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What will the world be like when old age overtakes this happy pair? The war will be over and done with long before they cease to be children. But during the war a new revolution in industry got under way. New methods, new materials, new ideas, new ways of handling old problems in building and planning—they will be enjoying

the fruits of this revolution. It is our present privilege to be doing the research work which is making this revolution possible, and is bringing it to success. At this moment, our technicians are concerned with working out new materials and methods — helping in fact to build a better Britain for the new generation.

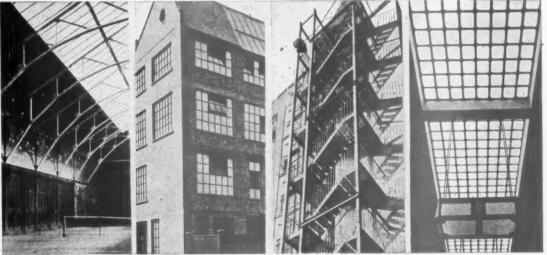
GYPROC PRODUCTS LIMITED

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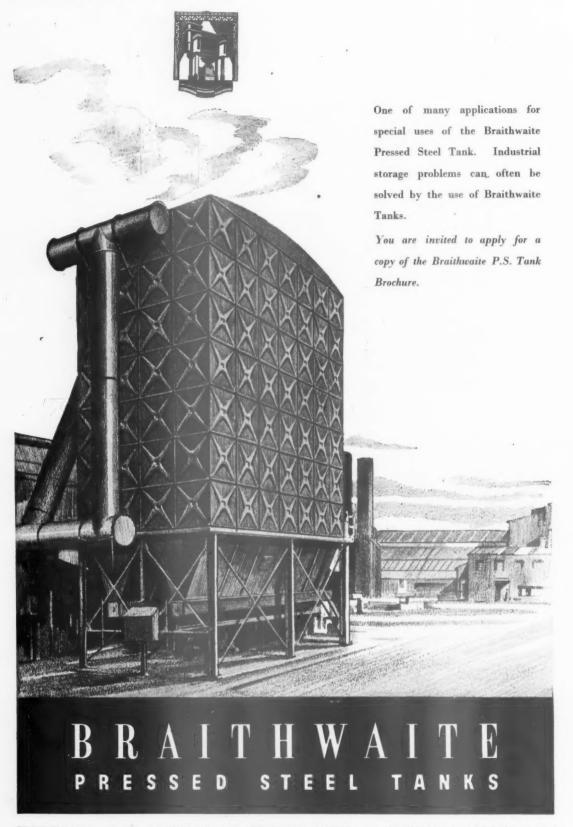
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Modern

INDUSTRIAL BUILDINGS

Article Number Nine in a new series on the principles practice of reinforced concrete construction. It is suggested that each article should be cut out and kept in a personal file for this series and for other information relating to forced concrete construction.

The primary consideration of any architect or engineer in designing a factory, a warehouse, or any other type of industrial building is to produce a structure that reduces interference with working space to a minimum. This, in a constructional medium that allows the highest degree of flexibility in planning, and the greatest latitude in the treatment of elevations. These requirements together with the ability to provide for extensions, simultaneously with the maximum protection against fire and conformity with civil defence requirements, must all be combined with the utmost economy.

The one structural material that can claim to fulfil all these requirements is reinforced concrete. The slender proportions of modern



Architects: C. W. Glover and Partners.

for an all-steel building. Such a saving, vital as it is in war time, will be equally essential in the days of post-war reconstruction and is reflected in a reduction in the cost of the building.

The traditional prejudice against reinforced concrete for factory construction is principally the difficulty of attaching shafting and other fixtures to the concrete members other than in exact positions foreseen when constructed. The modern designer, however, normally prearranges for such attach-

> ments to be made at any point that future requirements may necessitate. Similarly with contemplated extensions, provisions can readily be incorporated when constructing the initial building, whether the extension is an increase in plan area or the addition of



reinforced concrete design with its high factor of safety automatically leads to elegant elevations and spacious interiors. Elevations that are a good shop window for the manufacturer. Interiors that give unfettered space and lighting for efficient manufacturing. Observe how these properties are so apparent in the illustrations of typical factory structures. The absence of roof tie rods in a reinforced concrete framed building, Fig. 1, and manner in which outside walls are part of the structural framework, Fig. 2, are but two of the noticeable features.

Economy is also inherent in such designs. The figures published by Government authorities show that areinforced concrete factory building requires only one-half to three-quarters of the steel required further storeys.

The one time fear that vibrations from machinery or cranes might be detrimental to a reinforced concrete structure has been killed by the evidence of the many successful structures that have existed for generations.

To-day it is common knowledge that framed reinforced concrete structures provide a resistance to damage by fire, aerial bombardment, earthquake shocks and vibrations not available in any other building material.

This same degree of resistance is also true in respect to foundation settlement caused by poor subsoils, mine workings or similar subground movements. Each and every one of these factors may be of vital importance in the designing of any factory or warehouse.



If a concrete structure, reinforced by Square Grip bars, requires 300 tons of steel, then its efficient counterpart reinforced by ordinary mild-steel round rods would require 500 tons of steel. But the same type of building, constructed on the steel frame principle, would necessitate the use of 1,000 tons of steel! From this can be appreciated the many economies offered by Square Grip compared with other forms of construction-and advantages too. For not only is there the obvious saving in steel, but there are the immense benefits of greater flexibility of planning with structural members reduced to a minimum. These, and the many other advantages are due entirely to the work-hardening process which every square section, screw-like bar of Square Grip reinforcement undergoes. A process which gives to these bars a working tensile strength 50% greater than ordinary mild steel round rods and a bond value 500% greater.



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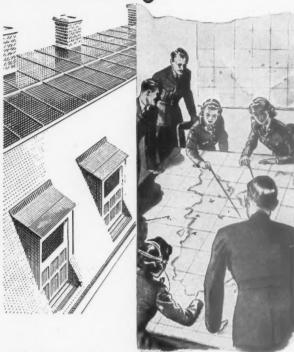
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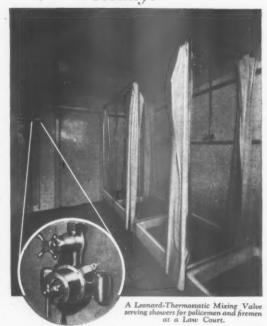
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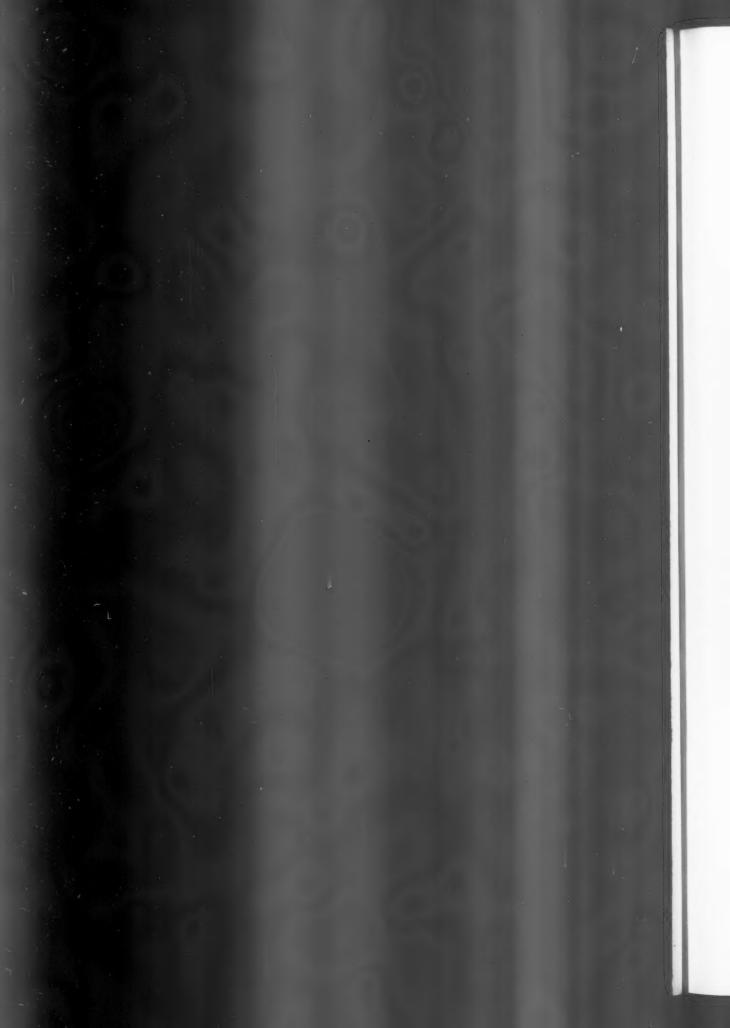
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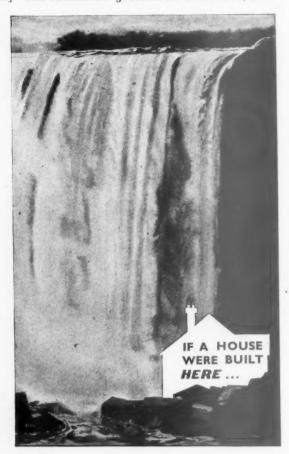
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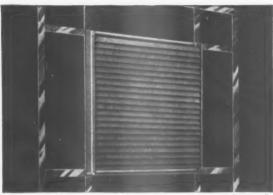
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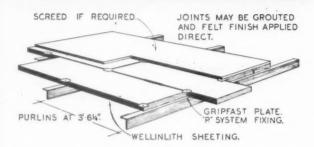
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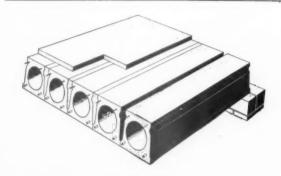
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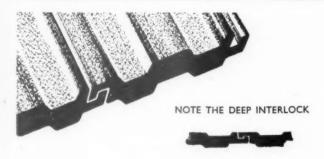
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- 7 Shuttering must be cleaned before use, and must be stiffened and braced so that no part of it will be moved by the weight and the ramming of the concrete.

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- II Finished concrete should be protected for three days against quick drying, if the weather is hot or windy.
- 12 Shuttering should be removed with the least damage to the timber and none to the concrete.

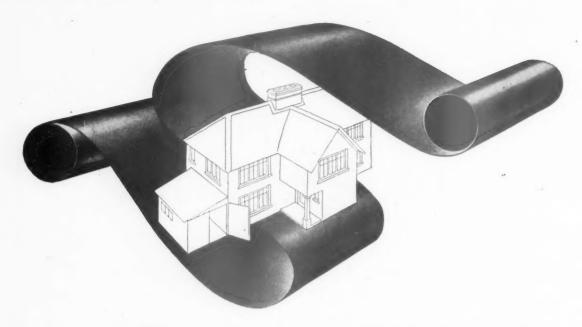
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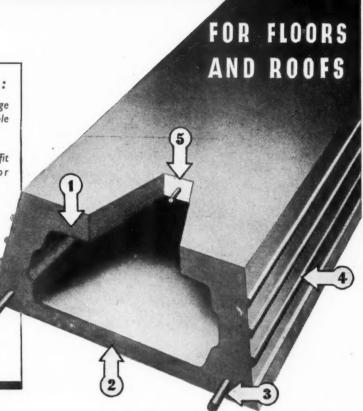
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THURSDAY, OCTOBER 15, 1942.

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The fact that goods made of raw materials in short supply owing to war conditions are advertised in this JOURNAL should not be taken as an indication that they are necessarily available for export.

Owing to the paper shortage the JOURNAL, in common with all, other papers, is now only supplied to newsagents on a "firm order" basis. This means that newsagents are now unable to supply the JOURNAL except to a client's definite order.

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TENTEST are STILL at your SERVICE

TRANSPORT MUST BE REDUCED
YET QUICK DELIVERY OF BUILDING
BOARDS IS ESSENTIAL

THEREFORE, when we have secured official sanction to deliver any particular type of building board, we must deliver from the nearest available stocks of that type of board, irrespective of brand or name. Inevitably, therefore, we are at times concerned with the supply of materials other than TenTesT Products.

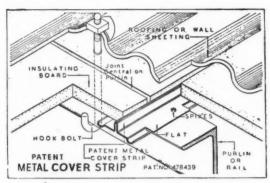
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THOMAS NELSON BUILDING—remains of Thomas Nelson Building in Paternoster Row. Through the arched entrance of the original building the spire of Christchurch, Newgate, by Wren, can be seen.

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For the reconstruction, use— • "REDALON" Liquid • "ATLAS WHITE" Cement • "BULL DOG" Clips • "ELLICEM" Cement Paint • "COLEMANOID" Waterproofer and Hardener • "ALUNDUM" Non Slip Products • "ADAMITE" Mixture.

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The Adamite Company Ltd., Head Office: Manfield House, Strand, London, W.C.2. TEMple Bar 6233.

NOTE: The above picture is one of a series of drawings by Dennis Flanders. We have a very limited number of reproductions, printed on art paper and bearing no advertising matter. A Copy will be sent you free and post free on request.

In common with every other periodical and newspaper in the country, this JOURNAL is rationed to a small proportion of its peace-time requirements of paper. This means that it is no longer a free agent printing as many pages as it thinks fit and selling to as many readers as wish to buy it. Instead a balance has to be struck between circulation and number of pages. A batch of new readers may mean that a page has to be struck off, and conversely a page added may mean that a number of readers have to go short Thus in everyone's interest, including the reader's, it is

important that the utmost economy of paper should be practised, and unless a reader is a subscriber he cannot be sure of getting a copy of the We are sorry JOURNAL. for this but it is a necessity imposed by the war on all newspapers. The subscription is £,1 3s. 10d. per annum.

