THE ARCHITECTS' JOURNAL

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

DIARY NEWS DEC 8 1

from AN ARCHITECT'S
Commonplace Book

ASTRAGAL

LETTERS

PHYSICAL PLANNING

CURRENT BUILDINGS
INFORMATION

CENTRE

Physical Planning
Structure
Materials
Acoustics & Sound Insulation

Lighting
Ventilation

Acoustics Sound Insulation

INFORMATION SHEET

SOCIETIES & INSTITUTIONS

PRICES

Architectural Appointments Wanted and Vacant

No. 2600] [Vol. 100]
THE ARCHITECTURAL PRESS
War Address: Forty-five The Avenue,
Theam, Surrey. Phone: Vigilant 0087-9

Price 9d.

SPAB

TCPA

TDA

Registered as a Newspaper.

★ The war has both multiplied the number of Official Departments and encouraged Societies and Committees of all kinds to become more vocal. The result is a growing output of official and group propaganda. A glossary of abbreviations is now provided below, together with the full address and telephone number of the organizations concerned. In all cases where the town is not mentioned the word LONDON is implicit in the address.

	ress and telephone number of the organizations concerned. In all cases where the mentioned the word LONDON is implicit in the address.
AA ABT	Architectural Association. 34/6, Bedford Square, W.C.1. Museum 0974 Association of Building Technicians. 5, Ashley Place, S.W.1. Victoria 0447-8 Association for Planning and Regional Reconstruction. 34, Gordon
	Square, W.C.1. Euston 2158-9 Architects' Registration Council. 68, Portland Place, W.1. Welbeck 9738 Architectural Science Board of the Royal Institute of British Architects.
BCIRA BDA BIAE DINC HOT ERS	Building Centre. 23, Maddox Street, W.1. British Cast Iron Research Association. Alvechurch, Birmingham. British Door Association. Shobnall Road, Burton-on-Trent. Burton-on-Trent 3350 British Institute of Adult Education. 29, Tavistock Square, W.C.1. Building Industries National Council. 11, Weymouth Street, W.1. Building Research Station. Bucknalls Lane, Watford. British Steelwork Association. 11, Tothill Street, S.W.1. British Standards Institution. 28, Victoria Street, S.W.1. Welbeck 5721 Mayfair 2128 Redditch 716 Euston 5385 Euston 5385 Whitehall 5140 Garston 2246 Whitehall 5073 Abbey 3333
СЕМА	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1. Sloane 5255 Council for the Encouragement of Music and the Arts. 9, Belgrave Square, S.W.1. Sloane 0421
CIPRE CSI DIA	Council for the Preservation of Rural England. 4, Hobart Place, S.W. Sloane 4280 Chartered Surveyors' Institution. 12, Great George Street, S.W.1. Whitehall 5322 Design and Industries Association. Central Institute of Art and Design, National Gallery, W.C.2. Whitehall 2415
DOT EJMA	Department of Overseas Trade. Dolphin Square, S.W.1. Victoria 4477 English Joinery Manufacturers Association (Incorporated). Sackville House, 40, Piccadilly, W.1. Regent 4448
FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1. Sloane 2837
FMB	Federation of Master Builders. 23, Compton Terrace, Upper Street, N.1. Canonbury 2041
FS (Eng.)	Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1.
GG HC HPS IAAS	Georgian Gróup. 55, Great Ormond Street, W.C.1. Holborn 2664 Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1. Housing Production Society. 1, Old Burlington Street, W.1. Incorporated Association of Architects and Surveyors. Sloane 2837 Whitehall 2881 Regent 3380 Incorporated Association of Architects and Surveyors. Sloane 3158
ICE IEE IOB IRA ISE LIDC	Institution of Civil Engineers. Great George Street, S.W.1. Institution of Electrical Engineers. Savoy Place, W.C.2. Institute of Builders. 48, Bedford Square, W.C.1. Institute of Registered Architects. 47, Victoria Street, S.W.1. Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1. Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.
LMBA MARS MOA MOE MOH MOI MOLNS MOS MOT MOTCP	Ministry of Labour and National Service, St. James's Square, W.C. Ministry of Transport. Berkeley Square House, Berkeley Square, W.C. Ministry of Town and Country Planning. 32-33, St. James's Square, S.W.1.
MOW NAMMC	Ministry of Works. Lambeth Bridge House, S.E.1. Whitehall 8411 Natural Asphalte Mine-Owners and Manufacturers Council.
NBR	94, Petty France, S.W.1. National Buildings Record. 66, Portland Place, W.1. Welbeck 1881 All Soule, College Oxford
NFBTE	All Souls' College, Oxford. Oxford 48809 National Federation of Building Trades Employers. 82, New Cavending Street,
NFBTO	W.1. Langham 4041 National Federation of Building Trades Operatives. 9, Ruby Chambers, Ruby Chambers, Ruby Cha
NFHS NT	Street, W.C.1. Holborn 2770 National Federation of Housing Societies, 13, Suffolk St., S.W.1. Whitehall 2881/2/3 National Trust for Places of Historic Interest or Natural Beauty. 7, Buckingham Palace Gardens, S.W.1. Sloane 5808
PEP PWB	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1. Whitehall 7245 Post War Building, Directorate of. Ministry of Works, Lambeth Bridge House, S.E.1. Reliance 7611
RCA RIBA RS RSA SFMA	Reinforced Concrete Association. 91, Petty France, S.W.1. Royal Institute of British Architects. 66, Portland Place, W.1. Royal Society. Burlington House, Piccadilly, W.1. Royal Society of Arts. 6, John Adam Street, W.C.2. School Furniture Manufacturers' Association. 13, New Square, Lincoln's Inn, W.C. Chancery 5313

W.C. Chancery 5313
Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.
Holborn 2646

Town and Country Planning Association 28, King Street, Covent Garden, W.C.2.
Temple Bar 5006

City 6147 Victoria 8815

Timber Development Association. 75, Cannon Street, E.C.4. Town Planning Institute 18, Ashley Place, S.W.1.



Full particulars from the manufacturers :-

The perfect tile for architectural acoustic correction.

BURGESS PRODUCTS COMPANY

ENGINEERS AND CONSULTANTS

HINCKLEY, LEICS.

'PHONE: Hinckley 700 (3 lines).

'GRAMS : Burducto, Hinckley.

THOSE WHO make stringent comparative tests choose



for EMERGENCY LIGHT

in Hospitals, Cinemas, Schools, Banks, Offices, Factories and **Public Buildings**

TUDOR Accumulators are used by Corporations of big cities, who make stringent comparative tests and a close study of costs before placing contracts. Important public bodies—the B.B.C. for example - use Tudor where technical excellence is a first essential. You, too, may specify Tudor with equal confidence. Tudor engineers will gladly discuss your next installation with you. Illustrated catalogue sent on request.

SAFETYLYTE

(Licensed under British Patent No. 313248). Patent No. 313248).
The Tudor Emergency Lighting System completely meets the risk of a sudden plunge into darkness. Should the normal supply be interrupted, through causes beyond the control of the Electricity Undertakings, the control panel that keeps the Tudor Accumulators charged, automatically connects the battery to the nects the battery to the emergency circuit.

THE TUDOR ACCUMULATOR COMPANY, LTD.

50 GROSVENOR GARDENS LONDON, S.W.1

SLOANE 0166/9

An extra room in the loft . . . NFORMATION are available for the installation of LOFT LADDERS

YOU CANNOT AFFORD to waste the loft space in your post-war buildings. Sheets Nos. 199 and 201 show in detail how this space may be made accessible, both in new work and it conversions, and give particulars of construction, balancing units trap doors, finish, erection and prices.

Electrical Installations & Equipment of every kind by



ONE OF THE OLDEST AND LARGEST ELECTRICAL CONTRACTORS IN THE WORL

We have been responsible for the complete electrification of a large proportion of the huge Government factories ESTABLISHED OVER 50 YEARS

129 SLOANE STREET, LONDON, S.W.I

Telephone: SLOane 7133 (3 lines) SLOane 6294 (3 lines). Telegrams: Illumianda, Phone, London

e 262

n your il how and in units

by

O RLI

, Londo



BUILT INTO THE FOUNDATIONS

OF MODERN BRITISH ARCHITECTURE For a Century and a half HORSELEY has been a house-

hold word in British Structural Engineering. This great organisation-originally the HORSELEY COMPANY, later the HORSELEY BRIDGE AND ENGINEERING COMPANY and now HORSELEY BRIDGE AND THOMAS PIGGOTT LTD. has been responsible for Structures of all kinds which are historic-from the first iron steamship and the earliest locomotives to numberless Bridges in Britain and Europe, and modern Steel-Framed buildings of all types including the imperially planned Headquarters of Commercial Aviation in Britain.

HORSELEY-PIGGOTT STEELWORK will play its part in the Reconstruction of Britain.

BRIDGE

TIPTON · PHONE: 1104 HORSELEY WORKS

BAIDGES STEEL FRAMED BUILDINGS . GAS HOLDERS PRESSED SPERIE TANKS OWATER BURNISICATION PLANS



G-A-HARVEY & Co.(LONDON) WOOLWICH RP

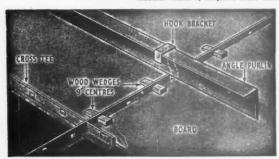


FOR APPLYING ANY TYPE OF BOARD TO CEILING & WALLS

The Wallboard is secured to sherardised, pressed steel, slotted T-section by wedges. Below are shown the methods of attaching the support to various forms of purlin.



Escalator Tunnel of St. John's Wood Underground Station. Architect: S. A. Heaps.





POINTS TO BE NOTED

- Fixed to UNDERSIDE of purlins—steel or wood covering unsightly hook bolts, clips, etc.
- Assures the insulating value of air-space between roof and underside of purlins. No dust or dirt.
- Can be fixed to steel or wood purlins of roofs and joists of flat ceiling. No unsightly nail heads showing.
- Can be applied to new or old buildings of any construction independently of the roofing contractor,
- who proceeds with his work ahead of the AnD Wedge Method.
- 6. Any thickness of board can be used, from $\frac{1}{8}$ " to $\frac{5}{8}$ ".

 7. This method can be used for applying linings to exterior walls.
- The simplicity of application is such that any contractor can apply the AnD Wedge Method, and the materials making up this method can be purchased by the contractor.

Full particulars, specification and a typical layout will be sent on request

C: F. ANDERSON & SON, LTD.

Wallboards for Government Work

Send us your "certificate of requirements" (such as Form/WD/I War Dept.) and we will arrange for licence application to Paper Control HARRIS WHARF, GRAHAM STREET, LONDON, N.I. TELEPHONE: CLERKENWELL 4582

The New Horizon . . 5



Original Painting by Anna Zinkeisen, R.O.I.

Through earth, sea, and heaven a doom shall be driven, And, sown in the furrows it plougheth, As fire bursts from stubble, Shall spring the new wonders none troweth. Francis Thompson—"SONG OF THE HOURS."

Never in the long history of the world have so many nations been engulfed in war. Never has its misery and devastation so deeply affected so many lives. Never have the warped and sickly minds of bestial men wrought such irreparable harm with their ruthless and wanton cruelties. A doom has been driven which has obliterated the old complacencies for ever.

But the righteous fight against all brutal tyrannies has given to all free peoples a flame-quickened consciousness of the rich opportunities which exist for universal progress and understanding. Spreading like fire over stubble is a growing sense of individual responsibility; a unity of purpose that peace and liberty must be ensured for this and future generations.



When the dark and menacing clouds of war have receded from the stark and riven earth, enlightenment will be sown to emerge with a more intense appreciation of the manifold benefits which science can bestow upon an unshackled humanity.

We look forward with hope and confidence to the dawn of this new era when we may dedicate the whole of our research and productive resources to honourable and lasting achievement.

THE UNITED STEEL COMPANIES LIMITED

STEEL, PEECH & TOZER, SHEFFIELD SAMUEL FOX & CO. LTD., SHEFFIELD UNITED STRIP & BAR MILLS, SHEFFIELD APPLEBY-FRODINGHAM STEEL CO. LTD., SCUNTHORPE WORKINGTON IRON & STEEL CO., WORKINGTON THE SHEFFIELD COAL CO. LTD.

THE ROTHERVALE COLLIERIES, TREETON UNITED COKE & CHEMICALS CO. LTD. THOS. BUTLIN & CO., WELLINGBOROUGH



Invisible Panel Warming Association

In the many new buildings which will be required in this country and on the continent after the war, Invisible Panel Warming will inevitably play an important role. The inherent success of this all British invention is the result of the low temperature employed in establishing the final comfort conditions. It affords many advantages and these may be broadly classified as follows:-

> 1. It is healthy. 2. It is economic. 3. It is invisible.

These advantages have been proved in over one thousand important buildings throughout the country.

For technical and further particulars apply to any of the following :-

ASHWELL & NESBIT, LTD., 37, Pembroke Square, London, W.8.

BENHAM & SONS, LTD., 66, Wigmore Street,

BRIGHTSIDE FOUNDRY & ENGINEERING CO. LTD., Sheffield,1.

CRITTALL, RICHARD & COMPANY, LTD., Aldwych House, London, W.C.2. HADEN, G. N. & SONS, LTD., ROSSER & RUSSELL LTD., 19/29, Woburn Place, London, W.C.1.

HOPE'S HEATING & LIGHTING, LTD., London, W.1. JEFFREYS, J. & CO. LTD., Smethwick, Birmingham.

St. George's House 195/203, Waterloo Road,

NORRIS WARMING CO. LIMITED, Burley House, Theobalds Road,

London, W.C.1.

30 Conduit Street,

London, W.1. STEEL & CO. LIMITED,

in S

cub

the

ass

SP

Crown Works, SULZER BROS. (LONDON) LTD.

31, Bedford Square, London, W.C.1.

London, S.E.1. YOUNG, AUSTEN & YOUNG, LTD., 35, Uphill Road,

Mill Hill, London, N.W.7.

or to the Secretaries, Invisible Panel Warming Association, Pinners Hall, Austin Friars, London, E.C.2. 'Phone: London Wall 4286

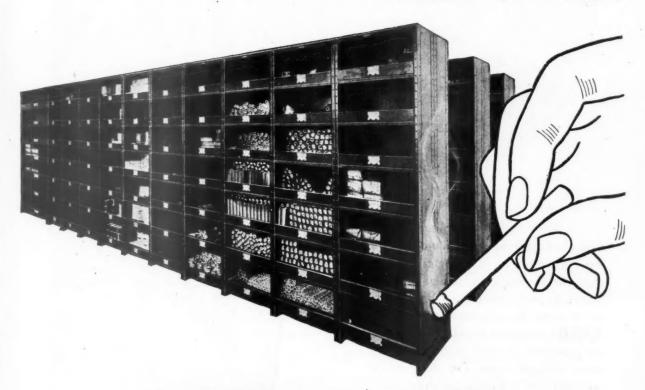
Issued by the

WARMING ASSOCIATION PANEL

formed to promote and to exchange and codify technical information



STEEL DOESN'T BURN You greatly reduce fire risk if you store in Sankey-Sheldon Adjustable Steel Shelving and Bins. And you can store more goods per cubic foot of available space. The Sankey-Sheldon A. B. C. System of Unit storage allows the greatest flexibility. The self-contained stacks are built of standard parts that can be assembled and re-assembled to any plan. Shelves and partitions can be adjusted to the exact spacing required by the goods. Not a cubic inch of space need be wasted. The steel is stove-enamelled, giving a durable finish that is easily cleaned. For low-cost, space-saving storage, consult Sankey-Sheldon.



SANKEY-SHELDON

STEEL EQUIPMENT AND FURNITURE

Chief Office . 46 Cannon Street, London, E.C.4

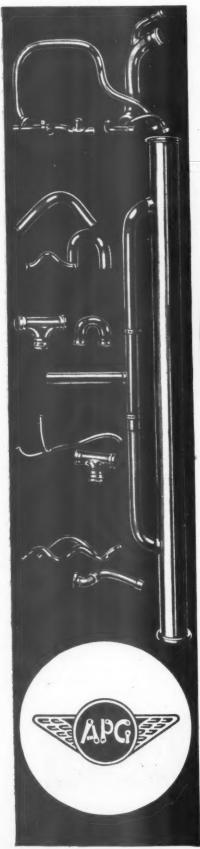


MAGNET JORERY

WHITLEY STREET, BINGLEY, YORKS

WEST THURROCK, GRAYS, ESSEX

ANNE ROAD, SMETHWICK, BIRMINGHAM



PIPES

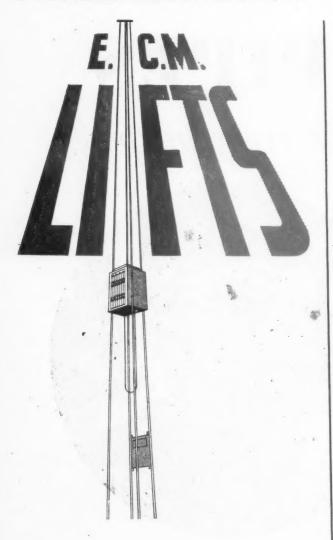
for every purpose



Experimental Prefabricated Plumbing Units have already been prepared by us in copper for Heating and Sanitary Engineers who appreciate the necessity for preparing and obtaining approval to their post-war specifications now. Our priority programme at the moment requires first consideration, but we shall be happy to discuss your post-war needs which may involve the use of manipulated pipes and standard or machined fittings.

AERO PIPE & GLASS CO. LTD.

KINGSLEY WORKS, GRANGE ROAD WILLESDEN GREEN, LONDON, N.W.10



for VERTICAL TRANSPORT

 Architects, Engineers, Production Managers and others responsible for the erection and equipment of modern buildings are invited to consult

ETCHELLS, CONGDON & MUIR, LTD.
ANCOATS, MANCHESTER.

Also at Birmingham, Sheffield, Leeds, Liverpool and Edinburgh.

LONDON (Temporary Address):
31 WOLSEY CRESCENT, MORDEN, SURREY



"The LAST SHOT will be the STARTING SHOT!"



Says GENERAL CABLE

V.I.R., P.V.C. T.R.S., L.C., etc., etc.

"When the last shot is fired in the war it will be the starting shot for us to get back to serving our civilian customers."

"My thanks are due to them all for the patience and understanding they have shown to us during the time when our needs absorbed all our energies and nearly all our output."

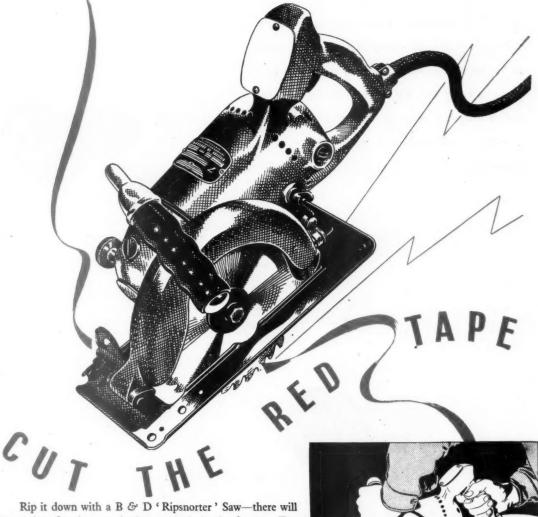
"But they'll be rewarded for we've built up an organisation here at H.Q. in Surrey (and elsewhere throughout the country) that will produce not only first-class cables but a service second to none. Our technical staff are working hard on improvements and developments that will be of tremendous interest to everybody. Meantime if we can assist you with any present problem or laboratory test, we have the equipment and the men ready and waiting to help."



GENERAL CABLE MANUFACTURING CO. LTD. LEATHERHEAD · SURREY

Telephone: LEAtherhead 3021/2

Telegrams : Isolde, Leatherhead



Rip it down with a B & D 'Ripsnorter' Saw—there will be no time for slow or obsolete methods in the future. Ten times as fast as hand sawing, the 'Ripsnorter' is powerful yet easy to use even without experience. It cuts all angles from vertical to 45 degrees in a wide variety of materials — wood, brick, tile, asbestos sheeting, breeze, corrugated sheet iron and all plastics and non-ferrous metals. The 7" and 9" Ripsnorters are two of the range of B & D Portable Electric Tools ready to go to work to speed the programme of the Building Industry.



