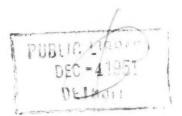
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The Architects' JOURNAL for November 15, 1951

# THE ARCHITECTS' JOURNAL

BUILDING EXHIBITION NUMBER

# **OLYMPIA 1951**





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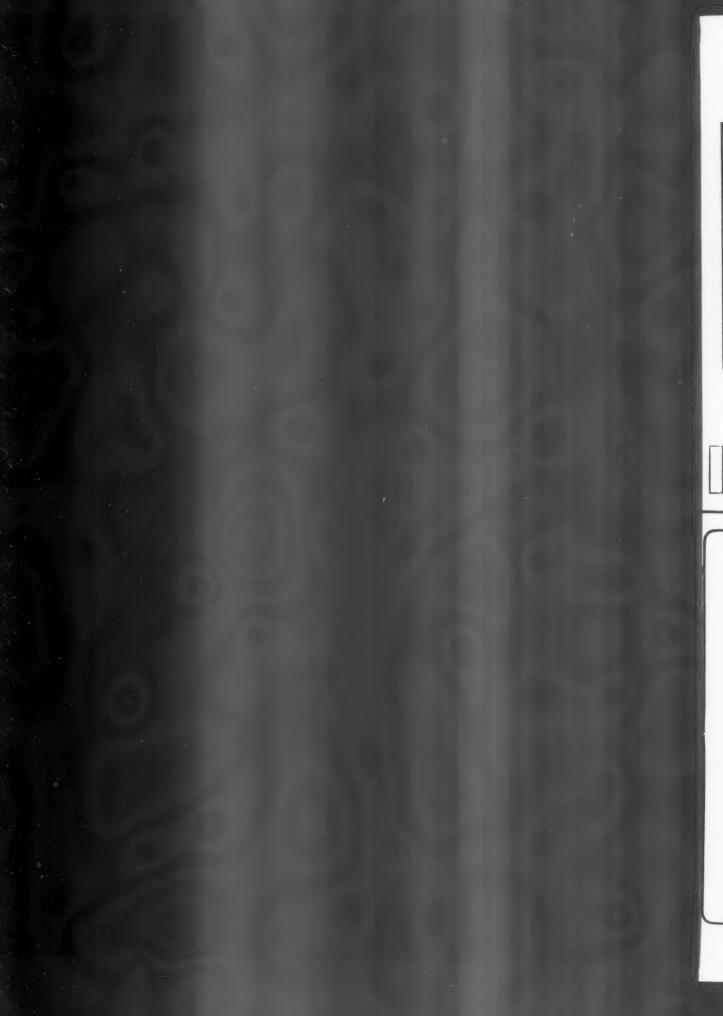
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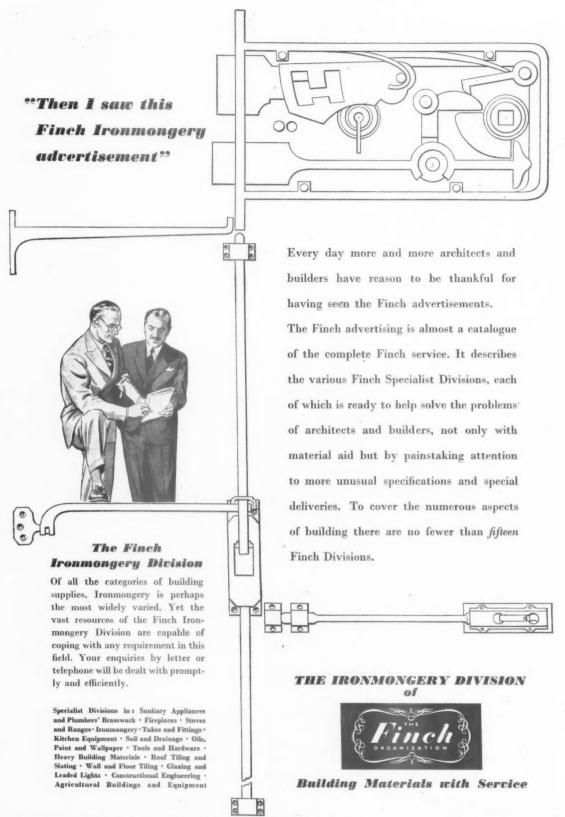
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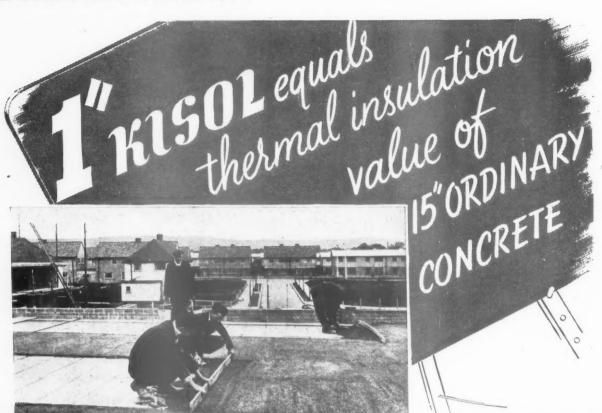
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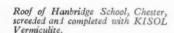
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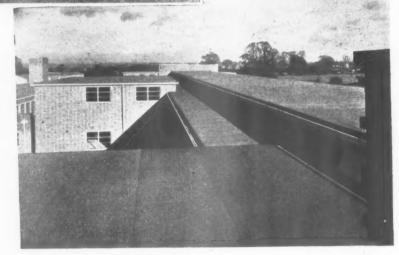
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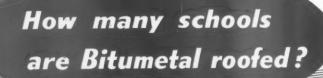