The Rev. C. A. Plaxton, a Weymouth vicar, tells in his parish magazine how a NAZI BOMB IMPROVED HIS CHURCH.

He writes: "The destruction of the big Apostle window in the Lady Chapel, with its cheap and gaudy German-made glass, is an enormous improvement." The wipdow was a memorial to a Victorian clergyman.

Some of the suggestions for postwar housing made by members of Middlesex Women's Institutes in reply to their Federation's questionnaire are for a BATHROOM UNDER THE STAIRS, a room for large toys and prams and for the lounge to be the largest room with a southern aspect. Other, suggestions include asbestos-lined roofs to prevent freezing, sliding doors with-

In a supplement to the Standard Schedule of Prices of MOWP prepared by the Technical Sub-Committee of the Central Council for Works and Buildings there are a more complete schedule for PREFABRICATED MENTS and schedules for special light-weight steel tubing for water services, for camouflage painting asbestos pressure pipes for water mains. This supplement contains prices for approximately 150 additional items of work which have been found necessary for the type of work for which the Ministry have used the Schedule. The supplement also corrects one or two errors in the original schedule, clarifies certain paragraphs on which questions have been addressed to the Committee and, in a few instances, modifies the rates as originally For example, the prices in the painting

out panels, straight staircases, windows that can be cleaned from the inside, rounded corners and no picture rails. Communal amenities, except playgrounds, are not popular.

schedule have been recast as a result of the change in Bonus on output rates. The new supplement is on sale at H.M. Stationery Office, price 4d. (post free).

The task set to the candidates at the final examination by the Town Joint Examination Planning Board this year, was to DESIGN A GARDEN CITY on an actual site and not on an imaginary one. An exhibition at the Housing

ARCHITECT'S from AN Commonplace Book

Ruskin hoped that Oxford museum would realize his principles, and was strengthened in his hope by the fact that Woodward was a great admirer of the Stones of Venice, and a friend of the pre-Raphaelites. Ruskin took charge of the work when Woodward fell ill, and made many designs for the Museum, though only one, the windows on the first floor to the left of the central bay, was carried out. This, and six brackets, are the only designs of Ruskin's ever realised, though the average Oxford undergraduate attributes to him most of the modern Gothic buildings in Oxford. Ruskin also reared, with his own hands, one of the brick columns in the interior; but it was later found necessary to demolish this column and reconstruct it by a professional bricklayer.

From the Gothic Revival by Kenneth Clark.

Though every news item is news to someone, it doesn't follow that all news has the same value for everyone. The stars are used to draw attention to the paragraphs which ought to interest every reader of the Journal.

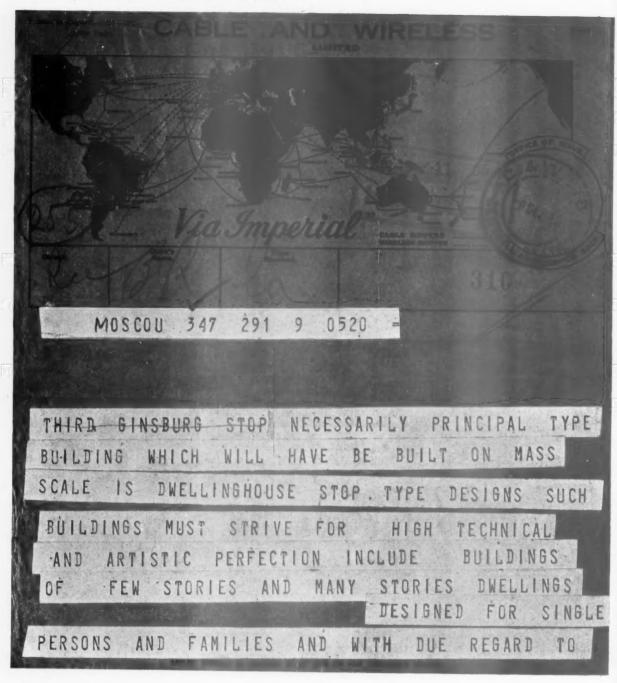
means spare a second for this it will probably be worth it.

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

Any paragraph marked with more than two stars is very hot news indeed.

The general position in the building industry, states the Building Industries Survey published by B.I.N.C., remains one of divided and in consequence DISSIPATED ACTIVITY. The Industry is still in the unfortunate position of being unable to organize its full resources because the war-time building needs, which can only be compiled by the Government, have

not yet been expressed in physical or any other measurable terms. Thus there is still no organized and properly collated war-time building programme. In the absence of this knowledge, fundamental to any fully effective industrial effort, recourse has still to be had to a form of piecemeal, disjointed progress. Recognition of the fact that building activity and, in consequence, that the industry, is one indivisible whole is still lacking on the part of the Government. It is the root cause of the continuing misdirection and consequent waste of the industries? direction and consequent waste of the industries' potential resources. The volume of intelligence and goodwill centred in the building industry remaining unused in the war effort at the behest of a process of Departmental reasoning almost wholly divorced from reality, is a matter to which Parliament itself must early turn its critical attention. The whole realm of relation-ship between the Departments and the building industry calls for an early reorientation based upon centralized and responsible machinery of contact.



Cabledfrom

A portion of a cablegram cabled to us from Moscow war reconstruction while fighting for its existence. Are

by Moisei Ginsburg, the famous Russian architect. The complete cablegram is reproduced on pages 247 and 248. It is a moving document; a striking and dramatic revelation of how Russia is planning—to-day—for post-

Centre of a selection of the draw- Chairman ings submitted was opened by Examination Board, presided. Mr. Henry G. Strauss, M.P., In opening the exhibition Mr. Strauss said

of the Foint

Parliamentary Secretary to MOWP. Mr. G. L. Pepler,

country unless we had good cities, and we should not be happy in the cities unless we had access to a good country-side. In all our glorious cities of the past the architectural unit was the street, terrace or square, not the individual house; and when we reconstructed our cities we should follow this method if we were wise. We must beware of the people whose sole idea was to make fine vistas.

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ru ge Representatives of forty Associations in the Building Industry, each concerned with the production of some particular form of building material, met in London and decided TO FORM A CO-ORDINATING BODY to be known as the National Council of Building Material Producers. A constitution prepared by an organising committee was adopted. Sir P. Malcolm Stewart, Bart., O.B.E., was elected the first President, and Sir William J. Larke, K.B.E., who presided, and Mr. W. H. Pilkington were elected Vice-Presidents. Mr. J. L. Gibson was appointed Secretary. The objects of the Council are outlined on page 256.

New arrangements are likely to be announced shortly by Mr. Hugh Dalton, President of the Board of Trade, to STIPULATE UTILITY FURNITURE DESIGN and materials, to control prices, to concentrate the industry and to permit only the manufacture of utility furniture. Home-grown hard timbers are to be used, with very little metal. Locks and hinges are to be small and reduced to a minimum in number. No pine, plastics or plywood.

The War Damage Commission, recognising that conditions in the London area as regards movement of building labour are exceptional, has decided that TRAVELLING EXPENSES WILL BE ALLOWED as part of the cost of making good war damage. The scale of travelling expenses and the conditions under which they will be allowed are published on p. 256.

**

Two-thirds of the members have voted for the name of the A.A.S. T.A. to be changed to the ASSOCIATION OF BUILD-ING TECHNICIANS. The Council has decided to incorporate the change in the proposed new rules to be put before the annual general meeting to be held in London on November 28.



SYSTEM'S VICTORY

THE time has now very nearly come when Lord Portal can lay his hand on his heart in the House of Lords and say that everyone now engaged on the administration and design of war building is a Civil Servant. It is desirable-other things being equal-that a war for democracy should be won by democratic ways; that everyone should be directly employed by the Government is one form of democracy and its substantial achievement in one branch of civilian war effort is something of a triumph. It is not a complete triumph, of course. Designers and administrators have become State employees while those who do the actual building are still enrolled in private enterprises. noteworthy partial triumph with results that are worth thought. The importance of the change lies not at all in whether people earn fees or salaries. It lies in the extension, stage by stage, of the Departmental System of Building Administration until virtually all war building comes under its control. This system as it now exists is of the highest interest. It had its origin in the systems in force before the war in the Office of Works and the building departments attached to various other Ministries. systems differed in detail but had in common the qualities of extreme departmentalization, remote control and slow tempo in operation. All comprised central and separate drawing offices for each group of technicians, employees in which never saw the works they designed: groups of senior technicians whose time was chiefly concerned with committees, memoranda and liaison; and a body of Clerks of Works who supervised execution on the sites with the help of liaison officers and occasional visits by senior technicians. Operated by those who thoroughly understood it for the execution of works of constant volume under stable conditions, the system's products were firmly built, unsensational and low in maintenance cost. And it is with the conditions necessary for these successes in mind that one should consider the system's development in war-time.

From the outbreak of war the work required of each official department multiplied enormously, and large numbers of new staff had to be recruited. The new requirements of camouflage and ARP had to be met, and questions of materials, labour and transport had to be watched through-

out each building scheme. Nothing better illustrates the driving power behind the system than the way in which these difficulties were overcome. New sub-divisions were rapidly created within each building Ministry, the many necessary liaison officers were appointed, and schemes were brought into operation by which all statistics about each job were reported at short intervals to all interested divisions.

And this great adaptation and expansion was not a matter of thoughtless hand-to-mouth expediency. When it was suggested that a single Ministry should do the planning and organizing of all war building and all of the design and execution which was not highly specialized—thus relieving half a dozen Ministries of a huge volume of work—the proposal proved unacceptable. The departmental system demands centralization and remote control but only within each building Ministry. It accepts the incontrovertible fact that problems of labour, transport and materials are common to all building Ministries, but insists that each Ministry should overcome these problems for itself rather than that one specialist Ministry should do so on behalf of all. is inflexibly opposed to a private firm however remunerated, tackling all parts of a building scheme simultaneously on or near the site, and has persistently and successfully pursued a policy of breaking up all building schemes into sections of which each becomes the responsibility of a separate Ministerial sub-department. So firmly have these things been believed that all the urgencies of war have not prevented the system from steadily gaining ground year by year. To-day, as we have said, it is almost universal. Architects who have been engaged in war building will know how to value the allegations against the system which have been made with rising shrillness in the past six months. It has been said that war conditions have made the system completely unworkable and have accentuated the always grievous drawbacks of "remote control" of building: that the increasing interference of the Ministry of Labour in matters of building makes it impossible for building Ministries to retain the autonomy which they demand; that sub-division of responsibility has come to mean that each building scheme carries unseen upon its wages books the salaries of a host of unnecessary inspectors and liaison officers: that the administration of war building is now such that it is wholly impossible to set down, graphically or otherwise, the relationships between its various parts or even the relationship

these exhaust the list of complaints. But architects, one feels, will not pay more attention to them than is their due. That Lord Portal has never found it necessary to answer them leads one to suppose that they must be exaggerated. And, after all, architects know that large war building schemes which have been really well designed and well executed can be counted on about half the fingers of one hand. And they know under what system

which is supposed to exist between those parts. Nor do

these schemes were carried out.



The Architects' Journal War Address: 45, The Avenue, Cheam, Surrey Telephone: Vigilant 0087-9

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HOUSING IS NOT ENOUGH

A report* published by the Department of Physiology, King's College, Durham, contains the following remarkable finding: "Though death rates were higher in overcrowded homes, this was not, as usually believed, due directly to overcrowding. It is the size of family and not overcrowding that is the harmful First children who lived under as overcrowded conditions as seventh children had the death rates of first children and not of seventh children." These late children of large families have a high death rate at all ages.

This looks like the beginning of the end of the theory that a high density automatically produces poor health regardless of the way accommodation is planned. The theory is erroneously based on the coincidence that most of the large families happen to live in slums.

The alternative theory that large families breed acute poverty and therefore the death rate in large families is high also has to be dismissed because the figures are substantially the same for relatively well-to-do households. And in any

^{*} Infant and Maternal Mortality. By C. M. Parsons, M.A., from the Dept of Physiology, King's College, University of Durham. Price



A real and an imagined fire. In The Last of Uptake, two fed-up spinsters set fire to the family seat, and created a blaze remarkably similar to a real fire at Prior Park on May 30, 1836.

case lack of money and food does not appear to harm the older children. It is only in the higher income groups (black - coated workers, independent business men, etc.), i.e., those capable of securing domestic help when necessary that large families do not result in a significant increase in the death rate.

The reason why, for the majority of the population, the death rate both for mothers and children follows the birth rate so closely is obvious. The mother of a first child has only herself to look after. The mother of a seventh child may have six existing children to look after. And so "despite the special industrial hazards of the male, it is more dangerous to be a miner's wife than a miner."

Worse still, records reveal a shockingly low standard of health among the children who remain alive. "They will form 30 per cent. of the next generation" and are likely to furnish most of its misfits.

The moral for the housing expert is more and better crèches, more and better schools—and plan at a density which makes these things possible. As Mr. Max Lock puts it,* Housing is not enough.

* A.J. October 1 page 215.



THIS HOUSE WAS A BIT TOO MUCH

"She had devoted most of her life to the care of Deborah, accepting without question the general view that Deborah was dearer to her than any other soul upon earth. But now when all was vain and the family doomed to extinction, why pretend to herself any longer? Deborah had always been hateful, selfish, interfering, jealous. Now she told her so." Such was the curious effect on Tryphena Caudle of the ending of an entail.