In seasoned fir $1\frac{\pi}{4}$ " thick, the 'Ripsnorter' will rip 10 feet in the time it takes a well sharpened hand saw to cut I foot.

BaD ~

PORTABLE ELECTRIC

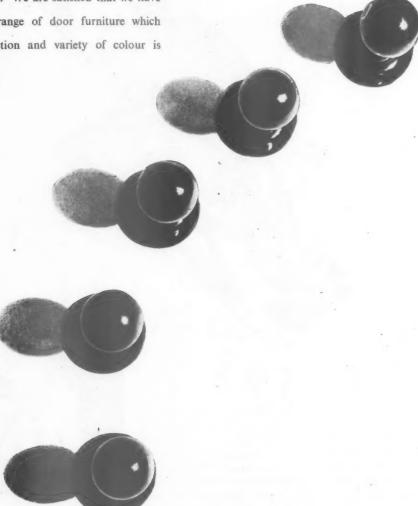
RHASADIRI BIR SAVIS

FOR THE BUILDING TRADE

BLACK & DECKER LTD . HARMONDSWORTH . MIDDX

'PHONE: WEST DRAYTON 2681/6. 'GRAMS: "BLACDECK," WEST DRAYTON BRANCH SERVICE STATIONS: LONDON - BIRMINGHAM · BRISTOL · GLASGOW · LEEDS · MANCHESTER · NOTTINGHAM:

UR AIM is to produce door furniture, functionally perfect, pleasant to both hand and eye, strong enough to stand up to the hardest wear, and at a price that will ensure its widest use. We are satisfied that we have now developed a range of door furniture which in design, construction and variety of colour is outstanding.



LACRINOID

for plastics

DOOR FURNITURE - CABINET HANDLES - KNOBS FOR ALL PURPOSES

LACRINOID PRODUCTS LTD . MOULDERS, MANIPULATORS & FABRICATORS OF ALL PLASTICS . GIDEA PARK . ESSEX
Telephone Homehurch. 2981

REFRIGERATORS operate equally well by ELECTRICITY, GAS or PARAFFIN... Having no moving parts, Electrolux Refrigerators are silent and free from vibration... "Built-in" and Free Standing Models will be available.

Telematic

Industry's Inter-Con



Thirty years ago Telematic started as a simple internal telephone system. Now it is very much more as it frequently employs microphones and broadcasting type loud-speakers as well as telephones. Its efficiency may be judged from the fact that some 10,000 War Factories are using Telematic installations to-day, and most of them would tell you that they could not do without them. Briefly the reasons are:—

- Telematic enables key men to communicate one with another on the instant and with certainty.
- 2 Each installation is carefully planned to solve the particular communication problems of the firm concerned.
- 3 All Telematic equipment is of extremely robust construction and conforms to the highest Post Office standards.
- 4 Telephone Rentals Ltd. maintain their Telematic Installations in perfect order by free periodic inspection and maintenance backed by an emergency service if ever required.

Those Architects and Builders who recommend their clients to have Telematic installed not only give their clients excellent advice but at the same time protect in the fullest degree their own reputation and goodwill.

Installation
Companies throughout
the Country

One of the Services of Telephone Rentals

KENT HOUSE . RUTLAND GARDENS . KNIGHTSBRIDGE . LONDON . S.W.

TELECOMMUNICATION

MUSIC FOR WORKERS

TIME RECORDING

ec

do

In

th

bu

E

to pr

Tel

GD2

RE-CONQUERING WORLD MARKETS

Calls for new standards of efficiency throughout your organization and for modern office and stores equipment.



ADVISORY SERVICE NOW is the time to plan. The skilled staff of Evertaut Ltd. is at your disposal to advise on all questions of efficient seating and storage problems for Office or Works.



EVERTAUT LTD., WALSALL ROAD, PERRY BARR, BIRMINGHAM 22



Recent headlines prompt questions concerning POST-WAR BUILDING

- economy is necessary to make fuel supplies cover existing demands. Soon, millions of post-war buildings will be designed, erected and will need heating. What can the BUILDING INDUSTRY do to help meet the situation which may then arise?
- A. The greatest contribution the Building Industry can make is to ensure that every heated building is adequately insulated.
 - Q. When is a building "adequately insulated"?
- A. When it has its full Economic Thickness of Insulation.
 - Q. What does that mean?
- A. The Economic Thickness of Insulation is that thickness at which the combined total cost of heating and insulation, over the life of the building, is at a minimum.*
- **Q.** At what stage of a building should the Economic Thickness of Insulation be determined?
- A. When the building is in the early design stage, so as to facilitate selection of the most suitable insulation and means of application and to permit the heating plant to be designed with proper economy.

- Q. What are the main factors affecting the Economic Thickness of Insulation?
- **A.** Temperature requirements, cost of heating plant, cost of fuel and the anticipated life of the building.
- Q. How does the "anticipated life of the building" affect the Economic Thickness of Insulation?
- A. For a single initial expenditure, insulation saves fuel every year throughout the life of the building. Therefore, other things being equal, permanent buildings show a greater return than temporary buildings for a given amount of insulating and justify a greater thickness. If insulation material is in short supply PERMANENT BUILDINGS SHOULD RECEIVE PRIORITY.
- * Full information on the calculation of Economic Thickness of Insulation is given in our booklet "STRUCTURAL INSULATION," free on request.



Made in Canad

We can advise on all aspects of the insulation of buildings and, where specialised fixing methods are concerned, our SPECIALISED CONSTRUCTION department will quote for supplying and fixing any type of insulation complete.

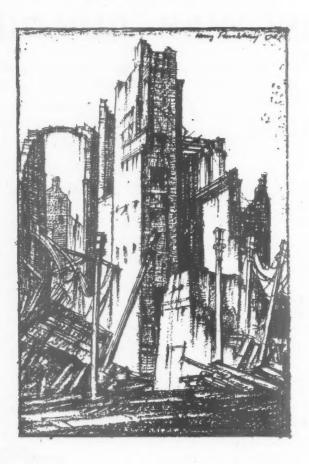
TENTEST FIBRE BOARD CO. LTD., 75 CRESCENT WEST, HADLEY WOOD, BARNET, HERTS.

Telephone: BARnet 5501 (5 lines).

22

Telegrams: Fiboard, 'Phone, London

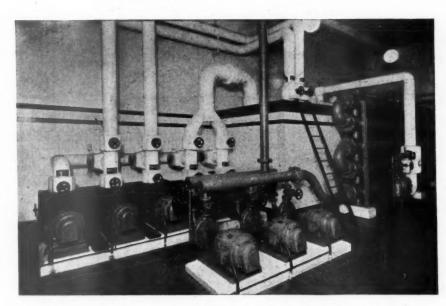
CRITTALL WINDOWS



WHEN YOU REBUILD

THE CRITTALL MANUFACTURING CO. LTD., 210 HIGH HOLBORN, W.C.I.

<u> Հարարդիայից արգայուն արարդարան արգարան արարդարության արարդարության արարդարան արարդարան արարդարան արարդարգարան</u>



Lack of adequate space or faulty siting for refrigerating equipment can render both the cost of the plant and installation charges u sarily high. Worse still, such defects lead to inefficiency with permanently increased power costs, while operation, service and maintenance are hampered and rendered unduly expensive. In addition to refrigerating machines and their driving motors, adequate space must be provided in an engine room for bulky auxiliary equipment such as that shown in the illustration above. Unless an architect takes the trouble to ascertain in advance the technical reasons why an engine room should be situated in or as near as possible to a particular position on the site, and what it will contain, intelligent planning is obviously impossible.

The innumerable applications of

REFRIGERATION

in Department Stores, Retail Shops, Factories, Office Buildings, Hospitals, Laboratories, Schools, Restaurants, Cafés, Theatres, Cinemas, Hotels, Dairies, Breweries, &c., often present Architects with unfamiliar problems of a highly technical nature, which are best solved by obtaining the expert assistance and co-operation of

e. Hall

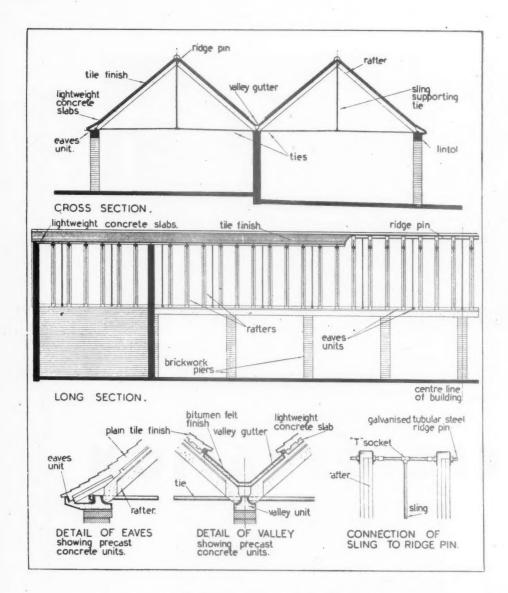
LIMITED

REFRIGERATING ENGINEERS DARTFORD IRONWORKS, DARTFORD, KENT

Established 1785

Leaders in refrigeration for over sixty years, makers of

RK AUTOMATIC REFRIGERATING



Bull pens and implement store embodying Marley re-inforced concrete pitched roof construction (BCCF system) with Marley sand-faced tiles

For: Dowsett-Mackay (Properties) Ltd., Freshfield Manor Farm, nr. Haywards Heath, Sussex. Contractors: Dowsett Engineering Construction Ltd., Richmond, Surrey.

MARLEY

THE MARLEY TILE COMPANY LIMITED

Head Office: London Road, Riverhead, Sevenoaks, Kent. Telephone and Telegrams: Sevenoaks 225
Scottish Office: Cadder, Bishopbriggs, nr. Glasgow. Telegrams: Bishopbriggs 415. Works throughout the Country

a Luxury Finish for any door



replicate doors

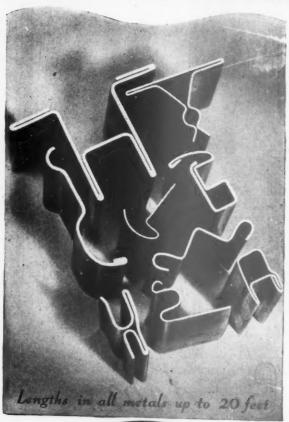
frankly a reproduction.

"REPLICATE" doors are finished by a unique process, giving an exact reproduction of the grained surface of any selected wood. In this way, unusually beautiful specimens are at your choice, with a durable, lasting surface—but only after the war, of course.

F. HILLS & SONS LIMITED . MANCHESTER 17.

Design in
WARICRIM
High Duty

SECTIONS





Sections supplied to the Aircraft, Automobile, Textile, Coachbuilding, Railway, Shipbuilding, Architectural Industries, etc., etc.

WARWICK RIM & SECTIONING CO. LTD-GOLDS GREEN, WEST BROMWICH, ENGLAND London Agents: Murwood Ltd., 24 Grosvenor Gardens, LONDON, S.W.1 Let 'WARICRIM' Sections take the strain

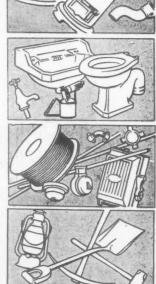
M-W.50



Including:

Heating Stoves, Independent Boilers, Cookil.g Ranges, Combination Grates, Fireplaces, Baths, Lavatory Basins, Urinals, Closets, Sinks.

"Britain's Biggest Builders' Merchants"











The way the wind is blowing...

The permanent houses of post-war, built to give greater comfort and to cost less to keep warm will call for liberal use of insulating materials. The 'Burt Report'—whose "value, to all concerned with post-war building, can hardly be over-stated" says The Builder—dwells at length upon the importance of sound and thermal insulation. It ranks them as numbers three and four of the seven "basic technical considerations which chiefly affect the consumption of labour and materials in house construction." American and Swedish influence is telling strongly in the same direction; and the thinking layman is coming to appreciate their importance.* Celotex provides thermal and sound insulation in board form. It is permanent, rigid and has great structural strength. Its natural finish lends itself to the most pleasing decorative schemes.

Boreas, the North Wind, was worshipped as a divinity by the Greeks, who expressed visually his blustering and stormy aspect with characteristic felicity. This representation is based upon the relief on the famous Octagonal Tower of the Winds, built at Athens by Andronicus the astronomer. The tower was surmounted by a brazen Triton, contrived to transo that it faced the wind invariably.

* Of the 'Times' leader comment on the Burt Report: "In particular, the report's exposure of the neglect of heat insulation in the past is noteworthy. A higher initial outlay in this direction would be amply repaid by enhanced home comfort and by a reduction of the 55,000,000 tons of raw coal annually consumed for domestic purposes,"

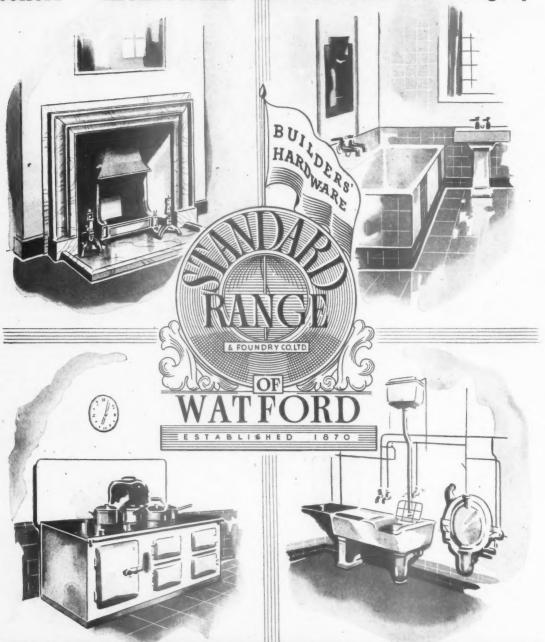
CELOTEX

INSULATING, BUILDING AND HARD BOARDS AND ACOUSTIC TILES

CELOTEX LIMITED, NORTH CIRCULAR ROAD, STONEBRIDGE PARK, LONDON, N.W.10

for the WIDEST RANGE of

Sanitaryware · Bathroom Requisites · Stoves · Fireplaces
Boilers · Architectural and Builders' Ironmongery



A cordial invitation is extended to all Architects interested in seeing the wide range of products displayed at our Watford Showrooms. Quotations gladly submitted whether for estimating or contractual purposes.

STANDARD RANGE & FOUNDRY CO LTD WATFORD. HERTS. TELEPHONE WATFORD 2261 (6 lines) TELEGRAMS. STANDARD. WATFORD.



Part view of the Service side of a Cafeteria Counter.

An Installation by

R. & A. MAIN LIMITED



LONDON AND FALKIRK

ROOF SHEETING WITHOUT MAINTENANCE



ESTOS-CEMENT

SUPER-SIX SHEETS

PATENT NO. 379.448

DETAILS

I. Made in lengths which are multi-ples of 6" and are stocked up to 10" 0" lengths. Standard width 43". Standard thickness, \(\frac{1}{2}\). Made and stocked: Grey, Red, Blue, Russet Brown and Green.

 Overall depth of corr., 2".
 Actual cover of an 8" 0" sheet as laid, 7" 6" x 3" 4½".
 Spacing of purlins up to 4" 6" centres. Horizontal supports for side sheeting up to 6' 0" centres if sheets are fixed vertically. centres vertically.

vertically.

Number of square yards of sheeting per ton is approx. 90.

Minimum end lap of roofs, 6".
Side lap, 2\frac{2}".

The weight of 100 sq. ft. as laid for roofing with fixing accessories is approximately 315 lbs., or 28 lbs., per sq. yard.

FIXING
The sheets should be fixed to steel purlins with 15" diameter galvanised hook bolts, and to timber purlins with drive screws, 41" long.

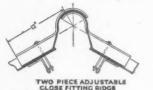
ACCESSORIES

Close-Fitting Ridge Capping. Plain Wing Ridge Capping. North Light Ridge Capping. Ventilating Ridge Capping. Barge Boards. Under Glazing Flashing Pieces. Eaves Filler Pieces. Eaves Closure Pieces.

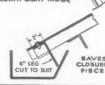
Hip Tiles.
Dormer Ventilators.
"S" Type Louvre Blades.
"Z" Type Louvre Blades.
Apron Flashing Pieces.
Corner Pieces. Expansion Joints. Soaker Flanges. Dead Lights Opening Lights. Curved Sheets. Curved End Sheets. Window Units, etc.

FOR COMPLETE TECHNICAL DETAILS AND METHOD OF FIXING WRITE FOR CATALOGUE SECTION 2.









/h	8
6"	
1	A
2	17
APRON FLASHING PIECE.	

AREA & WEIGHT TABLE			COVERING CAPACITY			
SIZE	AREA IN SQ. YDS.	WEIGHT IN LBS.	No. OF SHEETS	COVERING WIDTH	No. OF SHEETS	COVERING
10' 0'' 9' 6'' 8' 6'' 8' 0'' 7' 6' 6'' 6' 6'' 5' 6'' 5' 0'' 4' 6'' 4' 0''	3,962 3,763 3,563 3,365 3,165 2,967 2,767 2,560 2,366 2,191 1,991 1,792 1,593	103.00 97.85 92.7 87.75 82.8 77.4 72.0 67.0 61.8 56.65 51.5 46.35 41.4	1 2 3 4 5 6 7 8 9 10 11 12 13	3' 7" 6' 114" 10' 34" 13' 74" 13' 72" 17' 0' 20' 44" 23' 84" 27' 04" 30' 5' 33' 94" 40' 54" 43'10"	14 15 16 17 18 19 20 21 22 23 24 25 26	47' 24" 50' 66" 53' 104" 57' 3" 60' 72" 43' 114" 67' 34" 77' 44" 80' 64" 87' 54"

THE UNIVERSAL ASBESTOS MANUFACTURING CO., LTD. HANDCRAFT WORKS · TOLPITS LANE · WATFORD · HERTS · Phone Watford 3371-3

SINK UNITS IN

PORCELAIN - ENAMEL



Modern, hygienic and labour saving

The Easiclene Porcelain Enamel Sink Unit provides an efficient, practical solution to the problems of the kitchen in the post-war homes. It has been specially designed to provide a labour-saving unit that is definitely competitive in price. Manufactured in attractive pastel shades in different types and sizes in accordance with standards laid down by the British Institute and M.O.W., it stands up to hard domestic wear and the gleaming porcelain enamel surface is easily maintained merely by the use of a damp cloth. Of integral design with no sharp edges or corners the draining board provides double the normal stacking capacity. Introduced by us in 1937, after a year's careful development work, it has been in constant production since. At present being used in many post-war schemes. Write now to Dept. A4 at the address below for further information.

COMPETITIVE in PRICE

EASICLENE - PORCELAIN ENGINEERING WEMBLEY, MIDDX, phone WEMbley 3363/4



HY-RIB

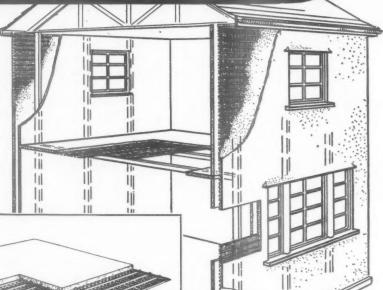
THE RIBBED METAL LATHING

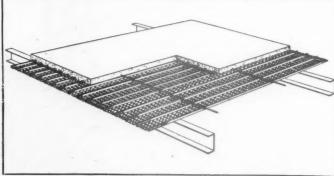
FOR CENTERING AND REINFORCING CONCRETE FLOORS

in FRAMED HOUSE CONSTRUCTION

Below: Constructional details of Hy-Rib sheets placed on floor beams in conjunction with P.C. concrete laid thereon to form reinforced concrete floor. The Hy-Rib sheets act as centering for the concrete, thereby eliminating close-boarded shuttering.

An in-situ slab at the first floor level of a framed house adds considerable stability to the structure as it operates as diaphragm bracing.



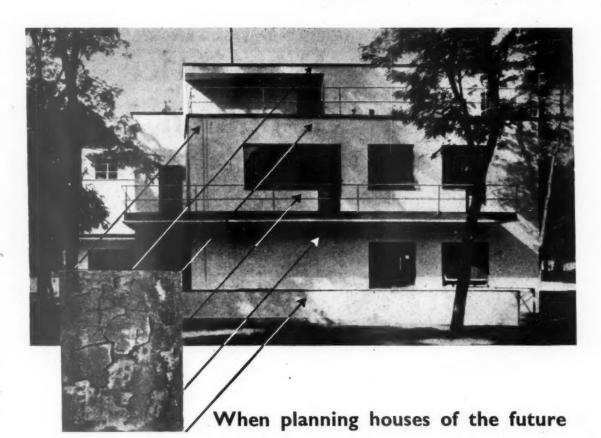


Above: Diagrammatic drawing of framed house showing Hy-Rib in walls and floor.

HY-RIB SALES, 6, COLLINGHAM GARDENS, EARLS COURT, S.W.5

Telephone: Frobisher 8141

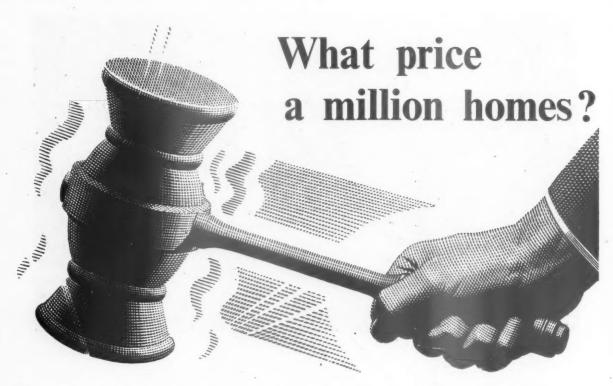
Telegrams: Truscon Fulroad London



the aim of Architects and Builders will not only be for exterior beauty, but equal consideration will be given to the health and comfort of the people who live in them. In instances where the use of a rendered facade is suggested, Crazing, that source of dampness, must not occur. Tretol Liquid Cement Waterproofer provides a normal set and a plastic mix. It avoids premature extraction of the gauging water, which is the cause of most crazing. Tretol, when added to the gauging water, will not only efficiently waterproof cement renderings, but also mass concrete. Please consult us on your waterproofing problems.



Tretol Ltd., 12 North End Road, London, N.W.II 'Phone: Speedwell 2866



The cost of post-war building will largely depend upon the cost of each component. And the cost of each component will depend upon the way in which it is produced. Only the New Craftsmanship of large scale production

organised upon the most efficient lines can combine low cost and quantity with the quality which the public will demand. In continue page a con

B

B

H

M.E.M. Switch and Fuse Gear has shown how this can be done. In the largest and most self-contained factory specialising in such gear M.E.M. had, up to the war, progressively reduced costs and prices and at the same time improved quality. This steady increase in production efficiency goes on and M.E.M. are ready to pass its benefits on as a contribution to the rebuilding of Britain after the war.





SWITCHGEAR

MOTOR STARTERS . FUSEGEAR ELECTRIC FIRES

MIDLAND ELECTRIC MANUFACTURING CO. LTD., TYSELEY, BIRMINGHAM, 11
London Showrooms and Stores: 21-22 Rathbone Place, London, W.I. Manchester Showrooms and Stores: 48-50 Chapel Street, Salford, 3

In common with every other periodical this Journal is rationed to a small part of its peacetime needs of paper. Thus a balance has to be struck between circulation and number of pages. We regret that unless a reader is a subscriber we cannot guarantee that he will get a copy of the Journal. Newsagents now cannot supply the Journal except to a "firm order." Subscription rates: by post in the



order." Subscription rates: by post in the U.K. or abroad, £1 155. Od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies, 1s. 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 15s. each; carriage 1s. extra. Goods advertised in the JOURNAL and made of raw materials now in short supply, are not necessarily available for export.

DIARY FOR NOVEMBER DECEMBER AND JANUARY

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

BERWICK - ON - TWEED. When We Build Again. Exhibition and Film. (Sponsor, TCPA, in collaboration with Messrs. Cadbury Bros). The Town and Country Planning Association is holding a conference on the last day of the Exhibition.

DEC. 9-16

B LACKBURN. Living in Cities. Exhibition. At the Assembly Hall (Sponsor, BIAE). Nov. 23-DEC. 1

H OLBEACH, SPALDING, LINCS. The English Town—Its Continuity and Development. Exhibition. (Sponsor, TCPA).

Dec. 4-16

L ONDON. County of London Plan and Town House. Exhibitions. At the National Association of Maternity and Child Welfare, Piccadilly, W. (Sponsor, Housing Centre). Nov. 23-24

T. P. Bennett, late Director of Works, Ministry of Works. Principles of Organization and Management as Applied to the Building Industry. At the London School of Hygiene and Tropical Medicine, Keppel Street, W.C.1. Last of three lectures and discussions. Fee 2s. Synopsis of lecture: Division of the contract between head office and site: (a) architect; (b) building contractor. Site organization: (a) information; (b) material; (c) labour and welfare; (d) sub-contractors. Control of time and cost. (Sponsor, University of London in co-operation with the Institute of Industrial Administration). 5.30 p.m.

Dr. N. Pevsner. Vincent van Gogh. At the Courtauld Institute of Art, 20, Portman Square, W.1. 1.15 p.m. Nov. 30

N. Davey (of the Building Research Station). Concrete in Modern Use—Its Appearance and Durability. RIBA. Architectural Science Board Lecture. At 66, Portland Place, W.1. Synopsis of lecture: 1. Controlling factors in the production of concrete of uniform quality and of good appearance: (i) selection of materials and design of mix; (ii) grading and workability of mix; (iii) mixing, placing and completion; (iv) formwork. 2. Finishing and texturing. 3. Basic requirements for concrete of good durability: (i) Strength and density; (ii) low shrinkage; (iii) resistance to erosive and corrosive agencies. 4. Concrete for specific purposes: e.g., for heavy duty floors in factories—methods of laying and finishing. 5.30 p.m.

F. A. C. Maunder. A Factual Basis for Reconstruction. At Caxton Hall, Caxton Street, S.W.1. (Sponsor, Town Planning Institute). 6 p.m. DEC. 7

Sir Miles Thomas. Town Planning and the Car Owner. At 2, Savoy Hill, W.G.2. (Sponsor, TCPA). 1.15 p.m. Nov. 30

When We Build Again. Exhibition. At the Gas Showrooms, Wandsworth, S.W.18. (Sponsor, TCPA). Nov. 23-25

Town and Country Planning Association's Annual Conference. On Problems of Redevelopment, Overspill and Rural Planning. At the Waldorf Hotel, Aldwych, W.C.2. (Sponsor, TCPA).

What is Modern Architecture? MARS Group (Modern Architectural Research) discussion, at which the public is invited to take part. At the RIBA, 66, Portland Place, W.1. Chairman: Professor Sir Charles Reilly. Speakers: John Summerson, E. Goldfinger, Prof. William Holford, Anthony M. Chitty, and M. Hartland Thomas. After the introductory speeches, the meeting will be open for general discussion. 6.30 p.m. DEC. 13
David Cushman Coyle. The Tennessee Valley Authority. At 2, Savoy Hill, W.C.2. (Sponsor, TCPA). 1.15 p.m. DEC. 14

K. de B. Codrington. The Art of Seeing. At the Courtauld Institute of Art, 20, Portman Square, W.1. 1.15 p.m. DEC. 7

T. P. Bennett. The Architect and Organization of Post-War Building. At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA). 6 p.m.

The Insulation of Buildings, Domestic and Industrial. Fifth paper in series on Thermal Insulation. At the Institution of Mechanical Engineers, Storeys Gate, S.W.2. 2.30 p.m.

DEC. 13

J C. Nicol. Organization of Industrial Electrical Maintenance. At Institution of Electrical Engineers, Savoy Place, Victoria Embankment, W.C.2. (Sponsor IEE), 5.30 p.m. Dec. 14

RICHMOND YORKS. Rural Housing. Exhibition. (Sponsor, Housing Centre). Nov. 23-29

S PALDING, LINCS. The English Town: Its Continuity and Development. Exhibition. At the East Elloe Post-War Housing Committee, Holbeach. (Sponsor, TCPA).

NEWS

Thursday, No. 2600.	November	23, Vol.	1944
			050
News			373
The Old and	the Propose	ed New	
Chamber			374
This Week's L	eading Arti	cle	375
Astragal's Not	tes and Topi	ics	376
Letters from I	Readers		377
Scorched E	arth Polic	y, by	
Aubrey T.			379
MOW Exhibi	tion at Birm	ingham	383
Information (Centre .		387
Societies and	Institutions		389

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

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

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

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

The Architects' Registration Council of the United Kingdom offers for award in June, 1945, certain MAINTENANCE SCHOLARSHIPS IN ARCHITECTURE.

ARCHITECTURE.

The scholarships will consist of a grant for the payment, in whole or in part, of the school fees and necessary subscriptions, instruments, books, etc., and, when necessary, a maintenance allowance not to exceed as a rule £100 a year. The scholarships will be renewable from year to year until the student has finished his or her school training. They will be available for students of British nationality who could not otherwise afford such training to enable them to attend architectural schools approved by the council. The scholarships will be available both for students who have already begun their training and for students wishing to begin their training. Scholarships will not be granted to students who will be less than 17 years of age on October 1, 1945. Particulars and forms of application may be obtained from: The Secretary to the Board of Architectural Education, Architects' Registration Council of the United Kingdom, 68, Portland Place, London, W.1. Copies of previous years' examination papers may be obtained from the Secretary on payment of 6d. The closing date for the receipt of applications, duly completed, is February 1, 1945.



TH Roll

Im

on

tre

in

an

fer

Though we are today the largest scaffolding organisation in the country, we still remember that 30 years ago we were very 'small fry.' In 1913 we invented tubular steel scaffolding and in those early pioneer days the little jobs were quite gratefully undertaken . . . they were very important to us then, they are still very 'important' to us today. We give to the little job the same care and attention to detail as we give to the big job . . . and we always will.

SCAFFOLDING (GREAT BRITAIN) LTD

SAUNDERTON : PRINCES RISBOROUGH · BUCKS LONDON OFFICE: PLOUGH LANE : S.W.17

BRANCHES AND DEPOTS THROUGHOUT THE COUNTRY

From AN ARCHITECT'S Commonplace Book

THE CLICHES OF CONTEMPORARY ROMANTICISM. [From Architecture Arising by Howard Robertson (Faber and Faber)]. Le Corbusier would not hesitate to use field stone or rough timber as an alternative to concrete if he found that its use was a natural consequence of building conditions. . . . Immediately this thing is done it becomes public property, and is recognized and accepted by the Le Corbusier admirers. From that to an outcrop of concrete with field stone incorporated in it is only a step, particularly since Le Corbusier himself evidently became intrigued with the decorative possibilities of these combinations, for in architecture he conserves the palette of a painter. . . . From being a piquant idiom in the contemporary designer's phrase-book, the rubble wall becomes at times almost a major theme; elsewhere it joins forces with ogee partitions, freestanding circular staircases, treads with open risers, the accentuation of roof incidents such as lift and water towers, curvilinear cornice overhangs, one-way pitched roofs, and various other motifs which are more the expression of frolic and excitement than anything significant. These items are, most of them, "non-functional" in the word's strictest interpretation; they are in fact pieces of contemporary romanticism which do no harm and help to enrich the architectural language. But they should not be taken too seriously, any more than the charming fashion pictures of Vogue.

Rochester Diocesan Board of Finance is acquiring for use as a DIOCESAN CENTRE and Conference Retreat House four houses, including the historic Satis House, on Boley Hill. The houses face the Castle, look down on

The houses face the Castle, look down on the Cathedral, and have a wide terrace overlooking the river. Canon S. W. Wheatley, writing in the Diocesan Chronicle on some of the historic associations of Satis House, says: When William the Conqueror came Rochester way after his victory at Battle he fortified the position with a mount and stockade castle. The summer house of Satis is on the top of this mound, and the name Boley Hill is a remembrance of its stockade "bailey." Satis House is so called from Queen Elizabeth's use of the word satis to express her satisfaction after her entertainment there by Richard Watts, who was a victualling contractor, deputy victualler to the Navy, and surveyor of ordnance at Upnor Castle, and founder of the famous Six Poor Travellers' Hospital in High Street, Rochester, about which Dickens writes so appreciatively. Among possessors of Satis House was John Longley, Recorder of Rochester, and father of Charles Thomas Longley, Archbishop of Canterbury, who was born there in the house in 1794. Among later owners have been members of several well-known Rochester families. Foord lived there, and so did Sir Herbert Baker as a boy. Dr. Harmer, Bishop of Rochester, lodged at Satis House in 1905 for over a year.

Fifteen local government areas in Surrey are TO BE PLANNED AS A SINGLE UNIT.

A Joint Executive Planning Committee, including fifteen local authorities, has been formed in Surrey with the encouragement of the Ministry of Town and Country Planning. The committee known as the North East Surrey Joint Planning Committee, will include representatives of Croydon, Barnes, Richmond, Kingston-on-Thames, Esher, Surbiton, Wimbledon, Malden and Coombe, Merton and Morden, Sutton and Cheam, Beddington and Wallington, Mitcham, Epsom and Ewell, Carshalton, and Banstead. These fifteen local government areas will in future be planned as a single unit. This area, parts of which suffered badly from flying bomb attacks, includes industrial and residential districts with a total population of nearly a million, and a pre - war rateable value exceeding

£11,000,000. It is the policy of the Ministry of Town and Country Planning to encourage local authorities to co-operate in this way. Of the 1441 local planning authorities in England and Wales 1,045 are now combined in 181 joint planning committees.

People with constructive criticisms of the CITY OF LONDON PLAN should speak up now.—
Mr. W. S. Morrison, Minister of Town and Country Planning, opening an exhibition at the Royal Exchange of plans and drawings for post-war reconstruction in the City of London, congratulated the Improvements and Town Planning Committee of the corporation on its decision to expose its findings to public judgment, and said he hoped people with constructive criticisms or alternative proposals would now speak up. He said: Let critics realize the complexities with which the corporation has to deal. The City of London is neither virgin soil nor a museum piece. It cannot be treated in abstraction from its proud history.

Proposals are under consideration for RE-BUILDING THE INNER AND MIDDLE TEMPLES.

Experts have been consulted, tentative plans have been drawn up for some parts of the damaged inns, and discussions have taken place between Benchers in charge of the job. According to the Evening News, one difficulty is that two inns intersect, and care must be taken to preserve a fair share of the accommodation and amenities for each. Middle Temple Lane is not a dividing line. There are parts of Middle Temple on both sides of it: Temple Church is half Middle and half Inner Temple. So there must be co-ordination of the two plans to ensure harmony. Pump Court will presumably be rebuilt much as it was. Changes here have been suggested, but, in the words of a leading K.C., it may be hoped no one will try to improve on Wren's cloisters. They should be reinstated with the old colonnades, exactly as in innumerable old prints of London. Any other course would remove from the approach to Pump Court one of the Temple's most famous features.



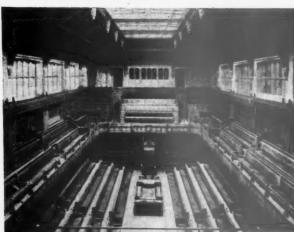
Sculptured old bell in the damaged tower of the church of St. Jacques at Montebourg, Normandy, recently occupied by the Allied Forces. It is being examined by M. Rene Levavasseur, French Government architect charged with the preservation of historical structures in the Department of La Manche (right) and Paul Boulet, mason.

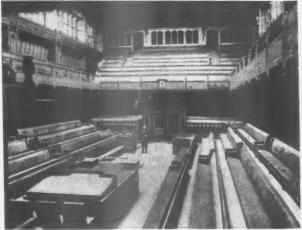




*T in A PBA

FU US sit w SA a SC S la Ka





The Old and the Proposed New Chamber

The two top photographs show the Chamber of the House of Commons as it was before it was destroyed in the raid of May 10, 1941. The two views below are photographs of the model of the new Chamber proposed in the Report from the Select Committee on House of Commons (Rebuilding) just published by the Stationery Office (7s. 6d.). This recommends Sir Giles Gilbert Scott's designs, of which plans and sections are contained in the Report. The photos on the left look north towards the Speaker's chair; those on the right look south towards the entrance. Though the late Gothic style has been maintained, the new Chamber will possess advantages over the old in having an up-to-date system of heating, ventilation, and lighting, an unobtrusive system of sound amplifi-

cation, better acoustics, the addition of secretarial, interview and conference rooms not hitherto available to Members, improved staff offices, enlarged accommodation for Whips and Ministers, improved access and circulation. Additional refreshment facilities will be available to the Press and other strangers. The floor of the House is of exactly the same dimensions as that of the old Chamber (68 ft. 0 in. × 45 ft. 6 in.), though above gallery level the dimensions have been increased to accomodate the additional Strangers' and Reporters' seating. It is estimated that the preliminary preparations would take 18 months and building operations a further four to five years. The total cost, excluding professional fees, would be £784,000, of which the Chamber itself would cost £251,305.

The first prize of £250 in the Timber Development Association's Timber House Competition has been WON BY JOHN P. TINGAY, A.R.I.B.A., Eastcote, Middlesex. The second prize of £100 goes to Ralph Erskine, A.R.I.B.A., an Englishman working in Sweden, whose design came over by plane only two days before the competition closed, and the third of £50 to Mrs. June Bosanquet, A.R.I.B.A., until recently a young AA student. The assessors were: C. Cowles Voysey, Brian O'Rorke, Frederick Voysey, Brian O'Rorke, Frederick MacManus, Bryan Latham, Vice-President of the Timber Trade Federation, and G. W. Grosvenor, Chairman of the Timber Building Manufacturers' Association.

Plans have been placed before the Hull Housing and Town Planning Committee for a GARDEN CITY TO COST FIVE MILLION POUNDS. The plans have been submitted by Mr. Harold Needler, a local miller, and Mr. Geoge Williams, his architect. On a site of 1,000 acres in the Sutton Road district of the city it is proposed to build about 10,000 brick houses of varying types to be let at economic repts. The types to be let at economic rents. The scheme, which will take 10 years to complete, includes self-contained shopping centres, about 100 acres for a school and playing fields, and provision for a maternity home, crèche, medical facilities, playing neids, and provision for a mater-nity home, crèche, medical facilities, churches, cinemas, communal halls, hotels, clubs, and a sports ground. The committee instructed the city engineer to report on the scheme's relationship to industrial zoning in the neighbourhood of

Ottershaw Park, near Chertsey is to be THE FIRST PUBLIC SCHOOL FOR WORKING-CLASS BOYS. Under a compulsory purchase order the Surrey County Council has gained possession of Ottershaw Park, near Chertsey, and its 148 acres of ground. As soon as the war ends one of the new types of boarding schools contemplated in the latest Education Act will be established there. The Gouncil also proposes to have on the estate a camp school and camping sites for holidays. Ottershaw Park was once the home of Miss Susan Dora Cecilia Schintz, daughter of the late Hans Gaspard Schintz, the Nitrate King. A large mansion, it has been used

as an oil company's office.

rial.

e to

tion

ion.

able

the

old

lery

date

t is

take

five

d be

305.

Mr. Victor W. Dale has been appointed General Manager and Secretary of the BRITISH ELECTRICAL DEVELOP-MENT ASSOCIATION. Mr. Dale was the first member of the Association's staff when it was founded in He has been responsible for the organization of many nation-wide campaigns of educational publicity and development in which electricity consumers in this country increased from under one million to more than ten and a half millions. Membership of the Association is composed of the Central Electricity Board and the electricity supply undertakings throughout Great supply undertakings throu Britain and Northern Ireland.

NEW HUMANISM THE

book has recently been published which deals with the architecture that is now arising.* It is by Mr. Howard Robertson, whose name needs no introduction to readers of this journal. He weaves a calm, unprejudiced picture of what we have, what we need and what we may expect. A few of us may not, perhaps, agree with all his criticisms, but they are couched in terms so disarming as to lead us to forget that there ever was such a thing as controversy within living memory. This is not a bad thing whilst the world is so full of hate; and there are, it seems, intellectual pastures where we may browse out of hearing even of the clash of adzes versus electric drills. Yet his book deals with this very crisis, this most controversial of controversies and within sound of the battle the author dares to bid us return to the architecture of humanism, without raising one hackle on our backs.