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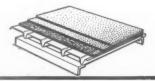
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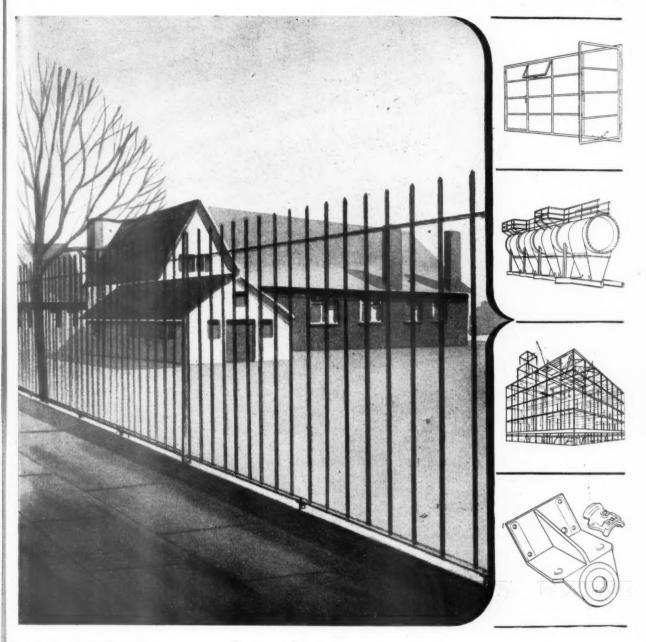
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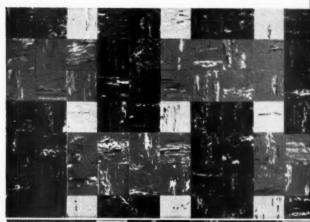
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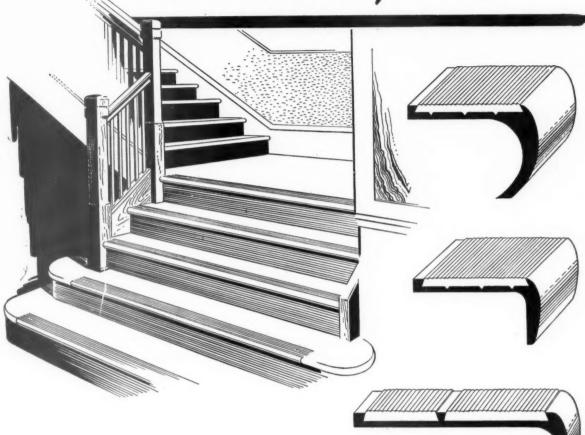
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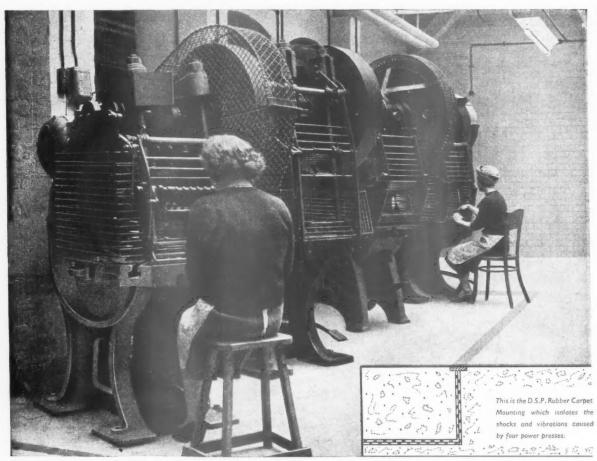


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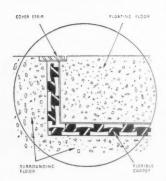
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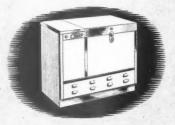
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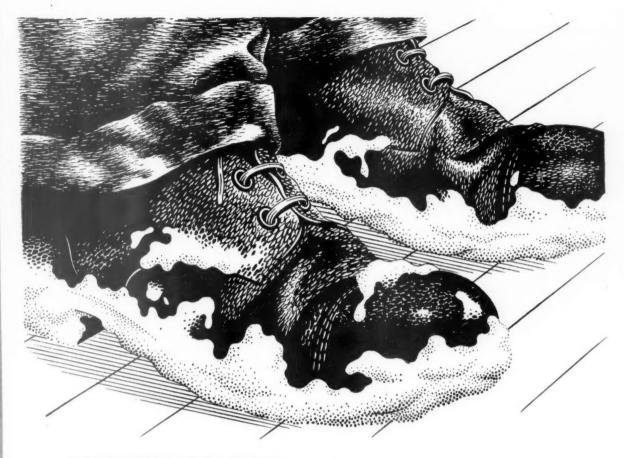
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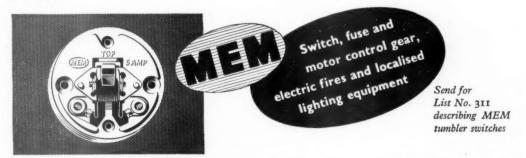
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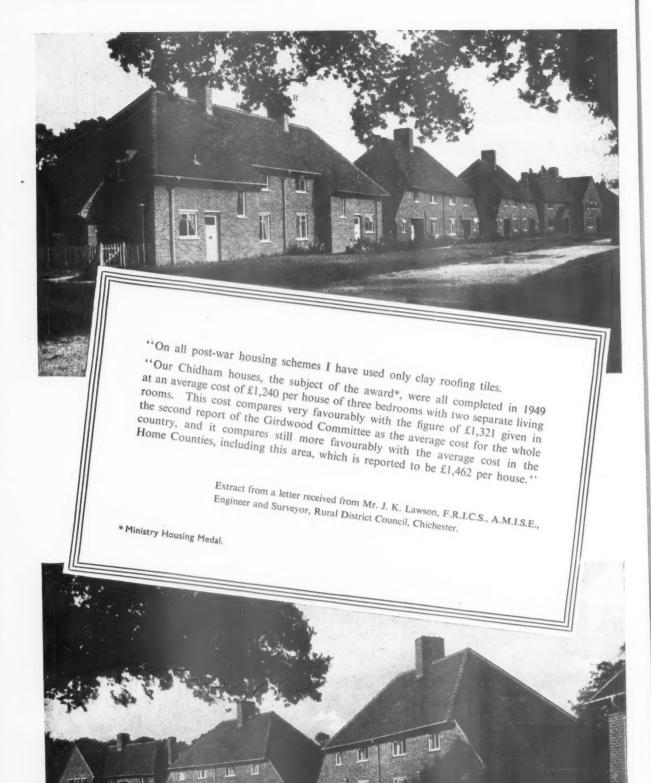
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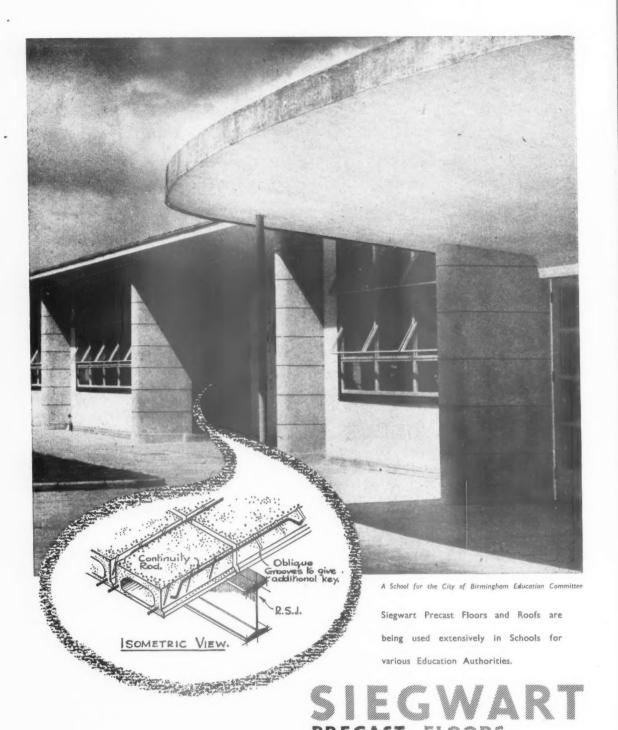
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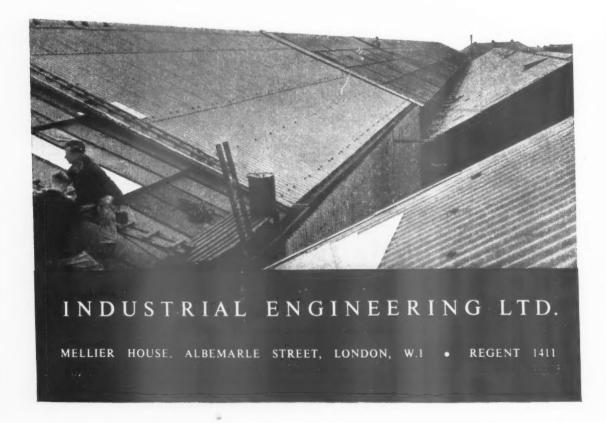
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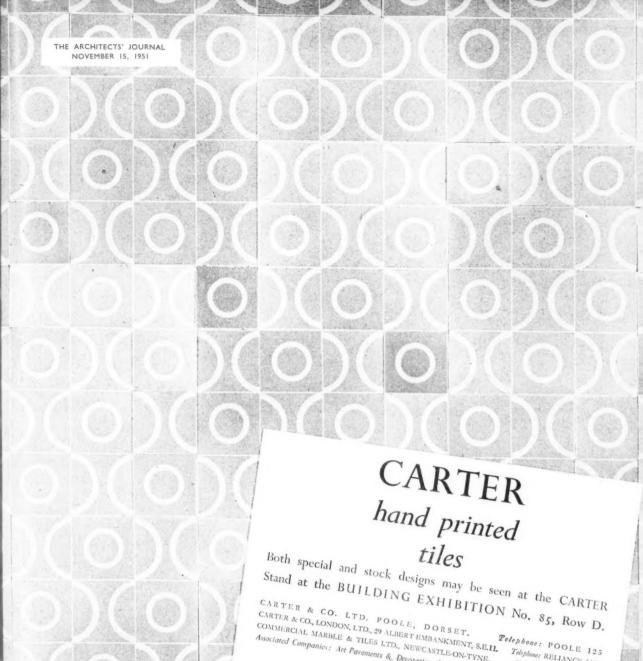
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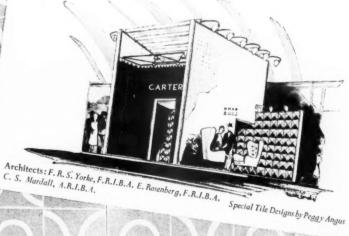
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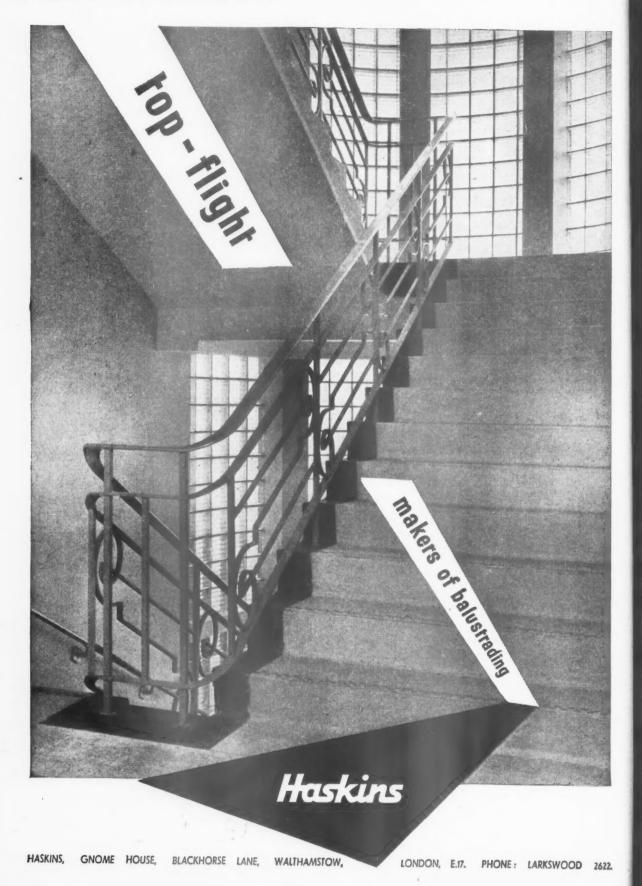




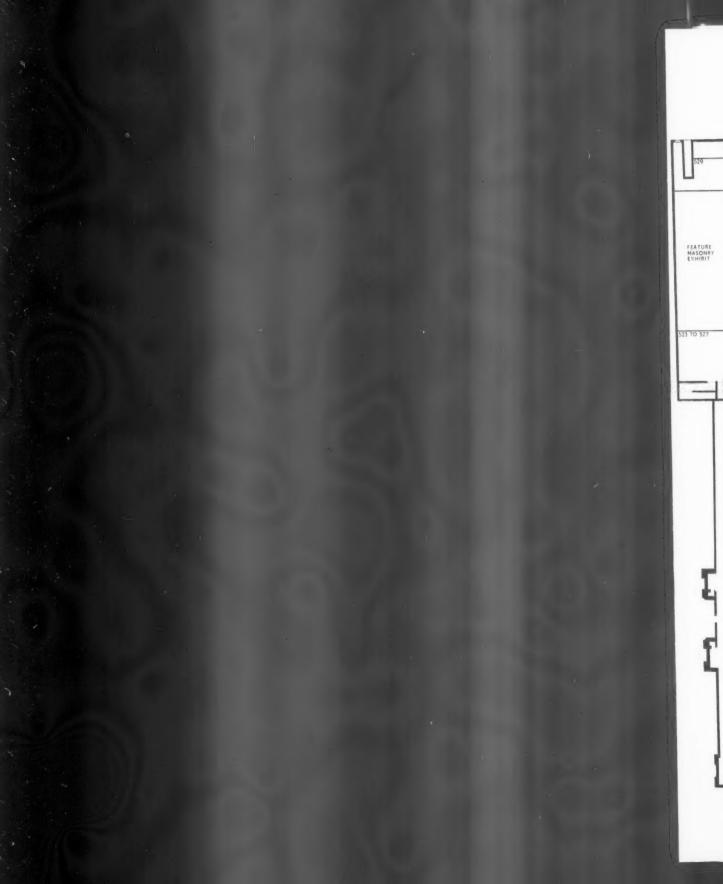
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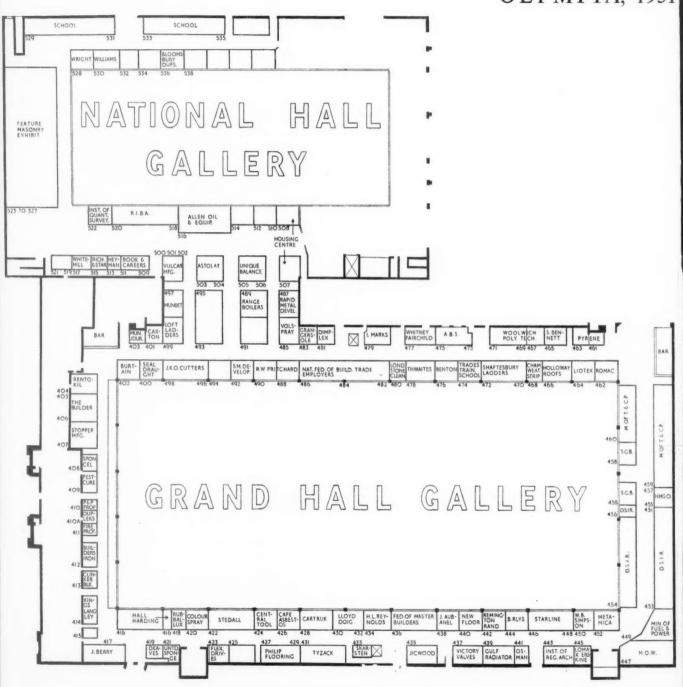






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British Electrical Development Association, 2, Sayoo, Hill W.C.2. (E.103.4)

British Plaster Board Ltd., The, 27-29, Fitzroy Street, W.I. (E.94)

British Plaster Board Ltd., The, 27-29, Fitzroy Street, W.I. (E.94)

British Plaster Board Ltd., The, 27-29, Fitzroy Street, W.I. (E.94)

British Railways, British Road Services, 222, Marylebone Road, N.W.I. (444 G.H.G.)

Briton Brush Co. Ltd., The, Wymondham, Norfolk. (T.347)

Brookman, R.S., Ltd., Parkside Works, Rothley, Leicester. (Y.382)

Browne, John, & Co. (Bridgwater) Ltd., Bridgwater, Somerset. (C.44)

Bryce White & Co. Ltd., Deseronto Wharf & Mills, Langley, Buckinghamshire. (E.93)

Buckland Sand & Silica Co. Ltd., Reigate Heath, Surrey, (G.155)

Builders' Iron and Zincwork Ltd., 9, Cowper Road, Sloke Newington, N.16, (412 G.H.G.)

Building Research Sastion, Bucknall's Lane, Garston, nr. Watford, Hertfordshire. (451, 453/3, 456 G.H.G.) Booth & Co. (England) Ltd., The Unit Construc-tion Co. Ltd., 34, St. James's Street, S.W.1.

C

G.H.G.]
Byrd, A.A., & Co. Ltd., 210, Terminal House,
Grosvenor Gardens, S.W.1. [T.342]

Ltd., 97, Gloucester Place, W.1. [402

Cafferata & Co. Ltd., Newark-on-Trent, Notting-hamshire. [N.265] Ltd., Cheddar, Somerset. [8.337] Carley & Reppica Ltd., Cheddar, Somerset. (8.337)
Candy & Co. Ltd., Heathfield Station, Newton Abbot, Devon. (F.135)
Cape Ashestos Co. Ltd., The, 114-116, Park Street, W.1. (426 G.H.G.)
Carpenters Shop. (L.249)
Carler & Co. (Ltd., Poole, Dorset. (D.85)
Carter & Co. (London) Ltd., Albert Embankment, S.E. (D.85)
Cartruk Ltd., 76, Wellington Road South, Stockport. (428 G.H.G.)
Caxton Publishing Co. Ltd., The, Morley Hall, 25-26, St. George Street, Hanover Square, W.1. (401 G.H.G.) 25-26, St. George Street, Hanover Square, v. I. [401 G.H.G.] Cellactite & British Uralite Ltd., Cellactite House, Whitehall Place, Gravesend, Kent. [L.244/5] Cement & Concrete Association, 52, Grosvenor Gardens, S.W.1. [F.302] Cement Marketing Co. Ltd., The, Portland House, Tothill Street, S.W.1. [F.127]. Central Tool & Equipment Co. Ltd., The, Mayland Avenue, Hemel Hempstead. [424 G.H.G.] Chadwick and Shapcott Ltd., "Acorn Works," Waltham Cross, Hertfordshire, [F.133] Chamberlain Weatherstrips Ltd., 436, Hook Road, Surbiton, Surrey. [488 G.H.G.] Chance Brothers Ltd., Smethwick, 40, Birmingham. [J.206, H.175] Chantry Publications Ltd., 63, Neal Street, W.C.2. Chantry Publications Ltd., 63, Neal Street, W.C.2. (T.343) Chaseside Engineering Co. Ltd., Station Works, Hertford, Hertfordshire. (H.169) Christopher, J., & Sons Ltd., 172, St. John Street, E.C.1. (K.217) Station Works.

Chubb & Son's Lock & Safe Co. Ltd., 40-42, Oxford Street, W.l. [A.6] Cimex-Fraser Tuson Ltd., Farnborough, Kent. [H.184, J.199] [H.184, J.199] Clarincrete Ltd., & Clarincrete Products Ltd., 40, Broadway, S.W.1. [R.318] Clark, James, & Eaton Ltd., Scoresby House, Glasshill Street, S.E.1. [L.237] Clay & Brick Publications Ltd., 23, Tavistock Street, W.C.2. [T.343] Clay & Brick Publications Ltd., 23, Tavistock Street, W.C.2. (T.343)
Coal Utilisation Joint Council, 3, Upper Belgrave Street, S.W.L. (M.254/5)
Cohen, George, Sons & Co. Ltd., Wood Lane, W.12. (F.114, G.161)
Cole, E. R., Ltd., Coombe Road, Neasden Lane, N.W.10. [J.207, H.176]
Colombus Ltd., Capitol Works, Empire Way, Wembley. (Q.312)
Colour Sprays Ltd., 64, Heath Street, Hampstead, N.W.3. (420 G.H.G.)
Colt, W.H., (London) Ltd., Surbiton, Surrey. (K.231) Colt Ventilation Ltd., Surbiton Surrey. [K.231] Colthurst, Symons & Co. Ltd., Bridgwater, Somer-set. [B.84] set. [B.34]
Commercial Marble & Tiles Ltd., Newcastle-onTyne, 2. [D.85]
Compendium Publishing Co. Ltd.—see Clay &
Brick Publications Ltd.
Concrete Equipment & Metal Products (Westminster) Ltd., 5, Queen Anne's Gate, S.W.1.
[IV.387/8] [Y.387/8]
Consolidated Pneumatic Tool Co. Ltd., The, 232.
Dawes Road, S.W.6, [K.215/6]
Cooksley, A., & Co. Ltd., 21-25, Tabernacle Street,
E.C.2, [X.378]
Copper Development Association, Kendals Hall,
Radlett, Hertfordshire. [Q.306]
Copperad Ltd., Colnbrook, Buckinghamshire.
[F.121]
Cozens Ventilators, