(CARLISLE ELECTRICAL MAINS)

(CARLISLE ELECTRICAL MAINS)

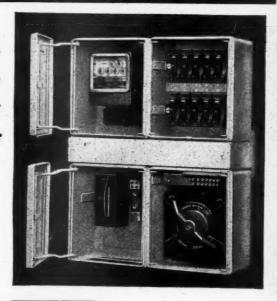
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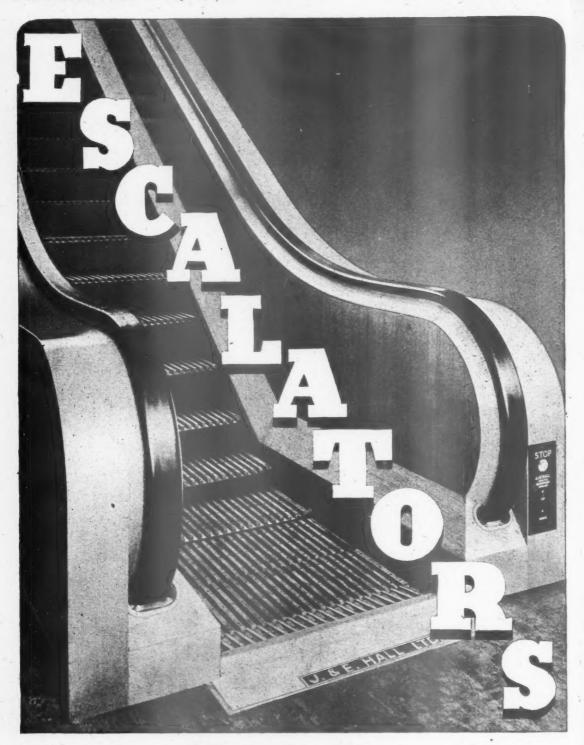




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THIS LONG LENGTH COPPER TUBE WILL SAVE A LOT OF JOINTING

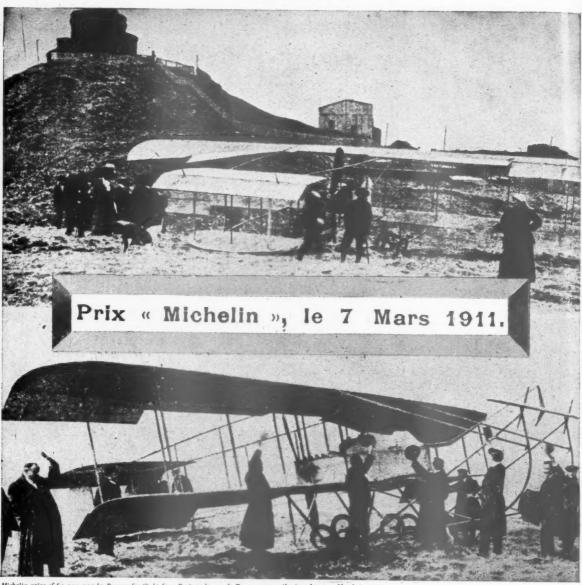


Installation costs of domestic water supply services will be much reduced by the use of "KUTERLON" Long Length Copper Tube which is now supplied in coil form in lengths up to 60 ft. Annealing for the use of mechanical bending appliances are not necessary. Bending can be done by hand,

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Look back a generation in the history of the aeroplane and you see the fluttering, perilous efforts of a fledgling, struggling hopefully towards an uncertain future which, already surpassing the most

fantastic dreams of the pioneers, has not yet reached its climax.

CELLON

Struggling too, in those same days was the new born firm of Cellon; struggling upwards and outwards, expanding and developing a future of their own choice, a future which, already no

mean achievement, also has not yet reached its zenith.

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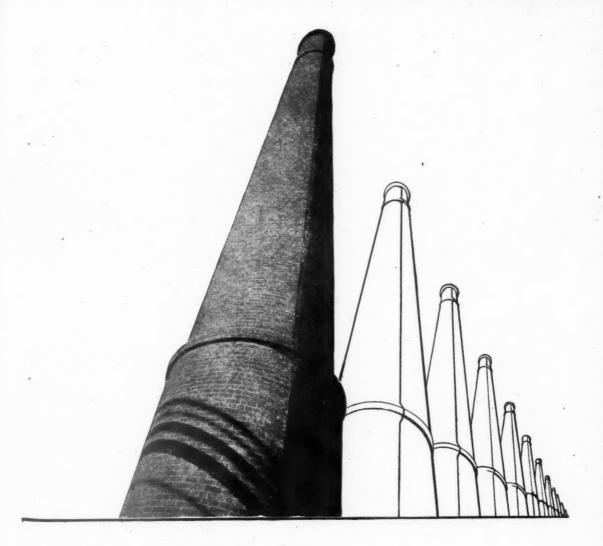
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POST-WAR HOUSING

No. 3. Heat Losses through Floors

RECOMMENDED STANDARDS

The Housing Manual 1944,* issued by the Ministry of Health & Ministry of Works, Appendix B (Structural Standards), paragraph 18 reads as follows:—

"Ground floors should have a heat transmittance coefficient not greater than 0.3. Where the method of construction is such that a higher standard can be attained at moderate cost this should be the aim; coefficients as low as 0.15 are to be recommended."

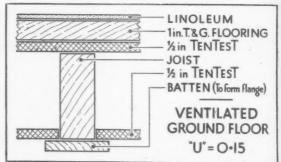
Post-War Building Studies No. I. "House Construction " *(the Burt Committee report). shows, on page 17, that for a ground floor of "lin. (nominal) tongued and grooved boarding on timber joists with a well-ventilated airspace underneath" and with a covering of thin linoleum, having an overall thermal transmittance ("U") of 0.35, an expenditure of Is. per sq. ft. to halve the heat loss through the floor would entail no extra cost to the occupier. The saving in fuel cost would balance the extra rent charge whilst national fuel resources would be conserved. If the heat loss could be halved for less than Is. per sq. ft. "the rent payer also would benefit by a reduction in his total expenditure on rent plus heating."

In the living room "about Is. 6d. (per sq. ft.) could be spent on halving the heat loss through the floor . . . without increasing the expenditure of the occupier, who would benefit directly if the cost was less than Is. 6d." *H.M. Stationery Office, 2/- each.

HOW TO ACHIEVE STANDARDS

The ventilated timber ground floor, so widely used in this country, can very easily and economically be brought up to the new thermal standards by insulation.

The accompanying sketch and figures show that, at the current control price of $\frac{1}{2}$ in. TenTesT of 2s. $4\frac{7}{8}$ d. sq. yd., it costs far less than 1s. per sq. ft. to halve the heat loss through an ordinary ventilated timber ground floor and, indeed, to bring it to the highest recommended standard of efficiency.



The same system of insulation can be used with joists of steel, concrete, etc.

TABLE OF THERMAL TRANSMITTANCES

Ventilated Ground Floors	"U"
lin. (nominal) tongued and grooved boarding on joists, covered thin linoleum	0.35
Ditto, but with ½in. TenTesT between floorboards and joists	0.24
Ditto: but with lin. TenTesT between floorboards and joists	0.18
Ditto: but with 2 layers of ½ in. TenTesT separated by an air-space (see sketch)	0.15

IF YOU are concerned with the design of post-war buildings, perhaps we can help you in one or more of the following ways:

- Advise whether your proposed construction achieves the appropriate thermal standards.
- Show how TenTesT products can help and how they can best be incorporated in the structure.
- Send you our booklet "Structural Insulation" showing how, when and where to use insulation and how to calculate the results in terms of fuel, heating plant and £ s. d.



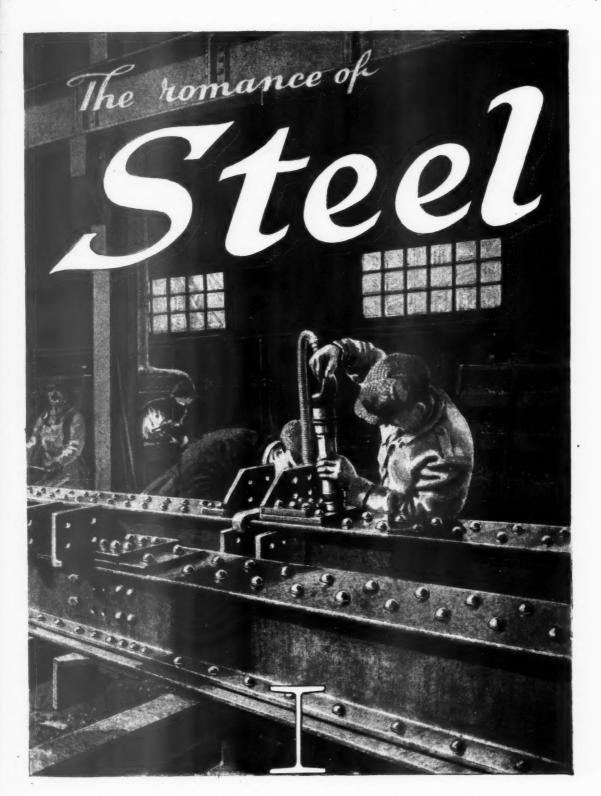
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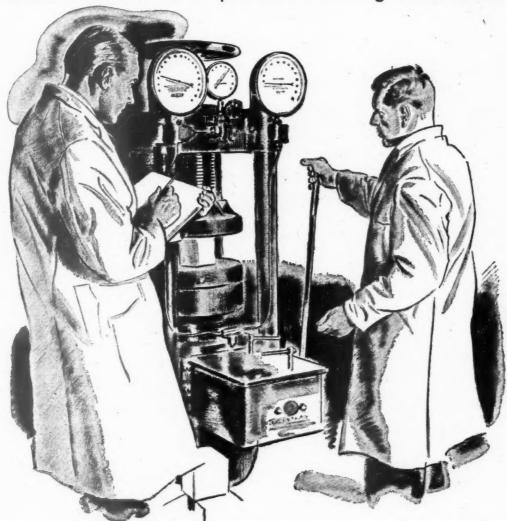
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A hydraulic press for testing sample cubes of concrete at Wimpeys' Central Laboratory. This machine can exert a pressure equal to the load of an express locomotive. By such tests (invariably higher than the specification demands) the Laboratory staff maintain rigid technical control over the materials handled by the men on the site.

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Throughout the period of the contract Wimpeys' Central Laboratory maintains continuous control of both materials and workmanship. Tests are continually being made on concrete cubes, on cements, ballasts, sands and gravels, on soils and asphalts. These tests and others, all conducted in close collaboration with the men on the site, ensure that the materials used in every Wimpey building are right for the job.

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The post-war years will find Wimpeys well equipped for every branch of modern building — from hotels and cinemas to civic centres and labour-saving houses for the people.

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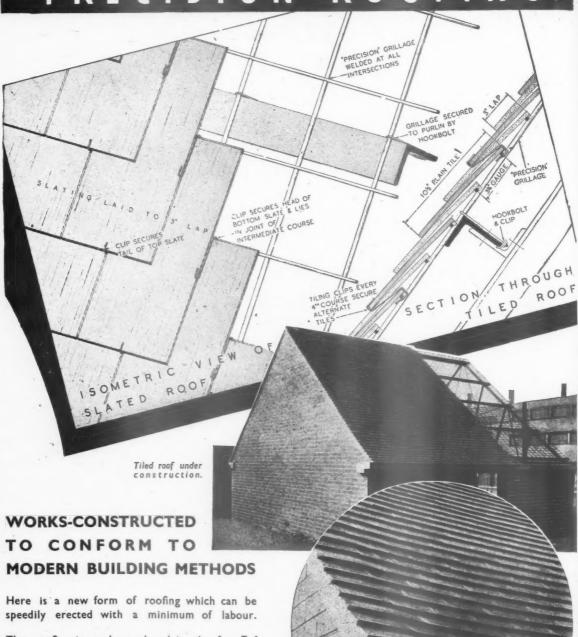
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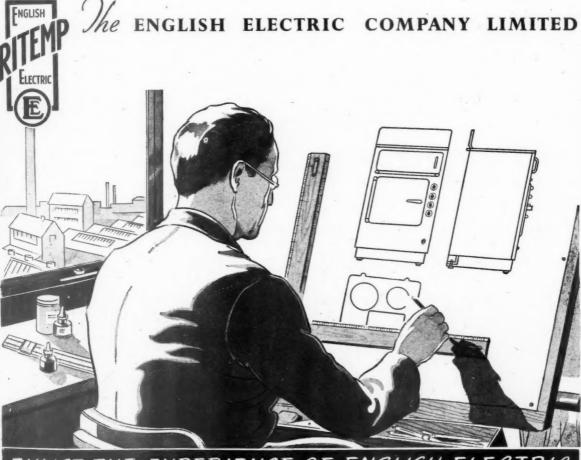
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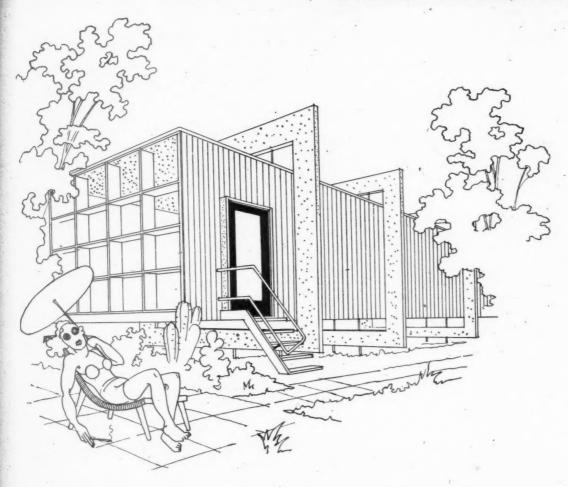
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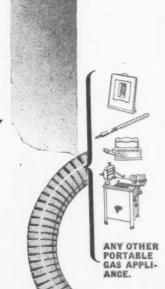
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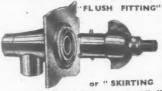




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Centre illustration: Housing for Manchester Corporation.

Director of Housing: John Hughes, B.Arch.,
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Bottom Illustration: Flats at Northampton.

Architects: Sir John Brown and A. E. Henson,
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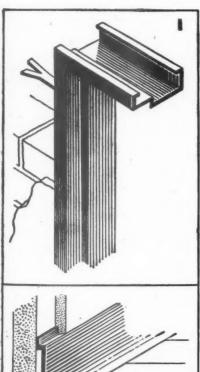
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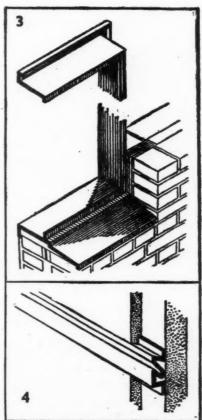


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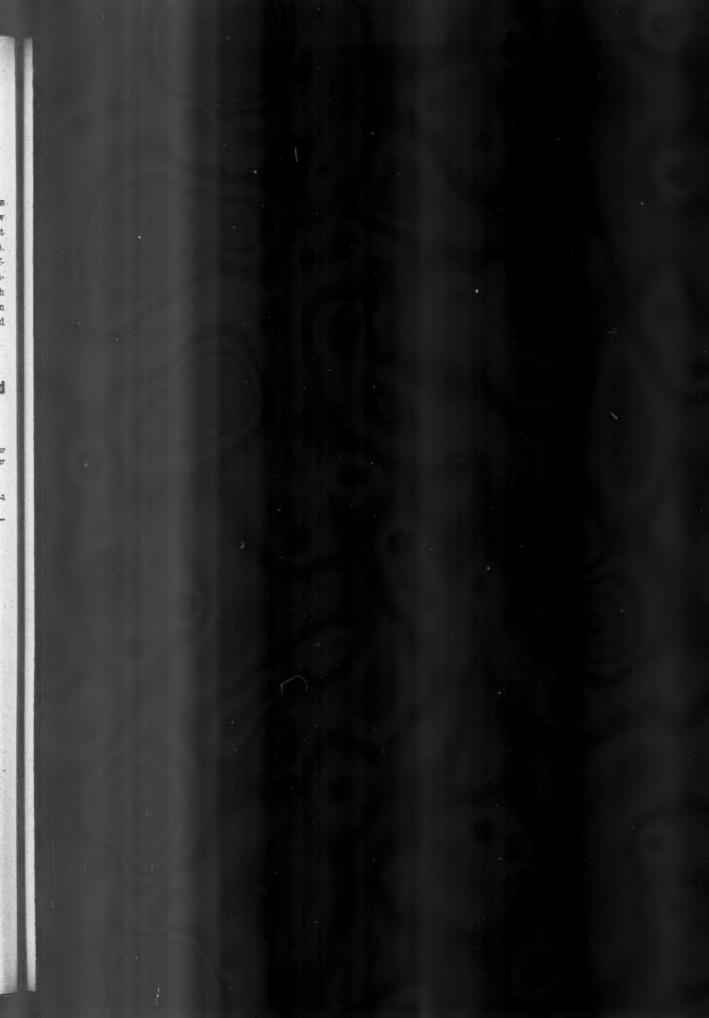
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Used for floors, ceilings, walls, roofs and partitions it will have an essential place in the houses of post-war, built to improved standards of comfort and for fuel economy.