For years she had thought of herself merely as a link between past generations and future generations destined to inherit Uptake, "a house as lovely as a daydream, an estate as beautiful as you could wish to see." Then suddenly dear cousin Lucius died of a fever, and they discovered that less dear cousin Henry had in the meantime committed suicide.

"Worthless Henry," she reflected, who never knew the meaning of genteel behaviour, would have been astonished to learn that he was our last tie with proper deportment." Within twenty-four hours her possessions and Deborah's were packed in two separate coaches; Hake, the butler, was set up in "a little pub on the Bearminster Road that he'd long coveted," and Titmarsh, the gardener, endowed with money enough to satisfy his craving for adventure in foreign parts.

"It was blowing stiffly from the sea. A tatter of dark clouds raced across the early moon. Tryphena stepped into her carriage, whips were rattled in their holders, and the cortège moved off, down the drive over which sphinxes and caryatids stood sentinel, past the pools where doddering old carp still smacked their lips at the thought of the rich morsels that had come to them in great-grandfather's day. The carriages rolled out of the handsome gates, painfully climbed the ridge that commanded the park on the landward side. They stopped at the fork on the summit, where the Bearminster road parted company with that which led to Dropping Camden, through Lesser Riddance, and Caudle-on-the-Marsh. From the eminence where they waited they could look down upon Uptake, gleaming like a goddess among her

"Suddenly a flame blossomed out of it like a lovely flower, was joined by another and yet more, till there was a bed of great petunias." After all, their plans had not miscarried.





Tryphena Caudle, accompanied by Titmarsh—the gardener with a passion for orchids and for foreign parts—go over the grounds of Uptake for the last time. On this particular day mist shrouds everything; more water than usual drips from the great yew hedges and occasionally a fragment of classical drapery drops to the ground. Illustration by Rex Whistler in The Last of Uptake, an architectural fantasy.

Thus Simon Harcourt Smith, author, and Rex Whistler, illustrator, in The Last of Uptake, an architectural fantasy (Batsford, 15s.). Though little more than a catalogue of the exhibits in the country seat of the kind of nobleman who is now extinct, the kind of nobleman, that is, whose extravagances take an architectural form, it is so deftly done that a small boy of thirteen (who is known to me), sat up all night reading it as though it was a thriller, and later expressed a wish for more of that sort of thing. But what can one offer him, Mr. Harcourt Smith?

Mr. Whistler's illustrations, delightful though they are, suffer from a dualism which so far as I know has not been pointed out. The Richard Bentley of our day, he is a master of Gray's-Elegy-Rococo in all that pertains to figure groups, urns, baskets of fruit, spades, axes, arms and implements-rococo above all in his land-and-tree-scapes. alas in his architecture Mr. Whistler is a Palladian, and this unhappy secret I now most unwillingly drag into the light of day.

Yes, Palladianism, that accursed thing, has got Mr. Whistler by the short hairs. That is why if you look very closely (at the bridge, for instance, on the previous page) you will see that his trees exist in a slightly different world to that in which his buildings have their being.

ASTRAGAL

LETTERS

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George C. Oldham, L.R.I.B.A. C. H. U. Cundall W. E. Brooks Frederick Hill Moisei Ginsburg. Member of S.A.S.C. Group, Russia

Unity in the Profession

SIR, - Your correspondent, J. H. Bradford, is right in drawing attention to the fact that this, what he describes as "lively," correspondence has had no real connection with the subject's title.

The correspondence has, however, had the melancholy effect of showing us how fundamentally disunited is the whole profession. Furthermore, your leading article in the same issue, and in fact your articles for weeks past, go to show that the whole building industry is a sick body in need of a tonic or even, let it be confessed at once, something more drastic—a surgical operation or at least a complete change.

How can we architects stand (or maybe sit, in those armchairs your correspondent describes with such success) and bicker about trivialities, while the greatest opportunity in the history of architecture is developing before our eyes like the dawn.

This surely is the time to forget that we are first and foremost members of the R.I.B.A. or of the A.A.; of the I.A.A.S. or any other inst. R.A.: to forget that we are members of this or that Builders' Federation or even of MOWP

Instead we should remember that the supreme opportunity for architecture is dawning and that the only way that we can hope to be worthy of such a mighty opportunity; the only way we can hope to compete even partially successfully with such a colossal opportunity is to get together, architects and builders alike (what a pill for some !), sink our petty differences and form one body under one leadership, a leadership such as could be given by Lord Reith. Then with the strength of real unity behind them, the proposals and re-quirements of the building industry could hardly fail to receive the complete attention and acceptance of the Government.

At the present time petty rivalries and jealousies; lack of co-operation all round, and the lust for personal power are on the right road to sabotaging the good that might come of all the spade work that is now going on behind the

Elementary reason bids us take this course of uniting. But reason is at a discount to-day. Nevertheless there could be no harm in a united architectural profession—and since architecture is the work of master-builders, this architectural profession would embrace the whole building industry. There could be no harm, I say, in a united architectural profession setting a magnificent example in reasonable behaviour—to the future benefit of mankind in general and of architecture in particular.

Poole. GEORGE C. OLDHAM.

War Damage at Exeter

Sir,—I have been waiting patiently, but so far in vain, for an appreciation—memorial, if you will—of the treasures taken from us by enemy action in Exeter earlier this year. I find it hard to reconcile the whole number devoted to Bath—in my humble opinion, a grossly overrated city, but that is perhaps due to having lived in Bristol for ten years—with the unusually inaccurate notes on Exeter by Astragal which is all you have seen fit to contribute.

A fair list of notable works destroyed or damaged is given in Miss Tomlinson's letter in your issue for July 2, and it will be seen that it comprises many Georgian as well as mediæval examples.

C. H. U. CUNDALL.

Newcastle-on-Tyne.

Morris's Monument

Sir,—Astragal asks who designed William Morris's monument in the Kelmscott Churchyard. It was by Philip Webb. Webb is reported as remarking: "It will be a roof over the old man."

W. E. BROOKS.

London.

Lord Portal's Housing Scheme

Sir,—Lord Portal's position at the moment is an enviable one. He has the power to make or mar the progress of reconstruction both now and after the war.

It is very saddening, therefore, to observe in his own scheme of housing,* which must naturally to a large extent reflect his own views, a complete disregard of the advances in architectural thought that have occurred in the last decade.

The Minister of Works and Planning was appointed as a leader—not an archeologist.

RAF

FREDERICK HILL

[Right. The cablegram from Moisei Ginsburg, the famous Russian architect, which is explained in the frontispiece of this issue. Ed. A.J.]



^{*} Illustrated in our issue for August 6 last.

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 US IN PREPARENCE FOR FORTHCOMES RECOMSTRUCTION
   MOSE
            STOP WHILE EXPERIME ALL EFFORTS
TO PESTROY FASCIST THRADERS THE BER FORM
CHOTHELES AND ECONOMISTS ALSO ENGAGED IN THE
      HORY HORE STOP AT HOMENT HONEVER
FIRST AND FOREBOST TASK DURS AND ALL
PROBLESSIVE WANKING IS- DESTROY HITLERISH
                    MCISEL BINSBURE .
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EXF

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Price

† All * Pap

*Port
*" 41
hs
*Rap
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Atlas

*Colo *Colo †Colo †Colo †Snov

*Cime

2" Ur \$"(Do shi \$" (Do 2" Br \$" Di Wash Coke \$" Si White (For

Brick Coner Clean Coars Fine Clean

WARTIME LIST

EXPLANATORY NOTES

The most important changes that have occurred since the last wartime list are in the prices of Bricks and Cements.

The Rates of Wages have not changed since Feb. 1st and are as follows:-

LONDON DISTRICT			Craftsmen.	Labourers.
Within 12 miles radius	 	 	 2s. 0 ld.	1s. 7\d.
From 12-15 ,, ,,	 	 	 2s. 0d.	1s. 7d.
GRADE CLASSIFICATIONS				

 B_1 B_2 Labourers . . 1s. 6\frac{1}{4}d. 1s. 5\frac{3}{4}d. 1s. 5\frac{1}{4}d. 1s. 5\frac{1}{4}d. 1s. 4\frac{4}{4}d. 1s. 4\frac{1}{4}d. 1s. 4\frac{1}{4}d. 1s. 3\frac{1}{4}d. 1s. 3\frac{1}{4}d.

CURRENT MARKET PRICES OF MATERIALS

BY DAVIS AND BELFIELD, 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 Cements

COLICIEDICA		Ceme	21110			
† All delivered in pap * Paper bags charged sacks charged at 35/6	d at	7/- exti	ra pe	r ton	non-returnabl	e; jute
					In 80-ton	freights
					F.A.S. Safe	
			6	Tons	in River	
			an	d over		
Portland		per		51/-		
*" 417 " Ultra ra	pid	Pos			201	
		per	ton	71/-		
*Rapid hardening	***			57/-	54/	6
*Water repellent			ton			
Atlas White (1 barrel			***		per ba	rrel —
(,				pwards
*Colorcrete rapid har	denin	g, buff	and r	ed p		
*Colorcrete rapid har				p		1/-
†Colorcrete rapid har				p	er ton	
Colorcrete non-rapid					n from 175/-	
†Snowcrete		B		n	er ton 20	5/-
100000000000000000000000000000000000000				1-9	10-19 1	
*Ciment Fondu, de	livere	d Cent	ral			
London area	114010	ner	owt	15/3	14/9 1	2/9
		_				210
Agg	regate	and Sa	nds (Full Lo	ads)	
2" Unscreened ballas	t	***		400	per yard cub	e 9/10
a"(Down) Washed,	crus	hed an	id g	raded	-	,
shingle	***	***		***	per yard cub	e 10/4
# (Down) Ditto	***				per yard cub	e 11/4
2" Broken brick 4" Ditto		***	***			
Pitto	***				per yard cub	
Washed pan breeze					per yard cub	e 9/6
Coke breeze 1" to du	st				per yard cub	
Coke breeze 1" to due	nd	***			per yard cub	
White Silver Sand for	or whi	te ceme	nt (c	ne ton	lots) per var	
(For Sands for Brid						
,	2	-				,
		Pavi	ngs			
	***	***	***	***	per yard cub	
				2	per yard cub	
Clean furnace clinker			shes	* **	per yard cub	
Coarse gravel for pat	hs	***		***		
Fine ditto		***	***	***	per yard cub	
Clean granite chippir	igs				per ton	37/6
- 11	_				•	,

CONCRETOR—(continued)

			P	avi	nas-	-continu	ued	
Red quarry tiles,	6"	×						per yard super 8/1
Ditto			6"				***	per yard super 6/9
Buff ditto			6"					per yard super 8/10
Ditto	6"	×	6"	×	5"			per yard super 7/5
Hard red paving	bri	eks	8, 2	H		***		per 1,000 230/6
Ditto			11					per 1,000 208/3
				R	einfo	rcement		

		zecong or c	011101	**			
Home trade max							
station or sid	ing				per ton	£16 19	6
Extras for :							
% and 1 diamet	er	***	*** :	***	***	per ton	10/-
7 diameter		***		***	***	per ton	15/-
# diameter					000	per ton	20/-
5 diameter		***		***		per ton	30/-
1" diameter						per ton	40/-
1 " diameter						nor ton	60/_

Retarding liquid, in	5-gallon		<i>dries</i> ns)	Ex	Warel	iouse,
Lengths of 45 ft.	to 50 ft.	***	***	***	***	per ton	15/-
Lengths of 40 ft.			***			per ton	10/-
" diameter						per ton	60/-
l" diameter						per ton	40/-
5 diameter			***	***		per ton	30/-
₹" diameter				000	000	per ton	20/-

	Sundri	es	
Retarding	g liquid, in 5-gallon drums (for exposing aggregate) per gallon	21/-	Ex Warehous Southwark Bridg Drums chargeab
Ditto	(for obtaining a bond) per gallon	13/11	and credited, returned.
BRICK	LAYER		

DICICILLIA	TITE								
		C	ommo	n Brick	8				
†Rough stocks	3		***	***			per	1,000	62/6
†Third stocks		***					per	1,000	53/-
†Mild stocks		***			***		per	T,000	68/6
Sand limes		***						1,000	
‡Phorpres pre			***	***	***			1,000	
‡Phorpres key			***	***				1,000	
Blue Staffords	hire v	virecuts						1,000	
†Lingfield eng.				***	***			1,000	
Firebricks, bes				***	***			1,000	
Firebricks, bea	st Sto	urbridge	3"	***	***		per	1,000	465/6
	1	Pacing an	nd En	gineeri	ng Bric	ks			

r nebricks, best Stourbridge	0			***	ber	1,000	100/0
Facing an	d Engi	neering	Bricks				
Sand Limes, No. 1					per	1,000	_
Sand Limes, No. 2	19.00					1,000	
‡Phorpres rustic Flettons	***	***	***		per	1,000	79/9
‡ At King's Cross. For deli † Price ex					1 6/	6 per	1,000.
11100 04	WOLKD,	donve	y ozer	(A o			

Midhurst Whites					р	er 1,000	113/-
†Hard stocks, firsts	***				р	er 1,000	88/6
†Hard stocks, secon	ds	***			р	er 1,000	81/6
Sand-faced, hand-m	ade re	ds			per 1,00	00 from	153/-
Sand-faced, machin	e-made	e reds			per 1,00	00 from	
Red rubbers (93-in.)			***	р	er 1,000	
Uxbridge Flints (wl	nite)				р	er 1,000	78/-
Uxbridge Flints					etc.)	c	770/
per 1,000							
Dunbriks (concrete)	, stanc	lard gr	eys, ex	works	3 pi	er 1,000	63/-
Dunbriks (concrete)	, in va	rious c	olours	ex wo	rks pe	er 1,000	98/-
†Southwater engin	eering	No.	1 (fin	st qu	ality		
red pressed)					po	er 1,000	128/-
†Southwater engine	eering	No. 2	(8000	nd qu	ality		
red pressed)					рі	er 1,000	108/-
Blue pressed							
† 1	Price e	x work	s, deli	very ex	ktra.		