Humanism in architecture is the common touch which conjures a mutual understanding between the architect and those who see his work. It has been said, indeed, that whilst the inside of a house is the affair of the occupier, everybody is concerned with the outside. It is the outside, after all, which is 'architecture' to the passer-by and, if the passer-by fails to respond to the outsides that our contemporary designers pre-

sent to him, it cannot be entirely his fault.

This journal has consistently spoken for contemporary design and has identified itself with the establishment of the æsthetic and practical principles which underlie the approach of to-day. That the æsthetic principles have been established, and moreover largely accepted by the profession, has been mainly due to the literary encouragement extended to them over the last fifteen years. Now the profession, if it is to capture popular support, must develop that national type of architecture of which Mr. Robertson says: "An international style, if there could truly exist such a style, would never have as funda- . mental an appeal as an international point of view expressed in a national idiom." In both the Gothic and Renaissance periods the international point of view was rationalized into the national idiom. So also with the architecture which, in Europe and America, has been slowly growing into the awkward child that in many cases it still is; having been brought up under the most advanced system of education, in which it has been allowed complete self-expression (even if neighbours or visitors, let alone parents, have been annoyed) it is now at least adolescent. Now, says Mr. Robertson, welcoming the signs of human development in its later examples, "recognition of the great æsthetic possibilities of . . . old and tried materials of building is gradually creeping back into the idiom of contemporary design." It is the word "back" to which we take exception. The contemporary idiom should, and indeed is beginning to, show a forward development. This development should be leading on to a truly twentieth century

^{*}Architecture Arising, by Howard Robertson (Faber and Faber, 10s. 6d.)

vernacular, a vernacular which recognizes humanity and which humanity can itself recognize because it is national, because it is familiar.

The faults in our architecture to-day are due to a number of causes. One of them is that, when anything and everything has become possible with the new methods and materials, we have no restrictive standards, no recognized grammar, within which a coherent, disciplined and popular vernacular has been able to evolve. Wide standardization of building parts, whether old or new, is one step which will help to create that unity of scale and pattern in building which has been lost

for over a hundred years.

But undoubtedly the chief reason for the architectural decline and the present chaotic and transitional period of design lies in those broad social economic causes, the need for whose change Mr. Robertson is perhaps too careful to avoid. A coherent, popular and human architecture can finally evolve only within a society which, while fully accepting the advantages and implications of mechanization applied to things, abhors the mechanization of human beings—a society that is itself coherent, popular and human. Then only through the rebirth among all men of that moribund desire for good design—the outward and visible sign . ,—stimulated by right education and the development of sound, contemporary, vernacular standards, can a new architecture of humanism arise.



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

\mathcal{N}	0	7	_	\boldsymbol{E}	S
		. &			
T	O	P	I	C	S

RIBA NEWS FOR THE FORCES

A salute of a hundred guns for the RIBA News for the Forces. The Institute is doing a grand job which every Forces architect is welcoming with open arms. Perhaps it has been difficult to realize how ravenously the man in the Forces, particularly in the Forces abroad, hungers for news; news not only about hearth and home and fami-

lies, but also about that other part of home, his ordinary civilian job.

How well I remember the kind of talk that went on among a group of typical ex-architects, most of them in the Engineers, on the torrid deck of one of the troop transports that reinforced Alamein, "What's going on at home?" "What's going to happen after the war?" "Same old muddle, same old mess? " " Banker's Georgian for ever? " "Will they ever invent any new materials? " "Town Planning my foot!" "Is anybody doing anything for afterwards?" "Will the RIBA give us a hand when we get back?" "Not likely; too many big bugs about feathering their own nests." "I'll give it up and take to chickens."

Now these men weren't just naturally ignorant, prejudiced, or cynical. Nor were they a set of hack draughtsmen or third-class assistants put into uniform. They were all competent architects, under forty, mostly members of the Institute. But they had already been out of the game for three years, and they were starved of news. It was

dumbfounding to realize that not one of them had heard of the Institute's Reconstruction Committee, much less of its propaganda, lectures, exhibitions, and of all the other plans and hopes and efforts that were afoot generally. But hadn't they read their ordinary professional periodicals? Some had perhaps, but there is too much to read in them, spare time being at a premium, and they are designed mainly for practising architects.

not

for

sna

WO

asp

ne

m

There is not a shadow of doubt that this news starvation among Forces architects has been among the most serious and crucial problems facing the profession. News starvation, like real starvation, starts with irritation and ends with complete loss of appetite; here were over three and a half thousand architects drifting visibly and alarmingly towards complete forgetfulness and loss of interest in their real and vital work.

The RIBA Forces News, now in its third successful number, does not come a moment too early to stem this insidious tide. It ranges concisely and attractively over nearly the whole field of contemporary plans and events, starting with Demobilization and ending with the Dudley Report.

The matter and manner are first class; readable, pointed, compact, comprehensive, and snappy; all that was wanted. Best of all, this vest pocket journal is no larger than a letter from home, can be posted as easily, and read as quickly.

If there is a suggestion to be made, it is only that shorter paragraphing would give room for still more varied information. I should like, for instance, to see a regular half-page technical corner devoted to developments in building methods and materials.

Full-time fighters and administrators can hardly be expected to welcome the suggestion that they should read through twenty-two Government Reports, involving incidentally some million and a half words, in addition to the normal flood of military orders and forms, or Bumf, as it is affectionately styled by the men who know. Also, under the heading of War and Architects the Forces architect is desperately

eager to know what architects who are POETS' CORNER not in the Forces are doing.

ne

22

IS.

es

ly.

ad

ad

re-

ly

nat

ces

ost the

eal

nd

ite;

ou-

ind

ul-

eal

its

me

nsi-

and

ield

nts.

nd-

first

om-

was

cket

rom read

ade. hing ried inechents ials.

ators the read Remiln to

and ately Also, rchi-

ately

He is interested in civilian activities for their own sake, of course, but also he is inclined to suspect that a lot of cushy reconstruction jobs will be snatched by the men on the spot while he himself is finishing off the dirty work. More news on this important aspect, please.

On the side of manner, a still more personal and careful note should be sounded; the individual man in the Far East, as MOI and the BBC are finding to their cost, is not content with the negative and slightly patronizing assurance that he is "not forgotten"; he blue-pencil well knows that he is among the most important men on earth to-day, and he wants to be positively remembered and constantly reminded of that undeniable fact.

But still, a salute of a hundred guns for the RIBA.

SCIENCE AND FASHION

On the subject of car design—a caption-writer in the Motor showed nice discrimination recently. Beneath pictures of a pukka racing car designed on true aerodynamic lines and a slinky American coupé he put the "Streamline respective captions, Science" and "Streamline Fashion."

THE CASTLE OF COMMONS

Away with twice two hundred years, With train, and car, and aeroplane, Four centuries have been in vain. The family motto reappears:
RETURN TO THE HISTORIC.
So off with spats, and on with spurs,
For come what may we'll be, Good Sirs,
"In keeping with the Gothic."

His morning coats and siren suits No more must good Sir Winston wear, But Crécy's chainmail must he bear, And armoured breastplates, armoured boots, While on his head, behold from far How cunningly the smith did make An armoured chimney pot to take The smoke from his cigar.

No more shall Mr. Shinwell go By omnibus. He shall proceed Upon a trusty chestnut steed In chivalrous and knightly show.

And there in goodly Palace Yard

He'll fodder brave the beast, forsooth, Before o'er Liberty and Truth He mounts his daily guard.

Now Nancy Astor and her girls
Shall share no more the talk of men,
But in a turret near Big Ben
Where West Wind wails and whines and whirls,

wniris,
Shall weave in dainty tapestry
The Saga of the Suffragette
From Joan of Arc to Cliveden set,
In silken threads of mystery.

And look now, Seigneurs, unto where My Lord of Gallagher doth sit In Ermine State and Holy Writ. For Witness that we do declare In the accents categoric
Of the King's own Minister's,
That come what may we'll be, Good Sirs,
"In Keeping with the Gothic."

EDWARD LEWIS

ASTRAGAL



A railway station at La Crosse, Wisconsin, by Holabird and Root. An illustration to Architecture Arising by Howard Robertson. See this week's leading article.



LETTERS

(Mrs.) Marianne Walter, A.R.I.B.A.

R. Blyth Winter, L.R.I.B.A.

London Housing Needs

SIR.—Please permit me to congratulate you on the most timely publication of the excellent and important article on London Housing Needs by Alexander Block. "A good housing plan requires full mastery of all the relevant population facts" is indeed all the relevant population facts is indeed a fundamental truth, but hardly yet recognized even by Town Planners or Local Authorities. In an article on *The Housing Estate* (shortly to be published in the *Contemporary Review*) I have calculated the number, sizes and types of dwellings required by 10,000 persons of an average town repulsities. population.

population.

The calculation is based on the assumption that usually the biological family (mentioned in the Australian but not in the English Census) will want to form a "household unit" (called rather misleadingly "private family" in the Census of England and Wales) without the addition of lodgers and adult or old relatives. As Mr. Block has pointed out, the need for this form of privacy appears to be more marked now than ever in the history of mankind. The Roman "group family" (including slaves and servants) is extinct and even the "large family" of some 200 years ago broke up into the "stem family" (a famille souche) as Frédéric Le Play observed about 150 years ago. Le Play, Sorokin, Zimmerman and others put this "breaking up" process down to environ-Sorokin, Zimmerman and others put this "breaking up" process down to environmental changes—the latter mainly to progressive urbanization and the requirements of greater mobility connected with modern labour conditions (compare Sir William Beveridge's new work on full employment). I think that educational advances will make the biological (i.e., parent-child) family increasingly unwilling to share accommoda-

the biological (i.e., parent-child) family increasingly unwilling to share accommodation with the past generation.

In the course of hundreds of lectures with discussions, I have become convinced that this dislike for "sharing" is as marked amongst the old as it is amongst the younger generation of to-day.

The calculation of dwellings referred to

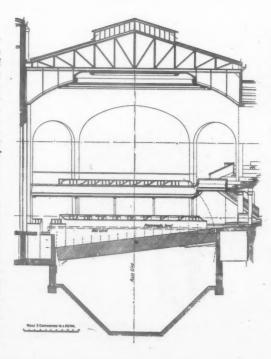
REVERSIBLE FLOOR OF 1907







This Basculo or movable floor at The Apollo, 18, Rue de Clichy, Paris, was illustrated in the Architectural Review for December, 1907 and is here resurrected in view of its interest as a remarkable engineering job even by today's standards. By rotating the floor a music hall can be transformed to a ballroom before the eyes of the public in less than a quarter of an hour. The floor is on iron girders and measures about 15 metres by 15 metres, (roughly 278 sq. yds,) It turns on a horizontal axis and brings to the place of 380 fauteuils inclined at an angle, a horizontal dance floor. whole is moved on a rotary axle by a 6 h.p. motor and passes into an excavation 10 metres deep. The Basculo is kept steady partly by its axle and partly by large bolts.



was based on careful population estimates qualished by the Association for Planning and Regional Reconstruction) for 1950. The result was staggering to me. According to these estimates, 17.3 per cent. of the population will consist of single adults (including the old). Take any housing stagether. lation will consist of single adults (including the old). Take any housing scheme at random and see what provision has been made for them. In Birmingham, for instance, 60 per cent. of the dwellings in the outer ring were post-1920 and one-and two-room dwellings formed only 0.6 per cent. of the total. In other words, ½ per cent. provision of suitable accommodation for over 17 per cent. of the population. This staggering inadequacy has to my knowledge been only recognized so far by knowledge been only recognized so far by Mr. G. M. Boumphrey (Town and Country To-morrow).

Probably about one-half of our population consists of adults without children. As permanent houses with fewer than four rooms are most uneconomical in ground space as well as construction, and if we consider that about 85 per cent. of existing dwellings have four rooms (and over), the need for flats will very likely surpass your wildest dreams . . . and those of the Dud-

ley Committee.

MARIANNE WALTER

Sheffield

MOW Standard Factory

-Architects must have examined with interest the plans recently published of the Ministry's Standard Factory, which herald the entry of the Government into the field of the factory estate developer and speculator.

The form of construction shown employ-ing lattice girders to provide an uning lattice girders to provide an uninterrupted floor space of 100 ft. is one appropriate where internal stanchi ons would be obstructive to the layout of plant or processes carried on within the factory. In my experience such cases are the great exception. Such a design is only warranted where especially called for, and, in view of the additional cost, cannot be considered but as an extravagance when applied to a standard design especially where the out as an extravagance when applied to a standard design, especially where the standard design is expressly stated to be for the manufacture of newer and smaller types of industrial products.

types of industrial products.

The extra cost involved by the clear span is almost entirely attributable to the heavier and more complicated steelwork. Let us consider the case in this respect. Taking a normal factory construction with internal stanchions at 24 ft. centres and 30 ft. span North-light trusses supported on valley becams the weight of the steelwork. beams, the weight of the steelwork including steel purlins would ke approximately 4.50 tons per 1,000 ft. sup. of floor space. For a factory of 50,000 ft.

floor space. For a factory of 50,000 ft. sup. the total weight of steelwork would therefore be 225 tons.

To provide 100 ft. clear span employing lattice girders, the weight of steel required per 1,000 ft. sup. would be approximately 7.50 tons, giving a total weight for the same factory of 375 tons.

This means an extra weight of steel amounting to 150 tons. Taking the price of steelwork erected complete at £35 per ton, this means an extra cost of some £5,250 on each factory.

on each factory.

To a practical architect there would have to be a very good reason before he could commit his client to this extra expenditure. Can it be that such considerations no longer operate when the client is, in the long run, the taxpayer?

These factories are stated to be under construction in "considerable numbers." It appears justifiable to ask—how many and why?

Chingford, Essex .

R. BLYTH WINTER

for SO : the clas cien plu buil the the

Th on as : peo tho Bor

stud a si

PHYSICAL PLANNING SUPPLEMENT

BEFORE

Right are cottages in Bermondsey which were demolished by the Borough Council as part of a slumclearance scheme. The quiet "precinct - like" quality of the layout with the small gardens and in. formal planting should have provided a lesson for rebuilding. Instead, the modern tenements which replaced them seem to have been influenced more by the "model dwellings for the labouring classes," built in the latter part of the nineteenth century.



AFTER

Right, the same view as above but after slum-clearance. The only clue to show that it is the same picture is the foriorn tree left standing on the far side of the asphalt desert-As Dr. Westlake points out in the following article, these twentieth-century "model tenements" are considered, quite rightly, "unsuitable for dogs, cats and other animals"—but not for children.



SCORCHED EARTH POLICY

by Aubrey T. Westlake

It is a distressing fact that our administrators and social reformers appear to learn nothing from past experience and so repeat the same old mistakes. The disastrous results of the craze for building "model tenements for the working classes" between 1890 and 1900 should have been a sufficient warning of what not to do. Instead we have been plunged by the Government, local authorities and benevolent building societies into an orgy of flat building, excused on the specious grounds that only so can slums be cleared and the workers rehoused.

The results of this policy were, some years ago, forced on my attention in the ordinary course of my medical work as a doctor, living and working for many years among the people of Bermondsey. Nowhere was the flat policy so thoroughly and systematically carried out as by this Labour Borough Council, giving, alas, an unequalled opportunity of studying its bad effects, effects which were the same wherever a similar inhuman flat policy was pursued.

In general, these can be summarized as a destruction of the old social and cultural life (including family life) of the working people of our large towns and cities, with nothing being put in its place, together with a spiritual starvation which bodes ill for the future.

The process of so-called "slum-clearance," I observed, meant in every case the destruction of cottage property; as far as I know, there is no example of a block of flat slums or tenement slums (often the very worst form of slum) being demolished, nor contrawise, any building being preserved or reconditioned. Always it is the most vulnerable, in this case cottages, which are destroyed; the same process which has gone on in Bermondsey, and London as a whole, since 1830, though never on such a wholesale scale.

Everything is sacrificed in this process of destruction. In addition to the genuine slums, we have sound cottage homes, architecture of the best domestic period, places of historic and antiquarian value, trees, gardens, and in particular backyards as a matter of course. The destruction of these latter two is the most serious, as with them disappear all the garden activities, the hobbies and spare-time pursuits which

ates ning The g to opulude at

neen

inthe and per per tion tion. my by

As four ound we sting the your Oud-

ory with f the erald field

ployunone vould at or . In great

view dered to a the o be naller span

et us ing a ternal span valley lwork broxio. of 0 ft.

oying quired nately r the steel price 5 per 5,250

vould

have could diture. onger g run,

under s." It y and

INTER

have in the past made for a rich working-class culture, and all of which in these times should be most rigorously preserved. Incidentally, too, the people are deprived of the possibility of adding to income and good health by fresh garden produce, eggs and poultry, etc.

With the passing of the cottage goes, too, the old conception of the home and home life, as well as the normal environment for young children, which should, and did, include domestic animals and pets. With the abolition of the streets the older children are deprived of their chief educational playgrounds, the adults of their old social life and community feeling and interests; and all of peace and quiet.

In general, it may be said that everything which tends to humanize life is swept away, everything which makes for fullness of life, including children, destroyed.

That I am not exaggerating is clear from the attitude behind this statement by Councillor Starr, Chairman of the Bermondsey Housing Committee in 1938: "Dr. Westlake says we are destroying the cultured life of our tenants. Surely he is living in an old-fashioned world. People of to-day have little use for home life. Most of them merely sleep at home."

We are told, too, that we mustn't be sentimental; after all, people are being given something better, described in the Election Address of the Bermondsey Labour Candidates, October, 1937, as "decent and comfortable quarters," as though the working people were considered—as perhaps they are—as so much cattle.

The Borough of Wandsworth, under the inspiring leadership of the late Alderman Prince, is a striking exception to this. Here in the new municipal flats, themselves examples of gracious kindly English architecture, every flat dweller is provided with a garden. There are also a few examples of private enterprise doing the same

private enterprise doing the same.

The truth about these "decent and comfortable quarters" is that the people, and the children unborn, of Bermondsey, of London and of our other great cities, are being sacrificed to a hygienic standard. "Man does not live by bread alone," nor yet by bathrooms either. For, to quote Miss Denby, "Slum clearance is not merely a question of substituting a clean box for a dirty one. It is not a problem which can be solved by better plumbing," and she goes on to say that flats are "intensely unpopular among the working people

who consider that they provide an environment which is unsuitable for family life "—and they are quite right. It is a scandal of the first order that the workers of our great cities should be forced willy nilly into these inhuman and demoralizing barracks, which, however planned, still remain, as the workers know only too well, the destroyers of men.

5-6

as p

the

as tl

air t

less

to a

the

the

in fl

tivel

vou

not

gate

latic

hap

all y

of a

obec

the

rear

futu

then

Th

is th

it is

hou

desi

char

with

high and

vide

will

need

desi

then

Bu

dese

buil

A

In the homes, gardens and back-yards of the old Bermondsey there flourished, in spite of slums, healthy and happy hobbies intimately connected with the soil, the animals and the birds so beloved of the people.

Instead they have been put into soulless flats piled one on top of another, filled night and day with noise and the sense of never being able to get away from the other inhabitants of these human ant-hills.

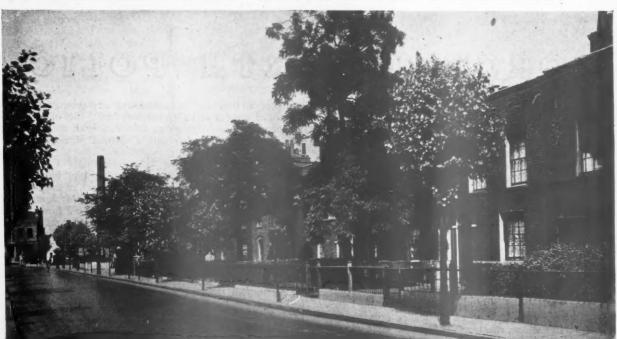
A new and more subtle and destructive overcrowding was being perpetuated—the overcrowding of large numbers in a single block. They were put in bare cell-like rooms—the so-called homes, where the only social activity left is to get out as soon as possible and resort to the newly built and enlarged public houses, where the brewers at least know that men do not live by bricks and mortar and asphalt alone.

It is much worse for the children. Indoors they have to be kept unnaturally quiet for fear of the neighbours, above, below, and at both sides; healthy romping and games are alike impossible; as one child put it, "we can't even have a row now." The effects of the resulting psychological repressions and inhibitions both on parents and children have yet to be felt, but we shall pay dearly for them in the future. Do you wonder that young married people of to-day have no children, or only one? Who shall blame them? Dr. Saleeby well named the flats "birth-control barracks."

Out of doors there is nothing but a dreary acreage of tarmac, sterile and completely barren of any inspiration to the child mind (ball games even are not allowed), the breeder, as I know from experience, of hooliganism and sheer destructiveness. This is particularly true of the adolescents. Is it any wonder that the educational authorities are getting apprehensive of the stultifying effects of wholesale flat-life on children? Why should they be condemned to live in what is considered, and quite rightly, "unsuitable for dogs, cats and other animals"—but not for children?

Even physically the younger children are worse off, as, owing to the difficulty of getting down, with a pram, from

HOUSES AND TREES WHICH WERE DEMOLISHED TO



5-6 floors, the mother tends to keep the children in as much as possible; nor indeed is it safe to let small children out on the public access balconies and tarmac playgrounds, and, as there isn't even a back-yard, they actually get less sun and air than in the old slums. Higher rents also sometimes mean less or more inferior food. As a result, there is a tendency to a higher incidence of disease among the 1-5 year olds in the flats. This is borne out by an investigation I made into the differential death rate for 1935 as between flats and cottages. Whereas it was apparently healthier for adults to live in flats, for children from 1-5, the death rate was both relatively and absolutely greater, i.e., flats tend to kill off the young children (and this with a falling birth rate). I could not obtain permission from the Registrar-General to investigate these figures over a ten-year period.

A further development is the multiple restrictions and regulations, too numerous to mention, which surround the unhappy flat dweller; well may it be said, "Abandon freedom all ye that enter here." These, together with the stultification of all his creative impulses, gradually reduces him to servile obedience and reinforces the tendency to accept lying down the increasing tyranny of the flat policy. Thus are being reared and nurtured, not only the insoluble slums of the future, but the servile human machines which will live in

them.

w

18

ne

u

n.

ру

ld

I

it

ng

on

at

ats

as.

m

0

The stock argument for all this destruction of human values is that there is nothing else to be done in our large towns; it is flats or nothing. It is true that a rigid policy of twelve houses to the acre is not always practicable, but neither is it desirable, for it means the complete destruction of urban character. It is, however, perfectly practicable to build houses with every amenity for most of those who want them at a higher density, and to provide flats for those who want flats and for the few who desire but cannot immediately be provided with houses. If such a policy is to be successful, it will be necessary, first to estimate, accurately, population needs with regard to housing;* and, second, where flats are desired or are necessary as a short-term measure, to build them with every amenity that they can offer.

But the people must be given what they want and richly deserve—real homes. Thus the greatness of England will be built afresh on the basic needs of the human spirit.

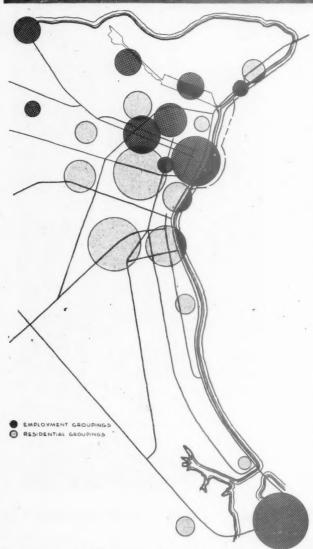
* See London Housing Needs. Alexander Block. A.J. Physical Planning Supplement, 9-11-44; (errata p. 344, line 27 for "decimal" read "decennial.")



MAKE ROOM FOR THIS TO ALTHOUGH THIS TO WAS LEFT



On facing page, another part of Bermondsey which went to make way for the flats shown left on this page. Apart from the human factors consequent upon such a policy, which are described by Dr. Westlake, even the urban character of the continuity of the street frontage is lost in this example with its forced symmetry and horizontality. Above is an example of the model tenements built for the working classes in the latter part of the nineteenth century. These blocks have all the inhuman grandeur of a prison. There are five floors without lifts, and in most of the flats artificial lighting is needed for most of the day—yet these were left standing.



Above is a map showing the centres of concentration of work and residence in Corpus Christi, Texas, one of the cities chosen for the Progressive Urban Studies made under the direction of the late National Resources Planning The studies provided the basis for the manual mentioned below.

LOCAL PLANNING IN USA

Community planning in America is fortunate in being assisted by active organizations, such as the active organizations, such as the Public Administration Service and the American Society of Planning Officials. The former has produced an excellent book called Action for Cities: A Guide for Community Planning. It is a guide prepared to assist municipal officials and civic leaders in carrying out a comleaders in carrying out a comprehensive planning programme without heavy reliance upon trained personnel. The guide is not a theoretical treatise but a practical working tool, built around the experiences of such cities as Tacoma, Salt Lake City, and Corpus Christi. Its clearly defined sections and simple lay-out should make it useful and

popular.
Following this book the American Society of Planning Officials have produced two pamphlets

describing local planning activdescribing local planning active tites. One, A City Manager Urges Planning, is a letter from the Manager of Kansas City, Missouri, to the Mayor and Members of the City Council. In it he defines the six major planting active to the city Council. ning problems in Kansas City today:

1. The need for a basic plan. A report of the Mayor's committee of Cleveland, is here quoted to show that "the idea of a heavy initial expenditure for the making of a Master Plan followed by a sharply reduced staff for ever after, merely to carry out the plan, has been conclusively rejected in favour of the concept of planning as a day-to-day integral element in the governmental structure.

2. The need for a land use survey as a basis for zoning revision.

3. The need for rebuilding on the basis of areas larger than square blocks. "If this theory is accepted the plan must provide more than rows of sanitary barracks to replace rows of unsanitary hovels."

4. The need for a plan in which the post-war programme of public works is an integral part.

5. The need to co-ordinate existing agencies connected with industry and to select a committee to study the prob-lems of industrial development.

6. The need to look to the regional sphere of which the city is economically a part.

The author emphasizes that much of a plan's success depends on voluntary positive action and co-operation by private individuals and corporations. Four divisions of planning activity are suggested:

1. General planning and the basic plan.

2. Urban redevelopment and zoning.

3. Industrial development and transportation.

4. Capital budgeting and mandatory referrals.

The other pamphlet, Green-ville Faces Planning, is the story of the development of a planning programme in Green-ville, Ohio, told by John E.

Vance, Secretary of the City Planning Commission. story verifies the Kansas City Manager's statement that Kansas City Manager's statement that the success of a plan depends upon action and co-operation by public bodies and private individuals. A day in 1938 was officially designated by the Mayor as City Planning Day, when a guest planner was invited and public prestings were held. meetings were held. Amongst subsequent planning events was the gift by a private citizen of a large area of land adjoining the public park to be improved, at his own expense, with drives, landscaping, lagoons, shelters, walks, Girl Scout lodge, foot bridge, etc. In 1941, the City Council set aside money for the Planning Commission to use in preparing its Comprehensive City Plan. The pamphlet concludes, "As a community, we have already profited much by planning and zoning. Looking into the post-war period, we feel into the post-war period, we feel that we will benefit even more. If there is federal aid for public improvements, our plan will provide the *Why* for such improvements. All private and public building will, in the future, insure our community the maximum value for every dollar spent by private or public agen-cies. Each improvement will be guided by the plan to fit a distinct pattern for a better and more beautiful community in which to live."

This

Birr

Min

with Fue

MO:

Nor

pal reco

1944

equi

reco

local

futu

The

thro

mair

this

the

quali

ning. to th

PLANNER'S UIZ

THE ANSWER TO THE LAST PROBLEM

6. Salisbury, England-13th century-English approximation of the Bastides of France. Built by Bishop le Poer to re-house the people Bastles of France. But by Bandy he February terrors of the people of Old Sarum, where there was a chronic shortage of water. The market place forms the central focus of the town and the cathedral is at the south west. In the early days streams trickled down each of the streets to heighten the charm of the new town.

Can you place this town pattern? Its historical background, the form of social organization underlying it, the town planning approach employed, the locality?



Answer in the next Planner's Scrapbook.

The entrance to the exhibition.



MOW EXHIBITION OF STANDARD HOUSING EQUIPMENT

This exhibition, recently held in Birmingham and organized by the Ministry of Works in co-operation with the Ministries of Health and Fuel and Power, complemented the MOW demonstration houses at Northolt, and illustrated the principal items of housing equipment recommended in Housing Manual, 1944. It showed the standards of equipment which the Government recommends should be used by local authorities and others in the future rehousing programme.

as lic gst

at es. oot City the in sive we by feel ore. prooveablic , inollar gen-ll be and y in

Z

of the people The nedral each

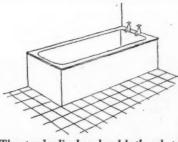
d, the

The need for mass-production through standardization was the main lesson of the exhibition, in that this will have the advantages to the consumer of low cost, good quality and design, simplified planning, and ready replacement, and, to the producer, assured markets,

the elimination of the expense of maintaining large and varied stocks and the use of the most efficient use of machines and plant.

Equipment shown included kitchen storage units, refrigerators, the electric larder cooler, the electric socketoutlet plug, taps, windows, chimney pots, bathroom equipment, combinations of equipment such as that proposed for the Portal House. Heat installations were also shown, covering cooking, room heating, water heating and clothes washing applied to different lay-outs of living space and different types of fuel.

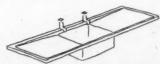
The exhibition sought to show that to get the best results, the right fittings must be used in the right plans and that the aim should be good equipment with adequate living space and good architecture.



The standardized enclosed bath, selected as a British Standard for housing. Overall dimensions—lengths 5 ft. 6 in., and 6 ft. 0 in., width 2 ft. 4 in.



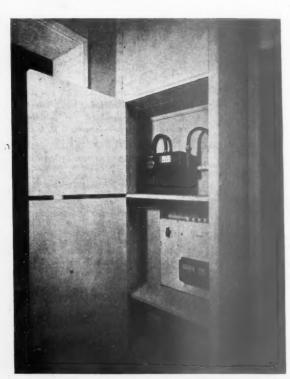
The standardized wash basin. Overall dimensions—larger size 25 in. by 18 in., smaller size 22 in. by 16 in:



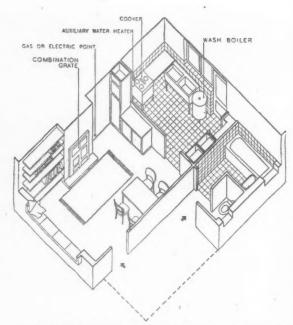
The standardized metal sink and drainer unit (either stainless steel or porcelainenamelled). Overall dimensions—length ft. 3 in., width 18 in. and 21 in.







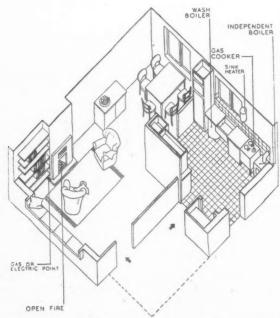
MOW EXHIBITION



I KITCHEN-LIVING ROOM

This and the following four examples show several ways of arranging the heating equipment according to the use of the living space and the type of fuel being used. In this example, main heating is: cooking—combination grate; room heating—combination grate when open; water heating—combination grate. Auxiliary: cooking—gas cooker; room heating—none; water heating—gas circulator. Left top, the living room. Left, the kitchen.

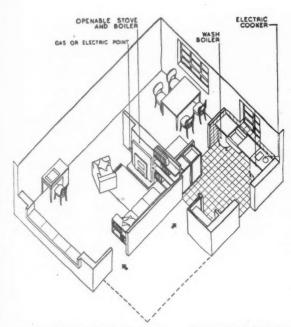
we



II WORKING KITCHEN

Main; cooking—gas cooker; room heating—open fire with convected air; water heating—independent boiler. Auxiliary: cooking—none; room heating—gas and electric point; water heating—gas sink heater. Left, standard gas and electric meters placed together in an accessible cupboard.

AT BIRMINGHAM



III WORKING KITCHEN AND SEPARATE DINING SPACE

Main: cooking—electric cooker; dining-room heating—warm air from openable stove in living room; water heating—boiler in living-room stove. Auxiliary: cooking—none; room heating—gas or electric point; water heating—electric immersion heater in hot water storage container. Right top, the living room. Right, the kitchen.

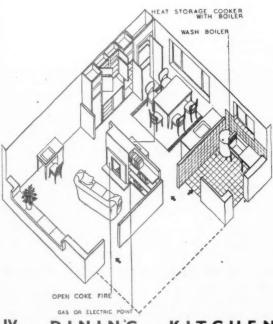
g

ith

ric gas

rd.

VI



IV DININ'G KITCHEN

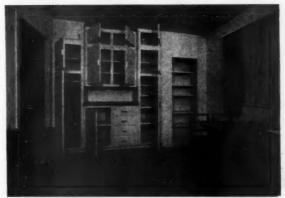
Main: cooking—fully insulated heat storage cooker; room heating—open fire burning smokeless fuel; water heating—heat storage cooker. Auxiliary: cooking—none; room heating—gas or electric point; water heating—none. Right-top, the dining-kitchen. Right, typical storage units in the dining-kitchen; the larder, on the right, is part of the structure.

OF HOUSING



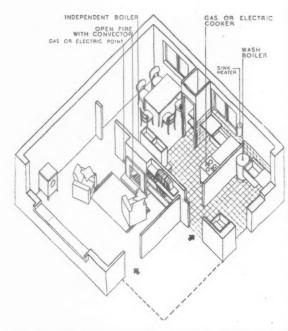






EQUIPMENT

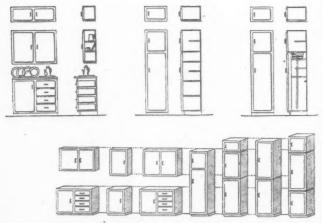




V. DINING SPACE OFF KITCHEN

Main: cooking-gas or electric cooker; room heatingopen fire with convection device; water heating-independent boiler. Auxiliary: cooking—none; room heating—gas or electric point; water heating—gas or electric sink heater. Left, the wash-house or utility room (also in No. IV).





KITCHEN **STORAGE**

Top, the three basic units which form the minimum required in any kitchen; left, dresser; centre, dry goods storage cup-board; right, broom cupboard. Above, how the units fit together; the standard width is 21 in., and there are two standard depths—12 in. and 19 in. It is recommended that cupboards should be finished with a washable surface and should extend to the ceiling. The worktable top is 3 ft. 0 in. high. A toe recess, 3 in. high and 2 in. deep, is provided at the base of all fittings. Left, a typical storage unit; broom cupboard on left, dry goods on right.

INFORMATION CENTRE

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

PHYSICAL PLANNING

N

ent

mr

TS ired cupt totwo that and) in. d at

nom

N

Dudley Report

DESIGN OF DWELLINGS. Report of the Design of Dwellings Sub-Committee of the Central Housing Advisory Committee of the Ministry of Health (the Dudley Committee). (HMSO, 1s. Reviewed in Architect's Journal, leading article, August 24, 1944, p. 135. Précis of report on site planning, same issue, pp. 149-150.) Valuable guide to local authorities. Proposals for raising all-round standard of post-war housing of 3-4 million houses. Stresses need for greater flexibility in planning than in past. Suggestion for lay-out of kitchen-eating arrangements. 900 ft. super regarded as minimum space for 3-bedroom house. Recommendations for equipment. Excellent special report of a study group of the Ministry of Town and Country Planning on site planning and lay-out in relation to housing

The MOTCP report on site planning and lay-out is of special value, and is in six parts: 1, Relationship of housing and town planning. 2, Neighbourhood planning. 3, Space about buildings. 4, Roads and car parking. 5, Architectural form. 6, Planting in streets and public places.

Important points are: Unquestioned acceptance of the old pat-tern as the basis for the new will not affect any real improvement. It perpetuates the weakness of piecemeal redevelopment, and

the mistake of determining the proportion of houses to flats, not on the needs of the community as a whole, but on the cost and availability of particular parcels of land. It is the overall density of a whole neighbourhood which should be borne in mind as well as the local densities of groups of houses or estates. houses or estates.

2. The neighbourhood unit is recommended to restore the sense of forming part of a recognizable community; 10,000 is suggested as the ideal population for such a

It is desirable that there should be some principal focal point, some definite centre in every neighbourhood; and, so far as it can be achieved, every centre should have its own individual character. Among neighbourhood buildings which may well be at the centre are places of worship, the branchlibrary, a cinema, public house, branch administrative buildings, the necessary clinics, smaller club buildings and shops. The following table from the report indi-

cates the relative acreage suggested for the

various needs:

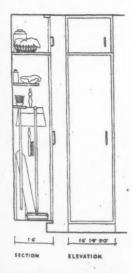
A RESIDENTIAL NEIGHBOURHOOD OF 10,000 PERSONS.

Use	Open Develop- ment	Outer Ring	Inner Ring	Central	Central
Housing	Acres 333	Acres 200	Acres 133	Acres 100	Acres 83
Primary schools (3-11 years of age) (School and playing field area)	17	17	17	17	17
Open space	70	70	60	50	40
Shops, offices, etc.		8	7	6	5
Community centre, churches, etc	7	5	4	3	3
Public buildings		3	2 5	2 .	2
Service industry and workshops Main roads, including half boundary roads,	7	6	5	. 4	4
up to a maximum of 20 ft., and parking.	35	28	20	17	14
Totals	482.	337	248	199	168
Average net residential density*	30	50	75	100	120
Gross neighbourhood density†	21	30	40	50	60

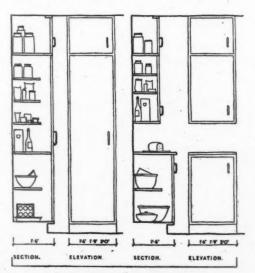
Net residential density is the average number of persons per acre of housing area; which comprises the curtilages
of the dwellings, access or internal roads and half the boundary main roads up to a maximum of 20 feet, where these
are contiguous to residential property.
 † Gross density is the average number of persons per acre of the whole neighbourhood, the acreage of which is
hown by the totals.

SINGLE FULL SIZE UNIT.

SINGLE FULL SIZE UNIT. SINGLE UNIT 2. SECTIONS. DOUBLE UNIT 2. SECTIONS.



BROOM CUPBOARD.



ALTERNATIVE DRY GOODS CUPBOARDS.



DRESSER FITTING.

Storage fittings. From Design of Dwellings. See No. 1684

3. The Report suggests that henceforth three separate measures of density planning and/or control may be necessary. First, there should be a population density planned for every neighbourhood. Second, there should be a floor-space standard applied to defined areas (e.g., areas of 100-300 houses; on the lines of the land-units under which housing densities have been calculated in town-planning schemes in the past). Third, there should be a control safeguarding the lighting (15-18° angle of obstruction at sill level) and amenity space for every building. building.

4. It is unsatisfactory to design a pattern and then fit the necessary buildings to it. The buildings and their approaches must be thought of together. The pattern of domestic roads should generally be of a free and varied rectangular kind. There are greater architectural opportunities in the arrangement of houses in terraces than in semi-detached blocks. The provision of garages for all types of houses must be considered.

5. Existing trees should be retained and incorporated in layouts. The top soil from roads and building sites should be set aside and saved. If some division between pavement and front garden, and between adjoining front gardens, is felt to be necessary, this should be provided by a low hedge or a simple low wall or fence, probably not more than 48 in. or 2 ft. high. For the divisions between rear gardens, a much higher fence, and a solid one, is necessary if the privacy which should be an essential characteristic of the private garden is to be maintained. The most practical proposi-tion may be to build a wall for such distance, say 7 ft. or 8 ft., as will assure the privacy of windows, and beyond that to plant a substantial hedge.

Scottish Report 1685

PLANNING OUR NEW HOMES. Report by the Scottish Housing Advisory Committee on the Design, Planning and Furnishing of New Homes. (HMSO, 3s. Reviewed in the Architect's Journal, leading article, March 30, 1944, p. 237.) Outlines scope of Scottish post-war housing problem. Recommends three-stage programme. Furniture, equipment, and neighbourhood planning dealt with. Well produced and fully illustrated.