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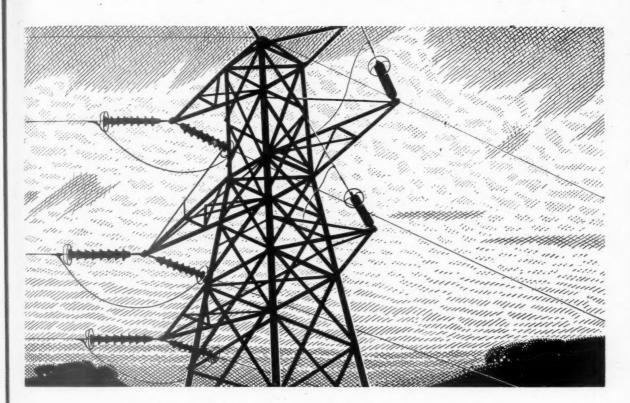
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The M.E.M. factory is ready to turn over its great producing capacity to meet this demand immediately post-war reconstruction begins.

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In common with every other periodical this Journal is rationed to a small part of its peacetime needs of paper. Thus a balance has to be struck between circulation and number of
pages. We regret that unless a reader is a subscriber we cannot guarantee that he will get
a copy of the Journal. Newsagents now cannot supply the Journal except to a "firm
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order." Subscription rates: by post in the U.K. or abroad, £1 155. od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies, 1s. 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 15s. each; carriage 1s. extra. Goods advertised in the JOURNAL and made of raw materials now in short supply, are not necessarily available for export.

DIARY FOR JULY AUGUST AND SEPTEMBER

Titles of exhibitions, lectures and papers are printed in italics. In the case of papers and lectures the authors' names come first. Sponsors are represented by their initials as given in the glossary of abbreviations on the front cover.

CARDIFF. Timber House Exhibition.
At David Morgan Ltd., The Hayes,
Cardiff. The exhibition will be opened by
Percy Thomas, President of the RIBA.
(TDA Bristol Channel and South Wales
area.)
Aug. 13-25

COLCHESTER. Country Life and the Castle Museum. (Sponsor, BIAE.)

JULY 19-21

LONDON. Royal Academy of Arts. One Hundred and Seventy-Seventh Summer Exhibition. July 19 to Aug. 12

Newer Heat Exhibition. At the Building Centre, Conduit Street, W.1. In view of the interest shown in the new fires and cookers at the exhibition the Coal Utilization Joint Council has arranged for the exhibition, which was due to close on June 30 to be continued until July 28. Open from 10 a.m. to 5.30 p.m. daily, Saturdays until 1 p.m. (Sponsor, BCUJC.)

July 19-28

News of the World Housing Exhibition. At Selfridges, Oxford Street, W. 10 a.m. to 5 p.m. Saturdays, 10 a.m. to 12.30 p.m. (Sponsor, the News of the World.)

JULY 19-Aug. 11

Three films illustrating American building past and present, by courtesy of the USA Government: The Home Place; Valley of Tennessee; The City. At the Assembly Hall, Royal Empire Society, Craven Street Entrance, Strand, W.C.2. (Sponsor, IAAS, London branch). 6 p.m. Tickets from IAAS, 75, Eaton Place, S.W.1. 1917.

BINC Second Building Congress.* At Central Hall, Westminster, S.W.I. The general object of the congress will be to enable those in both official and private positions to meet and discuss the many problems facing the building group of professions and industries at the present time. 10 a.m. Opening of the congress by the Lord Archbishop of York. First Session: Discussion on the supply of labour and materials for post-war building. Speaker: Ernest Bevin, M.P., Minister of Labour, 1940-45. Discussion opened by: J. W. Stephenson (President of the National Federation of Building Trades Operatives

This Congress has been postponed until October 30 and 31. See News item on this page.

and Vice-Chairman, National Joint Council for the Building Industry), and Sir P. Malcolm Stewart, Bt. (President, National Council of BMP). 2.15 p.m. Second Session: Discussion on the position of the building industries and the local authorities in relation to post-war housing. Speaker: The Minister of Health (H. U. Willink, M.P.). Discussion opened by: E. B. Gillett (President, Chartered Surveyors' Institution). 10 a.m. Civic Welcome by the Mayor of Westminster (Councillor Douglas Wood, F.R.I.B.A.). Third Session: Discussion on the organization of the building industries and their future relationships with Government Departments. Speaker: The Minister of Works (Duncan Sandys, M.P.). Discussion opened by W. H. Forsdike (Senior Vice-President National Federation of Building Trades Employers and Chairman National Joint Council for the Building Industry). 2.15 p.m. Fourth Session: Discussion of the place of the building industries in the resuscitation of economic activity and in the maintenance of full employment thereafter, and on the need in this connection for a halanced building programme. Speaker: The Minister of Labour (R. A. Butler, M.P.). Discussion opened by Percy Thomas (President of the RIBA). 4.30 p.m. Summing up of congress by the President and Chairman of Congress Committee. Admission to the congress, open to all in any way interested in the activities of the building group of professions and industries, will be by ticket price I guinea, obtainable from the Building Industries National Council, 11, Weymouth Street, W.I. The fee will include Buffet Lunch, to be served each day between sessions in the Central Hall. (Sponsor, BINC.)

M IDDLESBROUGH. Exhibition of the Middlesbrough Survey and Plan. Directed by Max Lock, Consultant to the Middlesbrough Corporation. At the Town Hall. (Sponsor, Middlesbrough Reconstruction Committee.) 10 a.m. to 8 p.m. Sundays, 2 p.m. to 5 p.m.

JULY 19 to Aug. 3

OXFORD. Homes to Live In Exhibition. At Oxford WLA. (Sponsor, BIAE.) JULY 19-28

WEYMOUTH. Homes to Live In Exhibition. At Weymouth Technical College. (Sponsor, BIAE.)

JULY 19-21

NEWS

Thursday, No. 2634.			July 19, 1945 Vol. 102			
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Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis. The JOURNAL's starring system is designed to give this emphasis, but without prejudice to the unstarred items which are often no less important.

means spare a second for this, it will probably be worth it.

** means important news, for reasons which may or may not be obvious.

Any feature marked with more than two stars is very big building news indeed.

Mr. Thomas Sharp has been elected PRESIDENT OF THE TOWN PLANNING INSTITUTE. He has also been commissioned to prepare a redevelopment scheme for the city of Oxford.

Mr. R. G. Brocklehurst, F.R.I.B.A. is the new PRESI-DENT OF THE BERKS, BUCKS AND OXON ARCHI-TECTURAL ASSOCIATION. He succeeds Mr. J. T. Saunders, P.R.I.B.A.,

He succeeds Mr. J. T. Saunders, P.R.I.B.A., who has retired. The hon. secretary is Mr. Colin Cooper, A.R.I.B.A., who succeds Mr. W. J. Freeman, A.R.I.B.A., who has retired.

The Building Congress which was to have been held this month has been POST-PONED until October 30 and 31. The Building Industries National Council has decided upon this course as it felt that the maximum benefit of such a Congress

The Building Industries National Council has decided upon this course as it felt that the maximum benefit of such a Congress cannot be obtained under present conditions. Tickets already applied for will be available for the new dates.

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Molten Zinc applied by the Hot-dip Galvanizing process provides the greatest possible protective coating against rust.

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The process would have been in more general use years ago, but for certain technical difficulties which have been overcome by a new type of plant we have installed at our Wednesbury Works.

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From AN ARCHITECT'S Commonplace Book

WHY ARCHITECTS SHOULD LEARN TO FLY [From Cruises and Caravans by Ella Maillart (Travel Book Club)]. Tamerlane's wife was Bibi Khanum, his beautiful favourite, of Mongolian origin. During one of her husband's absences she decided to build the greatest mosque of Asia, and he dispatched to her the most skilled craftsmen among his prisoners. That was in 1400. Day after day the princess came to the site to see how the work was progressing, and so that she might continue her visits the Arabian architect, who was in love with her, invented every sort of delay. Impatient she asked at last: "What must be done to hasten the work?" "Grant me permission to kiss your cheek." She consented, but only when she heard that Timur was returning to Samarkand. Though at the last moment she interposed her hand, the kiss was so ardent that it burnt through to her cheek, leaving a dark mark that nothing would remove. Whereupon she ordered all her women to veil their faces. Timur returning, wondered what the cause might be. She said: "It was done so that our modesty might be preserved." But Timur learnt the truth, and ordered Bibi Khanum to be buried alive in the mausoleum already built for her. As for the Arab architect, he was pursued to the summit of a minaret, and there wings appeared upon his shoulders and he took flight towards the south.

Some of the chief ARCHITECTURAL AMENITIES OF POOLE ARE THREATENED warns Professor A. E. Richardson, Deputy Chairman of the Georgian Group. In a letter to The Times he writes: "It is to be hoped that in preparing schemes for reconstruction local authorities will not carelessly decree the destruction of good architecture. The proposal of the Hove Council to demolish the most distinguished buildings that Hove possesses—Brunswick Square and Terrace—has already been noticed in your columns. The proposal has roused such opposition that it seems probable that wiser counsels will prevail. A somewhat similar case which has recently come to the attention of the Georgian Group concerns a road-widening scheme at Poole. The Poole town council propose to prescribe what is called an improvement line on the quay. This line passes through the middle of the harbour office, an eighteenth-century building with a good classical façade, added in 1822. The still more valuable Georgian Customs house is also affected by the proposals, which, in effect, threaten some of the chief architectural amenities of Poole. Apart from the fact that the Harbour Commissioners continue to need the harbour office for the proper performance of their duties, it is surely a pity to make this sacrifice in order to widen a quay which is much better left as it is, and to bring traffic where it is not wanted." (See Frontispiece of this issue and photograph on this page.)

The Ecclesiastical Commissioners, upon whom rests under statute the responsibility of approving churches as fit to become parish churches, have appointed a CHURCH BUILDING ADVISORY PANEL to consider the special problems confronting them at the present time. The nature of these problems is well known. Not only have a large number of churches been destroyed by enemy action, but there has been a total cessation of church building since 1939. This means that church accommodation is urgently required at the very time that there is an acute shortage both of labour and materials. The situation has to be dealt

with practically and with due regard to pastoral as well as æsthetic considerations. Accordingly the panel has been asked to weigh these complementary aspects of the problem and to state the principles upon which a solution of present difficulties should in their judgment be based. The following have consented to serve as members of the panel:—Chancellor R. G. S. Bankes (chairman), the Right Rev. H. C. Montgomery Campbell, M.C., M.A., Bishop of Kensington, the Rev. Canon E. F. Edge Partington, M.C., M.A., the Rev. Noel Perry-Gore, M.A., and Messrs. W. H. Ansell, M.C., F.R.I.B.A. (vice-chairman), Romilly B. Craze, F.R.I.B.A., N. F. Cachemaille Day, F.R.I.B.A., F. C. Eeles, D.LITT., O.B.E., Edward Maufe, A.R.A., F.R.I.B.A., and Bernard A. Miller. F.R.I.B.A. The Commissioners have nominated Mr. E. H. Johnson to act as Secretary to the Panel. Any communications relative to the work of the panel should be addressed to him at No. 1, Millbank, Westminster, S.W.1. The panel's report, which will be entirely independent, should be of value not only to the Commissioners, but also to diocesan and parochial authorities, to whom the present position is causing no little anxiety.

On January 1 next year the revised syllabus of the RIBA SPECIAL FINAL EXAMINATION comes into operation

From that date, states the RIBA Board of Architectural Education, the Examination will be identical with the Final Examination with the exception of the Thesis, although the regulations and procedure in connection with the application for admission to the examination remain the same. Attention is drawn to the fact that the new syllabus differs from the present one, particularly in subject B (Construction), and instead of a combined paper of three and a half hours in General Construction and Theory of Structures, two separate Papers will be set in these subjects of three and a half hours and three hours respectively. Candidates who have been previously relegated in subject B of the present syllabus are asked specially to note that if they fail to qualify in this subject under the present syllabus by the end of 1945, they will be required to take the two separate papers referred to above should they present themselves at any later examination.



The Harbour Office at Poole, Dorset, which, together with the Georgian Customs House (see following page) is threatened by an "improvement" scheme. See news item with Professor Richardson's letter to The Times on this page.



It Must Be Saved

This famous Georgian building, the Customs House at Poole in Dorset, would be affected by a road-widening proposal by the town council. This was revealed in a recent letter to *The Times* by Professor A. E. Richardson, of the Georgian Group, reprinted on page 37. The so-called "improvement" line would not only destroy the Customs House, but would pass through the middle of the Harbour Office (illustrated on page 37), a delightful eighteenth-century building with an early nineteenth cen-

tury façade, which still does useful service for the Harbour Commissioners. "It is surely a pity," writes Professor Richardson, "to make this sacrifice in order to widen a quay which is much better left as it is, and to bring traffic where it is not wanted." We strongly endorse his views. Old monuments like the Customs House and Harbour Office of Poole cannot be replaced. In this age of asthetic chaos, we cannot afford to destroy so disrespectfully such heirlooms from a serener age of architecture.

In the London area a building trade APPRENTICES' SPORTS 'ASSOCIA-TION is to be formed.

At the instance of Major Leslie Shingleton, Chairman of the London Regional Joint Apprenticeship Committee, a London Building Trades Apprentices' Sports Association is to be formed, under the auspices of the London Master Builders' Association and the National Federation of Building Trades Operatives (London Regional Council). The

objects of the association are to encourage sports, games, and the welfare of building trade apprentices in the London area. It will be under the control of a Council of employers and operatives, which will promote and give financial support to local clubs in the areas, buy equipment and pay charges for playing fields, gymnasia and boats, and offer prizes and cups for competition. In the first place the sports and games to be encouraged are football, cricket, boxing, rowing, gymnastics, athletics. Other games will be included as circumstances require. Membership of the Association

will be open to all apprentices, whether indentured or not, in the building industry in the London area, and their employers. The aim is eventually, by the payment of a small weekly subscription from each apprentice and his employer, to make the association self-supporting. Meanwhile a fund is to be raised to establish the association, and Major Shingleton, as Chairman of the Committee appointed to set on foot the scheme, appeals to all builders and others interested in the London area to contribute. Major F. W. Stratton, of 16, Bruce Grove, Tottenham, N.17, is the honorary treasurer.

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A site at Tottenham is being used TO TRAIN OPERATIVES for the erection of the 30,000 prefabricated houses from USA. The Ministry of Works states that the erection at Tottenham of the first batch of lend-lease temporary houses to arrive from the United States is not being pushed forward at speed because if this were done the erection of the total consignment of 30,000 houses would be immeasurably delayed. At present only a few British building operatives recognize the parts of the houses, are familiar with their functions, and know how they should be assembled. The Weir Hall used as a training ground as was announced on June 14. There the operatives who receted the "pilot" house which arrived in April, are training successive teams both to recognize the parts and to erect the bouses in the most efficient way.

The Ministry of Health has issued a LIST OF ARCHITECTS, ENGINEERS AND SURVEYORS AVAILABLE TO ASSIST LOCAL AUTHORITIES in connection with housing in all areas of England except the London Civil Defence Region. These lists, which have been sent to all housing authorities concerned, have been submitted by the professional Associations and Institutes and contain the names of firms and persons who are able to render professional assistance in the carrying out usurveys and preparation of plans for the development of temporary and permanent housing sites and the supervision of work of construction and erection.

Academician Victor Vesnin in a letter to the President of the RIBA: I am MUCH HONOURED BY THE AWARD OF THE ROYAL GOLD MEDAL.

п

The letter reads: Moscow, April 22, 1945. Dear Mr. Thomas, I am much honoured to receive notice of the award to me of the Royal Gold Medal, 1945, for Architecture. May I ask you to accept and convey to the Council of the RIBA my appreciation of the great honour thus accorded me. If affords me particular pleasure to find my name included in the glorious roll of Medallists now, at a time when the people of my country and Great Britain are waging a heroic struggle shoulder to shoulder against a common enemy. In this struggle difficult and honourable responsibilities have been laid upon the shoulders of architects. We have to give new houses to millions of people who have been deprived of hearth and home by barbaric Hitlerism. We have to build new towns, create new forms of contemporary architecture which will satisfy the great demands of the age. In this vast and complex task collaboration between the architects of the USSR and Great Britain acquires particular significance. I am convinced that this collaboration will bear fruit in the near future, and I regard the great honour accorded me by the RIBA as a symbol of collaboration between our two countries. May I then take advantage of this occasion to transmit to all members of the RIBA and all British architects heartfelt and friendly wishes for the success of their great creative work. With very best wishes, my dear President, sincerely yours. (Signed) victor vesnin.

NEW JOINTS FOR OLD

THE design of joints is the central problem of building construction. Any fool can specify a surfacing material or a structural member to stand up to the required conditions, but the junction with the adjoining material or member requires the expert. That is why we usually promote Carpenters and Joiners to be Builder's Foremen, rather than the other craftsmen. The Joiner is an expert in joints: within the limitations of woodwork he has knowledge of the whole range—the overlap, as in weatherboarding; all types of framed joint, with or without adhesives or dowels; the contraction joint, as in panelling or tongued-and-grooved work; and, since the introduction of the bull-dog and splitning connectors that has made timber a new engineering material, the bolted compression joint.

The predominance of the joint in woodwork is so great that the size of timber required to make the joint determines the whole piece (witness the coster's cart in which, for lightness, the material is chamfered away between the joints—or, indeed, the aeroplane spar). A revolution in joinery is at hand, now that the new timber connectors, mentioned above, and the plastic adhesives, are making joints in timber without losing half the cross-sectional strength in the making of them. The new adhesives are also converting joinery into a building up, instead of a cutting away process: small pieces that used to go to waste are built up into larger members, the glue being set in a few moments by electrical heat.

The timber connectors are a result of the wartime steel shortage in the USA, when carpentry (timber being plentiful there) was called upon to reproduce the girders and spans formerly made in steel. A similar interchange between the other building trades in their attitudes to joints might be equally instructive.

The bricklayer uses cement and sand for a joint. This does very well as a filler and bedding material between bricks for a structural joint, but in excluding rain it is unreliable—it does not always adhere to the bricks, but shrinks away. The earliest bricklayers, in Babylon, used to build in bitumen (Asphalt is a Babylonian word). This has adhesive power, and is sometimes used for tiled floor joints.

The plumber who makes his joints for keeping Company's water in, might give us a hint for keeping rainwater out. He uses a compression joint with a gasket. It is surprising that this type of joint is not more often used in dry construction between two large panels of impervious sheeting. Another plumbing joint that has possibilities is the rust-joint between cast-iron members.

In designing joints for dry construction much can be learned from roofing technique, where the dry method has been in use for centuries. The typical joint here is the overlap, not forgetting the anti-capillary groove or gap—as in the riser of a lead or copper drip, the corrugation of the lead wing in patent glazing, the camber of the plain tile. This groove, with a free way to drip at the bottom, we find in the detailing of the clip-in cover fillet used for prefabricated dry sidingfor example, in the AIROH house. This house, as might be expected, owes a few ideas to aeroplane construction; in particular, the pin joint between the main components is very reminiscent of the joint in the folding wing of the Firefly. Much profit can be gained by a study of aeroplane construction for the adaptation of details tested under extreme conditions, to the simpler problems of building construction. But there are other wartime developments that will have a profound effect upon building design. Perhaps the most important is the welded joint for structural metal (one does not merely think of steel nowadays). The necessities of naval and military construction have compelled the expansion of welding resources that had previously been retarded in favour of riveting. Welding is today actually offered in the steelconstructors' handbooks. This rigid joint completely alters our conception of steelwork, from the simplest shed upwards: it gives us good clean outlines that need not be ashamed to show themselves in the finished structure. Borrowing from ship construction we could have stressed-skin welded coverings that would also afford complete exclusion of the weather.



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N O T E S

TOPICS

FAREWELL TO ARMS

To the accompaniment of the inevitable facetiae from the man "with the wink in his voice," current news films have been showing pictures of scenes at service demobilization centres—the signing of forms, the discarded service boots, the parting handshake and half-stifled salute. I felt almost sorry for the new ex-service man as, nervously adjusting his trilby, he left the depot gates for civvy street. It was

no coincidence, I felt, that he had to ask the way of the sentry at the gate.

The problems and responsibilities he was walking into may well sit more heavily on his shoulders than his uncreased Burberry, Ration Books, Essential Work Order, Savings, Business Restrictions, Town Planning, Beveridge, Vocational Training, White Papers, Acts, Orders, Warrants.

A job? Somewhere to live? They may be fairly hard to find in such a tangle, and as our new recruit marches light-footed to the station he may well feel the need of wider and cleaner explanations of the civilian world he is entering than those which official lectures and pamphlets had time to give.

In According to Plan,* Mr. Ernest Watkins attempts to fill that need. Here is an objective approach to all the puzzling topics of the day—what the Government has done, says it will do, and what it should do. Ex-lawyer Watkins is a Major in ABCA and knows how to explain things simply and well, and years of contributing to Punch and the Economist ensure that he is neither pompous nor naïve. He is assisted by lively illustrations from David Langdon—creator of Billy

* Architectural Press, 58. 0d.

Brown and master of the downcast eyelid and the cynical service eyebrow.

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Presumably the field-marshal's baton is turned in to store with the knap-sack. Here is something to replace its familiar weight—though this time in the familiar hip-pocket. Here is a book which will put you in the picture—too late perhaps to help you ask a nasty question at an election meeting, but not too late to make you a better-informed citizen.

PR IN LOCAL GOVERNMENT

councils and the public.

interesting proposals on the question. The National Association of Local of a better understanding between local government and those that are governed. Summarized, their suggestion is that there should be a public relations organization within the local government machine, charged with the

Government Officers has made some

duty of providing a link between local

Their suggestion is, first, that there should be within each local authority machine an officer whose sole task it is to inform the inhabitants of the area on everything that the local authority is doing. He would us all the modern machinery available for that purpose, and in addition he would act as a conduit through which suggestions and complaints would flow back to the authority.

Coupled with this would be a National Public Relations Council which would act in a similar capacity on a higher level and could produce, or arrange for the production of, books, broadcasts, and films that are beyond the scope of the local authorities themselves.

Properly handled, nothing but good could come from such a plan. As planners invariably find out, once they have interested the public, their battle is half over. An interested and informed public is more often than not on the side of the angels. It certainly has no axe to grind.

SCOTTISH HOUSE DESIGNS

It is not often that I take my stand with those who extol the virtues of die-hardism, but when I see a honourable tradition of urban design

about to be thrown overboard, with nothing in particular to put in its place, it is time to protest.

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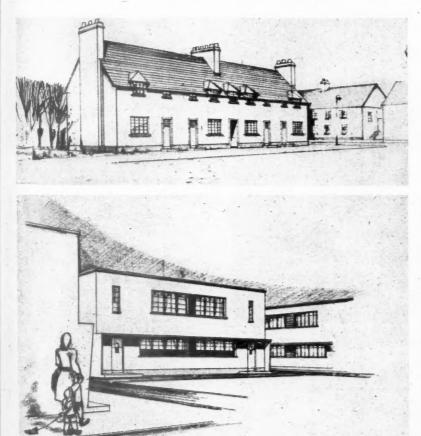
"Nothing in particular," sums up the "elevational treatment" (their phrase not mine) of the Approved House Designs Prepared for the Department of Health for Scotland by the Royal Incorporation of Architects in Scotland. It was a commendable idea to these drawings, with get out quantities by the Scottish CSI, for local authorities and their architects to adopt at a fee; and the plans are straightforward versions of the universal small-house type.

But the "elevational treatment," except for one or two designs that have a faint echo of the true Scotland, is poor. For example, it shouldn't need an architect to contrive the awkwardness of an eaves-gutter carried across casement windows. But

the greatest flop is the effort at going modern. Is there such an excess of sunshine in Scotland that they must horizontal low windows darkened by a heavy canopy, and so little rain that the top of the wall can be left almost unprotected?

There is some excuse for this sort of thing in England; but in Scotland every small town and village-even large parts of the great cities-still maintains its tradition of modest, graceful, efficient, dignified street architecture. Tall windows, to let the light in, of classic proportions and well placed, each with its architrave of stone or painted stucco; plain granite or roughcasted fronts; a roof line of gables or cornice, gently varied; sensible little canopies to the doors-how can the Royal Incorporation be so blind to the good things in their midst?

ASTRAGAL



Two perspectives from Approved House Designs, prepared for the Department of Health for Scotland by the Royal Incorporation of Architects in Scotland, on which Astragal comments this week. Top, two-storey, four terrace houses comprising three 4-apartment and one 5-apartment. Below, two-storey, semi-detached, 4-apartment design with flat roof.



LETTERS

A. C. Shepherd, Town Clerk, Borough of Mansfield

M. Hartland Thomas, Hon. Sec., MARS Group

Town and Country Planning

SIR,-I am directed to enclose herewith a letter under the signatures of the Chairmen, of the Town Planning Committees of Mansfield Borough and Mansfield Woodhouse Urban District, with the request that you will give publicity to the same through the medium of your correspondence column.

A. C. SHEPHERD, Town Clerk, Borough of Mansfield

The letter referred to is published below: SIR,—Much attention has been focused upon the Government's expressed inten-tions that not only our towns but our countryside shall be planned to avoid needless spoliation. Recently, however, our Councils have been given particular cause to wonder if such expressions are serious or are merely intended to conceal from the nation that where planning conflicts with industry, planning is promptly to be thrown overboard.

Mansfield

The facts of the case to which we refer are these:-

The facts of the case to which we refer are these:—

A colliery company applied for town planning approval to the creation of a new spoil bank, more than half a mile long, and with one end at 80 feet and the other at 150 feet above ground level. Though other colliery tips have been created within a few miles in the past years, the proposed site is one of considerable amenity, on relatively high ground, and partly within the area of my Council and partly within the area of a neighbouring authority. Our councils refused permission on the grounds that such a monstrous heap would spoil the skyline and the amenity of the adjacent countryside for ever, and the company appealed against this joint decision.

At the appeal, conducted, of course, by the Ministry of Town and Country Planning, our councils took considerable pains to make clear that they had no wish to re-

DESIGN PROGRESS IN DAMS





The obscurity which has surrounded much of the work of the Scottish Hydro-Electric Board has understandably raised fears in the minds of architects and planners that the great architectural and planning opportunities might not be fully realized. These fears were reinforced by the outspoken comments of Mr. Hugh Quigley, an acknowledged expert on the subject, in his article in the Journal on September 7, 1944. However, the outlook now appears brighter from the architectural standpoint, as the top illustration shows. It is a perspective by Mr. Frank Weemys of one of several preliminary designs for Constructional Scheme No. 2. It shows the commendable influence of TVA, and for those who would criticize it as too starkly engineering, the lower illustration is included of the dam on Lake Vrnwy, which supplies Liverpool with water. The latter makes all too plain the inadequacy of personal architecture conceived on such a scale in the immense impersonal setting of nature which always surrounds the source of water power. As TVA has so well shown, and as the Hydro-Electric board has evidently realized, the abstraction of engineering architecture, is in accord with the great natural forces which it is the purpose of the dam to harness.

strict the company's mining operations; strict the company's mining operations; instead, they wanted the company to spread the spoil on an adjacent valley, wholly below the skyline, and with top soil to follow, so that in course of time amenity could be restored to the area. Our council's technical officers gave evidence, accepted by the appellants, that such alternative means of disposal, including top-soiling, would not add more than 3d. to each ton of coal raised; and to reinforce this evidence, independent expert witnesses were engaged. raised; and to reinforce this evidence, in-dependent expert witnesses were engaged who testified similarly. As to whether suffi-cient amenity still existed to be worthy of preservation, both the Town and Country Planning Association and the Council for the Preservation of Rural England thought it worth while to send expert witnesses to plead for its preservation. Now let us quote the material portion of the Ministry's plead for its preservation. Now let us quote the material portion of the Ministry's

"The Minister agrees that the erection of a tip of the size proposed on the site in question cannot but be detrimental to the question cannot but be detrimental to the surrounding amenities. He is, however, not satisfied that any alternative site could be used for tipping without an appreciable extra cost per ton of coal or without in volving delay which might impede coal production. He feels that in present circumstances these results might be serious. cumstances these results might be serious. On the other hand, he is bound to take into account that the injury to amenity of such tipping must be judged in the light of the fact that extensive tipping has already taken place in the neighbourhood. He has, therefore, come to the conclusion that a tip heap on the site proposed must be allowed to the extent of granting permission for the use of the land as shown on the plan for the purpose of a tip or spoil heap for thirty years."

Is an extra 3d. per ton seriously to be deemed "an appreciable extra cost" when pithead prices advanced last month by 3s. 6d. per ton, and since 1939 by approximately £1 per ton?

Is the acquisition of bulldozers to spread Is the acquisition of bulldozers to spread the spoil in the valley seriously to be deemed "delay which might impede coal production" at a time when this country has more bulldozers on its hands than it can find work for; and if the matter is of such urgency, was it necessary for the Ministry, after hearing the Appeal on December 5th last, to wait six months and five days before giving its decision?

Is the Ministry serious when it save that

five days before giving its decision?

Is the Ministry serious when it says that he (the Minister) "... is bound to take into account that the injury to amenity of such tipping must be judged in the light of the fact that extensive tipping has already taken place in the neighbourhood." Surely, any serious judgment must be based on the amount of amenity remaining, not on the amount previously despoiled. Moreover, the other tips referred to are outside one council's area; therefore, that council has had no previous opportunity to resist has had no previous opportunity to resist this advancing wave of ugliness.

Chairman. Borough of Mansfield Town Planning Committee COLLIER

Chairman. Urban District of Mansfield Woodhouse Housing, Town Planning and Building Committee Mansfield,

New USA CIAM Group

SIR.—As you have published a letter suggesting that the MARS Group might be a suitable body to operate in a similar manner to the New York Chapter for Relief and Post-War Planning of CIAM, some of your readers might care to be reassured that the MARS Group reserve of the specifical. the MARS Group, as one of the constituent societies of CIAM, is already in touch with the New York Chapter, and is considering the matters referred to by your correspondent.

London

M. HARTLAND THOMAS
Hon. Sec. MARS Group

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PRICES

WARTIME TWENTY-FIRST

Rates of Wages rose on July 1, 1945, and are now as follows:-

LONDON DISTRICT			Craftsmen.	Labourers.
Within 12 miles radius	 	 	2s. 3½d.	1s. 10d.
From 12-15 ,, ,,	 	 	2s. 3d.	1s. 9^{3}_{4} d.

GRADE CLASSIFICATIONS

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Brick hardcore ...

Fine ditto

Coarse gravel for paths ..

Clean granite chippings . .

Concrete ditto
Clean furnace clinker and boiler ashes...

	A	A ¹	-A2	A^3	B	\mathbf{B}_1	\mathbf{B}^2
Craftsmen 2s.	2d.	2s. 1½d.	2s. 1d.	2s. 0½d.	2s. 0d.	1s. 11½d.	1s. 11d.
Labourers 1s	9d	1s 81d	1s 8d	1s 73d	1s. 71d.	1s. 7d.	1s. 61d.

CURRENT MARKET PRICES OF **MATERIALS**

BY DAVIS, BELFIELD AND EVEREST,

Chartered Quantity Surveyors.

Prices vary according to quality and the quantity ordered.

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

CONCRETOR Cementa

† All delivered in paper bags (20 to the ton) free.

			In 00 ton 6	mainhta
			In 80-ton f F.A.S. Safe	
		6 Tons		
			London	
*Portland			54/6	
*"417" Ultra rapid	per ton	31/-	34/0	
hardening	per ton	77/-		
*Kapid hardening	per ton	63/-	60/6	,
*Water repellent Atlas White (1 barrél 376 lb.)	per ton	87/-		
Atlas White (1 barrél 376 lb.)	Por con		ner h	arrel —
(2 000202 000 200)	,		6 ton up	
*Colorcrete rapid hardening,	buff and red	ner i		
Colorcrete rapid hardening	chaki	per	ton 97/-	
Colorcrete rapid hardening	lark	per	ton -	
Colorcrete non-rapid harden	ing p	er ton f	from 175/- to	399/-
Snowcrete	I	per	ton 225/-	
		1-9	10-19 1 ton	
*Ciment Fondu, delivered	Central			
London area	. per cwt.	15/3	14/9 per ton	254/-
	F		/- 1	/
Aggregate	and Sands (Full Lo	ads)	
2" Unscreened ballast			per yard cube	12/-
l'(Down) Washed, crushe	ed and g	raded	I J	/
shingle			per vard cube	12/9
shingle			per yard cube per yard cube	$\frac{12}{9}$ $\frac{13}{9}$
shingle			per yard cube per yard cube per yard cube	$\frac{12/9}{13/9}$ $\frac{14/6}{6}$
shingle " (Down) Ditto 2" Broken brick		• •	per yard cube per yard cube	$\frac{13}{9}$ $\frac{14}{6}$
shingle 1 (Down) Ditto 2 Broken brick 1 Ditto	• • • • • • • • • • • • • • • • • • • •	••	per yard cube per yard cube per yard cube	13/9 14/6 16/-
shingle ' (Down) Ditto		••	per yard cube per yard cube per yard cube per yard cube	$\frac{13}{9}$ $\frac{14}{6}$
shingle 1 (Down) Ditto 2 Broken brick 1 Ditto		• •	per yard cube per yard cube per yard cube per yard cube per yard cube	13/9 14/6 16/- 9/6

Pavings

.. - ..

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per yard cube

per yard cube per yard cube

per yard cube

per yard cube

per ton

7/6

3/6

39/2

CONCRETOR—(continued)

	Ditto	6" × 6" ×	5"		P	er ya	rd super	7/6	
	Buff ditto	$6'' \times 6'' \times 3''$	7"				rd super		
		6" × 6" ×	5."				rd super		
		ving bricks, 2"					er 1,000 2		
	Ditto	11/2"					r 1,000 2		
			Reinford	cemen	et			,	
	Home tra	de maximum b	asis pr	rice f	for mild	stee	l rods,		
	₽" dia	meter and upwa	rds, ex	mills	deliver	ed to	station		
	or sid					pe	er ton £16	19	6
	Extras for :-	_				_			
	Under h" t	o 7 diameter			0 0		per ton	10/-	
	Ditto 7 8	and over 3" diam	eter				per ton	15/-	
	and ove	r 11 diameter					per ton	20/-	
	11 and ov	er &" diameter					per ton	25/-	
		er 📲 diameter		0.0			per ton	30/-	
	and ove	er 1"					per ton	35/-	
	1" diamete	er			* *		per ton	40/-	
	Under 1"	0 3"					per ton	60/-	
	Lengths o	ver 40 ft. to 45:	ft.				per ton	10/-	
	99	" 45 ft. to 50	ft.				per ton	15/-	
	99	" 50 ft. (as 50	ft. plus	per	ft.)		per ton	1/6	
			Sund	ries					
	Retarding lie	quid, in 5-gallon	drums		7	$\mathbf{E}\mathbf{x}$	War	ehouse	,
	0	(for exposing as)	1	Sou	thwark	Bridge	
-			er gallo		3/- >	Dru	ms cha	rgeabl	θ
	Ditto	(for obtaining a l			'	and	credit	ed, i	f
	,		er gallo	n 1	4/41	retu	rned.		
			_						
	DELCITE	ATTEN							

Pavings-continued Red quarry tiles, $6'' \times 6'' \times \frac{7}{8}''$ per yard super 8/6

BRICKLAY	ER							
			Comme	on Bric	ks			
†Rough stocks							per 1,000	-
†Third stocks							per 1,000	
†Mild stocks							per 1,000	
Sand limes								
Phorpres press	ed Fle	ttons					per 1,000	62/3
Phorpres keye	d Flett	ons					per 1,000	64/3
Blue Staffordsh	ire wir	ecuts					per 1,000	309/-
†Lingfield engin	eering	wirec	ats (ex	works)			per 1,000	98/-
Firebricks, best							per 1,000	425/-
Firebricks, best							per 1,000	542/6
	F	acing	and En	gineerin	ng Brie	:ks		
Sand Limes, No							per 1,000	
Sand Limes, No	. 2						per 1,000	
†Phorpres rusti	c Flett	ons					per 1,000	
At King's C add 10/- per 1	ross (Lane)	Stn.	For de	eliver	y in W.C	. district

BRICKLAYER—(continued)

Midhurst Whites					per	1,000	
†Hard stocks, firsts	0 0		0.0		per	1,000	-
†Hard stocks, seconds					per	1,000	-
Sand-faced, hand-made re	eds						206/-
Sand-faced, machine-made							-
Red rubbers (93-in.)					per	1,000	-
Uxbridge Flints (white)				per	1,000	from	96/-
Uxbridge Flints (creams,	light	greys,	etc.)	per			
1,000						from	130/-
†Dunbriks (concrete), grey	78 or Co	mmons			per	1,000	67/-
†Dunbriks (concrete), vari	ious col	ours			per	1,000	_
†Southwater engineering	No. 1	(first q	nality	red			
pressed)					per	1,000	158/-
†Southwater engineering I	No. 2 (s	second o	ualit	y red			
pressed)					per	1,000	138/-
Blue pressed					per	1,000	337/3

Limes and Sand

1-ton lots 6-ton lots on 67/- — on 67/- —

			1	ton lots	6-ton lots
Lime, greystone		per	ton	67/-	-
Lime, chalk		per	ton	67/-	
Lime, blue Lias (including pay				-	
Lime, hydrated (including pape		per	ton	73/-	
Washed pit sand				yard cub	
(For cements, see "Concrete					,
Hire of jute sacks charged at		eredit	ed at	1/6. If le	eft charged
at 1/9.					
	Sundries				
Wall ties, self coloured				per cwt.	-
Wall ties, galvanized				per cwt.	_
D.P.C. slates, size 18" × 9"				per 100	
D.P.C. slates, size 14" × 9"				per 100	
D.P.C. slates, size $14'' \times 41''$				per 100	
‡Ledkore D.P.C. Grade A			per	foot super	81d.
Ledkore D.P.C. Grade B			per	foot super	10 d.
Ledkore D.P.C. Grade C			per	foot super	1/-
‡ Trade discount 5 per cent include delivery on minimum			scour	t 5 per ce	nt. Prices
Airbricks: 9" × 3"	$9'' \times 6''$	9" ;	× 9"	$12''\times9''$	$14'' \times 9''$
Red and buff terra	9/1	4.1	7		19/7
cotta each 1/- Black cast iron, School 9"×3	" O" V B	" 4·	" V 0"	19" > 6"	12/1
	9 × 0	9	7.8	12 X 0	12 × 9
Board pattern airbricks					
per dox -			innered.		

Board pattern airbricks					
per doz. —		-	_	-	
Galvanized ditto per doz	-	-		-	
Black hit and miss cast iron ventilators					
per doz. —		-	*********		
Galvanized ditto per doz. —	-	-	-	-	
Buff terra cotta chimney 1' 0'	" 1' 6"	2' 0"	2' 6"	3' 6"	5' 0"
pots each $3\overline{/11}$ Fireclay per ton $75/$ Wall reinforcement supplied	- '	-1	-/	20/6 - g 25 ys	35/- ords lin.
*2" wide black japanned] *2" wide galvanized *2\frac{1}{2}" wide black japanned *2\frac{1}{2}" wide galvanized	per roll - per roll 3	/5 /- }	2½" pri on ord	ce carri ers of £	pro rata age paid 5. Dis- antities
	Partitions,	etc.			

		2"	21"	3"	4"
Clinker per yard	super	2/11	3/4	3/10	4/10
	super	5/1	6/1	-	-
Hollow Block per yard	super	2/10	3/1	3/8	4/2
Plaster per yard	super	5/2	5/10	7/1	8/4
	per	yard	super from	4/2 to	4/10
	per	yard	super from	6/7 to	7/61
†3" Wood-wool Slabs	per	yard	super from	8/6 to	9/81
† Prices according to	quantity	ordere	d. 2½% Ca	sh Disc	ount.

	Ge	is Flue	Blo	cks			
					Single Flues.	Dou	
Straight blocks			. е	each	1/4	2/	5
Backing block		. per	set	of 3	3/3	5/	8
Cover blocks		-		ach	1/8	3/	6
Raking blocks 45°			. е	ach	3/2	4	11
Raking blocks 60°			. е	each	2/2	3	
Offset blocks			. 6	each	3/10	5	4
Closer blocks			. 6	each	1/4		5
Closer flashing blocks			. 6	each	1/1		10
Straight flashing bloc	ks .		. 6	ach	1/1		/10
Terminal and cap			. per	set	7/3	12	
Middle terminal and	cap .			set	6/9	11	
End terminal and ca			. per		7/-	12	
Cant -1' 11 - 1-				each	5/4	10	
Gathering block			. 6	each	-		/7

DRAINLAYER

	Land	Drain	a Pipe	es			
Di / 100 1			3 6	00		3"	
Pipes in 12" le (De	engths livered in ful	l load	er 1,00 ls Cen	tral	T7/6 London	110/- 1 Area.)	47/6 285/-
	Salt Glazed S	tonewe	are Pi	рез а	and Fitt		9"
Pipe (2' length	as)			each	1/8	2/6	4/6
Pipe (2' length Bends, ordinar Single Junction Yard Gulley,	у			each	2/6	3/9	6/9
Single Junction	n, 2' long			each	3/4	5/-	9/-
Yard Gulley,	without gratin	ıg		each.	6/3	$6/10\frac{1}{2}$	11/3
Ordinary rour painted Ordinary rour	d or square	Grat	ing,	each	$-/7\frac{1}{2}$	1/3	2/6
Ordinary rour	d or square	Grat	mg,	onoh	1/01	9/1	4/41
galvanized Extra for Inle	ts. horizontal	,	• •	each	1/6	1/6	1/6
Extra for Inle	ts, vertical			each	2/3	2/3	2/3
Intercepting	Trap with	Stan	tord				
Stopper				each	17/6	22/6	37/6
Grease and mi	id interceptor	with	bucke	et for	remov	ing	I- 00/
grating, pai	nted	and	12° d	rams,	with i	ron >eac	n 20/-
grating, pai Ditto, with ir The above	on grating ga	lvaniz	red			each	21/101
The above different quali	prices to be v ties given. A	aried Il sub	by the	he follow $2\frac{1}{2}$	per cer	percenta nt. cash	ages for the discount.
						dard	British Standard Tested
Orders for 2	tons and over	r			Plus	15%	Plus 40%
Orders for 2 Orders under Orders under	2 tons, 100 pi	eces u	pware	ls	Plus	321%	Plus 571%
Orders under	2 tons, less th	an 10	0 piec	es	Plus	421%	Plus 671%
					Dan	A	Canan J.
Orders for 2	tons and ove	r]	Plus 71	% Sub	ject to 15%
Orders under	2 tons, 100 pie	ces u	pward	8]	Plus 25	% off	the price of
Orders for 2 Orders under Orders under	z tons, less the	in 100	piece	8 I	flus 35°	% bes	st quality for sizes.
						an	Sizes.
0.1.	Cast Iro		un Pi	pes a	na Fitt	ings	
	pigot Pipes :-		0.0-		0.0-	4.04-	0.0-
Weight (per 9 ft.)	Size				6 fts.	oach	
1.1.8	4" per yard 4" per yard 6" per yard 9" per yard		8/7		9/7	15/4	11/7
1 . 1 . 17	4" per yard		8/11		9/11	15/4 15/8 25/5	12/-
2.0.1	6" per yard		13/3		15/9	25/5	20/3
3 . 3 . 21	9" per yard						
			2 fts.		18 ins.	12 ins	. 9 ins.
1 . 1 . 8	4" each	0.0	9/7		8/11	7/6	6/9
2 0 1	4" each	* *	$\frac{9/10}{15/3}$,			-
3 . 3 . 21	4" each 6" each 9" each		10/0			_	
	Allowances :						
	ers up to 2 t		ett.				\
Ord	ers 2 to 4 to	ns les	8 21%				
	ers 4 tons or				4.00	-	0.0
Renda (ahar	radius		00	oh	4"	17/6	9"
Single innet	radius)	۰	. 68	ch ch	8/5	30/4	53/11 93/- 165/9
Intercepting	traps nary trapped det 4" ey trap		· ea	ch	40/5	67/	5 165/9
Gulleys ordi	nary trapped	"P"	ea	ch	19/61		_
Extra for in	let 4"		. ea	ch	10/1	_	-
Grease Gulle	y trap	-12	. ea	ch	155/8	_	-
ALLES O. TV.	migo socker	Rance	Dy UL	ah			
	" gulley top and one back				35/4	63/-	
8	220 000				30/2	00/	
	Chann	els in	Brow	m Glo	azed We	are 4"	6" 9"
Half round	straight chann	els 24	" long	5	eac	eh 1/3	1/101 3/41
Half round	straight chann				eac		4/21
Ditto, short		11				ch 1/3	1/101 -
Ditto, short	ordinary chan				ea	$\frac{1}{10}$ ch $\frac{1}{10}$	2/93 5/01
Ditto, short						ch 3/9	5/71 10/1
	er round bran					ch 5/-	7/6 -
77.10	taper channels				ea	6"×	4" 9"×6"

DRAIN

Cast iron approxi
Galvaniz
fronts (
† These

MASO

Template
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There to

3" × 3" 6" × 6" 9" × 3' 9" × 6' 12" × 3' 12" × 6' Cornices

SLAT

24" × 1 10" × 1 Pr

Hand-1 Machin Berksh

8" corr Standa

Slates

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B Hocks sc.

The above prices are subject to the same discounts as those given for "Best" quality salt glazed stoneware pipes.

				Manhol	e Covers	s, etc.		Black (Falvanized
124"	× 18"	single	seal	for foot	traffic.	(W	eight	,	Di Coli i i i i i
*				l)				19/3	30/-
‡24"				for lig				,	
				n lots o				49/7	88/2
‡24"				ck pat		For	road		(0.
	traffi	e. (W	eight.	3 cwta.)			each	Coat	ed 79/3

600

yards

1/11 1/9 7/6

1/21

-/10

 $2/6\frac{1}{2}$

 $\frac{1/4\frac{3}{4}}{-/11\frac{1}{4}}$ $\frac{2}{7}$

per yard run

DRAINLAYER-(continued) WALLBOARDS, Etc.—(continued) Manhole Covers, etc.—(continued) Asbestos-Cement and Asbestos Products-(continued) Fine Cast Galv. ½" Asbestos Insulating Board per foot super 25-75 150-300 6 yards yards 31/- $\frac{2/3}{2/1}$ Yorkstone Building quality Robin Hood and Woodkirk Blue Stone. Nocks scrappled, random sizes ... per foot cube 4dd for blocks to dimension sizes ... per foot cube 84d. Slaters or sarking felt. per yard run -/10Roofing felt (1-ply bitumen) . . . per yard sup. 1/11Bituminous hair felt per roll 58/-81d. (each dimension) Emplates with sawn beds, edges rough (up to 4 ft. super and not over 2' 6" long) per foot cube implates with sawn beds, sawn one edge, per foot cube implates with sawn beds, sawn two edges, per foot cube rices f.o.r. Yorkshire, railway rate to London Station per ton. (Minimum 4-ton loads.) All rolls 25 yards long by 32" wide. 8/43 $9/9\frac{1}{2}$ 29/1Artificial Stone For the state of the state of the points $1'' \times 12$ gauge per cwt. 1Cornices according to detail, per foot cube (from) 10/9 STEEL AND IRONWORKER SLATER, TILER AND ROOFER Steelwork Basis price for rolled steel joists sections $5'' \times 3''$ to $16'' \times 6''$, in 10 ft. to 50 ft. lengths ex mills Best Bangor Slates per ton 15 10 6 PLASTERER per 1,000 Plaster and Cement Machine-made sandfaced $10\frac{1}{2}$ " \times $6\frac{1}{2}$ " red roofing tiles per 1,000 per 1,000 loads Sirapite (coarse) .. per ton 91/6 Victorite No. 1 (White) ... No. 2 (Buff) ... per ton 99/6 Asbestos-cement per ton 6" corrugated sheets, grey ... per yard super 3/5 Sandard 3" corrugated sheets, grey ... per yard super 3/1 per ton Thistle (browning) ... 91/6 per yard super 3/11 per ton Slates (Manufacture temporarily suspended) :-91/6 94/6138/-* Large russet brown ... * Prices are for minimum two-ton loads, and are subject to 5% trade discount wards per ton from 149/- to 182/6 WALLBOARDS, Etc. Sundries per yard cube 14/6 $2/0\frac{3}{4}$ $-/4\frac{5}{8}$ $-/5\frac{3}{8}$ $-/5\frac{15}{8}$ per cwt. 70/-per cwt. 100/-per sheet Laminated Wallboard 1 Thickness (standard): 1 bundle up to 2,500 sq. ft. . . . per foot super 2,500 sq. ft. to 5,000 sq. ft. . . . per foot super 5000 sq. ft. and over per foot super Asbestos-cement and Asbestos Products 4" Semi-compressed flat building sheets, grey · Wall Tiles per yard super $1/6\frac{1}{2}$ Ditto per yard super 1/7 1/7 Ditto per yard super 1/7 Prices are for orders of two tons and over and are subject to 5% trade The following prices are subject to 75 per cent. addition: per yard super per yard run discount. 1" Asbestos wallboard (in sheets 8' $0'' \times 4' \ 0''$), per yard run # Ditto ... per foot super per foot super -/5 # Asbestos wood (in sheets 8' 0" × 4' 0") Prices are for orders of 2 tons and over. The following asbestos prices are for work. per yard run per yard super 14/3 per yard run The following asbestos prices are for minimum 1-ton lots and are subject per yard run to 10 per cent. trade discount:— \$\frac{8}{0}\text{ or } \text{ and } \frac{4'}{0''} \text{ or } \text{ or } \text{ or } \text{ on } \text{ sheets} \text{ (in sheets} \text{ 8'} \text{ or } \text{ or } \text{ and } \frac{4'}{0''} \text{ or } \text{ or } \text{ or } \text{ per yard super} \text{ 8/8} \text{ Marble glazed sheets (in sheets 8' \text{ or } \text{ or per yard run per yard super 15/-per yard run 1/71 per yard run 1/72 per yard run 1/01

suspended) per yard super -

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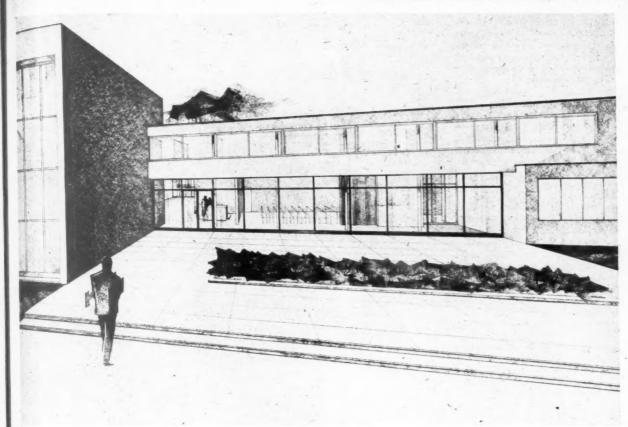
88/2