7	imag	and	Sand

					1-to	n lots 6-to	on lots
Lime, greystone			***	per	ton	57/6	_
Lime, chalk				per	ton	57/6	_
Lime, blue Lias (in				per	ton		-
Lime, hydrated (in	cluding	paper	bags)	per	ton	67/-	-
Washed pit sand					per	yard cube	12/-
(For cements, see	" Cone	eretor.	")				

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

charged at 1/9.					
	Si	indries			
Wall ties, self coloured				per cwt.	_
Wall ties, galvanized				per cwt.	_
D.P.C. slates, size 18" × 9"				per 100	38/-
D.P.C. slates, size 14" × 9'				per 100	34/3
D.P.C. slates, size 14" × 4	1"			per 100	15/-
†Ledkore D.P.C. Grade A		***		per foot super	7åd.
†Ledkore D.P.C. Grade B		***		per foot super	9ld.
Ledkore D.P.C. Grade C	***			per foot super	113d.
† Trade discount 5 per ce	nt. a	nd cash	disco	unt 5 per cent.	Prices

include delivery on minimum of £5 orders. Earthenware airbricks: $9" \times 3"$ $9" \times 6"$ $9" \times 9"$ $12" \times 9"$ $14" \times 9"$ Red, blue, vitrified and

buff terra cotta each	1/-	2/-	4/6	_	-
Black cast iron, School Board pattern airbricks		$9'' \! \times 6''$	$9''\times 9''$	$12''\times6''$	12"×9"
per doz.		7/7	15/1	15/1	
Galvanized ditto per doz. Black hit and miss cast iron ventilators		15/11	30/21	30/21	_
p∘r doz.	18/-	27/6	37/1	37/1	_

Galvanized ditto per doz. 36/-57/21'6" 2'0" 2'6" 3'6" 5'0" 4/2 6/1 8/1 18/4 31/6

Wall reinforcement supplied in standard rolls containing 25 yards lin. *2" wide black japanned ... per roll 2/5
*2" wide galvanized ... per roll — (
2½" price carriage paid
*2½" wide black japanned... per roll 3/*2½" wide galvanized ... per roll — (
*2½" wide galvanized ... per roll 2/5
*2½" wide galvanized ... per roll 3/*2½" wide galvanized ... per roll 3/*2½

* Prices subject to 5% advance.

	Partie	ions			
		2"	21"	3"	4"
Breeze	per yard super	2/3	2/8	3/2	4/2
Clay tiles	per yard super	2/8	2/11	3/6	4/-
Pumice	per yard super	3/6	4/6	5/3	5/9
Plaster	per yard super	3/8	4/9	5/9	6/6

Gas Flue Blocks

			Single	Double
			Flues	Flues
Straight blocks		 each	1/3	2/3
Building in set		 per set of 3	3/1	5/6
Cover blocks		 each	1/7	3/4
Raking blocks 45°		 each	3/-	4/8
Raking blocks 60°		 each	2/1	3/3
Offset blocks		each	3/8	5/3
Closer blocks		 each	1/3	2/3
Closer flashing blocks		 each	10d.	1/9
Straight flashing bloc	eks	 each	· 11d.	1/9
Terminal and cap		 per set	7/-	12/-
Middle terminal and	cap	 per set	6/6	11/3
End terminal and ca	р	 per set	6/9	11/9
Corbel block		 each	5/2	10/5
Gathering block	• • •	 each		5/3

				4	0	9
Pipes (2' lengths)			each	1/8	2/6	4/6
Bends, ordinary				2/6	3/9	6/9
Single Junction, 2' long				3/4	5/-	9/-
Yard Gulley, without grat	ing		each	6/3	6/101	11/3
Ordinary round or squa	re Gra	ting,				
painted		***	each	-/71	1/3	2/6
Ordinary round or squa	re Gra	ting,				
galvanized			-each	1/01	2/1	4/41
Extra for Inlets, horizonta	ıl		each	1/6	1/6	1/6
Extra for Inlets, vertical			each.	2/3	2/3	2/3
Intercepting Trap with	Star	nford				,
Stopper				17/6	22/6	37/6
Grease and mud intercept						,
silt and grease for 6", grating, painted	9" and	12" d	rains,	with ir	on each	20/-
Ditto, with iron grating ge						21/104
The above prices to be v						
different qualities given.						

DRAI

Cast iro appro Galvani

fronts MASC Build Blocks s Templat super Templat Templat Prices f. per to

6" × 3 6" × 6 9" × 3 9" × 6 12" × 3

Cornices

SLAT

24" × 1 20" × 1 Prices

Hand-m

Machine

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†Standar Slates (A * 15% * 15% * 15%

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5% trad † Do.,

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†操" Ditte †Prices a "l" Asbe

* 1 / Ditt * 1 / Asb * 1 / Asb

The follo discoun Asbestos 8' 0" > Ditto, p

sheets Marble 8'0"> ½" Asbest

l' Firepr

l' Ditto

Joint tap

Slaters or Roofing f Bitumino

	British Standard	British Standard Tested
Orders for 2 tons and over \dots Orders under 2 tons, 100 pieces upwards Orders under 2 tons, less than 100 pieces	Plus 10% Plus 27½% Plus 37½%	Plus 35% Plus 52½% Plus 62½%

Orders for 2 tons and over Orders under 2 tons, 100 pieces upwards Orders under 2 tons, less than 100 pieces	Plus 20%	Subject to 15%
		for all sizes

Cast Iron Drain Pipes and Fittings

Socket and	Spigot Pipes :-	_				
Weight (per 9 ft.)	Size		9 fts.	6 fts.	4 fts.	3 fts.
1.1.8	4" per yard		7/7	8/5	13/1	10/-
1.1.20	4" per yard		7/11	8/7	13/4	10/4
2.0.6	6" per yard		11/5	13/5	21/5	17/2
4.0.2	9" per yard		21/-	26/9	45/6	35/-
			2 fts.	18 ins.	12 ins.	9 ins.
1.1.8	4" each		8/2	6/11	6/1	5/7
1.1.20	4" each	***	8/3		_	_
2.0.6	6" each		12/10	-		
4.0.2	9" each				attended to the same of the sa	_

7	Tonnage Allowances :-
	Orders up to 2 tons nett.
	Orders 2 to 4 tons less 2½%
	Orders 4 tons or over less 5%

4"	6"	9"
7/1	14/8	45/
12/5	25/5	78/-
33/10	56/6	139/
16/5	-	-
1 4/3		-
1 128/7		-
ар		
7y		
29/9	52/6	distant
	12/5 1 33/10 1 16/5 1 4/3 1 128/7	1 7/1 14/8 1 12/5 25/5 1 33/10 56/6 1 16/5 — 1 128/7 — 2 27

Channels in Brown Glazed Ware

Half round straight channels 24" long	each	1/3	1/101	3/41
Half round straight channels 30" long	each	_	_	4/23
Ditto, short lengths	each	1/3	1/101	-
Half round ordinary channel bends		1/101	2/93	5/0}
Ditto, short	each	1/101		
Ditto, long	each	3/9		10/11
Three-quarter round branch bends	each	5/-		_
		$6'' \times$	4" 9"	$\times 6$ "
Half round taper channels 24" long				6/9
Half round taper channel bends				
The above prices are subject to the			those	given
for "Best" quality salt glazed stone	ware	pipes.		

Manhole Covers, etc.

		Black	Galvanized
24"	× 18" single seal for foot traffic. (Weight		
	0.0.3 in lots of 24) each	14/3	28/6
24"	× 18" single seal for light car traffic.		
	(Weight 2 cwts. in lots of 24) each	40/6	81/-
24"	× 18" Wood Block pattern. For road		
	traffic. (Weight 3 cwts.) each	Co	ated 67/6

${\bf JOINER--}(continued)$

		Sun	dries-	-(cont	inu	ed)				1
Building pape	(K	40)				oll l	lot	per y	ard run ard run ered carr.	-/51
Double ply All rolls 28									alf-roll or quantit	ies.
Cut steel clas	p nail	8	1" per	cwt.	39	/3		4" r	per cwt.	30/3
,, ,,	floo	r brads	2"	22	30			3" 1	**	29/-
Bright oval v				99	43	/4		4"	99	31/3
cut points	***	***	***		1"	X	12	gauge	per cwt.	52/-
Scotch glue		***							per cwt.	

STEEL AND IRONWORKER

OTELE THE INCHINORIES			
Steelwork	£	8.	d.
Basis price for rolled steel joists sections $5'' \times 3''$ to $16'' \times 6''$, in 10 ft. to 50 ft. lengths per ton	15	10	6

		Plaste	r and Cem	ent
				1-ton loads
Sirapite (coarse)			per ton	88/6
, (fine)			per ton	87/6
Victorite No. 1			per ton	110/-
" No. 2 o	r non-	sweat	per ton	105/-
Thistle (browning	z)		per ton	88/6
Thistle (haired)			per ton	
Pink plaster			per ton	84/-
White plaster			per ton	93/-
Keene's pink			per ton	138/-
Keene's white			per ton	-
Super Carbo			per ton	
Carbo-setting			per ton	_

8			1 :	ton up	wa	rds
				£	8.	d.
Cullamix No. 2 cream	(rendering	mixture)	per ton fro	m 7	3	6
" No. 3 cream	,,	99	per ton fro	m 7	3	6
Snowcrete mixture	**	**	per ton fro	m 6	18	6

		Sund	ries			
Sharp washed san	nd		***		per yard cube	13/9
Cow hair	***	***	***		per cwt.	46/-
Goat's hair					per cwt.	72/-
Expanded metal	lathing,	9' 0"	× 2'	0.		
$\frac{3}{9}$ mesh \times 26	gauge				per sheet	2/9
Wire Slate nails (galvanized	1) 11" >	(15 ga	uge	per cwt.	62/5
(bright wir	la la		_	ner ewt.	-

%" Plaster board per yard super			Over 300 yds. 1/7	
14" Galvanized nails per cwt.	56/7	,		
Scrim cloth in 100-yard rolls per roll	3/10			

Wall Tiles

The following prices are	subjec	et to 7	5 per	cent. addition :	
Commercial quality.	out of the		o Por	outer addition :	
Ivory, white, etc., glazed	6" ×	6" ×	å"	per yard super	10/1
Angle beads (11 wide)				per yard run	1/23
,, ,, (1" ,,)				per yard run	-/10
Rounded edge tiles	***			per yard run	$2/6\frac{1}{2}$
Coloured enamelled brig	ht gla	zed,		* *	
6" × 6" × ¾"				per yard super	14/3
Angle beads (1½" wide)				per yard run	1/43
,, ,, (1" ,,)				per yard run	-/111
Rounded edge tiles				per yard run	2/7
Eggshell gloss enamelled,	, 6" ×	6" ×		per yard super	15/-
Angle beads (1½" wide)				per yard run	1/71
,, ,, (1" ,,)				per yard run	1/03
Rounded edge tiles		***		per yard run	2/81
Special rates for quantiti	es				

PLUMBER

31 lbs. and upwards milled sheet lead in		
quantities of 5 cwts. and upwards	per ewt.	38/-
Add if cut to sizes	per ewt.	3/-
Lead ternary alloy, No. 2 quality extra over		
sheet lead	per cwt.	7/-
Allowance for old lead delivered to merchant	per cwt.	18/-

DRAINLAYER—(continued)		
Manhole Covers, etc.—(continued)		
Fine Cast Cast iron steps, 131 long, 6" wide, 9" in wall,	Galv.	
approximate weight 5½ lbs. each per dozen 14/9	25/	6
Galvanized fresh air inlets with cast brass 4"	6"	
fronts (L.C.C. pattern) each 6/9	26/	6
MASON		
Yorkstone		
Building quality Robin Hood and Woodkirk Blue	Stone.	
Blocks scrappled, random sizes per foot cube Add for blocks to dimension sizes per foot cube 7	5/7	1
Add for blocks to dimension sizes per foot cube 7	d. (eac	h
· di	imension	1)
Templates with sawn beds, edges rough (up to 4 ft. super and not over 2' 6" long) per foot cube	6/3	
Templates with sawn beds, sawn one edge, per foot cube	7/6	
Templates with sawn beds, sawn two edges, per foot cube	8/9	
Prices f.o.r. Yorkshire, railway rate to London Station	,	
per ton. (Minimum 4-ton loads.)	29/1	
Artificial Stone		
	1/10)
$6'' \times 3''$ Copings and sills per foot run $6'' \times 6''$ Copings and sills per foot run	2/10	
9" × 3" Copings and sills per foot run	$2/2\frac{1}{2}$	
9" × 6" Copings and sills per foot run	$4/0\frac{1}{2}$	
12" × 3" Copings and sills per foot run	2/10)
12" × 6" Copings and sills per foot run Cornices according to detail, per foot cube (from)	4/7 8/3	
connect according to devant, per root case (from)	0/0	
SLATER, TILER AND ROOFER		
Best Bangor Slates		
	£ s. (
24" × 12" per 1,000 actual	58 0	0
$20'' \times 10'' \dots \dots \dots \dots$ per 1,000 actual Prices include for delivery to site in lots of 1,000 and up	38 0	0
$Tiles$ Hand-made sandfaced $10\frac{1}{2}$ " \times $6\frac{1}{2}$ " red roofing tiles	£ 8. 0	d.
per 1,000	8 10	0
Machine-made sandfaced 10½" × 6½" red roofing tiles	0 10	
per 1,000	8 0	0
Berkshire rustic pantiles per 1,000	35 0	0
Asbestos-cement		
t6" corrugated sheets, grev per vard supe	r 3/03	
16" corrugated sheets, grey per yard super \$\frac{85}{2}\$ tandard 3" corrugated sheets, grey per yard super yard yard yard yard yard yard yard yar	$r \ 2/9\frac{1}{2}$	
Slates (Manufacture temporarily suspended):— * 15% × 7% grey per 1 000	£6 15	0
* $15\frac{7}{4}$ " \times $7\frac{7}{4}$ " grey per 1,000 * $15\frac{7}{4}$ " diagonal, grey per 1,000 * $15\frac{7}{4}$ " diagonal, russet or brindled per 1,000	£13 11	6
* $15\frac{1}{4}$ " \times $15\frac{1}{4}$ " diagonal, russet or brindled per 1,000	221 19	6
Pantiles (Manufacture temporarily suspended).		

