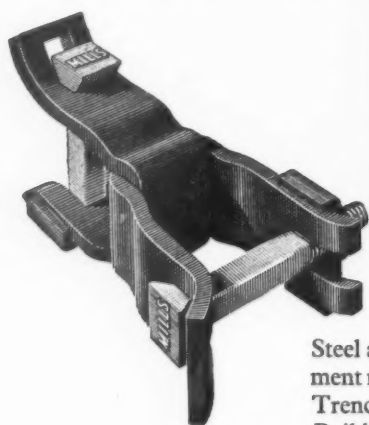
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