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PLUMBER Lead	INTERNAL PLUMBER—(continued)
31 lb. and upwards milled sheet lead in quantities	Screwed and Socketed Steel Tubes and Fittings for Gas, Water and
of 5 cwts. to 1 ton in sheets per cwt. 42/6	Steam, etc.—(continued)
Lead ternary alloy, No. 2 quality extra over sheet lead per cwt. 7/-	Flanges each 1/- 1/2 1/4 1/9 2/- 2/9 Caps each -/5 -/6 -/8 1/- 1/3 2/-
Allowance for old lead delivered to merchant or manufacturer per cwt. 23/9	Plugs each -4 -5 -6 -8 -10 $1/3$
Cast Iron Goods	Fittings and flanges and tubes ordered in long random lengths an subject to the following trade discounts:—
Percentage Adjustment.	Tubes Fittings Flange:
on List No. 3100 A.B. 1/2/40	"Light Weight" $50\frac{1}{4}\%$ $40\frac{1}{4}\%$ 25% "Heavy Weight" $42\frac{3}{4}\%$ $32\frac{3}{4}\%$ $9\frac{3}{4}\%$
Rainwater Goods (painted or unpainted) Plus 29%	11,0
Soil goods (coated or uncoated) Plus 29%	COPPERSMITH AND ZINC WORKER
Mild Steel Rainwater Goods	Copper
The following prices for Pipes and Fittings are subject to $42\frac{1}{2}$ per cent. addition, and Gutters are subject to 35 per cent. addition.	Hot rolled copper sheeting in 1 cwt. lots, all
24 gauge rainwater slip jointed pipes. 2" 2\frac{1}{2}" 3 3\frac{1}{2}" 4"	gauges to 24 wire gauge (3 cwt. lots and over) per lb. 1/11
Galvanized round pipes with	Basic for light gauge copper tube, solid drawn per lb. 1/1 Basic for copper tube, solid drawn screwing sizes per lb. 1/1
ears per 6' 0" $2/7\frac{1}{2}$ $3/1\frac{1}{2}$ $3/9$ $4/3$ $4/9$ Painted round pipes with ears	Copper wire, 10 and 12 gauge per lb. 1/1 Copper nails, 1" and up
per 6' 0" $2/4\frac{1}{2}$ $2/9$ $3/1\frac{1}{2}$ $3/7\frac{1}{2}$ $4/-$	Copper nails, I" and up per lb. 1/3
Painted or galvanized short lengths with ears, extra each -/6 -/6 -/6 -/6 -/6	GLAZIER
18 Gauge gutters. 3" 3\frac{1}{2}" 4" 4\frac{1}{2}" 5" 6"	
Galvanized half round gutters per 6' 0" 2/- 2/3 2/4 $\frac{1}{2}$ 2/9 3/- 3/7 $\frac{1}{2}$	Sheet Glass cut to size (ordinary glazing quality) 18 oz. clear sheet per foot super 3 d
Painted half round gut-	24 oz. ditto or "R" quality ,, ,, 5d.
ters per 6' 0" 1/6 1/9 2/- 2/3 2/6 3/- Painted or galvanized	26 oz, ditto
short lengths extra	f" figured rolled and cathedral glass (white) ,, ,, 61d.
each -/3 -/3 -/3 -/3 -/3 -/3	¶" ditto, approved tints, ", ", 9½d.
Asbestos-Cement Rainwater Goods The following prices are subject to 12½ per cent, trade discount.	British Polished Plate Glass cut to size
Orders over £30 are subject to 17½ per cent, trade discount.	Ordinary ‡" Substance Glazing for Selected
Rainwater Pipes.	Glazing Glazing Silvering
Prices are for 6' 0" lengths, 10' 0" lengths available in 2\frac{1}{2}", 3", 3\frac{1}{2}" and 4" diameters. Short lengths up to 2' 0" are charged as 1 yard.	2 ft. super per foot super 2/2 2/4 2/10
From 2' 0" to 4' 0" charged as 11 yards. From 4' 0" to 6' 0"	3 ,, per foot super 2/6 2/10 3/6 5 ,, per foot super 2/9 3/3 4/-
charged as 2 yards. Over 6' 0" charged as 10' 0", Round pipes	*45 ,, per foot super 3/3 3/8 5/-
2" per yard run 2/31	*100 ,, per foot super 4/1 5/1 6/6 *Plates exceeding 100 ft. super or 160 in, long or 100 in, wide a
2½" per yard run 2/6¾ 3" per yard run 3/1	higher prices.
3½" per yard run 3/7½	Special quotations should be obtained for other qualities and thicks substances.
4 per yard run 4/21 41"	Wired Glass Cut to Sizes
5 per yard run 7/13	1" Wired cast per ft. super 91d
6" per yard run 8/101	$\frac{1}{4}$ Georgian wired cast per ft. super 10d. $\frac{1}{4}$ Polished Georgian wired glass per ft. super 3/2
Short lengths of gutter up to 2' 0" charged as 1 yard; from 2' 0"	‡ For cutting to allow for wires in adjacent pieces to be "lined up," add 4d. per foot super.
to 4' 0" as 1½ yards, and over 4' 0" as 2 yards.	Supplied in sizes up to 110 in. long and up to 36 in. wide.
Half round gutters 3" 4" $4\frac{1}{2}$ " 5" 6" 8" per yard run $1/7\frac{1}{2}$ $1/11\frac{1}{4}$ $2/-\frac{1}{2}$ $2/4\frac{1}{4}$ $3/3\frac{3}{4}$ $4/1$	
Ogee gutters per yard run $ 2/4\frac{1}{2}$ $2/6\frac{3}{4}$ $3/1$ $3/9$ $4/10\frac{1}{2}$	PAINTER
INTERNAL PLUMBER	Snowcem paint per cwt. 56/-
Lead pipe in coils, 5 cwts. and upwards per cwt. 44/-	White ceiling distemper per cwt. 22/-
Lead soil pipe per ewt, 46/-	Washable distemper per cwt. from 48/- to 66- Ready mixed white lead paint (best), semi-
Lead ternary alloy, No. 2 quality extra over lead pipe	gloss, per 28 lb
Plumber's solder	White enamel per gallon
Tinman's solder per cwt, 168/6	White enamel paint
Drawn lead traps with brass screw eye, 6 lb. $1'' \qquad 1\frac{1}{4}'' \qquad 1\frac{1}{2}'' \qquad 2''$	1 ton lots, 1 cwt. kegs) per cwt. 70/7!
S. trap each $2/5$ $2/9$ $3/5$ $4/11$ P. trap each $2/1$ $2/3$ $2/9$ $3/5$ $4/11$ Extra for 3" deep seal "S" trap each $-/6$ $-/7$ $-/8$ $1/-$	Liquid driers per gallon 22/- Linseed oil raw (5-gallon drums) per gallon 7/10
Extra for 3" deep seal "S" trap each -/6 -/7 -/8 1/-	boiled (5-gallon drums) per gallon 8/-
Extra for 3" deep seal "P" trap each -1 -5 -5 -7	French polish
Screwed and Socketed Steel Tubes and Fittings for Gas, Water and Steam, etc.	Oil stain (scumble) per lb. 3/-
Tubes.	,, middle Brunswick green per cwt. 90/-
Tubes 2 ft. long and over $\frac{1}{2}''$ $\frac{3}{4}''$ $1''$ $1\frac{1}{4}''$ $1\frac{1}{2}''$ $2''$ per ft. $-/5\frac{1}{4}$ $-/6\frac{1}{4}$ $-/9\frac{1}{4}$ $1/1$ $1/4\frac{1}{4}$ $1/10$. dark umber per cwt. 103/-
Pieces 12" to 23½" long	Varnish (outside quality) oak per gallon 22/-
Bends each $1/1$ $1/5$ $1/11$ $2/8$ $3/4$ $4/9$ $1/7\frac{1}{8}$ $1/7\frac$	", ", ", copal per gallon 24/- ", ", flatting per gallon 26/- Turpentine, genuine American 5-gallon lots per gallon —
Fittings.	Turpentine, genuine American 5-gallon lots per gallon
Elbows, square each 1/1 1/3 1/6 2/2 2/7 4/3 Elbows, round each 1/2 1/5 1/8 2/4 2/10 4/8	Creosote, 1-gallon lots
Tees each 1/3 1/7 1/10 2/6 3/1 5/1	Linseed Oil Putty per cwt. 28/3
Sockets, plain each -/4 -/5 -/6 -/8 -/101 1/3	Utility Glazing Putty per cwt. Size
Sockets, diminished each -/6 -/7 -/9 1/- 1/4 2/-	Best quality English gold leaf, 23 carat per book 3/8
	Extra thick, ditto per book 4/5

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PROJECT FOR AN ARCHITECTURAL C E N T R E

D E S 1 G N E D B Y
A. LAW R E N C E K O C H E R
AND HOWARD DEARSTYNE



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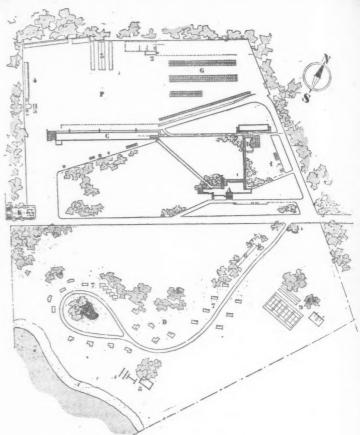
Top, entrance to the Administrative and Design Building, the focus of the Centre. Above, the main trafting room on the ground floor of the Administrative Building.

GENERAL—The purpose of this project for an Architectural Centre in the USA is to provide the ideal organization, facilities and plant necessary to co-ordinate building research, planning, design, and construction.

In the words of its designers: "The Architectural Centre proposes to investigate the psychological, social, economic and technical aspects of building. It will undertake to find sound basic solutions to the diverse problems

confronting architecture and building. It will work toward a better adjustment of the material framework of living to human physical and spiritual needs. To accomplish these ends, it proposes the establishment of an organization uniting research with planning and design; design with experimental construction; and experiment with the trial-by-use of model buildings. The Centre proposes to draw upon and contribute to the work of research

It wil institutions elsewhere. co-operate closely with industry in working out new fabrication processes, finding new uses for materials and developing new types of construction. It will engage architects, engineers, plan-ners and others to work at its plant and offer its assistance to professional men in private practice. It will encourage schools of architecture and engineering to re-orient their teaching and to exchange ideas and information with the Centre. It will seek to obtain public support for its programme by guiding people to an understanding of its ideals and principles. The Centre proposes the continuous close association of architect and engineer in order that structural and mechanical considerations may enter integrally into the work of design from the outset. It will offer to architectural and engineering firms its facilities and advice in working out many problems in their practice which they are ill-equipped to handle. The Centre will have a significance to building similar to that which a medical centre has to medicine. It will be an institution for the investigation and study of the human, social, economic and technical aspects of building, for the working out of sound and basic solutions to the diverse and complex problems confronting planning and architecture, and for the actual execution of construction projects."



Plans

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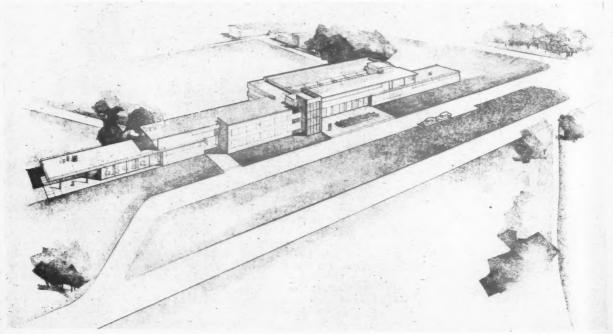
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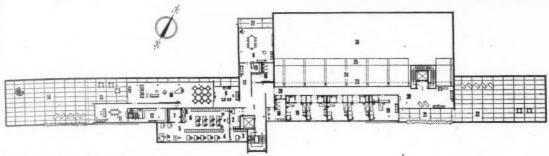
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LAYOUT PLAN

Above, layout; A, the Administration and Design Building; B, the Human Environment Laboratories; C, the Shops and Assembly Building; D, the Experimental Settlement; F, yard for plant and materials. Below a bird's-eye view of the Administration and Design Building.

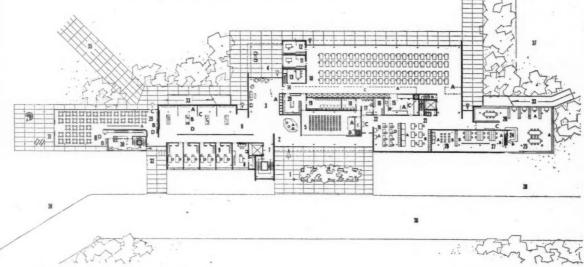


AN ARCHITECTURAL CENTRE

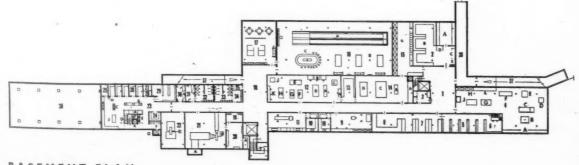


FIRST FLOOR PLAN

Plans of the Administration and Design Building. Centre, ground floor: 2, entrance lobby; 3, waiting room; 4, covered porch; 5, lecture hall; 6, exhibition hall; 8-9, administrative offices; 10, main drafting room; 11, 12, offices for head draftsman and chief engineer; 13, conference room; 14, special drafting room in mezzanine; 15, plan desk; 25, library; 26, periodicals reading room; 27, microfilm reading room; 28, film projection room; 29, cafeteria. Above, first floor: 1, landing; 2-7, business administration; 8, conference hall for visiting representatives of industry; 10, entertainment hall; 11, private dining room; 19, special work studios with sleeping and bathroom facilities. Bottom, basement floor: 1, lobby; 2, general storage and shipping room; 4, model and display shop; 7, building materials library; 8, storage for models; 9, photographic studio; 10, dark rooms; 11, photograving room; 12, pressroom and bindery; 14, blue-print room; 15, fireproof plan store; 16-17, recreation rooms equipped with bowling alleys, billiard tables, etc.; 21, air-conditioning plant; 30, first-aid room; 31-34, toilet and locker rooms.

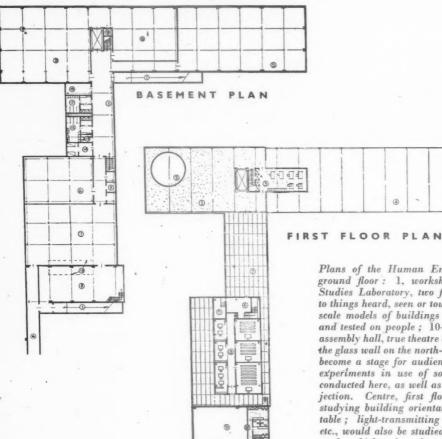


GROUND FLOOR PLAN



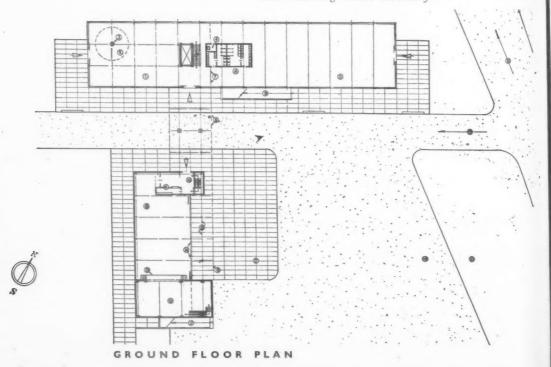
BASEMENT PLAN

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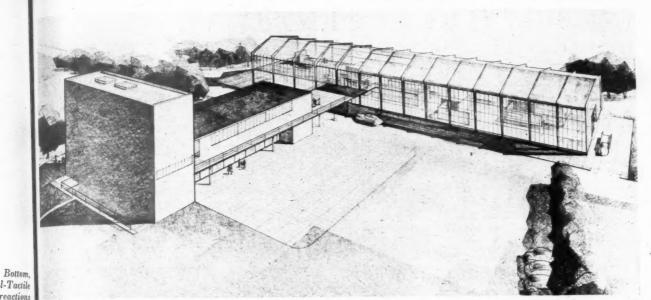


Plans of the Human Environment Laboratories. ground floor: 1, workshop; 5, the Aural-Visual-Tactile Studies Laboratory, two floors high, where human reactions to things heard, seen or touched will be studied and where fullscale models of buildings or parts of buildings will be built and tested on people; 10-16, experimental theatre, acting as assembly hall, true theatre or acoustical laboratory; by raising the glass wall on the north-east side, the indoor auditorium can become a stage for audiences seated outdoors on the terrace; experiments in use of sound, radio, and television can be conducted here, as well as cinema and still photographic projection. Centre, first floor: 1, the Solar Laboratory for studying building orientation, assisted by, 2, a Solar Turntable; light-transmitting materials, means of light control, etc., would also be studied here; 8, series of classrooms and study cubicles where theoretical training in architecture will be given. Top, basement floor: 6-7, the Climate Laboratory, containing a temperature room, where effects of changes of air temperature, humidity, etc., can be studied, and a Heating and Ventilating Studies Laboratory.

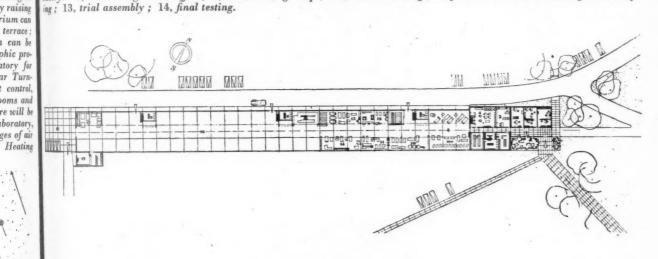
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AN ARCHITECTURAL CENTRE



Above, a view of the Human Environment Laboratories. Below, view and plan of the Shops and Assembly Building, where new developments are put through experimental manufacturing processes; it serves as a link between creative design and industry. 4, Plant engineer's office; 8, woodworking shop; 10, metal working; 11, fabrication; 12, die casting and stamping; 13, trial assembly; 14, final testing.



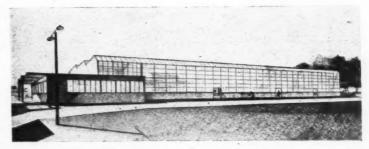
The Centre would also act as a school for engineering, architecture, planning, factory practice, construction superintendence and other professions concerned with building.

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THE BUILDINGS — The elements comprise an Administrative and Design Building, which is the focus of the Centre; Human Environment Laboratories, for technical, psychological and aesthetic experimentation and testing; the Laboratories would be used for the scientific study of human reactions to colour, form, sound, spatial relationships and proportions, and to the effects of heat, cold, moisture-content, movement



of air, sunlight, artificial light all in order to determine the most favourable environmental conditions; Shops and Assembly Building, for test-manufacturing, and the building of prototypes for mass-production; a Yard for building plant and materials; an Experimental Settlement, where prototype prefabricated houses are tested under actual living conditions.

INFORMATION CENTRE

The function of this feature is to supply an index and a digest of all current developments in planning and building technique throughout the world as recorded in technical publications, and statements of every kind whether official, private or commercial. Items are written by specialists of the highest authority who are not on the permanent staff of the Journal and views expressed are disinterested and objective. The Editors welcome information on all developments from any source, including manufacturers and contractors.

STRUCTURE

USA Building Organization

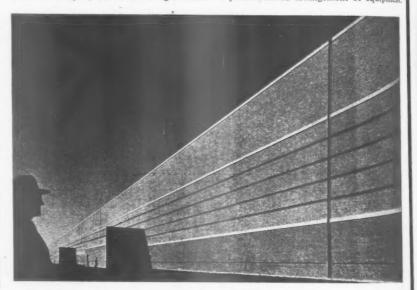
2034 BUILDING IN ONE PACKAGE. (Architectural Forum, January and February, 1945, pp. 93-112, 113-128.) Study of a modern building organization. Structure. Walls and roofs. Lighting. Heating and ventilating. Power and steam plants. Oklahoma City plant. Plant layout. Administrative buildings. Food and process plants. Employee facilities. Materials handling. Special purpose buildings. Aviation facilities. In its forty years of engineering and construction work for a wide range of industries the Austin Company of Cleveland, Ohio, have planned and executed some 6,800 industrial and commercial building projects, over 6,000 of them under complete service contracts, embracing design, engineering and construction. Apart from their national headquarters, Austins have eight district organizations throughout the US, Alaska and Canada. Each district has its own staff of designers; structural, mechanical, electrical and process engineers; estimators; purchasing agents and super-Food and process plants. Employee estimators; purchasing agents and supervisory construction force. The flexibility of the organization enables jobs to be handled in ways most efficient for their type and special problems. For this reason Austins' solution of typical problems of industrial construction are of interest, not only as examples of executed work, but as only as examples of executed work, but as evidence of what such an organization can accomplish. To give an example: In the case of a large studio on the West Coast, built for a firm with headquarters in New York, the basic architectural design was developed by the research department in Cleveland, with the New York office acting as liaison with the owners at the early phases.

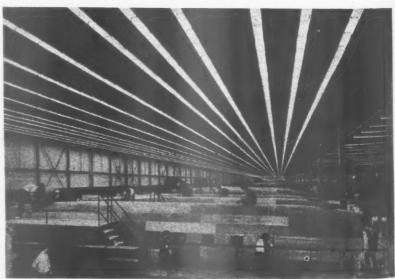
All of the structural, mechanical drawings were developed by the Austin district electrical and mechanical drawings were developed by the Austin district organizations on the West Coast, where the owner was represented by the members of his own engineering staff, who were constantly available for consultation.

The benefits for research to be reaped from such an organization are obvious, and indeed in all fields of the building and indeed in all fields of the building and engineering sciences great progress has been made possible by Austins' resources. To give a few examples in the field of structure: The recognition of the speed and economy to be gained through standardization of structural parts led Austins to the design and construction of its first plant employing standard trusses as long ago as 1915. Improvement of early riveted truss designs was followed in 1925 by experiments, which proved that welded trusses, entirely without gusset plates, could be made considerably lighter than riveted trusses designed for the same loading, and would be stiffer and easier to handle (see also Inf. Centre No. 1896, A.I., April 26, 1945, New Design of Welded Trusses). In 1929 Austins

erected a four-storey all-welded commercial building at its own expense by way of further experimentation in the technique of structural welding. Having reached the conclusion that welding would make rigid frame buildings commercially feasible, in 1936 the company announced a rigid frame sawtooth design entirely without web members. The application of rigid frame and arch principles was carried over into concrete and timber structures.

In building seaplane bases for the Navy, precast beams and slabs have been used to eliminate costly cofferdam construction where extreme tidal ranges are encountered and Austin designs for prestressed concrete tanks have become a standard for the storage of gasoline and fuel oils at Naval Fuel Supply Depots. In the field of light-ing, heating and ventilation, too, the pioner spirit of Austins' engineers has led to a number of important innovations. But some of the most interesting aspects of Austins' work are found in the field of special purpose facilities (which range from college research laboratories to huge mili-tary establishments) and in their approach tary establishments) and in their approach to plant layout problems. The design of the complex organization which makes up modern industry has become more and more a matter of creative layout, less and less one of simply providing housing for a predetermined arrangement of equipment





One of the jobs built by Austins, the large USA building organization. It is the Oklahoma City Plant designed for the US Army Corps of Engineers and operated by the Douglas Aircraft Co. The external walls are of local brick, chest-high open joints and a rowlock course below the limestone coping ventilate the wall, prevent condensation and keep the 4-in. blanket of mineral wool insulation permanently dry. Inside the factory air conditions are controlled. Lighting is by 20 miles of fluorescent tube. See No. 2034.



OLD WINDMILL AT TOTTENHILL, On the King's Lynn to Downham Road

THE old mill still makes a brave show of swinging into the wind, but its sails do not move because the most vital parts have broken down. Many a building presents an outward appearance that belies its inward state, for the thin brick walls of modern times are easily penetrated by driving rain, and in many older walls the damp-proof

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field of nge from the pproach esign of akes up ore and less and sing for uipment.

4-in.

courses are delective, or entirely lacking. These are defects, which, fortunately, are permanently remedied at little expense, and no disfigurement, by rendering the inside surfaces with sand and Portland cement made completely impervious by the addition of 'PUDLO' Brand Cement water-proofing powder.

'PUDLO

CEMENT WATERPROOFER

Used with Portland Cement in renderings or concrete to exclude or retain water.

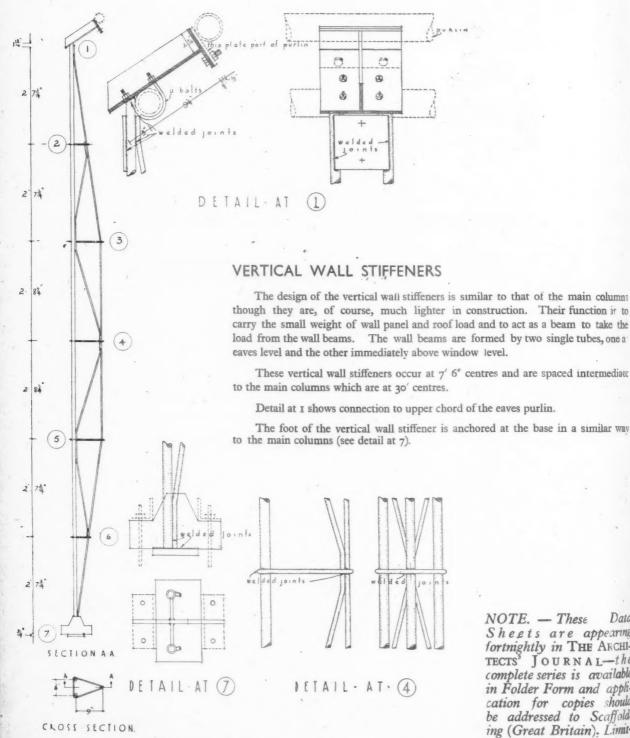
KERNER-GREENWOOD & COMPANY, LIMITED ANN'S PLACE, KING'S LYNN

Sole Proprietors and Manufacturers

The word 'PUDLO' is the Registered Trade Brand of Kerner-Greenwood & Co. Ltd., by whom all articles bearing that Brand are manufactured or guaranteea

WELDED TUBULAR CONSTRUCTION PATENT

Data Sheet No. 23



DETAIL OF VERTICAL . WALL . STIFFENER.

NOTE. — These Sheets are appearing fortnightly in THE ARCHI-JOURNAL-the complete series is available in Folder Form and apphcation for copies should be addressed to Scaffold ing (Great Britain). Limited, Saunderton, Prince Risborough, Bucks.

ADVERTISER'S ANNOUNCEDENT

Austin with diagra in its human consid manne proces layout co-ord econo Austin chang

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Austins approach every layout problem with a three-dimensional analysis in an effort to arrive at a fundamental flow diagram in which the problem is presented in its simplest form. Thus, in the design of office building, the functional flow of human beings to work areas is given first consideration; in most bulk process industries careful consideration must be given to the layout of piping and flow lines in a manner which will ensure efficient use of process steam and the economical disposal of waste; in mass production industries layout becomes a design for the effective co-ordination of production, machinery, handling devices and manpower, in whatever way promises to be the most economical for transformation of raw materials or assembly parts into finished products, etc. Plan layouts designed by Austins have almost always resulted in changes in the basic organization of production methods so closely is design work. changes in the basic organization of production methods, so closely is design work keyed to plant operations.

LIGHTING

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Daylight Requirements

THE NATURAL LIGHTING OF HOUSES AND FLATS, WITH GRADED DAYLIGHT FACTOR TABLES. T. Smith and E. D. (Published by H.M. Stationery Office, price 4d.). Elementary daylight requirements in dwellings. Important new method of daylight design by means of standard tables of window performance,

tables of window performance.

In a lecture for the RIBA Architectural Science Board, P. V. Burnett described several methods of day-lighting analysis and design, among which he referred to a new development by the Natural Physical Laboratory, in the form of standard tables of window performance. These tables have now been published, and form the major part of the present document.

In essence the tables give the performance of a window in three terms, first, the pene-

of a window in three terms, first, the pene-tration of a given daylight factor value; second, the spread of that value either side second, the spread of that value either side of the window; and third, the area it covers on the working plane of the room. Differing degrees of obstruction are allowed for, and all window sizes are included between 2 ft. 6 in. x 3 ft. 0 in. and 6 ft. 0 in. x 8 ft. 0 in. Also, the values are given for three daylight factors, 2 per cent., 1 per cent., and 0.5 per cent.

cent.

In the introductory note the method of using the tables is clearly described, and as a basis for design, reference is made to suitable standards of lighting for bedrooms, living rooms and kitchens in dwellings. These are based on the recommendations of the Committee on the Lighting of Buildings, whose report is one of the Post-War Studies series now being published by the Ministry of Works. Ministry of Works.

These tables represent an historic advance in natural lighting technique. At one stroke they carry us from the position where daylighting design could not have been contemplated, except for major buildings such as schools and factories, to a point where it can become a commonplace. So important to a subject is a simple method of analysis. In effect the choice of a window size to give a certain minimum of daylight appears now no more difficult than choosing a beam size from a standard catalogue of steel joists. These tables represent an historic advance steel joists.

It is an equally important advance that standards of daylight are also laid down in this document.

Architects and students may be recom-mended to secure this document as a signi-ficant item of current literature.

QUESTIONS

and Answers

THE Information Centre answers any question about architecture, building, or the professions and trades within the building industry. It does so free of charge, and its help is available to any member of the industry. Answers are sent direct to enquirers as soon as they have been prepared. The service is confidential, and in no case is the identity of an enquirer disclosed to a third party. Questions should be sent to: THE ARCHITECTS' JOURNAL, 45, The Avenue, Cheam, Surrey.

2036 Foamed Slag Concrete

I understand that reinforcement can be used with foamed slag concrete as with more normal concrete. In designing beams and other members in reinforced foamed slag concrete, what value should be taken for the compressive stress in the concrete and for the modular ratio between the steel and the concrete? I assume that the steel will take the normal 18,000 lbs./sq. ins. in tension. Are there any special factors to be taken into account when designing reinforced structures in this material?

A It is possible to use foamed slag concrete with reinforcement, if the mix is sufficiently dense to protect the steel against corrosion, or the reinforcement is embedded in grout. The fine aggregate should be replaced partly or fully by river sand. There are many possible mixes, and we suggest that you should get in touch with Messrs. Holland & Hannen and Cubitts, 1, Queen Anne's Gate, S.W.1, who are specialists in this work. this work.

Temporary Houses

My Council is contemptating the elec-tion of temporary houses for the hous-ing of agricultural workers. I am asked to produce information of various types of My Council is contemplating the erectemporary houses.

(1) Can you give me the names and addresses of, say, 6 firms who produce or are contemplating producing such houses, presumably prefabricated, for sale to Local Authorities?

(2) Do you know of any reason why a Local Authority should not erect such houses providing the sanction of the Ministry of Health is obtained? I refer to such statements that the houses could not be built or purchased unless a site or sites were previously prepared, sewers provided and with water mains, electric lights. I would prefer to give the Council a photograph of each house plan, also materials used and the approximate cost.

A We understand that the normal procedure, as regards temporary or prefabricated houses, is briefly as follows:—
The Ministry of Works investigates schemes submitted, and if favourably impressed, after receiving reports from their technical officers, receiving reports from their technical officers, working in conjunction with BRS, a prototype is built. The prototype is again subjected to exhaustive examination, and if satisfactory, a small order is placed by the Ministry. If satisfactory, a larger order to test both production and the costs under bulk production, may be placed. Again, if they are satisfactory, a still larger order may be placed.

placed.

As licensing restrictions prevent houses either being manufactured or built without the consent of the Ministry, they are under the full control of the Ministry of Works, who will allocate them to the districts needing them most—bearing in mind questions of transport etc. of transport, etc.

This being so, it is useless to contact indi-vidual manufacturers and we should advise you to write to the Ministry of Works.



Speeches and lectures delivered before societies, as well as reports of their activities, are dealt with under this which includes trade associations, Government departments, Parliament and professional societies. To economize space the bodies concerned are represented by their initials, but a glossary of abbreviations will be found on the front Except where inverted commas are used, the reports are summaries, and not verbatim.

RIBA

New Council

The following is a full list of the COUNCIL OF THE RIBA for the session 1945-46:-

Session 1945-46:—

President: Percy E. Thomas, O.B.E., HON.LL.D., J.P. (Cardiff). Past-Presidents: W. H. Ansell, M.C., H. S. Goodhart-Rendel. Vice-Presidents: J. Murray Easton; T. Cecil Howitt, D.S.O. (Nottingham); L. H. Keay, O.S.I., M.ARCH.(LVPL.) (Liverpool), A. Leonard Roberts (Winchester) (Chairman of the RIBA Allied Societies' Conference). Hon. Secretary: Michael Waterhouse, M.C., B.A. (OXON). Hon. Treasurer: John L. Denman, J.P. (Brighton). Members of Council: Professor Sir Patrick Abercrombie, M.A.(LVPL.); Victor Bain (Leeds); P. J. Bartlett (Nottingham); A. C. Bunch (Warwick); J. Murray Easton (Vice-President); J. H. Forshaw, M.C., M.A., B.ARCH.(LVPL.); Frederick Gibberd; T. Cecil Howitt, D.S.O. (Nottingham) (Vice-President); L. H. Keay, O.B.E., M.ARCH.(LVPL.) (Liverpool) (Vice-President); Arthur W. Kenyon; J. Nelson Meredith (Bristol); Professor Sir Charles H. Reilly, O.B.E., HON. LLD.(LVPL.), M.A. (CANTAB.); Howard M. Robertson, M.C., S.A.D.G.; Herbert J. Rowse; C. G. Stillman (Chichester); John Swarbrick; J. Hubert Worthington, O.B.E., M.A.(ARCH.), (Manchester); F. R. S. Yorke. Associate Members of Council: Joseph S. Allen, B.ARCH. (Leeds); Henry Braddock; D. E. E. Gibson, M.A., B.A.HONS.(ARCH.) (Coventry); Professor W. G. Holford, B.ARCH.(LVPL.); R. D. Man-(Leeds); Henry Braddock; D. E. E. Gibson, M.A., B.A.HONS.(ARCH.) (Coventry); Professor W. G. Holford, B.ARCH.(LVPL.); R. D. Manning (Exeter); Colin Penn; Andrew Rankine, o.B.E. (Hull); Ralph S. Tubbs; E. Berry Webber. Licentiate Members of Council: Bernard H. Cox; Charles Oliver (Hull); C. Bertram Parkes (Birmingham).

Representatives of Allied Societies in the United Kingdom or Eire.—(i) Six Representatives from the Northern Province of England: Stanley Milburn, M.B.E., M.C., T.D. (Northern Architectural Association); J. S. Recurrent (Northern Architectural Association); J. S. Beaumont, M.C., B.A.(ARCH.), Manchester (Manchester Society of Architects); T. M. Alexander, F.S.I. (Liverpool Architectural Society); W. E. Biscomb (York and East Yorkshire Architectural Society); R. A. Easdale (West Yorkshire Society of Architects); Stephen Welsh, M.A., B.ARCH.(LVPL.) (Sheffield, South Yorkshire and District Society of Architects and Surveyors). (ii) Five (Sheffield, South Yorkshire and District Society of Architects and Surveyors). (ii) Five Representatives from the Midland Province of England: Cyril F. Martin, M.C., of England: Cyril F. Martin, M.C., M.A.(CANTAB.) (Birmingham and Five Coun-ties Architectural Association); Frank H. ties Architectural Association); Frank H. Jones (Leicester and Leicestershire Society of Architects); W. R. Steel (Northamptonshire, Bedfordshire and Huntingdonshire Association of Architects); F. A. Broadhead (Nottingham, Derby and Lincoln Architectural Society); E. J. Symcox (East Anglian Society of Architects). (iii) Six Representatives from the Southern Province of England: Philip Tilden (Devon and Cornwall Architectural Society); J. Ralph Edwards, R.W.A., F.S.A. (Wessex Society of Architects); J. T. Saunders (Berks, Bucks and Oxon Architectural Association); A. E. Oxon Architectural Association); A. E. Geens (Hampshire and Isle of Wight Architectural Association); A. E. Wiseman (Essex, Cambridge and Hertfordshire (Essex, Cambridge and Hertfordshire Society of Architects); Harold Anderson (South-Eastern Society of Architects). (iv) Four Representatives of Allied Societies in Scotland, nominated by the Council of the Royal Incorporation of Architects in Scotland: A. Graham Henderson, A.R.S.A. (Glasgow); J. R. McKay, A.R.S.A. (Edinburgh); A. G. R. Mackenzie (Aberdeen); A. N. Malcolm (Stirling). (v) One Representative of Allied Societies in Wales, nominated by the Council of the South Wales Institute of Architects: Johnson Blackett (Caerleon). (vi) Two Representatives of Allied Societies in Ireland: Vincent Kelly (Royal Institute of the Architects of Ireland): F. McArdle (Royal Society of Ulster Architects). Representatives of Allied Societies in the

British Dominions Overseas. nominated by the Council of each of the following: The Royal Architectural Institute of Canada: Royal Architectural Institute of Callada, Gordon McL. Pitts; (representative in the United Kingdom, L. Sylvester Sullivan), Royal Australian Institute of Architects: Professor Alfred S. Hook, A.R.C.A.; (representative in the United Kingdom W. H. rofessor Alfred S. Hook, A.R.C.A.; (representative in the United Kingdom, W. H. Ansell, M.C.). New Zealand Institute of Architects: H. L. Massey; (representative in the United Kingdom, J. Murray Easton). The Institute of South African Architects: Representatives to be nominated. The Indian Institute of Architects: Representatives to be nominated.

tives to be nominated.

Representative of the Architectural Association: Graham R. Dawbarn, M.A. (CANTAB.).

(Woking). Representative of the Association of Building Technicians: Andrew C. H. Boyd. Chairman of the Board of Architectural Education: Basil M. Sullivan, C.I.E., O.B.E. Chairman of the RIBA Registration Committee: Darcy Braddell.

Chairman of the RIBA Official Architects' Committee: To be appointed.

Representative of the RIBA Salar

Members' Committee: To be appointed.

RIBA

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Below is published the new SCALE OF ANNUAL SALARIES FOR ARCHITECTS with notes approved by the RIBA Council on June 19, 1945. The previous scale of 1937 has been with-Salaries are on a pre-war

basis, and except for Junior Architectural Assistants are for Registered Architects only.

PART I Scale Applicable to the Staffs of Govern-ment, Local Government, Commercial and Industrial Undertakings.

Executive Staff (except Assistant Architect Grade II undertaking duties of Managing Assistant).

In some organizations it would be necessary in addition to have district offices in charge of either an architect or an assistant architect, grade I, depending upon the responsibilities of the office.

In small offices where the assistant architects would normally work directly under the architect, the numbers in grades I and II would depend upon the volume of the work and on the special responsibilities of In this size of office it the architect.

	Position	Salary	See Note		
(a)	Architect or Chief Architect	£1,000-£3,500	8		
(a) (b)	Deputy Architect or Deputy Chief Architect	Chief 75 per cent. of salary of Architect or Chief Architect			
(c)	Assistant Chief Architect	£1,500-£1,800	. 9		
(c) (d)	Superintending Architects (1) and (2) depending upon number of branches supervised.	(1) £1,200-£1,300			
(e)	Branch Architects	£900-£1,150	. 11		
(f)		£650-£850	12		
(e) (f) (g)	Assistant Architects. Grade II Non-Executive Staff		100		
(h)	Assistant Architects. Grade III	£250-£550	. 13		
(i)	Assistant Architects. Grade IV		13		
(h) (i) (j)	Junior Architectural Assistants (Unregistered)		1 11		

1. The scale indicates appropriate salaries on a PRE-WAR (March, 1939), AND NOT A POST-WAR BASIS.

salaries should be increased by

amounts to cover:—
(a) The changed value of money in comparison with that in the pre-war period, and this may sometimes necessitate and this may sometimes
(b) cost of living bonus.

Employing bodies may elect to have either inclusive salaries at higher than pre-war levels and reflecting the changed value of money or they may follow the precedent adopted after the 1914-1918 war and fix basic post-war salaries higher than pre-war but subject to a fluctuating cost of living bonus until approximate stabilization is reached. Generally the salaries of architects and assistant architects should not be less than those of the other main profes-sions employed by the same body.

2. The scale is intended to apply to the immediate post-war period and will be reviewed from time to time until approximate stabilization is reached.

3. In all cases the salaries in Part I are gross, inclusive of amounts deducted for pensions, superannuation, etc.

4. The scale (h), (i) and (j) is based on normal London conditions and normal working hours, and may vary slightly with the locality where such variations can be justified.

5. The scale should apply irrespective of sex provided the duties, responsibilities and services rendered are identical.

6. Salaries in Part I are subject to annual

increments, within the various grades, and in grades III and IV the initial salary should take into consideration ability and experience.

7. Organization of offices varies greatly depending upon the character of the work. In medium sized and large offices where the work consists mainly in the design of buildings and the supervision of their construction, it would normally be necessary to divide the work at headquarters between a number of branch architects under the general control of the higher staff. A branch would normally consist of the branch architect, an assistant architect, grade I, two or sometimes three assistant architects grade II, and a total of from ten to twenty assistant architects, i.e., grade III registered assistants, unregistered assistants and junior assistants, the numbers depending upon the character of the work and whether it was geographically concentrated or scattered throughout the country.

would sometimes be necessary for one or more of the assistants to be paid at rather higher rates than assistant architects I and II for carrying greater responsibilities than would normally be undertaken by assistant architects grades I and II with a branch architect or for carrying out the duties of

The salaries of architects or chief archiand of deputy architects or deputy chief architects when employed, cannot be governed by the volume of work for which they are responsible as in many cases they are called upon to undertake work addi-tional to that which an architect in private would have to undertake normal fees. An official architect is often called upon to advise his authority on work not to be carried out in his department; moreover, his duties may include regulatory control of building and town planning. Architects or chief architects should, as a general rule, hold positions of equality with other chief officers employed by the same authority. In cases of small authorities where circumstances would not justify £1,000 per annum, a salary of not less than £800 should be considered a minimum in order that the status of the appointment can be maintained. Employing bodies, in-cluding public and municipal authorities, are invited to consult the RIBA regarding the computation of salaries falling within this range according to the nature of the appointment, the type of work and responsibilities involved. Members of the Institute are invited to consult the RIBA in connection with advertised to the consult of the control of the consult of the consul connection with advertised posts for architects and chief architects and deputies to ascertain whether the salaries offered have received the approval of the RIBA.

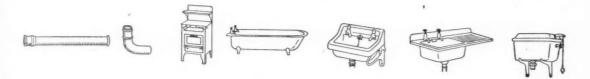
9. In the largest offices (such as those where at least four superintending architects are employed) it will sometimes be necessary to have in addition to the chief architect and his deputy one or more archi-tects of higher rank than superintending architects, e.g., assistant chief architect, at salaries between £1,500 and £1,800 per annum depending upon the responsibility involved.

10. Superintending architects will usually be necessary to co-ordinate the work of branch architects when there are several branches or when the duties of the chief architect are such that he is unable to give such personal supervision as will ade quately co-ordinate the work.

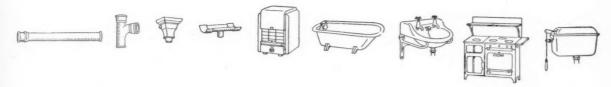
Superintending architects on the higher salary indicated, in addition to carrying out certain work directly, should normally be

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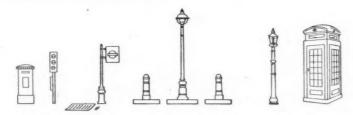
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to give ill 'adehigher ying out nally be able to supervise the work of three or four branches.

11. In large offices it will usually be advisable to regard the architects' branch as the working unit. It is necessary to have branch architects of sufficient professional experience that subject to general direction and co-ordination from the chief architect and higher staff they can assume full responsibility for the design and execution of the work of a branch as outlined under note 7.

12. Assistant architects grades I and II normally function in an executive capacity under the branch architect or directly under the chief architect in the same way as the partners in a private firm, except that one of the grade II assistant architects would undertake duties similar to those of the managing assistant to a large firm of private architects. Grade I would be either the senior of the assistants in a single unit organization or in a branch at headquarters, or the assistant architect, e.g., district architect, in charge of a small office geographically situated in a district where work is being carried out away from the main

In small offices it would often be unneces-In small offices it would often be unnecessary to employ a special grade of managing assistant as, when the responsibility is less that it would be with a branch architect, such duties could be undertaken by the senior assistant architect grade IV.

13. The salary scale indicated for grade III is appropriate for those in medium sized and large offices who function similarly to assistants other than the managing assistant assistants of the final me malaging assistant in a private firm. In small offices circumstances would often prohibit a maximum salary of £550 per annum, and in such cases a maximum of £500 per annum as indicated in grade IV would be considered reasonable.

14. It is considered that assistants who pass or are exempted from the Intermediate Examination of the RIBA, might reasonably be placed within the scale (j) the figure of £120 being the minimum salary for a student of about 19 years of age who has reached that standard from the schools but has had no office experience. Such an assistant should obtain relatively large in-crements so that the maximum of the scale should normally be reached in three or four years. For assistants of a similar age four years. For assistants of a similar age who have been trained in offices and who pass, or have been exempted from the IIRA termediate Examination of the RIBA have equivalent qualifications, a minimum salary of £150 would be appropriate.

Scale Applicable to the Staffs of Architects

in Private Practice.
Salaries appropriate to assistants to architects in private practice cannot be assessed in a precise scale to the same degree as is possible in the offices of Government, local government, commercial and industrial undertakings. The staff in a private architect's office and their individual responsibilities fluctuate to a much greater extent and it is not usual to have pension and superannuation schemes.

While this is so the salaries and conditions of service of registered architects employed in a non-executive capacity by architects in private practice and the salaries of junior architectural assistants should conform broadly to the salaries indicated at (h), (i), (j). For staffs carrying out duties of greater responsibility than assistant architect grade

salaries commensurate with the responsibility involved should be paid.

RIBA

Examinations

The following are the dates of the FORTHCOMING RIBA EXAMINATIONS.

Intermediate Examination: November 9, 10, 12, 13 and 15, 1945. (Last day for receiving applications: September 29, 1945) May 24, 25, 27, 28 and 30, 1946. (Last day for receiving applications: March 27, 1946.) November 8, 9, 11, 12 and 14, 1946. (Last day for receiving applications: Sentember 1946) May for receiving applications: Sentember 1946. day for receiving applications: September 1946.)

23, 1946.)
Final Examination: December 5, 6, 7, 8, 10, 11 and 13, 1945. (Last day for receiving applications: October 27, 1945.) July 3, 4, 5, 6, 8, 9 and 11, 1946. (Last day for receiving applications: May 23, 1946.) December 4, 5, 6, 7, 9, 10 and 12, 1946. (Last day for receiving applications:

December 4, 5, 6, 7, 9, 10 and 12, 1946. (Last day for receiving applications: October 23, 1946.)

Special Final Examination: December 5, 6, 7, 8, 10, 11 and 12, 1945. (Last day for receiving applications: October 27, 1945.) July 3, 4, 5, 6, 8, 9 and 11, 1946. (Last day for receiving applications: May 23, 1946.) December 4, 5, 6, 7, 9, 10 and 12, 1946. (Last day for receiving applications: October 23, 1946.)

Examination of Licentiates to qualify for candidature as Fellows: December 5, 6, 7, 8 and 10, 1945. (Last day for receiving applications: October 13, 1945.) July 3, 4, 5, 6 and 8, 1946. (Last day for receiving applications: May 10, 1946.) December 4, 5, 6, 7 and 9, 1946. (Last day for receiving applications: October 10, 1946.)

Examination for Building Surveyors: May 1, 2 and 3, 1946. (Last day for receiving applications.)

1, 2 and 3, 1946. (Last day for receiving applications: March 15, 1946.) October 9, 10 and 11, 1946. (Last day for receiving applications: August 28, 1946.)

ANNOUNCEMENT

Mr. Richard Nickson, M.A., F.R.I.B.A., has opened a London office at 33, Welbeck Street, W.1 (Telephone: WELbeck 1681-2), in addition to his office at 58, Rodney Street, Liverpool, 1 (Telephone: Royal 4816), and will be very glad to receive trade catalogues.



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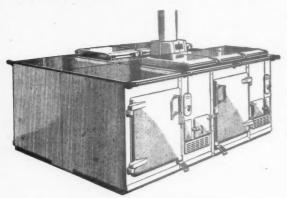




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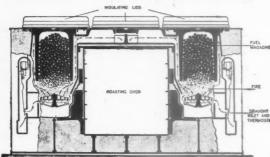
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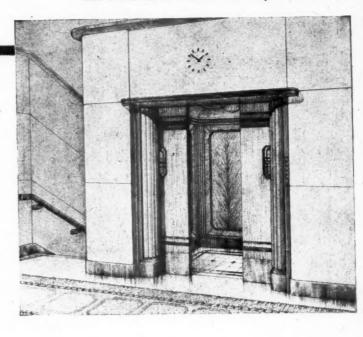
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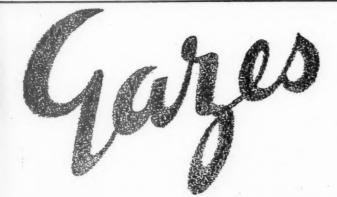
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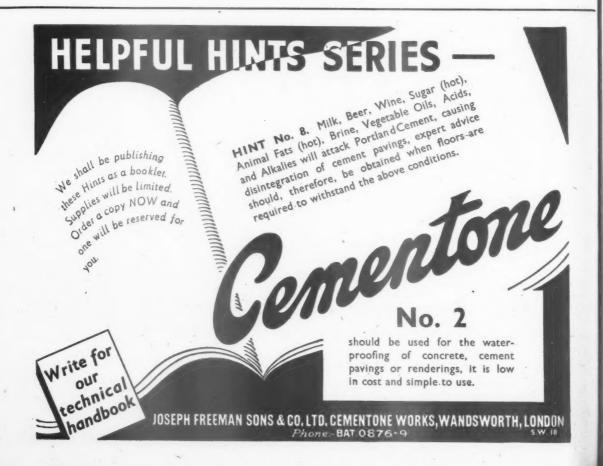
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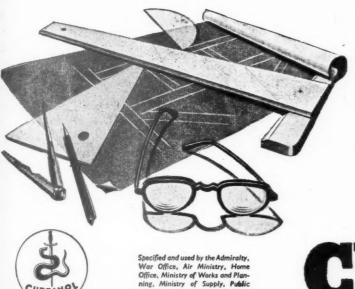
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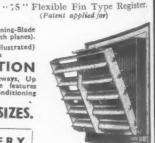
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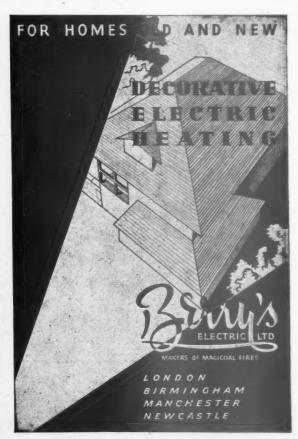
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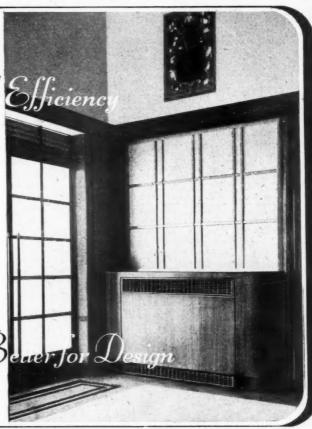
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Replies to Box Numbers should be addressed care of "The Architects' Journal," War Address: 45 The Avenue, Cheam,

Public and Official Announcements

Six lines or under, 8s.; each additional line, 1s. THE INCORPORATED ASSOCIATION OF ABCRITECTS AND SURVIVORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. Address: 78, Eaton Place, London, S.W.I. Tel.: Stoams 5615. 991

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Applications are invited for the post of ASSISTANT LECTURER IN BUILDING CONSTRUCTION.
Candidates must be Registered Architects, and should also have had farm experience. The salary for the post is on a range of £350 to £450 per annum, commencing at £400 per annum, with appropriate war bonus in addition Applications, stating qualifications and experience, should be lodged with the undersigned, from whom further particulars may be obtained, not later than 28th July.

13, George Square, Edinburgh.

STAFFORDSHIRE COUNTY COUNCIL.

TOWN AND COUNTRY PLANNING DEPARTMENT.

Applications are invited from persons not liable for Military Service, or who are exempt there-from, for the following appointments in the Town and Country Planning Department of the

for Military Service, or who are exempt therefrom, for the following appointments in the Town and Country Planning Department of the County Council.

(a) One PLANNING ASSISTANT, grade D. Commencing salary £300, rising to £375 per annum. Preference will be given to applicants who are Corporate Members of the Town Planning Institute and have had experience in a planning office.

(b) One PLANNING ASSISTANT, grade C. Commencing salary £220, rising to £300 per annum. Applicants must be competent draughtsmen and have had experience in surveying and a planning office.

In each case the appointment carries the current war cost-of-living bonus, which for male officers over 21 years of age is 23s, per week.

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

Applications in writing, stating age, qualifications, experience, and position with regard to National Service, accompanied by copies of three recent testimonials marked in the top left-hand corner "Planning Appointments," must be lodged with the undersigned not later than first post on Monday, the 6th August, 1945.

Canvassing, directly or indirectly, will be a disqualification whether they are related to a member of the County Council.

The EVANS, LLM.

Clerk of the County Council.

10th July, 1945.

SOMERSET COUNTY COUNCIL.

SOMERSET COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of the following Temporary Staff in the abovenamed Department:—TURAL ASSISTANTS, at a salary within the scale £310 per annum. Department:—Class II ARCHITECTURAL ASSISTANTS, at a salary within the scale £360 per annum. Class II(a) ARCHITECTURAL ASSISTANTS, at a salary within the scale £360 per annum. Departments of £15 to £415 per annum. QUANTITY SURVEYORS at a salary within the scale £310 per annum, by annual increments of £15 to £415 per annum. The commencing salaries will be determined by experience and qualifications. War bonus in accordance with the Council's scale to be paid in addition to the above salaries.

The successful candidates will be required to pass a medical oxamination by the County Medical Officer of Health.
Applications, stating age, training, experience, qualifications, position in regard to Military Service, and length of time required to take up new appointment, together with copies of three recent testimonials, should be sent to the undersigned not later than the 28th July, 1945.

Park Street, Taunton, Somerset.

10th July, 1945.

Park Street, Taunton, Somerset. 10th July, 1945.

COUNTY BOROUGH OF NEWPORT.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for appointments as SENIOR ASSISTANT ARCHITECTS in the above Department.
Applicants must be qualified members of the Royal Institute of British Architects by examina-

appointments are temporary, but it is e that permanent positions may develop

possible that permanent positions and to the Corporation's Scale of Salaries, Class 3, £474 10s., rising by two annual increments of £16 5s. to £507, plus cost-of-living bonus, £59 16s.

Applications, giving experience, accompanied by three recent testimonials, must be delivered to the undersigned not later than Tuesday, the test Indv. 1945.

by the undersigned not bear to the undersigned not bear to the Johnson Blackett, F.R.I.B.A.,

Borough Architect.

936

Town Hall, Newport, Mon.

THE COUNTY COUNCIL OF CLACKMANNAN.

Applications are invited for the appointment of a COUNTY ARCHITECT, at a salary of \$200 per annum, plus war bonus, at present amounting to \$60 per annum, rising by increments on approved service to £750 per annum. Applicants must be Fellows or Associate Members of the Royal Institute of British Architects. Experience in Town and Country Planning will be considered an important advantage. The appointment will be subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937, and the selected applicant will be required to pass a medical examination.

Applications (six copies), stating age and details of experience, together with copies of not more than three recent testimonials, endorsed "Appointment of Architect." must reach the undersigned not later than 25th August. (Applicants in the Services may read "recent" as relative to the date of their enlistment.)

Canvassing direct or indirect will disqualify.

N. A. SCORGIE,
County Buildings, Alloa.

County Buildings, Alloa. July, 1945.

BOROUGH OF SCUNTHORPE.

ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT in the Borough Engineer and Surveyor's Department, at a salary of 2400 per annum, plus cost-of-living bonus, at present £59 16s. per annum. The appointment will be ungraded at present, but will become graded if and when the Corporation adopt the East Midlands Provincial Council Scales.

adopt the East Midlands Provincial Council Scales.

Applicants should hold a recognised Architectural qualification, and have had experience in housing.

The appointment will be subject to the Local Government Superannuation Act, 1937, terminable by one month's notice on either side, and the successful candidate will be required to pass a medical examination.

The appointment will be temporary, but the successful candidate, if satisfactory, will receive consideration, along with other applicants, for the permanent appointment at a later date. Applications, stating age, qualifications and experience, endorsed "Architectural Assistant," accompanied by copies of two recent testimonials, must reach the undersigned not later than 26th July, 1945.

The Ministry of Labour and National Service have given permission, under the Control of Engazement Order, 1946, for the advertisement of this vacancy.

W. P. ERRINGTON.

this vacancy.

W. P. ERRINGTON,

Municipal Offices. 34. High Street, Scunthorpe, Lines. 6th July. 1945.

COUNTY BOROUGH OF CROYDON.

BOROUGH ENGINEER'S DEPARTMENT.

ARCHITECTURAL STAFF.

Applications are invited from qualified persons or the following vacancies on the established aff. The persons appointed will carry out leir duties under the direction of the Assistant to the following staff. The persons approximated their duties under the direction of the Architect.

Applicants must have had a good general knowledge of the architectural work undertaken by a local authority (excluding schools).

One SENIOR ARCHITECTURAL ASSISTANT. with wide housing experience. Salary, £465-£525 (and the control of t

One GENERAL ARCHITEUTURAL ASSISTANT, with housing experience. Salary, 2400-2445 (grade C), plus war bonus in each case (at present £59 15s. per annum). The Corporation will endeavour to find reasonable living accommodation for the successful

The Corporation and the Corporation and living accommodation for the able living accommodation for the carbon and application may be obtained from the Borough Engineer, Town Hall, Croydon, and should be returned to me not later than 28th July, 1945.

E. TABERNER,
Town Clerk.

E. TABERNER,
Town Clerk

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

Vacancies exist for ARCHITECTS at the Building Research Station, Garston, Watford. They are required for work on either the preparation of Codes of Fractice, the examination and development of designs, or miscellaneous technical problems of building. Candidates should possess recognised professional qualifications and good practical experience, and preferably good training in elementary science. Salaries within the grade of Temporary Scientific Officer, according to qualifications and experience. Maximum £650 p.a., plus war bonus, £60 p.a., plus war bonus,

experience. Realistics of Labour 260 p.a. Write, quoting EA.1559A, to Ministry of Labour and National Service, Appointments Department, A.9. Room 630, York House, Kingsway, London, W.C.2, for application form, which must be returned completed by 27th July, 1945.

CITY OF SHEFFIELD.

APPOINTMENT OF SIX TEMPORARY ASSISTANT ARCHITECTS.

Applications are invited for the position of Temporary Architectural Assistants (6) in the Education section of the City Architect's Depart-

ment.
Salary will be £300-£450 per annum, plus warbonus of £59 16s., according to qualifications, ability and experience.
Applicants must have had experience in Educational Building Work.
Applications, stating age, qualifications and previous experience, together with copies of three testimonials, should reach the undersigned not later than Saturday, the 4th August, 1945.

W. G. DAVIES, F.R.I.B.A., City Architect.
City Architect's Department, Town Hall, 937

ESSEX COUNTY COUNCIL.

ESSEX COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.
Applications are invited for appointment to the post of an experienced DRAUGHTSMAN at a salary of £250 a year, plus such war bonus as is decided by the Council from time to time (at present men 23s., women 18s. 6d., a week). The post is on the established staff, and the person appointed may be subject to the provisions of the Local Government Superannation Act, 1937. He will be subject to the Standing Orders of the Council for the time being in operation and to such Sick Pay Rules and Regulations as may be adopted by the Council from time to time.

Applicants should have had experience in the production of maps and diagrams in connection with planning schemes and planning surveys, and should also be able to do perspectives and birdseye views.

Applications, stating age, qualifications and previous experience, accompanied by three sample drawings and by copies of three recent testimonials (which will not be returned) should be forwarded to the undersigned as soon as possible.

Canvassing is forbldden.

possible.
Canvassing is forbidden.
This advertisement is issued with the sanction of the Ministry of Labour and National Serdee.
Dated his 6th day of July, 1945.
F. LONGSTRETH THOMPSON, County Planning Adviser.
Pearl Assurance Buildings. Chelmsford.

BOROUGH OF LUTON

BOROUGH ENGINEER'S DEPARTMENT: APPOINTMENT OF TECHNICAL STAFF.

Applications are invited for the following appointments which, in the first instance, will be

pointments which, in the first instance, will be a temporary nature:—

(1) CHIEF ARCHITECTURAL ASSISTANT, lary £500 per annum, rising by annual interacts of £95 to £600.

(2) CHIEF PLANNING ASSISTANT, Salary 1200 per annum, rising by annual increments of 20 to £480.

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202 CHIEF PLANNING ANSISTANT. Sussey, 2420 per annum. rising by annual increments of 270 to 2480.

The persons appointed will be required to provide and maintain a car, in respect of which a car allowance will be paid on the basis of the Ministry of Home Security Scale until the 30th Sentember. 1945. after which date an annual allowance of 2100 will be paid. In the case of each annointment a temporary cost-of-living bonns will be paid, the present rate of which is 250 16s. per annum. Each appointment will be subject to the provisions of the Local Government Superannuation Act. 1937.

Annileants for the post of Chief Architectural Assistant must be Associates of the Royal Institute of British Architects. and have had extensive experience of the design and maintenance of public buildings and municipal houses, and in particular have had recent experience of the Chaning Assistant must have had experience of the Planning Assistant must have had experience of the Planning Assistant must have had experience of the Oppolitement of Chief Planning Assistant must have had extensive experience in the preparation and administration of planning schemes, and be suitably qualified. Applications, suitably endorsed, stating with copies of not more than three recent testimonials to be delivered to the Borough Engineer. Town Hall, Luton, not later than Monday, 23 July 1945.

Town Hall, Luton. 6th July, 1945.

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BOROUGH OF CLITHEROE. BOROUGH SURVEYOR'S DEPARTMENT. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited from Registered architects for the above appointment, at a salary of £325 per annum, plus war bonus (at present

of 2325 per annum, place was a company of the appointment will be temporary, but may lead to a permanency. Applications, in a plain sealed envelope, applications, previous experience and position in relation to National Service, and accompanied to copies of three recent testimonials, must be delivered to the undersigned not later than 2 noon on Thursday, 2nd August. 1945.

G. HETHERINGTON, Town Clerk.

The Castle, Clitheroe, Lancs. 10th July, 1945.

Architectural Appointments Vacant Four lines or under, 4s; each additional line, 1s.

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Clerk.

SENIOR ASSISTANT required by West End Architects; capable of taking complete charge of important contracts. Apply in writing, stating qualifications and salary required, to I. Stanley Beard & Bennett, F/L.R.I.B.A., 101/3, Baker Street, London, W.1.

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A RCHITECT, limited in some respects, but well versed in most problems of practice over a period of 27 years, would like to join London practitioner as right-hand man. Box 60

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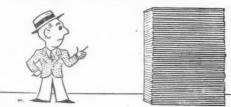
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Senior Assistant, 31, registered Architect; 15 years' experience domestic, commercial works, cinemas, airports, etc.; used to complete control of work; good draughtsman and designer; London or South Coast areas only; salary 12 guineas per week. Box 47.

Architectural Assistant, 8 years' experience in the design of houses, factories, offices, brewery work, etc., from the sketch plan stage to working drawings, details and specifications and quantities, and now taking Final Examination for the A.R.I.B.A. soon, desires progressive position in office in the North-Western area; salary by arrangement. Box 48.

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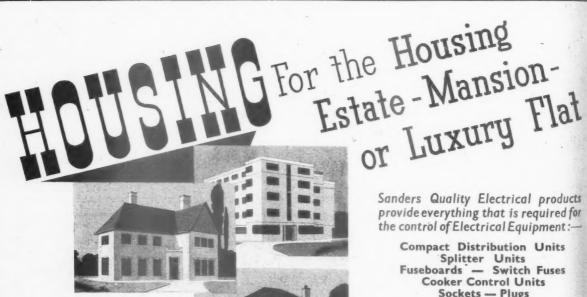
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