	†Standard 3" corrugated sheets, grey per yard supe	er $2/9\frac{1}{2}$	
	Slates (Manufacture temporarily suspended):-		
		£6 15	-
	* 153" × 153" diagonal, grey per 1,000	£13 11	-
ı		£21 19	- 6
ı	Pantiles (Manufacture temporarily suspended).		
ı	* Large russet brown per 1,000	-	
l	* Prices are for minimum two-ton loads, and are	subject	10
ı	5% trade discount.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-
ı	† Do., but 31% advance and 5% trade discount.		
ı	Doi, but of 10 autumee and o 10 trade discounts.		
ı	IOINED		

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JUINER		
' Asbestos-cement and Asbestos I	Products	
†# Semi-compressed flat building sheets, gr	ev	
†# Ditto	per yard super per yard super per yard super and are subject t ount.	1/4 1/11
$^{\circ}_{8}$ " Asbestos wallboard (in sheets 8′ 0″ \times $^{\circ}_{8}$ " Ditto $^{\circ}_{8}$ " Asbestos wood (in sheets 8′ 0″ \times 4′ 0″) *Prices are for orders of 2 tons and ov	per foot super per foot super per yard super	$-/4\frac{5}{8}$ $-/3\frac{3}{4}$ $2/4$
The following asbestos prices are subject	to 10 per cent.	trade
discount:— Asbestos-cement stipple glazed sheets (in s	heets	
8' 0" × 4' 0" and 4' 0" × 4' 0") Ditto, plain white glazed sheets (in	per yard super	8/-
sheets 8' 0" × 4' 0" and 4' 0" × 4' 0") Marble glazed sheets (in sheets	per yard super	9/6
8' 0" × 4' 0" and 4' 0" × 4' 0".) I' Asbestos Insulating Board	per yard super per foot super	
f" Fireproof plaster board per yard super f" Ditto per yard super Joint tape (approx. 250 feet run) per roll Joint filler per lb.	2/3 1/11	600 yards 1/9 1/7

1	Sur	ndries		
Slaters or sarking felt	***	***	***	per yard run- /9
Roofing felt (1-ply bitumen)		***	per yard sup 1/-
Bituminous hair felt				per roll 58/-
All rolls 25	yards	long	by 32"	wide.

PLUMBER—(continued)

. Cast Iron Goods

	Percentage Adjustmen on List No. 3100 A.B 1/2/40
Rainwater Goods (painted or unpainted) Soil goods (coated or uncoated)	Plus 121%

Mild Steel Rainwater Goods The following prices are subject to 2½ per cent, trade discount and

32½ per cent. advance.	- 2 1				
24 gauge rainwater slip jointed p					
	2"	21"	3"	31"	4"
Galvanized round pipes with					
ears per 6' 0		3/11	3/9	4/3	4/9
Painted round pipes with ear					
per 6' 0		2/9	3/11	3/71	4/-
Painted or galvanized shor		10	100	1.0	
lengths with ears, extra eacl	h -/6	-/6	-/6	-/6	-/6
18 Gauge gutters. 3"	31"	4"	41"	5"	6"
Galvanized half round	•		-		
gutters per 6' 0" 2/-	2/3	2/41	2/9	3/-	3/71
Painted half round gut-					
ters per 6' 0" 1/6	1/9	2/-	2/3	2/6	3/-
Painted or galvanized					
short lengths extra					
each -/3	-/3	-/3	-/3	-/3	-/3

Asbestos-Cement Rainwater Goods

The following prices are subject to 15 per cent, advance and $12\frac{1}{2}$ per cent, trade discount.

Orders over £30 are subject to 17½ per cent. trade discount.

Rainwater pipes.

Prices are for 6'0" lengths, and 10'0" lengths in 2", 2½" and 3" diameters. Short lengths up to 2'0" are charged as one yard. From 2'0" to 4'0" charged as 1½ yards. From 4'0" to 6'0" charged as 2 yards. Over 6'0" charged as 10'0".

Round pipes.

~-					
2"	 	***			per yard run 1/10
2½" 3"	 			***	per yard run $2/0\frac{3}{4}$
	 				per yard run $2/5\frac{3}{4}$
3½" 4"	 ***	***	***		per yard run 2/111
	 				per yard run $3/4\frac{3}{4}$
4½" 5"	 				per yard run 4/101
	 				per yard run 5/91
6"	 ***	***	***	***	per yard run 7/13

Gutters.

Short lengths of gutter up to $2'\,0''$ charged as 1 yard ; from $2'\,0''$ to $4'\,0''$ as $1\,\frac{1}{2}$ yards, and over $4'\,0''$ as 2 yards.

Half round gutters 3'	4"	41"	5"	6"	8"
per yard run 1/3			1/11	2/8	$3/3\frac{1}{2}$
Ogee gutters per yard run —	1/11	2/04	2/53	3/01	3/111

INTERNAL PLUMBER

Lead pipe in	coils	5 cwts.	and upv	vards		per	cwt.		38/6
Lead soil pip	ю	***				per	cwt.		42/6
Add if ribbo			***				cwt.		-/6
Lead ternary	y allo	y, No. 2	2 quality	extra	over	lead	pipe		
						per	cwt.		7/-
Plumber's so						per	cwt.		145/-
Tinman's sol	der	***				per	cwt.		200/-
Drawn lead	traps	with br	ass screw	eye, 6	lbs.	-			
					1"	1	1	11"	2"
S. trap			e	ach	2/5	1 2	/111	3/8	5/23
P. trap		***	е	ach	2/2	1 2	41	2/51	3/5
Extra for 3"	deep	seal	е	ach	-/6	-	/6	-/6	-/6

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

d over 1"	2"	1"	11"	11"	2"
per ft/51	$-6\frac{3}{4}$	-/91	1/1	1/41	1/10
long					
each 1/1		1/11	2/8		4/9
each -/11	1/2	1/71	2/71	3/2	5/2
each 1/1	1/3	1/6	2/2	2/7	4/3
each 1/2	1/5	1/8	2/4	2/10	4/8
each 1/3	1/7	1/10	2/6	3/1	5/1
each 2/9	3/3	4/1	5/6	6/7	10/6
each -/4	-/5	-/6	-/8	-/101	1/3
each -/6	-/7	-/9	1/-	1/4	2/-
each 1/-	1/2	1/4	1/9	2/-	2/9
each -/5	-/6	-/8	1/-	1/3	2/-
each -/4	-/5	-/6	-/8	-/10	1/3
	per ft\(\bar{1}5\frac{1}{2}\) long each 1/1 each -/11 each 1/2 each 1/3 each 2/9 each -/4 each -/6 each 1/- each 1/-	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{llllllllllllllllllllllllllllllllllll$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{llllllllllllllllllllllllllllllllllll$

INTERNAL PLUMBER—(continued)

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

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

are subject to the	MILLANDING	trade discount		
	0	Tubes	Fittings	Flange
" Light Weight "		511%	471%	431%
"Heavy Weight"		44%	391%	431% 331%

COPPERSMITH AND ZINC WORKER

Conner

Coppe			
Hot rolled copper sheeting in 1 cwt. lots,	all		
gauges to 24 wire gauge		per lb.	-/11
Light gauge copper tube, solid drawn		per lb.	1/31
Copper tube, solid drawn screwing sizes		per lb.	1/21
Copper wire, 10 and 12 gauge		per lb.	1/1
Copper nails, 1" and up	011	per lb.	1/14

GLAZIER

IN CRATES OF STOCK SIZES

Sheet Glass cut to size (ordinary glazing quality)

18 oz. clear she	et				per	300	foot	case	53/4
24 oz. ditto			***	***	25	200	22	44	.55/-
32 oz. ditto	* * *				9.9	200	9.0	9.0	89/4
Obscured sheet	glass ne	et extra	***						
h" figured rolled	d glass,	white an	d cath	edral					
		per foot	super	-/7書					
l" ditto, norma	al tints	per foot	super	-/10	}				

British Polished Plate Glass cut to size

Ordinary 1" S In Plates not		Glazing for Glazing Purpos	Selected Glazing	Silvering Quality
2 ft. super	per foot	super 2/2	2/4	2/10
3 ,,	per foot	super 2/6	3/-	3/9
5 ,,	per foot	super 3/-	3/6	4/3
*45 ,,	per foot	super 3/6	4/-	5/5
*100 ,,	per foot	super 4/6	5/7	7/2
*Plates exce	eding 100 ft.	super or 160	in. long or 100	in. wide
at higher price		d he obtained	for other one	liting and

Special quotations should be obtained for other qualities and thicker substances.

Wired Glass Cut to Sizes

1" Rolled or rough cast		***	per ft. super	101d.
‡‡-in. Georgian rough cast			per ft. super	11d.
‡‡-in. Georgian polished plate	- 1		per ft. super	3/2
Supplied in sizes up to 110 if For cutting to allow for w				

‡ For cutting to allow for wires in adjacent pieces to be "lin up," add 4d. per foot super.

PAINTER

White ceiling distemper	***	per cwt.	16/0
Washable distemper			60/-
Petrifying liquid			-3
Ready mixed white lead paint			
lots, in 14 lb. tins		per cwt.	91/0
White enamel			27/0
Stiff white lead, genuine E		ber gamen	20,0
process, 1-ton lots, in 1-cwt.		per cwt.	67/-
Driers		per cwt.	52/-
Linseed oil raw (5-gallon drums)	per gallon	
, boiled ,, ,,	***	per gallon	
French polish		per gallon	12/0
Knotting	*** ***	per gallon	16/-
Oil stain	*** ***		12/-
Varnish, oak	***	per gallon	15/-
,, copal		per gallon	20/-
Varnish, flat		per gallon	24/-
Turpentine, genuine American,			4/-
Creosote, 1-gallon lots		per gallon	1/9
Putty		per cwt.	22/3
Size			4/6
Best quality English gold leaf,			3/2
Extra thick, ditto		per book	41-
Esaura unica, ditto	***	her nook	41-

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6/6 00/-11/6 17/6 17/-2/6 6/-2/-5/-0/-1/9 2/3 4/6 3/2 4/-



THE ARCHITECTS' JOURNAL LIBRARY OF PLANNED INFORMATION

DETAILS OF RUBEROID (SLATE-SURFACED) STRIP ROOFING SLATES (for pitched or

1. OCTAGONAL SLATES: SCALE In = 1 jool .

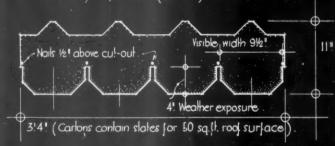
STANDARD, 1 strip = 4 states (as shown) 5 nails per strip.

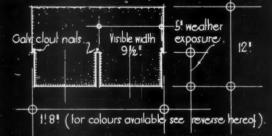
RUSTIC , 1 strip = 2 states (20 x 11) 3 do.

2. TWIN-BUTT SLATES:

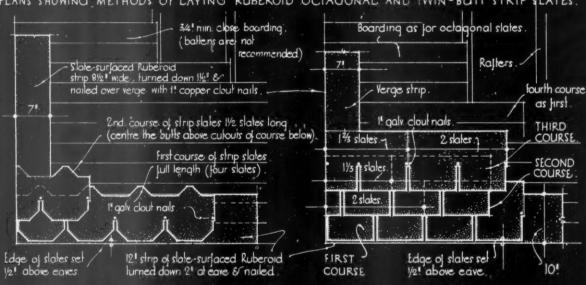
STANDARD & RUSTIC, 1 Strip = 2 slates, 3 nails per strip.

Cartons contain slates for 33 1/2 sq. ft. 100 surface.

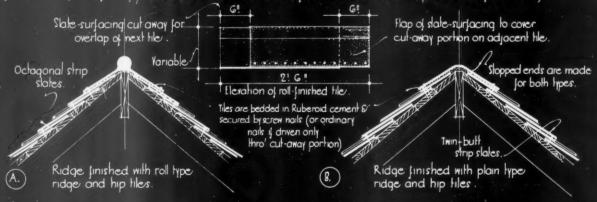




PLANS SHOWING METHODS OF LAYING RUBEROID OCTAGONAL AND TWIN-BUTT STRIP SLATES



ALTERNATIVE FINISH TO RIDGES AND HIPS WITH RUBEROID PATENT RIDGE & HIP TILES. (NOTE! Clay hile Jithings, or lead dressed over 2! half-round wood roll may be used if desired.)



Isrued by The Ruberoid Company Limited.

INFORMATION SHEET: SLATE-SURFACED STRIP ROOFING SLATES.
SIR JOHN BURNET TAIT AND LORNE ARCHITECTS ONE MONTAGUE PLACE BEDFORD SQUARE LONDON WOL

THE ARCHITECTS' JOURNAL LIBRARY OF PLANNED INFORMATION

INFORMATION SHEET · 881 ·

ROOFING

Subject: Ruberoid 4: Ruberoid Slates.

Description:

Ruberoid slates consist of Ruberoid (described in previous Sheets of this series) surfaced with natural slate and cut into slate form. They are suitable for all pitched or curved boarded roofs and may be laid by the general contractor.

There are two standard patterns, Octagonal and Twin Butt, the first being available in strips of four slates with Standard (smooth) finish, the Rustic (coarse) finish, and the Twin Butt type being made in strips of two slates only with similar finishes. Both shapes are supplied in three colours: Venetian Red, Westmorland Slate Green and Steel Blue.

The finish is obtained by rolling specially selected crushed natural slate into the surface of the Ruberoid in such a manner as to form a closely compressed, permanently and evenly coloured face. Slates having the Rustic finish are given a double coating of the slate over the weather portion. colours, being natural to the slate, do not

Properties:

Ruberoid slates are proof against weather conditions, including snow, frost, driving rains, sea air and tropical sun. They are light and portable, and free from breakage and damage in transit. They give a particularly pleasing effect to any roof. When fixed, they will not crack or slip.

Approximate weights per 100 sq. ft. of roof surface are as follows:

Octagonal slates, Standard 180 lb. Rustic Twin Butt slates, Standard 210 lb. Rustic

Visible width and gauge are shown on the diagrams.

Laying and Fixing:

Roof pitch must not be less than 30 degrees and the boarding should not be less than a in. T. and G. or I in. close-butted, up-

standing edges planed and nails well sunk.

The laying of both shapes of slate begins with the fitting of strips of slate-surfaced Ruberoid (81 in. wide at verge, 12 in. wide at eaves) and nailing them into the edge of the boards with I in. copper clout nails supplied. These strips should dress down $\frac{1}{2}$ in. to I in. below bottom edge of boarding. The first course of slates should be laid parallel to the eave, the lower edge set back in. from the edge, keeping the strips in close contact side by side.

The first course of Octagonal slates is then started with a complete strip of slates, second course with a strip of one-and-a-

half slates, alternating up to the ridge. The first course of Twin Butt slates is started with a complete strip of two slates, second course with a strip of one-and-a-third slates. third course with one-and-two-thirds slates, alternating up to ridge.

Each strip should be secured with I in. galv. clout nails, driven in 1 in. above each cut-out, so that the nail heads will be covered by the butts of the next higher course of slates. On exposed sites it is advisable to put a dab of Ruberoid Mastic on the underside

If desired, the slates can be laid in courses of different colours, or formed in square and diamond patterns.

Fittings:

Ridges and hips are formed either by using the patent Ruberoid ridge and hip tiling shown in the drawings, or by dressing an 81 in. strip of slate-surfaced Ruberoid over each side of the arris, and nailing with copper clouts every 2 in. along each edge.

Valleys and gutters should be built-up with two layers of Ruberoid, bedded together with Ruberoid Mastic, the top layer being of slate-surfaced Ruberoid of same colour as the slates. The material should be laid in widths of 18 in. At bottom of gutter, nail edges of under-layer of Ruberoid every 18 in. and secure the upper sheet by coating with Ruberoid Mastic over the entire surface.

Flashings should be formed either in Standard or Slate Surfaced Ruberoid Roofing, cut wide enough to allow for carrying up and turning I in. into a chase provided, and returning 3 in. on to the flat. If lead cover aprons are used, the Ruberoid flashing may finish I in. short of the chase. Lead cover aprons should be cut I in. to 2 in. short of the roof level.

Previous Sheets:

Previous Sheets dealing with Ruberoid roofing and waterproofing materials are Nos. 267, 304, 402, 404, 407, 873, 876 and

Issued by: The Ruberoid Company Limited. Address: Head Office: Commonwealth House, 1-19, New Oxford Street, London, W.C.I. Telephone: Holborn 9501.

Registered Office: Meadow Mills, Stonehouse, Telephone: Stonehouse 212.

BRANCHES:

Newcastle-on-Tyne: Station Road, Walker. Telephone: Wallsend 63061.

Birmingham: 661 Corporation Street. Telephone: Central 2079.

Manchester: 708, Chester Road, Stretford. Telephone: Trafford Park 1832.

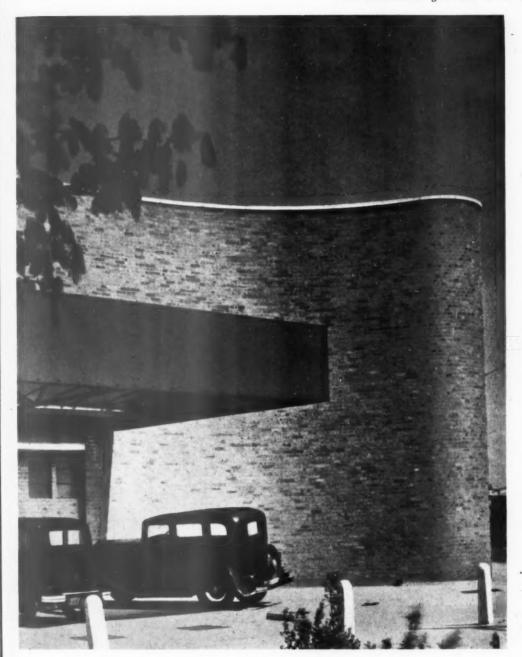
Edinburgh: Caroline Park, West Shore Road, Granton.

Telephone: Granton 84041.

Belfast: 57 & 59, Great Patrick Street.

Telephone: Belfast 26808.

Dublin: I, Aston Place. Telephone: Dublin 23107.



GARAGE AT HATTON

BY ROPER, SON AND CHAPMAN



FRONT ELEVATION

SITE—Provision had to be made to meet the requirements of the local and county authorities, including increasing size of sweeps at corners of roads and future road widening.

PLAN—Convenient and easy access by vehicles to petrol pumps from road. Covered way over petrol pumps.

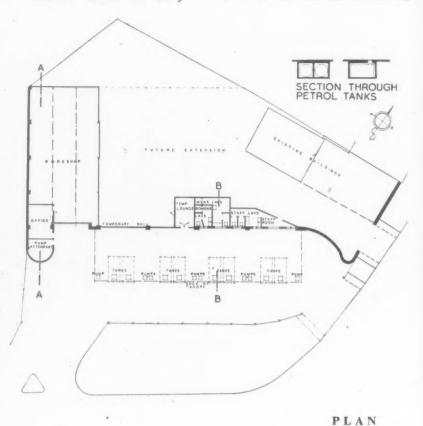
CONSTRUCTION AND EXTERNAL FINISHES—Steel canopy in front; steel framed structure; brick filling and external walls; flat roofs, asphalt on joists and boarding; workshop

254] THE ARCHITECTS' JOURNAL for October 15, 1942

GARAGE AT HATTON, MIDDLESEX

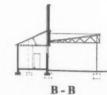
BY ROPER, SON AND CHAPMAN





WEST ELEVATION





roof, steel trusses covered with corrugated asbestos and lined on inside with fibre board to reduce heat loss; internal walls, brick; floors, concrete, cement and sand faced; office and lounge, magnesite flooring. The external facing bricks were selected for colour; windows, metal.

INTERNAL FINISHES—Offices, etc, plastered and painted walls; workshop, silica brick interior facings. Floors, office and lounge, magnesite flooring; workshop, concrete.

SERVICES—Gas heating to workshops.

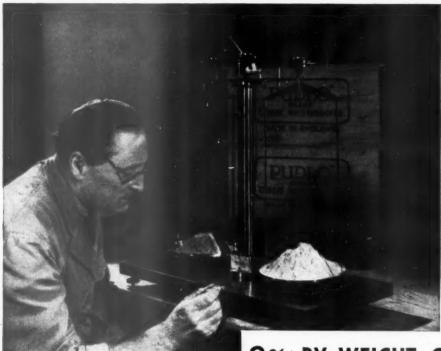
COST-£4,660.

For names of general and sub-contractors see page xxviii.

Above, Petrol pump attendant's office. Right, the main front.



DOUBLE THE BULK for THE SAME WEIGHT



BALANCE BY BAIRD & TATLOCK.

2% BY WEIGHT GIVES MORE THAN 4% BY BULK

The active constituents of a waterproofing compound when reduced to their most concentrated state are powders. 'PUDLO' Brand waterproofer is a powder and it is readily mixed, in the definite predetermined proportion, with the cement - also a powder. If water were added to make it into a paste or liquid, to be mixed with the gauging water, the proportion to the cement would vary according to the amount of water used, and it is authoritatively stated (vide "The Architects' Journal," Feb. 1, '34) that "there is no satisfactory method of specifying the exact amount of water which must be used for any mix, to give the maximum strength." You would also have to pay, indirectly, carriage on the water added to make the paste or solution, which would be foolish when this water can be obtained on the site at an infinitesimal cost. Most important of all is that, owing to the dry concentrated form of 'PUDLO' Brand waterproofing powder, and the fact that Portland cement is twice as heavy, bulk for bulk, the percentage—which is always specified by weight—is more than doubled by dry bulk measure. The actual proportioning on the job is done, very simply, by measure; thus, if 5% by weight is specified, one part of 'PUDLO' Brand waterproofing powder is added to nine equal bulk measures of the dry cement.

'PUDLO' BRAND CEMENT WATERPROOFER

Ask for a copy of The Hydraulic Test—post free.

KERNER-GREENWOOD & COMPANY, LIMITED KING'S LYNN

Sole Proprietors and Manufacturers

ROLLED GLASS is a translucent glass and is

manufactured in the following types:-

(a) ROUGH CAST DOUBLE ROLLED Both surfaces are of irregular texture. Thicknesses $\frac{3}{16}$ ", $\frac{1}{4}$ ", and $\frac{3}{8}$ "

(b) PLAIN ROLLED Thicknesses \(\frac{1}{8}\)", \(\frac{3}{16}\)" and \(\frac{1}{4}\)" One surface is impressed with a pattern consisting of narrow parallel ribs (19 to the inch). The other surface is flat.

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(c) NO. 2 FLUTED ROLLED Thickness 3"

Similar to Plain Rolled but with wider ribs (11 to the inch).

1" Rough Cast Double Rolled is commonly used for skylights and roofing in public buildings, warehouses, factories, workshops, etc., where the extra protection afforded by Wired Glass is not considered necessary, and for vertical glazing in factories, warehouses etc., where a transparent glass is not required.

Plain Rolled and No. 2 Fluted Rolled are used as alternatives to Rough Cast Double Rolled where diffused light is required. It should be noted, however, that a ribbed glass is difficult to clean as it is much more liable to collect dirt than a glass without ribs.



Bay of a machine shop glazed with 1" Rough Cast Double Rolled

This is published by Pilkington Bro:hers, Limited, of St. Helens, Lancashire, whose Technical Department is always available for consultation regarding the properties and uses of glass in architecture.

LONDON OFFICE AND SHOWROOMS AT 63 PICCADILLY, W.1 · TELEPHONE: REGENT 4281 where architectural students may get advice and information on all questions relating to the properties of glass and its use in building.

LITERATURE

MORE RECONSTRUCTION

The flood of literature on reconstruction continues and it seems evident that almost everyone who can write, and many who cannot, are indulging in this contemporary form of escapism. Apart from those pioneers, who not so long ago were labelled either saviours or dangerous fanatics, practically every section of the community now has its reconstruction scheme. Ironically enough, only too often, those who are loudest in their condemnation of the evils of the last peace are just those who contributed the most towards them; that "reconstruction" will obviously be the king-pin of post-war sales campaigns may have something to do with it. Be that as it may, there is no doubt that all this propaganda will do a vast amount of good, as it helps to create discontent and stirs complacency. both of which lead to a desire for something better; albeit some confusion may exist as to quite what form that something better is to take.

Design for Britain

Under the title "Design for Britain"* the Co-operative Permanent Building Society have issued a series of booklets by well-known authors and specialists on various aspects of re-development. The titles so far issued are as follows :-

1. Signposts of Building Society Finance, by Arthur Webb, J.P.

2. An Old Countryside for New People, by

An Old Countryside for New Yeopis, 67
 C. E. M. Joad.
 Challenge to Youth, by Graham Seton.
 National Planning and Re-development, by H. P. Cart de Lafontaine.
 Industrial Background of Housing, by

. Harry Jones.

Rating and Taxation in 'the Housing Scheme, by F. C. R. Douglas.
 The People's Food, by S. Henning Belfrage.

11. Cottages and Countrymen, by F. Streeton

Steed, F.S.I.

12. Post-War Homes, by Henry Vaughan Lanchester.
Design for Labour, by R. Coppock and

H. Heumann.

14. Plan for the New Architecture, by W. R.

Davidge.

15. Castles in the Street, by Ethel Mannin.16. House Ownership and Tenure, by B. E. James.

Housing in a Well-planned Britain, by Edwin C. Fairchild.

It is perhaps unfortunate that a series professing to deal with design should have such an execrable design for its cover. Printed in orange and green, it is decorated with a nauseating little pair " semi-detached," and lettering of no less than eight different sizes.

Whilst some of the booklets are frank and apparently sincere propaganda for the building society and co-operative movements, the authors on the whole avoid these subjects and concentrate on the broad and usually familiar aspects of reconstruction. Of special interest to architects should be Mr. Streeton Steed's essay. Here is a man who is obviously really familiar with the problem of the Rural District Council and the part it might take, and certainly has not taken, in evolving a real rural

Many of the authors are loud in their condemnation of speculative Tudor and similar pre-war building types, but there is little indication of the actual form of building that is to take its place. True, Mr. Davidge writes of a "new architecture" that is "largely a matter of line and proportion "but as another author in this series would say "it depends what you mean by line and proportion." Certainly it is doubtful whether any member of the MARS Group would agree that a bank designed to the system of proportion accepted by Peruzzi was an example of the new architecture. Doubtful, too, whether they would agree with Mr. Davidge in bracketing Stockholm Town Hall with Highpoint, Highgate.

Interesting that many of these booklets are, there will be some who would be far more interested to learn in just what form the Co-operative Building Society itself envisages post-war housing-still more green fields covered with semidetached at twelve to the acre? or a more concentrated form of building with corresponding increase in communal open space?

Britain Rebuilt

There is no vagueness as to what form rebuilding should take in Mr. Eric S. de Maré's book "Britain Rebuilt,"† He knows what architecture is and proceeds to explain it in the now familiar - familiar to architectural students anyway-terms of sociology, new materials, new methods, standardization, mass-production, pre-fabrication, fitness for purpose, and so on. In sixty odd pages, not only does he deal with modern architecture but with town and country planning, the machinery for putting rebuilding into operation, and the Social Credit technique of national accountancy. Obviously, he can do no more than skate quickly over the surface of such vast subjects, but in so far as his remarks on architecture are concerned, few architects who have thought at all about the subject will disagree with him. In the field of Town Planning, Mr. de Maré envisages—presumably through the age of leisure that social credit is to make possible-that there will be three distinct types of town, namely, production centres, cultural and re-search centres and dwelling centres.

Sixty Years of Planning
On the other hand the Bournville
Village Trust have recently published
a booklet entitled "Sixty Years of
Planning," price 1s., which demonstrates that a vigorous community can be built up around a factory and that production and labour are not incompatible in so far as environment is concerned. This publication is propa-† Britain Rebuilt. Social Credit Party Jackson Ltd. Price 2s. 6d. Sedgwick

ganda for popular consumption on the garden city movement. It is full of pictures of cottages, housing estates, and garden suburbs and has the now inevitable comparative photos of good and bad; the bad being of course slum courts, the "good" in this case being the detached and semi-detached "cottages" one finds in this form of development. There is little architecture and no sense of urbanity; that is excepting in a preliminary historical review where two pictures of Georgian terraces effectively damn all that follows. FREDERICK GIBBERD.

BOOKS RECEIVED

By John Russell. Shakespeare's Country. Contents: Shakespeare and Stratford; Social and Economic History; Houses and Some People; Churches in the Shakespeare Country; Town and Country. Publishers: B. T.

People; Churches in the Shakespeare Country; Town and Country. Publishers: B. T. Batsford, Ltd. Price 10s. 6d. net. Housing in Scandinavia. By John Graham, Jnr. Contents: Land for Housing; Municipal Housing; Housing Societies; Rural Housing and Colonization; Applied Philosophy. Publishers: Chapel Hill. Price 15s. net. Town Planning and Road Traffic. By H. Alker Tripp, C.B.E. Contents: Town Planning and Traffic Control; The Science of Traffic Control; The Science of Traffic Control; The Science of Traffic Control of Planning; The Design of Roads for Traffic Requirements; Survey of Existing Town Layout; Suburban Layout; In the Country and the Villages: Traffic Signals in Town Planning. Publishers: Edward Arnold & Co. Price 10s. net.

R.I.B.A. NEW MEMBERS

The R.I.B.A. have elected the following members :-

As Hon. Associate (1)
Orme, Francis Stephen, M.A. (Parkstone, Dorset).

Arnold & Co. Price 10s. net.

Orme, Francis Stephen, M.A. (Parkstone, Dorset).

**A Fellows (8)

**Blomfield, Austin, M.A.OXON, (London); Button, Frederick Charles, Fs.1, (London); Ellis, Miss Mary Feodore Ruth (London); McCrea, William (Glasgow); Moore, Ernest Josiah Edwards (Portheawl); Pett, Harold Milburn (Hove); Turner, Ralph Henry, B.ARCH, (Liverpool) (Rheola, near Resolven, Glam.); Winslade, Morris Lester (London).

As Associates (6)
Fox, Miss Margaret Mary, DIP.ARCH. (Leeds) (Leeds School of Architecture) (Batley, Yorks.); Gibson, Charles Edward Dehaney (Architectural Association) (Wrington, near Bristol); McCallum, Ian Robert More (Architectural Association) (London); Magany, George Edgar (Architectural Association) (Newcastle-upon-Tyne); Marks, Jack, DIP.ARCH. (Nottingham) (Nottingham School of Architecture) (Nottingham); Wilton, James Owen (The Polytechnic, Regent Street, London) (Illford).

ham School of Architecture) (Nottingham); Wilton, James Owen (The Polytechnic, Regent Street, London) (Illord).

As Licentiales* (46)
Aers, Harry James MacArthur (London); Allen, Norman James (Chester): Badcock, Leonard Roy (London); Batstone, Robert Stanley (London); Blillington, Norman (Congleton): Brown, William Colin (Macclesfield); Buckley, Frank Edwin (Southport); Cathrow, Charles Rene (Surbiton); Chettle, George Hulbert (London): Cunliffe, William Henry (London); Denny, Thomas James (Launceston, Cornwall); Dickinson, Frank (Blackpool); Dominicus, Edgar Louis (Southport); Ellis, William, Jr. (St. Helens, Lanes.); Evans, Edwin John (London); Fielding, Ratcliffe (Manchester); Foreman Herbert Edwin (Windsor); Foster, Cecil Jack (London); Greenwood, Charles (Chester); Grimshaw, Leonard John (London); Harvey, Edward Frank (Lewes, Sussex); Hutber, Frederick Hubert (London); Inions, Walter Ernest (Liverpool); Kirkham, George (Bamber Bridge, near Preston); Lewis, Walter (Liverpool); Lloyd, Cyril John Philip (Haverfordwest); Long, George Frederick (London); May, Edward Wilson (Old Bracknell, Berks.); May, Harold George, B.S., F.S.I., AM.T.P.I. (London); Nay, Edward Wilson (Old Bracknell, Berks.); May, Harold George, B.S., F.S.I., AM.T.P.I. (London); Newham, Stephen Elliott Kinvig (Liverpool); O'Connor, Vincent (Newcastle-upon-Tyne); Pilling, Randolph Smith (Simonstone, near Burnley, Lanes.); Poulson, John Garlick Llewellyn (Pontefract, Yorks.); Poulson, John Garlick Llewellyn (Fontefract, Yorks.); Prosser, William Gorge (Lewes, Sussex); Rees, Elwyn James (London); Rose, Cyril Gilbert (London); Summerfield, John William (Liverpool); Finhomson, Ronald Hamilton (Rotherham, Yorks.); Williams, William (Bangor, N. Wales); Winbourne, Hyman (Walsall); Wright, Ernest James (Ormskirk).

Design for Britain. Co-operative Permanent Building Society. Price 6d. net each booklet.

WAR DAMAGE COSTS

The War Damage Commission has informed the National Federation of Building Trade Employers that travelling expenses are to be allowed for London workmen as part of the cost of making good war damage.* The Commission states that where workmen are, in accordance with ordinary practice, sent from a shop or job within the London area to another job within that area, the Commission is prepared (subject to what is said in the following paragraph) to accept as part of the proper cost travelling expenses in accordance

is prepared (subject to what is said in the following paragraph) to accept as part of the proper cost travelling expenses in accordance with the following scale:

The shop or job from which the workman is sent is to be regarded as the centre for measuring the distance. Workmen who are sent from the shop or job shall be allowed expenses, and time at standard rates occupied in travelling one journey only to and from the job and, in addition, as follows:

(a) If the distance be not over two miles, any extra expense incurred daily by the workman over and above the amount he would have to pay for travelling from his home to the shop or job from which he is sent.

If the distance be over two miles measured in a direct line, paragraph (a) does not operate, and an allowance shall be paid in accordance with the following:

(b) Over two miles and up to five miles, 9d. per day.

(c) Over five miles and up to the miles, 1s. 3d. per day.

(d) Over ten miles, 1s. 10d. per day.

The Commission points out that this must not be taken as implying that so long as the distance the workmen are sent does not exceed fifteen miles a charge for travelling time on the above basis will automatically be accepted as reasonable. Building labour (other than the contractor's permanent key men) will normally be expected to be engaged locally at the site, and the Commission must reserve the right to question the necessity for moving labour even within the limit of fifteen miles if it would appear that in fact suitable labour was available nearer to the job.

No charge for travelling allowances at a higher rate than 1s. 10d. per day can be allowed unless it can be shown that labour was not available nearer and the carrying out of the work was urgently necessary. Where these conditions are fulfilled the cost of payment to the men sent from an employer's yard or shop over fifteen miles from the works concerned will be admitted at a rate of 3s. 8d. per day. The Commission cannot undertake to approve in advance what is the proper cost, but it is pre

BUILDING MATERIAL PRODUCERS COUNCIL

The objects of the newly formed National Council of Building Material Producers are as followst:

(a) To represent the collective interests of the Council in all negotiations with the Government in relation to (i) Proposed legislation of action affecting building materials; (ii) War and post-war politics and to act in an advisory capacity to Government when called upon.

(b) To promote increased collaboration between building material producers.

(c) To nominate representation of the Council

on any association or body.

(d) To take such action as may be required from time to time for the promotion of home and foreign trade.

and foreign trade.

A statement issued by the Council says:
It is intended that this body shall represent the building materials section of the building industry in their relations with the other organized sections of the industry already represented on the Building Industries National Council. As an organized body it will promote much closer and more effective collaboration with these sections, as also with the Ministries and Government departments concerned with building policy, both during the war and in the post-war period of reconstruction. Those responsible for its organization are fully conscious of the important contribution the associated producers can make to the national policy of reconstruction, both in its formulation and execution, and are determined that its activities shall be directed to promote the best interests of the community.

* See also page 243.

* See also page 243.

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 War Address:

THE AVENUE, CHEA.M, SURREY. Telephone: VIGILANT 0087

ARCHITECTS' **JOURNAL**

INFORMATION CENTRE

Q 980

STUDENT, BIRMINGHAM.—I desire to become an ARCHITECTURAL DRAUGHTSMAN. I am 19 years of age and was employed by an electrical company as a junior draughtsman until a short while ago when I joined the Royal Air Force. As I am, in consequence, unable to attend any college, a correspondence course is necessary, and I wish you to advise me as to procedure and the best course to take. I have had no experience in building. What salaries can I hope to attain and what are the possibilities of advancement?

For correspondence courses we would advise :-

International Correspondence Schools, Ltd., International Buildings, Kingsway, London,

W.C.Z.
Mr. C. W. Box, F.R.I.B.A., M.R.San.I.,
115, Gower Street, London, W.C.I.
Mr. L. Sturt Stanley, M.A., F.R.I.B.A.,
M.T.P.I., St. Catherine's College, Cambridge.

If cost is of primary consideration you should be able to take a course through the R.A.F. Educational Services, but it would be nothing like a full architectural course. You should be able to obtain particulars through your Education Officer or C.O. but if you have difficulties we

will make enquiries for you.

It is impossible for us to predict what salary you might obtain after the war. A student who has passed his R.I.B.A. examinations but who has had no practical experience, might be expected to start at about £6 a week, but the salary of a student without practical experience and very limited theoretical knowledge, must depend on his keenness, aptitude and personality.

Judging from the amount of rebuilding which will be required, it would seem that there is every hope of advancement in the architectural profession for a person who has some natural aptitude and is prepared to work for his examina-

ASI

O 981

ENQUIRER, GLOUCESTER.—Where can I obtain a book or perhaps individual PLATES ILLUSTRATING clearly the various ORDERS OF ARCHITEC-TURE and their application? I would like a sound authoritative book with large clearly drawn plates.

Practical Notes for Architectural Draughtsmen-Series 1, The Orders, by A. W. S. Cross and A. E. Munby. Publishers: The Architectural Press. Price 15s. 0d.

The Orders of Architecture, by R. P. Spiers. Published by B. T. Batsford.

Price 10s. 6d.

The Orders of Architecture, by A. Stratton and A. Trystan Edwards. Publishers: B. T. Batsford. Price £1 1s. 0d.

The last of these is out of print but is available at the R.I.B.A. Library. If you are a member of the R.I.B.A. you can obtain a large selection of books, including those we have mentioned, through the Lending Library, which runs a postal service. Even if you are not a member you will probably be permitted, on application, to enter the R.I.B.A. Library and refer to books there. It might be worth while your writing to the Secretary of your local Architectural Society, Mr. S. E. Urwin, County Architect, Shire Hall, Gloucester, as if it is possible to see the books at a local Library you would no doubt prefer to do so before buying them.

ARCHITECTS, YORKSHIRE.—We have work in hand for a Government Department which will involve the use of timber. Could you refer us to the most recent official pamphlets issued on the economy of the USE OF TIMBER as applicable to cupboard use.

The only Timber Economy Pamphlet which deals with cupboards is Wartime Bulletin No. 19 issued by the Building Research Station of the Department of Scientific and Industrial Research, obtainable from H.M. Stationery Office, price 1s. 0d. nett. Unfortunately it does not apply specifically to cupboards to any great extent and we understand that this aspect of timber economy may be covered in a future bulletin.

Wartime Bulletin No. 19 is referred to on page 200 of THE ARCHITECTS' JOURNAL

for March 12, 1942.

[†] For names of the President, Vice-Presidents and Secretary see page 243.

PATENT WELDED TUBULAR CONSTRUCTION

Data Sheet No. 6

METHODS OF FABRICATION

This form of construction lends itself admirably to the prefabrication of single storey buildings of any The standard sections (roof trusses, wall frames and columns, and door and window frames) are light in weight and conveniently transportable. Assembly on the site is simply and rapidly effected, the sections being bolted or welded together according to specification. The buildings can be dis-mantled with equal facility, and only the loss of foundations is involved since the various sections all remain available for re-erection-thus it may be said that this form of construction has all the essentials of a permanent building plus the facilities of a portable building. A further consideration is the flexibility of the system, allowing alterations or extensions to be made to existing buildings simply and quickly.

Three alternative methods of fabrication are available:—

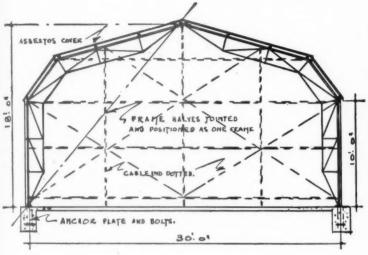
Complete factory prefabrication, leaving assembly only to be carried out on the site.
 Site welding. The welding of the final

fixings and connections is sometimes more satisfactorily effected on the site; where site welding is not practicable or economical special bolt joint or joint plates are supplied for such connections (see Figs. 3 and 4 reproduced from data sheet No. 3).

Site fabrication and welding. In certain

(3) Site fabrication and welding. In certain circumstances complete site fabrication is advantageous. Though more costly than factory prefabrication, in cases where transport costs are heavy and access to the site difficult, and where the fabricated sections required are large in number and simple in design, it sometimes proves economical to erect temporary portable workshops on the site where the fabricators and mobile welding units can execute the whole of their work.

The method to be adopted is in each case dependent upon the circumstances prevailing, and the type and size of the building, or buildings, to be erected, and it is well that proper consideration should be given to these factors before a decision is made.



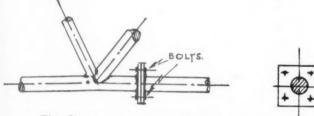


Fig. 3. DETAIL. JOINT FOR SMALL SPANS.

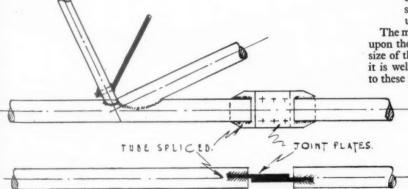


Fig. 4. Bolt connection for larger trusses.

- Speed in erection
- Economy in steel
- Lightness of structure with great strength

NOTE.—These data sheets are appearing weekly in The Architects' Journal—they will be available shortly in complete Folder form and application for these Folders should be addressed to Scaffolding [Great Britain] Limited, 77, Easton Street, High Wycombe, Buckinghamshire

Q 983

ENQUIRER, SUFFOLK.—A converted flat, situated in London, let on a monthly basis, has been occupied only periodically because of the tenant's war-time civil occupation. Whilst the tenant was absent the waste pipe of a lavatory basin froze and a dripping filled the basin which overflowed and caused DAMAGE TO the DECORATIONS in the room below. In addition, when the thaw set in, it was found that there were two burst pipes in the cold water service to the bath and another burst pipe in the rising main near the storage tank in the roof space. Is the landlord justified in calling upon the tenant for repairs?

The liabilities of landlord and tenant depend upon the clauses contained in the Tenancy Agreement, and it is impossible, without referring to this document, to give a satisfactory answer.

Normally, Agreements for short tenancies require the tenant to occupy the premises "in a tenant-like manner" and make him responsible for repairs— "fair wear and tear excepted." The effect of such clauses is that a tenant is only liable for damage brought about by careless or wilful behaviour.

If the tenant took all reasonable precautions we should expect him to be free from the liability of making good damage caused by burst pipes, etc., but if he absented himself from the premises during periods liable to frost and failed to take such precautions as were possible, such as turning off the main and emptying the cistern, we should expect him to be liable.

We should add that Agreements quite often specifically make the tenant responsible for damage caused by burst pipes, etc., and repeat that an opinion can only be given after reference to the document in question.

Q 984

ENQUIRER, YORKS.—What advantage is a STUDENT likely to obtain from being POSTED TO the Pioneer Group of the ROYAL ENGINEERS under the arrangements mentioned in a recent issue of THE ARCHITECTS' JOURNAL?

No particular advantages can be guaranteed to a Student Architect who is posted to the Pioneer Group of the Royal Engineers, under the recent arrangement effected by the War Office, the Ministry of Labour and National Service and the R.I.B.A. We understand that the chief reason for the arrangement is that students scattered amongst different units cannot be employed effectively, whereas if they are grouped together in one unit, there is a greater prospect of their special talents and aptitude being utilized, as occasion demands.

GARAGE AT HATTON

The general contractors for the Garage at Hatton, architects Messrs. Roper, Son & Chapman (see pages 253, 254), were Messrs. W. Lacey (Hounslow) Ltd. The subcontractors were: Salter Edwards & Co., Ltd., asphalt; Johnson's Reinforced Concrete (Square Grip Reinforcement Ltd.), reinforced concrete: Sanders & Forster, structural steel; Hills Patent Glazing, metal doors and windows; Cont. (Corrugated Asbestos) & Tentest Fibre Board Co., special roofings; Hills Patent Glazing Co., Ltd., patent glazing; Stonart Asbestos Flooring Co., patent flooring; Gaş Light & Coke Co., central heating; Arthur Docking & Co., gas fixtures; Brown Bros., electric light fixtures; Alfred Goslett & Co., sanitary fittings, door furniture and cloak room fittings; P. C. Henderson, Ltd., folding door gear.

FORTHCOMING M E E T I N G S

Thursday, October 15.
Geffrye Museum, Kingsland Road, London,
E.2. Design round the Clock Exhibition.
Open 10 a.m. to 4.30 p.m. daily, excluding
Sundays and Mondays, until October 17.

Tuesday, October 20.
Association for Planning and Regional Reconstruction, "Plans for Three Experimental Houses." By E. Neel.

Wednesday, October 21.
Leicester College of Art and Crafts, School of Architecture, 6.15 p.m., "Post-War Housing: Some Planning and Technical Aspects." By D. E. E. Gibson, M.A., A.R.I.B.A., A.M.T.P.I., City Architect of Coventry. Chairman: G. A. Cope, F.R.I.B.A.

A.A., 6 p.m. "Civic Design." By Thomas Sharp.

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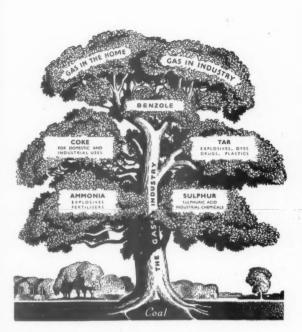
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The War factories need GASsave it

Out of buried forests of the past comes the wealth of British coal; and like a giant tree, from this coal the British Gas Industry has grown up.

The making of gas enriches the nation not only with gas, but with coke and with a wealth of by-products of inestimable service. In addition to benzole, no less than half a ton of coke is made from every ton of coal used in the gas-works. From the tar produced, more than 2.000 substances are obtained—explosives,

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motor spirit, drugs, dyes, disinfectants and plastics, to mention only a few. Ammonia is another byproduct of gas, and provides fertilisers, explosives, and cleaning preparations; sulphuric acid comes from the sulphur extracted in gas-making.

The gas economies you make at home will release more gas for the war factories. Remember that gas, as well as its byproducts, is vital in the Battle for Fuel — so play your part and SAVE GAS.

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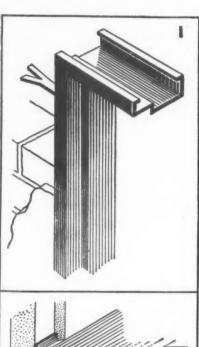
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Give to the Duke of Gloucester's Red Cross and St. John Fund and give a little extra.

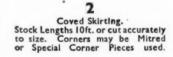
Contributions should be sent to the Fund at St. James's Palace, London, S.W.I.

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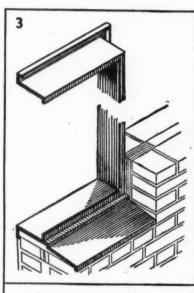


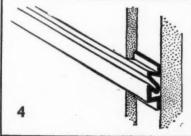
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Advertisements should be addressed to the Advt. Manager, "The Architects' Journal." War Address: 45 The Avenue, Cheam, Surrey, and should reach there by first post on Monday morning for inclusion in the ollowing week's paper.

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

Public and Official Announcements

Six lines or under, 8s.; each additional line, 1s. The Incorporated Association of Architects and Surveyors 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; 75 Eaton Place, London, S.W.1. Tel.: Sloane 5615

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PRINCIPAL: JAMES SIEPHENSON, M.A., M.COM., D.SC.

REQUIRED to commence duties as soon as possible, a Temporary ASSISTANT LECTURER (Male) of British nationality, in the Welsh School of Architecture. Ability in Design and Draughtsmanship and a sound knowledge of Construction, both applied and theoretical, are essential, while preference will be given to Associates of the R.I.B.A. who have passed successfully through a full course of instruction in a "recognized" school of Architecture, and who have professional and teaching experience. The salary will be £300 p.a. untill such time as the Burnham (Technical) scale position overtakes this salary rate.

Forms of applica mon, together with further particulars, may be obtained from the undersigned, to whom they must be returned by the 26th October.

W. J. WILLIAMS,

Director of Education.

City Hall.

City Hall, Cardiff.

MANCHESTER MUNICIPAL COLLEGE OF TECHNOLOGY.

(Faculty of Technology in the University of Manchester).

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ASSISTANT LECTURER IN BUILDING.
The Governing Body invites applications for an
Assistant Lectureship in Building in the College of
Technology, with the title and status of Assistant
Lecturer in the University of Manchester.
Candidates should be qualified to teach Building
Construction and allied subjects.
Salary £300 to £400 per annum; commencing salary
will, be determined according to the experience of the
successful candidate.
Conditions of appointment and form of application
may be obtained from the Registrar, College of
Technology, Manchester. The last day for the receipt of
applications is Monday, 26th October, 1942.
Canvassing, either directly or indirectly, will disqualify
a candidate for appointment.

applications a Canvassing, either directly of an Canvassing, either direct

Architectural Appointments Wanted

REGISTERED ARCHITECT, available shortly, requires whole or part-time post. Experienced in supervising work on site. Designing and drafting, building maintenance and surveys (W. D. claims), variations builders accounts. Salary £450—£500 per annum. Box 491.

DRAUGHTSMAN, last 2½ years civil engineering, requires engineering or building appointment, available September 1. London area. Box 494.

PART TIME WORK, surveys, war damage, etc. Qualified and experienced Senior Assistant offers services in London area. 496

ARCHITECT AND SURVEYOR (Registered), requires responsible position (West or Mid-Wales preferred). Age 36, married, experienced in Factories, Commercial Buildings, Licensed Premises, Hospitals, Alterations to Existing Buildings, One-Eighth Scale Working Drawings, Details, Specifications, Preparing Bills of Quantities, Estimating, Land Surveying and Levelling, Checking Building Contractors' Accounts, Measuring War Damage and Preparing Schedules of Repairs. Salary £9 per week. Box 498.

ARCHITECT'S ASSISTANT (28), having 10 years experience in an architect's office, seeks position as architectural draughtsman or supervisor of works. Experienced in surveying, levelling, the preparation of working drawings and details, and the supervision of work. J. C. O'Dwyer, River View, Ballinacurra, Limerick.

ADAPTABLE YOUNG MAN, 19 (exempt from military service), studying for R.I.B.A., seeks position in architect's office. Extremely keen, practical, willing to do anything connected with architecture? one year office experience; R.S.A. certificate.—Write R. W. Terry, 37, Morley Avenue, N.22. Phone BOW 5366 (after 6 p.m.).

REGISTERED ARCHITECT requires employment on work subject to Essential Works Order or other scheme of National importance. Experienced in surveying and levelling, designing and planning and supervision of all building construction.—Box 4.

CHARTERED ARCHITECT, exempt military service, requires senior post, with possibilities of partnership. Box No. 5.

ARCHITECT'S ASSISTANT, widely experienced, free two days a week, London area. Would undertake usual office duties. Jones, 17, Lichfield Road, Kew Gardens. Tel. Rich. 1737.

ARCHITECT'S ASSISTANT (24) (B.Arch., A.R.I.B.A.), experienced in preparing Sketches, Working Drawings, Details, etc., also supervision and sound construction. Would prefer aircraft design. Box 7.

ARCHITECT'S ASSISTANT (26), requires post, preferably temporary. Experienced surveying and levelling, working drawings and details, for factory work, etc. Good draughtsman. Box No. 9.

ARCHITECTURAL AND CIVIL ENGINEERING DRAUGHTSMAN requires part-time work. Neat and accurate. Box 11.

VERY KEEN YOUTH, studying for R.I.B.A., seeks post in architect's office. Willing to do any work concerning architecture. Four months' office experience. Sec. Ed. Write: R. E. P., 45, Mayfield Road, E.8. 12.

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Classified Advertisements continued on page xxxiv.

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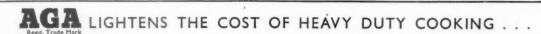
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