The first housing stage recommended is the building of temporary, mass-produced houses, together with full use of converted war buildings and the erection of Duplex

houses.

The second stage, which is to proceed at the same time as the first, is the building of permanent houses to short-term standards.

The third stage, which is to be started as soon as costs are stabilized, and labour and materials are plentiful, will provide per-manent houses to improved long-term stan-

A chapter deals with services, fittings, plumbing, air convection, district heating and refuse disposal. Built-in kitchen equip-

ment is considered and specified.

The second part of the report deals with the provision of furniture in houses built by local authorities, with recommendations for extending the Utility Furniture scheme.

The report covers planning to the extent of the direct relationship of housing to planning in such matters as neighbourhood units, community services and buildings, grouping and spacing of houses, design of street furniture tree planting and sardens. furniture, tree planting and gardens, water and sanitation, and roads. Terrace housing is recommended as being " in the best traditions of Scottish domestic architecture.

LIGHTING

Public Buildings

LIGHT SOURCES FOR PUBLIC BUILDINGS IN NEW YORK CITY. A. Lorch. (Lighting and Lamps, June, 1944, p. Various lighting arrangements examined by New York City Architects's Department for standard use in public buildings. Article deals mostly with hospital ward lighting.

In the course of preparing its post-war programme, the New York City Public Works Department has had to examine details of several functional problems, among

which is lighting.

The article is introduced by explaining the Department's attitude to lighting. They are obviously advanced in general thought, well past the foot-candle stage and the indirect lighting fetish, both of which they firmly place on one side. They have made the several model rooms for trials and have up several model rooms for trials and have examined arrangements of lamps—mostly fluorescent—for general economics, main-

tenance, safety, comfort and purpose.

The article is mainly devoted to their analysis of hospital ward lighting. Their main requirements were determined as

follows:

General light at low intensity, glare free, with small, louvred, night lights near floor level.

2. Localized bed-head lighting for reading and examination of patients. Must be comfortable for people lying down.

3. Fixtures accessible for servicing.
4. Glassware avoided as a hazard.

5. Freedom from direct radiant heat from

lamps to patients. The various combinations of lamps which vere examined are discussed pro and con. One incandescent indirect arrangement was judged fairly satisfactory, but preference was given to a semi-direct fluorescent grouping. Four other systems were tried.

Daylighting Classrooms

THE WAYS OF DAYLIGHTING CLASS-ROOMS. D. Haskell. (Architectural Record, May, 1944, p. 75.) American experience of classroom daylighting. Suggestions for new glazing arrangements. Emphasis on value of reflecting surfaces and louvres.

This note discusses some existing experi-mental classroom types and includes several suggestions for new developments based on

the experimental designs.

Four unilateral types are discussed first. All employ sloping ceilings by which window head heights are raised to 13 ft. or more, and by which it is also claimed that better light diffusion is obtained. In all cases louvres or venetian blinds are emcases louvres or venetian blinds are employed, though in one case the louvred effect is secured by the use of the mortar beds between glass blocks, the latter also serving as redirective panels. The louvres are shown in several ingenious forms and apparently are used for schools in all climatic circumstances. climatic circumstances.

It is difficult to see what value the sloping ceiling has, because, after all, a reflector must receive light before it is useful, and very little direct light normally comes at a enough angle to strike even a sloping

ceiling effectively.

There are six bilateral examples, all consisting of unilateral schemes augmented by clerestories and the opposite wall.

The clerestories are usually heavily loaded in these schemes, though in one ingenious arrangement there is a horizontal white reflector just below the clerestory externally, and a special reflector on the ceiling in-

side, so that a highly efficient arrangement is achieved.

A group of special designs for extra size classrooms is included. The lighting arrangements resemble factory designs, being forms of monitors and saw-tooth

One is left with the impression that in some of these ingenious arrangements the principles of lighting are not too clearly understood. However, the consistent use of louvres and venetian blinds seems to indicate widespread confidence in their usefulness that probably has a firm back-One can see this influence opera-

ating now in this country.

The measurements by which the lighting curves were determined do not conform in technique to that used in this country. They are foot-candle measurements, which are likely to be unreliable because of the wide variability of daylight intensities even under comparatively stable weather conditions. Nor is sunlight and daylight well differentiated. In this country a ratio, the daylight factor, is used, constant for all conditions. Some caution should be exercised therefore in interpreting the curves data given.

New Lamps

A REVIEW OF NEW LAMPS. (Architectural Forum, July, 1944, p. 12.) New incandescent and discharge lamps likely to be available in America after

This article is a useful and interesting catalogue of new lamp types which will be available in America, and presumably later in England, after the war. The main

types listed are these:—
275 watt sun lamp (for ordinary sockets).

Low wattage germicidal lamps.

Black light lamps. 1/10 and 1/25 watt neon glow lamps.

Infra-red lamps for heating and drying. Lamps with built-in reflectors.

The most interesting of these for architects are probably the first and second. The first gives a mixture of infra-red and ultra-violet radiation in the form of a golden light like sunshine. Thus heat and health come from the same source, which should be very useful. It is intended for use in places like bathrooms, and has a life of 400 applications.

The second lamp—the germicidal type

has an almost infinite variety of uses, from home and school, to meat storage and

dairy work.

Black light lamps—the third type—are simply sources of, ultra-violet of a fre-quency useful for activating fluorescent ceilings.

The last type is ingenious, and no doubt will come into wide use quickly. The lamp is given a suitable shape for a reflector, and is then silvered on the inside. It The lamp would presumably be convenient for industrial and other concentrated beam uses.

PLUMBING

and Sanitation

1689

Plumbing in USA

POST-WAR PLUMBING IN USA. Norman J. Rodder. (The Plumbing Trade Journal, August, 1944. Culled from the National Real Estate Journal.) Brief notes on materials and fittings. Plastics. Fibre pipes. Shower baths. Dental lavatories. Flushing valves.

nt

ing will bly ain ts).

chi-ond. and f a and nich for s a

are fre-cent

amp etor. It dus-

USA
USA
bing
alled
nal.)
ngs.
nths.





The most concentrated form of structural strength in building: the

STEEL FRAME

THE BRITISH STEELWORK ASSOCIATION



This is the result of a pre-war fire | These are the things that survived

Why did the staircase and drainpipes survive?

A fire-resisting material?

Because they were made from an old, tried, trustworthy material that's as modern as anything produced by the laboratory this century.

More than that - a material that not only resists heat, but has greater resistance to corrosion than either wrought iron or steel, and has vast strength in compression.

IT MUST BE A CAST IRON PROPOSITION- IT IS

THIS IS ONLY ONE OF THOUSANDS OF PROOFS THAT

CAST IRON CAN TAKE IT

PUBLISHED BY THE BRITISH IRONFOUNDERS ASSOCIATION 145 ST. VINCENT STREET, GLASGOW, CZ



ed v, c2

vi T en with all www.initionals.but B.h.s SD and place move of the control of the the chemical distriction of th

The brief notes reported are not of great value, but a few interesting points are made. The author considers that wartime expedients have produced little or nothing which is likely to alter the use of traditional materials. Plastics may have an tional materials. Plastics may have an application in a minor way, and fibre pipes will be used for outside sewer and drain work. On fittings the chief points of interest to us in this country are an indication that shower baths are regarded now as normal house equipment. They may be combined with both the combined with the combined be combined with bath tub or separate units. The overhead shower is obsolete. Bath tubs in better class work tend to have a turn up against the wall to prevent seepage of water between bath and wall. Dental lavatories are gaining favour. These are small, have a flushing rim, and no drain plug. Flushing valves of new types are being made. (The DSIR Plumbing Com-mittee Report does not recommend such valves for use in this country.)

QUESTIONS and Answers

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

1690 Contractors' Profit

What is the prevailing method in the UK of fixing Contractors' profit on building contracts, with particular reference to the Ministry of Home Security Form of Contract? I would like to know the percentage profit generally allotted, and whether it is based wholly on contractors' labour costs, or on contractors' labour costs of materials not supplied by the contractor. contractor.

Procedure varies so much that we would restrict our remarks to the would restrict our remarks to the Ministry of Home Security Form of Prime Cost Contract. It would be misleading for us to refer only to overheads and profit without stating how the Contractor is paid under the Contract as a whole, so we are giving you a brief résumé of the contract.

1. The Contractor is paid his part costs.

1. The Contractor is paid his net costs, which include wages and materials; subcontracts; all insurances; carriage; royalties and fees; the hiring of heavy or mechanical or power plant; consumable stores, such as fuel, water and electric power; tool sharpening and testing materials. Here we would point out that in other forms of contract insurances for instance may be considered. insurances, for instance, may be considered as part of the overheads.

The heavy or mechanical plant, etc., mentioned above, includes such things as mechanical navvies, scrapers, bulldozers, cranes, concrete mixers, lorries, compressors, pneumatic tools, steel scaffolding and tarpaulins.

2. The contractor is paid a percentage upon the net costs for hand tools and appliances, including ladders, wood scaffolding, picks, shovels, etc., the percentage being 2½ per cent. when the net cost does not exceed £5,000, 2 per cent. when the net cost exceeds £5,000, but does not exceed £10,000, and 1½ per cent. when the net cost exceeds £10,000.

3. For overhead charges and profit and

all costs not mentioned in 1 and 2 above, the contractor is paid a sum calculated upon a sliding scale, from which we give a few examples:

Ne			as in	Overheads and profit					
	Up	to	£1,000.	121	per	cent.			
	,,		£2,000.	10	99	99			
	22		£3,000.	9	22	22			
	22	93	£4,000.	8	99	99			
	**	22	£6,000.	7	99	9.9			
	" to	ӣ	£12,000 25,000.	6	**	**			

As suggested above, it is important to re As suggested above, it is important to remember when comparing these figures with other contracts, that the allowances for overheads and profit do not include the cost of hand tools and appliances, insurances and hire of mechanical equipment, which are sometimes regarded as overheads, i.e., an allowance of 12½ per cent, under this contract may not compare unfavourable. this contract may not compare unfavourably with an allowance of perhaps 20 per cent. under another contract in which the term overheads is used to cover practically everything but labour and material.



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

ICE

Manzoni

At the Institution of Civil Engineers. Lecture on The Basis of Town and Country Planning, by H. J. Manzoni, C.B.E., M.INST.C.E., M.T.P.I, Engineer and Surveyor, Birmingham.

H. J. Manzoni: Perhaps the most difficult thing to realize is the manner in which the breadth and scope of physical planning has in-

creased. Just as in the consideration of the establishment of a basis for world peace, problems have to be dealt with from an international rather than a national point of view, so there is little doubt that physical planning has to proceed eventually to a similar world-wide goal.

A realization of the need of national plan-

ning is of very recent growth and there has been rapid development since the first town-planning legislation of 1909. Progress has naturally been speeded up by the effects of war on our towns and countryside.

The weaknesses which exist are due rather to unco-ordinated planning than to lack of planning. Local Authorities have been busy planning for years and have endeavoured in many instances to operate via joint com-mittees on a regional basis also. The difficulties they have to meet are due to a lack of a national basis and also to the lack of a formula according to which their consea formula according to which their consequent responsibility has to be fulfilled. Regional planning involves financial obligations of a very comprehensive character, and it is in that respect that the difficulties have been insurmountable in the past. The natural desire and object of any Local Authority is to foster the welfare of its own ratepayers by the provision of more and more adequate services. The money reor rates and, as rates are based upon the use of land, the authorities have aimed at attracting the maximum possible use of land for the most remunerative rate purposes.

The Need for a National Plan.

It is not very difficult to divide the whole country into regions having boundaries more or less suitable for planning purposes, but the character of those regions will vary widely. The one underlying similarity will be the need to define upon a rational basis those parts of each which should be used for the establishment of urban communi-ties, or reserved from these purposes and used for open space or for agriculture.

used for open space or for agriculture.

In order to obtain the best results, it will be necessary to commence from the basis of a national skeleton plan showing such important aspects of Government policy as main communications, location of industry, national reservations of parklands and seashore and prescribing suitable regional boundaries. Such a plan will indicate also the national development of power resources boundaries. Such a plan will indicate also the national development of power resources and will be accompanied by a definite policy for agriculture and certain standards, e.g., of building, as a guide to detail planning. Unfortunately no such skeleton plan is available but, when it is considered that, within the setting of national planning in its widest sense, plans for education, public health, social security, economic development and the whole catalogue of national reconstruction policy has to be included, then the time lag in its preparation will emphasize a measure of its magnitude.

Regional Plans.

The second stage in the logical sequence is regional planning, before the third and final stage, local planning can be carried out. Unfortunately local planning cannot wait upon the preparation of national and regional plans, and so, quite rightly, has to be taken in hand by Local Authorities on the best assumptions possible. In the same way, it is obvious that regional consideraway, it is obvious that regional consideration of physical planning is a very urgent matter—so urgent indeed that there is no time to wait for the completion of the national plan, concerning which it is connational plan, contesting which it is consequently necessary to make certain broad assumptions based upon local factors which are likely to be relevant. Examples of such assumptions are not difficult to cite and Local Authorities and private local associations have them well in mind; for example, certain parts of the country have long been considered suitable as national parks or as recreative coastal areas; other districts contain valuable coal measures as yet un-worked, or agricultural soil of the highest The development of the Severn quality. navigation, a bridge across the Humber from Hull to open a new highway across Lincolnshire and a national scheme of water conservation are other logical assumptions. Even the main lines of a desirable new national communication system can be fore-

cast with reason.

Regional planning should not aim at filling in detailed layout, but its function is to de-fine the areas within which the land should be used by each of the two main groups of urban and rural activities, to co-ordinate the local plans so as to prevent marginal incon-sistency and to plan in outline and, in some cases, in main details any physical features such as main roads, river improvements or airports. Regional planning, like national and local planning, should proceed upon the basis of a comprehensive survey of existing conditions and several excellent examples of that work have been completed and exhibited in the past year or two relating to the city of Kingston-upon-Hull, the county of Gloucester and Birmingham, while probably the most comprehensive survey of its kind is nearing completion in connection with a survey of the county of Hereford by the West Midland Group on Post-War Reconstruction and Planning.

Basic Planning.

From such surveys the basic planning for the area concerned can be carried out covering such main aspects as communications, water supply, drainage, etc. The fundamen-tal factor of planning is the wisest use of land in the interests of the whole community and consequently the first deduction to be drawn from any planning survey concerns the division of the area into use zones. The more important factors which govern the choice of use zones are the needs of the area, the governing physical features and the artificial services, including transport, drainage, water, gas, electricity, social and health services, etc.

Sieve Method of Analysis.

An interesting technique developed to prepare a zoning plan of a region is known as the sieve method of analysis. It consists of using the various survey maps as a sieve through which to pass the needs or require-ments of the area. For that purpose, each ments of the area. For that purpose, each item of the survey should be shown on a separate map. To take an example—the overspill from the congested centre of a large town is estimated at 20,000 persons. By placing the sieve maps over the Ordnance Survey of the region, those districts which are unsuitable might be immediately eliminated, such as areas having a high degree of natural beauty, good agricultural soil. of natural beauty, good agricultural soil, steeply sloping land or areas where the subsoil is damp or liable to subsidence. That will leave certain defined districts where urban development may be contemplated. To each of these may now be applied the sieve maps of the services and these will further narrow the issue, which will ultimately be presented as a simplified choice between a few well-defined plots of land. There are, of course, many other consider-

ations which have to enter into the making of a regional zoning plan, such as the possibility of mining, the requirements of the national plan, the limitation of built-up areas, co-ordination with the plans of adjoining regions and any physical features which may influence the location of parti-

cular industries. From that stage, the development of the regional plan depends mainly on considerations of an engineering character because it

involves the supply or expansion of services to the proposed urban communities which cannot be established without them.

Local or Town Planning.

Local planning or town planning should follow the preparation of the regional plan; although, as pointed out before, it has been necessary in many areas to go ahead with the preparation of local plans. Those again should be based on a survey, but the items of the survey will be very different in em-Whilst services will normally be available and geology, soil quality and con-tours are of little importance, road traffic is of primary importance and the larger the town the more important it becomes be-cause of the density of population. The correct siting of industry and the provision of adequate housing accommodation are also essential. It is the function of local planning to foresee building development and to control it in time and space so as to achieve orderliness at all stages.

Necessity for Co-ordination.

From each stage of construction-national, regional and local—the science of engineer-ing is interspersed with the work of other specialists. The whole should be co-ordispecialists. The whole should be co-ordinated by one person or group of persons working in harmony. In practice, that is best achieved by a single co-ordinator who should have had a thorough training in one of the basic professions of engineering, architecture or surveying and, in addition, should have had a long experience of the actual work itself in all its aspects. Men who have had the necessary experience can, with a few notable exceptions, be found in the service of the many local authorities throughout the country and the majority hold executive appointments as municipal or county surveyors.

HC

Stephenson

October 17, at 13, Suffolk Street, S.W.1. Meeting of the Housing Centre. Lecture on SITE PLANNING AND LAY-OUT IN RELATION TO HOUSING, by Gordon Stephenson. Chairman. Reginald Browne.

G. Stephenson: The relationship of housing and town planning is not generally seen, but is nevertheless very important. The location of housing is important in relation to transport, industry and provision of open space; it should be considered regionally rather than as a local problem. Density is another matter where housing has a direct relation to town planning. When reconrelation to town planning. When reconstruction is undertaken there is a marked tendency to have enormously high densities in the centre of the town scaling down to very low densities further out. This is because the work is undertaken piecebecause the work is undertaken piece-meal, the reconstruction of the central area being regarded merely as the pulling down of some houses and replacing them with blocks. An area of several acres should be dealt with at one time so that there may be a variety of houses and densities within the one general overall densities

within the one general overall density.

The most controversial part of the Dudley Report deals with neighbourhood planning, but there is general agreement that resi-dential areas should be considered as units within a town, and there are certain factors within a town, and there are certain factors which suggest a size for such units. Because people shop almost daily there should be a reasonably good shopping centre within easy reach. Schools should be properly related to housing. Churches, clubrooms, community centres, etc., should have a place in a residential neighbourhood, and should be thought of when the midding also for be thought of when the guiding plan for development is prepared. There should There should

be an adequate provision of open space whether the residential neighbourhood is in the centre of the town or on the outskirts.
The appendix of the Dudley Report suggests that the neighbourhood should have ten thousand people, and that in the centre of towns the highest density should be about one hundred persons per acre. That gives the possibility of providing a complete cross section of dwelling types, roughly 75 per cent. in houses and 25 per cent. in flats, and with variations within each of those two major groups. Our open space system should be revised so as to be closely related to the houses. Small open spaces should be frequently provided so that very young children can use them, and there should be a possibility of open spaces leading from all homes to the schools. Main traffic roads should never cross residential areas, but pass between them: eventually it will be possible to form buffers of open space between most traffic roads and residential areas.

One section of the Report deals with the arrangement of buildings so that every habitable room should at some time of the day have the sun shining into it. Aspects day have the sun shining into it. Aspects between north-west and north-east should be avoided. Real difficulties arise in the daylighting of flats. In the London area blocks exist, built fairly recently, where rooms on the lower floors have to be lighted artificially most of the day. The closed courtyard is the worst type of plan for the adequate daylighting of flats.

courtyard is the worst type of plan for the adequate daylighting of flats.

The terrace house is by far the most satisfactory form of dwelling—not the old fashioned type, but the modern one, of which a few examples exist.

When developing a new housing estate trees should be spared as far as possible, but it should be remembered that old trees are sometimes dangerous. As the best agricultural soil tends to be more and more protected from being built upon the more protected from being built upon, the top soil of such sites as are available for housing becomes precious. It should be be removed from the house site and put on one side to be afterwards laid on the garden. Footpaths should be five or six feet wide so as to allow two perambulators to pass each other.

EDA

Model Kitchens

The British Electrical Development Association has issued a booklet called ELECTRIC KITCHEN PLANS FOR LOW-COST POST-WAR HOMES, intended primarily to assist housing authorities and all others responsible for house design.

The booklet is the outcome of scientific study of the needs of the housewife and the functions and work methods of the kitchen. Experts on the panel from whom the Association sought advice include Frederick Gibberd, Howard Robertson and Louis de

Soissons.

The objects of the task were to design allelectric kitchens which were the best-planned and easiest to work that human ingenuity and knowledge could devise, at a cost which lined up with the probable cost of the dwelling.

Plans of four types of kitchen are included in the booklet, two for houses and two for flats. Equipment includes cooker, refrigerator, water-heater, space-heater, shadowless (fluorescent) lighting, wash-boiler or washing machine, clothes drier, clock, and plug points for kettle, iron, mixing machine, and other accessories.

Full-scale working models of the kitchens are being built in London, and will soon be open for inspection by local authorities and

other official representatives.

Post-war Priority No. 1 - HOUSING

VIIIMINIIIW 8

space is in skirts, Report should in the should acre, ding a types, 25 per within

open as to Small

them,

o the never

form

traffic th the every of the sspects should in the area where ighted closed or the

e old e, of

estate

sible,

old the

and

the for be

t on the six tors

S

ent

wed es Paofing

Window-trames

Onlies

Door-Annales

(Internal seal and celling goanlings)

Linternal electrical Astronomy

Here are a few of the more obvious uses for aluminium in the factory-made house. But apart from these, there are scores of interior uses, such as kitchen and bathroom equipment, ventilators, door and window-frames and architraves, skirting and cornice strips, and so forth. The lightness and strength of aluminium alloys together with their remarkable properties, good looks, resistance to corrosion, and colour finishes, suggest new techniques of construction and architectural design.

We can give you FACTS about ALUMINIUM

- man Makers of NORAL products

and the Emergency Factory-made House

Sir Stafford Gripps, Minister of Aircraft Production, has formed a committee to carry out research into the application of aluminium and its alloys in factory-made houses. This will help to relieve the housing shortage; it will absorb skilled labour, and keep factories husy. Specialists agree that the aluminium industry could produce materials for 1,000 houses a week.



RITCHER AND BATHROOM UNIT.
Here aluminium alloys can be used to advantage. The kitchen assembly. comprising cooker, sink and refrigerator offers opportunities for originality in design. construction and surface finishes

Write to Northern Aluminium and we will let you have a frank statement on what aluminium alloys will and what they won't do to help your particular problem of design and production

If, as an architect or builder,
you have a problem which the use of aluminium may
solve, write to us for

The Facts about Aluminium and its Alloys

PRICES

BY DAVIS, BELFIELD AND EVEREST, CHARTERED QUANTITY SURVEYORS

BASIC MATERIALS	Increase over pre-war prices at end of										
DASIC MATERIALS	Jan. 1944	Feb. 1944	Mar. 1944	Apr. 1944	May 1944	June 1944	July 1944	Aug. 1944	Sept. 1944	Oct. 1944	
Portland cement -in Unscreened ballast Fletton bricks (at station) Stoneware drainpipes (British	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	
	+ 41.46	+ 41.46	+ 41.46	+ 41.46	+ 41.46	+ 41.46	+ 41.46	+ 41.46	+ 41.46	+ 41.46	
	+108.70	+108.70	+108.70	+108.70	+108.70	+108.70	+108.70	+108.70	+108.70	+108.70	
	+ 29.73	+ 29.73	+ 29.73	+ 29.73	+ 29.73	+ 32.43	+ 32.43	+ 32.43	+ 34.59	+ 34.59	
Standard) (2 tons and over)	+ 43.75	+ 43.75	+ 43.75	+ 43.75	+ 43.75	+ 43.75	+ 43.75	+ 43.75	+ 43.75	+ 43.75	
Roofing tiles	+ 45	+ 45	+ 60	+ 60	+ 60	+ 60	+ 60	+ 65	+ 65	+ 65	
Steel joists (basic sections ex mills) Lime greystone Sheet lead	+ 47.5	+ 47.5	+ 47.5	+ 47.5	+ 47.5	+ 47.5	+ 47.5	+ 47.5	+ 47.5	+ 47.5	
	+ 43.53	+ 43.53	+ 43.53	+ 43.53	+ 43.53	+ 43.53	+ 43.53	+ 43.53	+ 43.53	+ 43.53	
	+ 65.22	+ 65.22	+ 65.22	+ 65.22	+ 65.22	+ 73.91	+ 73.91	+ 73.91	+ 73.91	+ 73.91	
Iron rainwater goods and soil pipes	+ 32.5	+ 32.5	+ 32.5	+ 32.5	+ 32.5	+ 32.5	+ 32.5	+ 40.5	+ 40.5	+ 40.5	
	+ 46.21	+ 46.21	+ 46.21	+ 46.21	+ 46.21	+ 46.21	+ 46.21	+ 46.21	+ 46.21	+ 43.18	
RATES OF WAGES (Central London Area)											
Labourers Craftsmen	01 42			+ 26.98 + 21.43	+ 26.98 + 21.43	+ 26.98 + 21.43	+ 26.98 + 21.43		+ 26.98 + 21.43	+ 26.98 + 21.43	

With From	N DISTRICT in 12 miles radius in 12-15 ,, ,,	 ONS	Craftsmen 2s.1½d. 2s. 1d.	LAB	OUR—Rate Labourers 1s. 8d. 1s. 7\(\frac{1}{4}\)d.	for Lo	V.B.—Prio	ces of mat	erials incl	tral
		A	A ¹	A ²	A^3	В	\mathbb{B}^1	B^{z}	B^3	C
*	Craftsmen Labourers	2/-	1/11½ 1/6½	1/11 1/41	1/10½ 1/5¾	1/10 1/5½	1/9½ 1/5	1/9 1/4}	1/8½ 1/4½	1/8 1/4

Jawain

F.S.I.

For Your Post War Reconstruction

Frederick Restall L^{TD}
GT: Hampton Street
BIRMINGHAM. 18.

Flush Doors of All Types Will Again Be Our Specialty
As PRE-WAR

TEL.: NORTHERN 2252

POST WAR HOUSE PLANNING IN PREFABRICATED UNITS

METAL STAIRCASE

1944 cent.

1.46 8.70 4.59

3.75

3.53

13.18

21.43

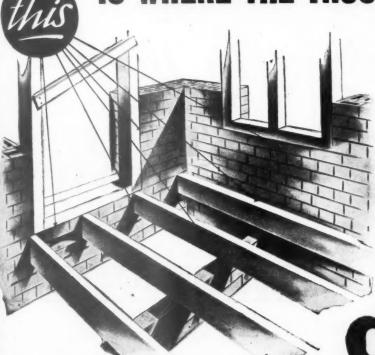
S.I.

- METAL KITCHEN CABINETS
- METAL SLIDING DOORS
 FABRICATED METAL SECTIONS





IS WHERE THE TROUBLE BEGINS!



Specified and used by the Admirolty, War Office, Air Ministry, Home Office, Ministry of Works and Planning, Ministry of Supply, Public Authorities, Architects, Builders and Contractors

This is where it is possible to get down to the real roots of dry-rot trouble. Built-in timbers in floor joists and wall-plates, floorings, door and window frames, are particularly susceptible to dry-rot attacks. They are surrounded by other building materials which tend to accumulate moisture and produce damp conditions in which Dry-Rot thrives. That is why all such timbers should be treated, and it is the soundest economy to treat them with S.Q.D. Green or Clear CUPRINOL, which, for an approximate cost of only one third of a penny per square foot, prevents rot and obviates expensive repairs. Cuprinol moreover has the added advantage in that it may be polished, painted or varnished over when thoroughly dry. S.Q.D. Green Cuprinol should also be used for stamping out existing dryrot outbreaks.

CUPRINOL WOOD AND FABRIC PRESERVATIVE

(Manufactured by Cuprinol, Ltd., London)

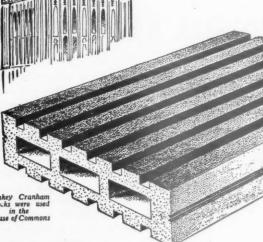
rite to JENSON & NICHOLSON LTD., CUPRINOL SECTION, 36 ST. JAMES'S ST., LONDON, S.W.I

The Test of Time



When Sankey's Cranham Blocks are chosen for new partitions in important old buildings, the choice is no haphazard one: but be-cause of their sterling qualities of fireand dampresis-tance; heat and sound insulation; and the special key for plastering. In addition, their great mechanicalstrength ensures that they will stand the "test of time"; and being light in weight, will impose no undue strain upon the foundations.

Please send ld. stamp for full particulars.



J.H. SANKEY& SON. LIP

22 ALDWYCH HOUSE, ALDWYCH, LONDON, W.C.2

HOLborn 6949 (14 lines).

Brickwork, Estrand, London.



will be to the fore

Make a note for Your specification

AND COMPANY LTD.

BRIGHOUSE, YORKSHIRE AND

68 VICTORIA ST., LONDON, S.W.I

BIRMINGHAM · BRISTOL · MANCHESTER · SHEFFIELD · HULL GLASGOW · ABERDEEN · DUBLIN



It's no part of our business to draw up a blue print of post-war building plans, but it's already obvious that, as a building medium, Brick will be as popular as ever. As manufacturers of Brick-making and Briquetting plant for over 50 years, we're glad to place our experience at the disposal of people who make bricks or are interested in doing so. The experts in our advisory department can help you select the best machinery for your particular purpose, and to supply full information regarding brick making procedure.

. HULL

Our "Emperor" Presses are made in various sizes capable of producing 1,200 to 2,400 bricks per hour and of exerting pressure from 100 to 200 tons. They produce high quality bricks of various types, including:

REFRACTORY BRICKS, SAND LIME BRICKS, AND BRICKS FROM WASTE MATERIAL SUCH AS SHALE.

CLINKER, ASHES, ETC.

SUTCLIFFE, SPEAKMAN

AND COMPANY LIMITED, LEIGH, LANCASHIRE

London Office: 66 Victoria Street. Tel: VICtoria 7982-3





WHEN "THE TIMES" WAS FIRST PUBLISHED in January 1788 Nobles & Hoare Ltd., had just embarked upon their long and successful business career.

For upwards of a century and a half they have adhered unswervingly to the policy of manufacturing only the best in Varnishes and Paints and have made many contributions to decorative art.

To-day, output is confined to "approved uses," but mindful of the post-war needs of the country, plans for meeting all future demands are already in hand.





Nobles & Hoare

Varnish, Paint and Cellulose Lacquer Manufacturers, Woodbridge Works. Kingston Road, Leatherhead, Surrey Tel: Leatherhead 2450 & 2992.

REDFERNS for RUBBER

service after the war.

REDFERN'S RUBBER WORKS LTD. HYDE

KEX PRODUCTS

LOOKING AHEAD

For many years now large users of Rubber, Cork, Leather and similar materials, have turned to Kautex for a solution to their problem. The uses for this well-known combination of Cork and Rubber have been greatly extended during war-time. In addition other goods manufactured by Kautex Plastics Ltd. and Associated Companies have taken their place alongside their older established products. Looking ahead to a not too far distant future when all these products will require wider recognition it has been decided to merchandise all the main products, manufactured by Kautex Plastics Ltd. and Associated

Companies, under a title that includes the word KEX. So, when looking ahead, look for a Kex product as a solution to your problems.



Kautex Plastics Ltd Elstree, Herts. Elstree 1777



STEEL



WAR-TIME EXPERIENCE APPLIED TO POST-WAR PLANNING

Over 150 Municipal Authorities, Electrical Undertakings and Government Departments use DURASTEEL 3DF2 Sheets in their Fire Protection Schemes. DURASTEEL 3DF2 SHEETING has been fully tested for Heat and Fire resistance (Official Rating BS/ARP 27 and BS/ARP 47). DURASTEEL Doors incorporating Durasteel Sheeting have passed official tests by the Fire Offices Committee, and are built to approved specification.

TO-DAY ORDERS CAN BE TAKEN

for DURASTEEL Fire Protection Doors. Inquire now about immediate needs and Post War Planning. Send too for technical data.

DURASTEEL ROOFS LIMITED

OLDFIELD LANE GREENFORD MIDDLESEX

Cementone

Has served in 12 WARS and is still ON ACTIVE SERVICE

For 168 years FREEMANS have served the building industry, for 168 years we have only supplied materials of proved quality. We are still serving and continuing our policy of supplying only proved materials, but our services are now mainly rendered to Government Departments and those employed on work of National Importance. Meantime YOU may have problems that CEMENTONE PRODUCTS can solve. We would be pleased to receive your enquiries for colouring cement, waterproofing, hardening, and dustproofing concrete, cement paints and colourless waterproofers for brickwork.

Write for our technical handbook.

JOSEPH FREEMAN, SONS & Co. LTD.

CEMENTONE WORKS, GARRATT LANE, WANDSWORTH, S.W.18.



What's behind all this? At the man

At the moment Sir, very little, but we have been hoarding our ideas for the past five years and when the time comes we shall have some interesting news for those who require our services.

We do not let the glass grow under our feet.

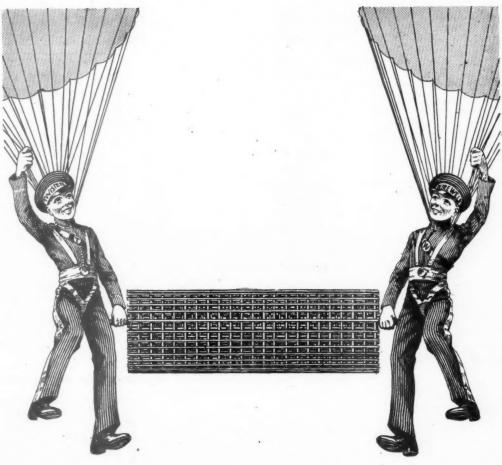


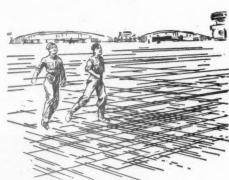
HAMMOND & CHAMPNESS

HASKINS WORKS, WALTHAMSTOW, LONDON, E.17. 'Phone: LARkswood 1071

FOR ALL TYPES OF ELECTRIC AND HAND POWER LIFTS







LANDING STRIPS

"Twisteel" and "Wireweld" have played (and are still playing!) an important part in the Battle of Europe, and many a landing strip has been laid and put into operation with remarkable speed and efficiency, thanks to the cunning design and unerring sturdiness of our

. . . . and what we can do under war conditions we can do even better still in peace time, so let us join with you in solving your post-war concreting problems.

TWISTEEL REINFORCEMENT LTD.

ALMA STREET, SMETHWICK, STAFFS

and at London, Belfast, Warrington and Glasgow

Telephone Nos.:

Smethwick 1991 (5 lines) London: SI Belfast 24641 (3 lines) Glasgow: City 7661 (4 lines)

London: Sloane 9218 (3 lines) Warrington 273

CLASSIFIED ADVERTISEMENTS

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 following week's paper.

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

Public and Official Announcements

Siz 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 Earon
Place, London, S.W.1. Tel.: Sloane 5615. 991

THE POLYTECHNIC, REGENT STREET, LONDON, W.1.

SCHOOL OF ARCHITECTURE AND TOWN PLANNING, SURVEYING AND BUILDING.

Applications are invited for the following posts:1. Part-time Lecturer in ARCHITECTURAL

subjects.

2. Part-time Lecturer in TOWN PLANNING Practice.

Practice.

3. Part-time Lecturer in CIVIL ENGIN-EERING in relation to Town Planning.

Candidates for 1 must have had previous teaching experience in a School of Building.

Candidates for 2 and 3 must be Members of the Town Planning Institute; a degree or diploma of a recognized School will be a recommendation.

mendation.

mendation. Further particulars and forms of application, which must be returned by 4th December, can be obtained by sending a stamped, addressed foolscap envelope to the Director of Education, The Polytechnic, 303, Regent Street, W.1. 882

COUNTY OF HOLLAND, LINCOLNSHIRE.

APPOINTMENT OF ASSISTANT PLANNING OFFICER.

The Holland Joint Planning Committee invite applications for the appointment of an Assistant Planning Officer at a commencing salary of £450 per annum, plus cost-of-living bonus and travelling expenses.

per annum, plus cost-of-living bonus and travelling expenses.

Applicants should be fully conversant with the Town and Country Planning Acts, Orders and Regulations, and should have passed the Final Examination of the Town Planning Joint Examination Board, and preference with a Country or Joint Planning Committee, and who hold an Architectural. Surveying, or Engineering qualification in addition.

The person appointed will be required to live in or near to Spalding, Lincolnshire, and to devote the whole of his time to the above duties. The appointment will be terminable by two months' notice in writing on either side, and will be subject to the Local Government Superannustion Acts.

Applications, stating age, qualifications, experience, and giving particulars as to liability to National Service (if any), accompanied by copies of three recent testimonials, and endorsed "A.P.O.," should reach the undersigned not later than 15th December, 1944.

THE POLYTECHNIC REGENT STREET.

THE POLYTECHNIC, REGENT STREET, LONDON, W.I.

SCHOOL OF ARCHITECTURE AND TOWN PLANNING, SURVEYING AND BUILDING.

Applications are invited for the following

Applications are invited for the following posts:—

1. Full-time Senior Lecturer and Studio Master in ARCHITECTURAL and TOWN PLANNING subjects.

2. Two full-time Studio Masters and Lecturers in ARCHITECTURAL subjects.

Candidates for 1 must be Fellows or Associates of the Royal Institute of British Architects. The degree or diploma of a fully recognized School in Architecture and Town Planning will be a recommendation. Previous teaching experience is an essential requirement. Candidates for 2 must be Fellows or Associates of the Royal Institute of British Architects. The degree or diploma of a recognized School will be a recommendation.

Salaries will be in accordance with the Burnham Technical Scale for London (plus wartime, honus), subject to the usual 5 per cent. Subject to the usual 5 per cent. Genus and Forms of application, which must be returned by 4th December. Can he, obtained by sending a stamped, addressed envelope to the Director of Education, The Polytechnic, 309, Regent Street, W.1.

URBAN DISTRICT OF PORTADOWN. APPOINTMENT OF ARCHITECT.

APPOINTMENT OF ARCHITECT.

The Portadown Urban District Council require the temporary services (in a full-time capacity) of an ARCHITECT to prepare a Town Planning, Housing and Boundary Extension Scheme, in collaboration with the Town Surveyor. The Scheme will require to be co-ordinated with the Armagh County Scheme.

Provided the Council is satisfied with the services given, the appointment will be for a period of 12 months in the first instance. Salary at the rate of £500 per annum, payable monthly. The appointment will be subject to the approval of the Ministry of Health and Local Government (N.I.), and may be terminated by three months' notice with the like approval.

Applicants must be Registered Architects, and should hold the final examination Certificate of the Town Planning Institute; and comply with the other provisions specified in the Northern Ireland Local Authorities (Architects Qualifications) Order, 1936 (S.R. & O., 1936, No. 140). A preference will be given to applicants having practical experience in the carrying out of Town Planning Schemes; and, all things being equal, to ex-Servicemen. Vouched travelling expenses will be recouped to applicants accepted to attend for interview.

Applications, stating qualifications, age, and experience, and accompanied by copies of two recent testimonials, will be received by the undersigned up to 12 noon on Friday, 8th December, 1944.

Dated this 14th November, 1944.

Dated this 14th November, 1944.

GEORGE McGOWAN,
Clerk of the C
Town Hall, Portadown, Northern Ireland. Council.

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

Wherever possible prospective employers are urged to give in their advertisement full information about the duty and responsibilities involved, the location of the office, and the salary offered. The inclusion of the Advertiser's name in lieu of a box number is welcomed.

RCHITECTS' DRAUGHTSMAN required for A London firm temporarily evacuated to Maidenhead; good salary and prospects to suitable applicant. Apply, stating age, qualifications, experience, and salary required to Box 836.

A RCHITECT'S ASSISTANT wanted to develop varying designs for approved new system of housing, preferably one having experience with speculative builder; London area. Apply fully, by letter only, to Stent Precast Concrete, Ltd., 1, Victoria Street, S.W.I. 880

A RCHITECTURAL ASSISTANT required at once; must be capable of levelling, general surveys, and preparing working drawings from sketches; salary offered £4 to £5 per week, according to capabilities. Apply, stating age, experience, etc., to Lea & Milner, F/L.R.I.B.A., 4, Market Hill, Huntingdon.

A RCHITECTURAL DRAUGHTSMAN.—
Senior Assistant required; with good prewar experience of factory, commercial and hospital work, construction and details; permanency considered for right applicant; state age and qualifications. H. S. Fairhurst & Son, Chancery Chambers, 55, Brown Street, Manchester, 2. ry₂.

SIR WILLIAM CRAWFORD & PARTNERS, LTD., consultants on Industrial Research and Design, wish to interview Architects or Technicians with experience or ability as Designers for Industry. Also a talented Junior Graduate Architect for training through assisting seniors and by practical experience in our workshops. Creative energy and initiative essential. Reply, giving full details, 233, High Holborn, W.C.1.

EXPERT ARCHITECTURAL DRAUGHTSMAN required; experienced and capable of
carrying through working drawings for work on
prefabricated housing in London; knowledge of
mechanical draughtsmanship an advantage; responsible position, good salary and fine postwar prospects; write, stating experience, age,
and salary required. Box 873.

Architectural Appointments Wanted

Architectural Assistants and Students seeking positions in Architects' offices will be printed in "The Architects' Journal" free of charge until further notice.

CONTINENTAL ARCHITECT, specialist in interior decoration and industrial design, seeks position, with scope, in London area. Box 871.

seeks pari-time I ADY ADY TRACER, exempt, seel situation; N.W. or Midlands. Tonge Head Avenue, Bolton.



AS EASILY AS A FAN'

Wm. OLIVER & SONS, Ltd.

(of Bunhill Row), 12/13 Bow Lane, E.C.4

HOME GROWN HARDWOODS

Quota Merchants for NATIONAL STOCK

STEELWORK BY & SONS

SWAN WORKS, HANWORTH, MIDDX.

'Phones: Feltham 3007. Sunbury 2367.

'Grams : " Sharman," Feltham



PRESSED STEEL TANKS

BRAITHWAITE & Co., ENGINEERS Ltd.

London Office: Temporary address

35, KINGS HOUSE, HAYMARKET, S.W.1 Telegrams: Bromkirk-Phone Telephone: WHI 3993.

FIRE **PROTECTION**

See Information Sheet No. 78. Copies may be obtained from

CLARKE & VIGILANT SPRINKLERS LTD

on St., Deansgate, Manchester, Phone: Deansgate 2727 8

and 10-13, Bedford St., Strand, W.C.2 Phone : Temple Bar 8314,5.

CORNOLITH TERRAZZO



Fireplaces for all types of post-war houses—coal, electric or gas type.

JOHNSTON BROTHERS

(Contractors) Ltd.

DOSELEY QUARRIES . DAWLEY .

Grams: JOHNSTONS, Dawley.

FAR obtained M. 228

ILY

N'

td. C.4 DS

DDX.

ERS

NKS

Ltd.

rk-Phone

ion

pies

ANT

SALOP

Post-war plans for EMERGENCY LIGHTING



When provision for Emergency Lighting is embodied in architect's plans, economy and better results are achieved. When post-war plans are in hand you should consult Chloride, who have had more experience of this kind of work than any other company. Moreover, they are the patentees of KEEPALITE—the equipment which instantly and automatically 'switches on,' should the mains fail.

Chloride

THE CHLORIDE ELECTRICAL STORAGE COMPANY LTD.,
Grosvenor Gardens House, Grosvenor Gardens, London, S.W.1



A RCHITECT'S ASSISTANT requires position in London on priority work; 10 years' experience. Box 389.

CHARTERED Structural Engineer offers services for part-time Design and Detail Work; R.C. or steelwork. Box 862.

TWO Assistants, one A.R.I.B.A., offer to undertake measured surveys, London or near to London. Write 40, Harvest Bank Road, West Wickham, Kent, or 45, Westbury Avenue, Wood Green, N.22.

A SSISTANT (28), is able to help Architect or Surveyor with plans, tracings, etc., or typing specifications, bills, etc., at home in spare time; at present engaged on full time National Service; fees by arrangement. Booker, Box 391.

CHIEF ASSISTANT (Chartered), with wide and varied experience, desires change; London area preferred, but not essential; position offered must be a permanent one of responsibility, with definite prospects of advancement and carry a substantial salary. Box 388.

BOY, aged 17, school certificate, requires position in Architect's Office with a view to taking the professional exams; will go to any district. R. Seegar, The Cobb, Berkhamstead, Herts.

A RCHITECT, with first-class training and long practice, including town planning, able to take charge of staff and to conduct any business, free April 1, 1945, requires position of responsibility, where drive, interest in and ability for hard work, would be fully appreciated. Early offers to Box 395.

RCHITECT, Property Manager, Clerk-of-Works, Building Surveyor, etc., seeks responsible position, not in London, but in Birmingham, Midlands, etc.; with over 30 years' theoretical and practical experience in all branches of the profession; building, allied, and specialist's trades; experience includes property management, maintenance, and a sound knowledge of Estate Work; not liable for Military and National Services; over military age, rendered War Service during 1914-18. Box 392.

Other Appointments Vacant

Four lines or under, 4s.; each additional line, 1s. ENGINEER occasionally needs perspective Drawings made in unshaded pencil form, or ink, from engineer's plan and elevational drawings, and invites enquiries from draughtsmen willing to undertake this work. Box 875.

A RTIST-DRAUGHTSMAN WANTED.-We are A RTIST-DRAUGHTSMAN WANTED.—We are requiring the occasional services of a man with the background of Architectural Draughtsmanship to carry out humorous whimsical drawings; if you are interested in free-lance work of this nature (which would be well paid) kindly contact us or send specimens. The Studio Manager, Rumble, Crowther & Nicholas, Ltd., 2, Arundel Street, London, W.C.2 (Temple Bar 9271).

Planning

As originators of the Auto-Recorder System of Machine Milking, we have had extensive experience of planning layouts to accommodate the new technique. The Ministry of Agriculture's Clean Milk Bill, when passed, will mean a large increase in the number of new or medified farm buildings required. The position will be affected also by the findings of the English and Scottish Commissions on this important subject. The service of our Technical Department is available to any Architect who may be consulted in these matters. Write in confidence to: Gascoignes (Reading), Ltd., Berkeley Avenue, Reading.

Miscellaneous

Four lines or under, 4s.; sack additional line, 1s.

J. BINNS, LTD., specialists in the supply and fixing of all types of fencing, tubular quard rail, factory partitions and gates. 53, Great Mariborough Street, W.1. Gerrard 4223-4224-4225

PENCING AND GATES of every type, supplied and erected. Specialists in chain link. Boulten & Paul, Limited, Norwich. 662

ALL Architectural Drawings expertly, confidentially, and speedily traced in large independent drawing office. Box 865.

MONOMARK Service. Permanent London daddress. Letters redirected immediately. Confidential, 5s. p.a. Royal Patronage. Key tags 3 for 1s. 3d. Write BM/MONO5R, W.C.L. 44

A RCHITECTURAL WORKING DRAW-INGS.—Details, Specifications, Surveys for proposed buildings or alterations, prepared by Qualified Senior Architect. Also Fine Art Per-spectives, in line or colour, executed by officially recognised Artist-Exhibitor. Box 847.

O. SHEPPARD, late of 21, Bedford Row, W.C.1 (and the Granwood Flooring Co., Ltd.), now at 1, East Road, Chadwell Heath, Essex, and on war work, thanks Architects for past cordiality, and looks forward to meeting them again when his new office opens.

For Sale

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

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

ARCHITECT'S BUSINESS IN AYR.

For immediate Sale, as a going concern, old and well-established Business of Chartered Architects and Surveyors, which includes Factoring of several Country Estates; connections extend throughout Ayrshire and Renfrewshire; excellent office in main thoroughfare, which consists of private room, working drawing room, typist's room, and public office; there is a plan sale and fitted-in furniture; furniture, office equipment, typewriters, etc., would be sold at a valuation; audited accounts can be produced.

For further particulars, apply to the Subscribers, who will receive offers:—

(Solicitors, 21), High Street, Ayr).

Note.—Information can culy be given to Principals, who must give their name and address.

Educational Announcements

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

R.I.B.A. QUALIFYING EXAMINATIONS.
Mr. C. W. Box, F.R.I.B.A., M.R.San.I.
Courses by Correspondence and Personal in Studio.
115, Gower St., London, W.C.1.
TELEPHONE: EUSTON 3305 and 3906.



Sale by Auction

Siz lines or under, 8s.; each additional line, 1s. By Direction of the Trustees of C. Lea Wilson, Deceased.

WEATHERALL, GREEN & SMITH
will Sell by Auction,
At the London Auction Mart, 155, Queen Victoria
Street, E.C.4,
On Wednesday, the 29th November, 1944,
at 12 and 2 p.m.

BECKENHAM.

BECKENHAM.

BECKENHAM.

Let on Leases, with valuable reversions, being Nos. 92-160 (even), 174-192 (even), 97-101 (odd), 115-143 (odd), HIGH STREET, in all producing £3,179 17s. per annum net. FREEHOLD HOUSES

Let on Leases, being in BURNHILL, FAIR-FIELD and LEA ROADS, etc. producing £460 18s. 4d. per annum. FREEHOLD GROUND RENTS of £178 per annum secured upon Shops and Houses in CROYDON ROAD. ACACIA and YEWTREE ROADS and GOWLAND PLACE.

BARNES. TOTTENHAM, FINSBURY, LEYTON

Houses in CROYDON ROAD, ACACIA and YEWTREE ROADS and GOWLAND PLACE.

BARNES, TOTTENHAM, FINSBURY, LEYTON AND ISLINGTON.
FREEHOLD GROUND RENTS OF £752 PER ANNUM
Secured on 39 Houses in ELM BANK GARDENS, BARNES; 79 Houses in TEW KESBURY ROAD, OSMAN ROAD, TYVERTON ROAD, ECKINGTON ROAD, HAREFIELD ROAD and TEMPLETON ROAD, TOTTENHAM; Nos. 38 and 42-48 (even), SUN STREET, FINSBURY.

LEASEHOLD GROUND RENTS OF £52 10s. PER ANNUM NET SECURED ON NOS. 11-31 (odd). GROVE GREEN ROAD, LEYTONSTONE, and the FREEHOLD PREMISES, No. 138, UPPER STREET, ISLINGTON, producing £225 per annum net, and freehold Warehouse Premises, No. 40, SUN STREET, FINSBURY. With vacant possession.

Particulars of the Solicitors, Messrs. Kennedy, Ponsonby & Co., and Messrs. Prideaux & Sons, 52, Bishopsgate, London, E.C.2., and the Auctioneers, 22, Chancery Lane, London, W.C.2. Tel.: Holborn 0584 (3 lines).

by Postal Method

is offered by the world's largest and greatest correspondence school in the following subjects:

Architecture
Architectural Drawing
and Designing
Building Contracting
Building Construction
and Interior Work
Building Construction
and Interior Work
Building Specifications
Building Specifications
Building Specifications
Structural Steelwork
Civil Engineering

Surveying and Mapping Municipal Engineering Plan and Map Draughtsmanship Structural Engineering Concrete Engineering

Structural Drawing Construction Draughts-manship

Sanitary Engineering
Air Conditioning
Heating and Ventilation

Special Courses for the Diplomas of the R.I.B.A., I.O.B., C.S.I. Inst.C.E. Inst.M. & Cy.E., Inst.Struct.E., R.S.I. Inst.S.E., etc. R.S.I.,

Special Terms for members of H.M. Forces.

Write to-day for Syllabus of our Courses in any of the subjects mentioned above

INTERNATIONAL

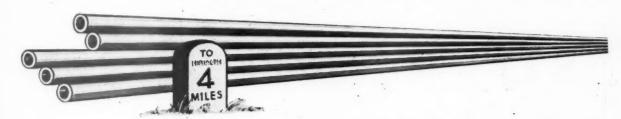
CORRESPONDENCE SCHOOLS, LTD. Dept. 141, International Buildings KINGSWAY, LONDON, W.C.2



TEL

is a system of dry Unit Construction for HOUSES, SCHOOLS, HOSPITALS & FACTORIES, which gives utmost speed of erection on the site.

One tank-5 consecutive hot baths! Post-war housing demands many improvements and a hot water system which eliminates much unnecessary piping. The Rolyat Hot Water Tank is the most up-to-date apparatus of its kind-one tank being sufficient for five consecutive baths -was included in the pre-fabricated plumbing unit which attracted so much attention at The Scottish Housing Exhibition at Clydebank. It is also included in the Specifications of some of the leading Housing Authorities for their post-war schemes. Fullest details on request.



Miles and miles of piping . . . pounds and pounds of steam pressure . . . tons and tons of fuel consumed . . . yet even the Chief is chilly. You've been faced with this problem heaps and heaps of times . . . and have always solved it. There are Vectairs, Univectairs and Projectaires . . . each of them does the same job in a different way, but very, very efficiently. The type of heater recommended depends upon the job it has

to do . . you generally know which type you want . . . If you are in doubt, please write us about your particular problem. We are confident that your contracts total will improve with the appropriate use of these modern heaters.



Vectair installation at Inver Court, Bayswater W.I.

oria

SES

IR-

and E.

TON

PER

NS, NG-and . 38 RY.

108.

EEN

pro-are-INS-

edy,

the

D and the

ping ship

ing ghts-iship mg

tion

nas

C.E. S.I.,

28. rses

L

S



BRITISH TRANE CO.

For Vectairs, write r Brochure No. V/A7. or Electric Vectairs, rochure No. EV/A9.

OR ELECTRICITY STEAM, HOT WATER

52 CLERKENWELL CLOSE, LONDON, E.C.I BRITISH TRANE CO. LTD., VECTAIR HOUS TELEPHONE: Clerkenwell 6864 & 3826. AGENCIES at: Belfast, Birmingham, Cardiff, Dublin, Glasgow, Liverpool, Newcastle, Sheffield and Torquay

Alphabetical Index to Advertisers

	PAGE		PAGE		Dion
Accrington Brick & Tile Co	TAGE	Evertaut, Ltd	xiv	Midland Woodworking Co., Ltd	PAGE
Aero Pipe & Glass Co., Ltd	ix	Ewart & Son, Ltd.	782 V	Mills Scaffold Co., Ltd.	xlviii
Aidas Electric, Ltd		Expandite Products, Ltd		Nobles & Hoare, Ltd.	XXXVIII
Allied Ironfounders, Ltd		Fordham Pressings, Ltd.		Northern Aluminium Co., Ltd	XXXIII
Anderson, C. F., & Son, Ltd	iv	Forrest, George, & Son, Ltd		Oliver, Wm., & Sons, Ltd	xlii
Anderson, D., & Son, Ltd		Freeman, Joseph, Sons & Co., Ltd	xxxix	P.I.M. Board Co., Ltd.	Au
Arkinstall Brothers, Ltd		Gaze, W. H., & Sons, Ltd		Positive Flow Ventilators, Ltd	
Ash's Manufacturing Co., Ltd		General Cable Manufacturing Co., Ltd.	X	Prodorite, Ltd	
Austin, F. (Leyton), Ltd	XXV	Gray, J. W., & Son, Ltd		Range Boilers, Ltd.	
Bailey, Sir W. H., & Co., Ltd	xliii	Greenwoods & Airvac Ventilating Co.,		Redfern's Rubber Works, Ltd	
Bemrose & Sons, Ltd		Ltd		Restall, Fredk., Ltd	XXXiv
Bigwood, Joshua, & Son, Ltd		Hall, J. & E., Ltd	xvii	Rolyat Tank Co., Ltd	xlv
Black & Decker, Ltd	xi	Hammond & Champness, Ltd	xl	Rownson, Drew & Clydesdale, Ltd	700 1
Blackburn, Thomas, & Sons, Ltd		Hardtmuth, L. & C. (Gt. Britain), Ltd.		Rustproof Metal Window Co., Ltd	-
Braithwaite & Co., Engineers, Ltd	xlii	Harvey, G. A., & Co. (London), Ltd	iii	Sadd, John, & Sons, Ltd	-
Briggs, William, & Sons, Ltd		Helliwell & Co., Ltd	xxxvi	Sankey, J. H., & Son, Ltd	xxxvi.
British Electrical Development Assoc.		Hills, F., & Sons, Ltd.	xix	Sankey-Sheldon	vii
British Ironfounders' Assoc	xxxii	Hilton, James & Son. (Leigh), Ltd	XXXV	Scaffolding (Gt. Britain), Ltd	XXX
British Steelwork Assoc	xxxi	Horseley Bridge & Thomas Piggott, Ltd.	iii	Sharman & Sons	xlii
British Trane Co., Ltd	xlv	Imperial Chemical Industries, Ltd		Siegwart Fireproof Floor Co., Ltd	
Brown, Donald (Brownall), Ltd		International Correspondence Schools		Smith, Henry	xliv
Burgess Products, Ltd	ii	Ltd.	xliv	Standard Range & Foundry Co., Ltd.	xxii
Celotex, Ltd.	xxi	Invisible Panel Warming Assoc	vi	Steel & Gunton, Ltd	XX
Chloride Electrical Storage Co., Ltd	xliii	Jenkins, Robert, & Co., Ltd	xlvii	Stott, James & Co. (Engineers), Ltd	
Clarke, T., & Co., Ltd	ii	Jenson & Nicholson, Ltd	XXXV	Sutcliffe, Speakman & Co., Ltd	XXXVII
Clarke & Vigilant Sprinklers, Ltd	xlii	Johnston Bros. (Contractors), Ltd	xliii	Telephone Rentals, Ltd	xiv
Colt, W. H. (London), Ltd		Kautex Plastics, Ltd	xxxviii	Tentest Fibre Board Co., Ltd	XV
Constructors, Ltd	XXXV	Ketton Portland Cement Co., Ltd	xlvii	Tretol, Ltd.	XXVII
Copper Development Association		Lacrinoid Products, Ltd	xii	Trussed Concrete Steel Co., Ltd	XXVi
Crittall Manufacturing Co., Ltd	xvi	Lighting Service Bureau		Tudor Accumulator Co., Ltd	ii
Crittall, Richard & Co., Ltd		Loft Ladders, Ltd	ii	Twisteel Reinforcement, Ltd	xii
Durasteel Roofs, Ltd	XXXXX	Magnet Joinery	viii	Uni-Seco Structures, Ltd	xliv
Eagle Range & Grate Co		Main, R. & A., Ltd.:	xxiii	United Steel Companies, Ltd	V
Easiclene-Porcelain Enamel (1938), Ltd.	XXIV	Mallinson, Wm., & Sons, Ltd		Universal Asbestos Mfrg. Co., Ltd	xxiv
Electrolux, Ltd.	xiii	Marley Tile Co., Ltd	xviii	Vulcan Products, Ltd	
Ellison, George, Ltd.	xlii	Matthews & Yates, Ltd	xl	Waxed-Papers, Ltd	xlii
English Joinery Manufacturers' Assoc.		McKechnie Bros., Ltd	xlvii *	Warwick Rim & Sectioning Co., Ltd.	XX
Esavian, Ltd.	xlii	Midland Electric Manufacturing Co.,		Wood Wool Building Slab Mfrs. Assoc.	
Etchells, Congdon & Muir, Ltd	X	Ltd.	xxviii	Zinc Alloy Rust-Proofing Co., Ltd	xlvi

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Educational Legal Notices, Miscellaneous Property and Land Sales—see pages xlii and xliv.

SHERARDIZING PREVENTS RUST!

SHERARDIZING IS FULFILLING AN IMPORTANT ROLE IN THE NATIONAL EFFORT

ZINC ALLOY RUST-PROOFING CO. LTD.

Crawford Street, Rochdale, Lancs

Shakespeare Street, Wolverhampton Minerva Road, Chase Estate, London, N.W.10

Copies of Information Sheet No. 108 and Text Book "Sherardizing" free on application

PAGE

XIVIII

XXVIII

XIII

XXXVIII

XXXXVI

XXXXVI

XXXXXI

XIII

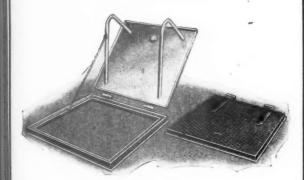
xliv xxii xx xxxvii xiv xv xxvii xxvi ii xiii xliv v

xlii xx

xlvi



A-R-P- SHELTER COVERS



UNBREAKABLE STEEL CHEQUER PLATE

ert Jenkins & @ 4

IVANHOE WORKS ROTHERHAM Extd. 1856



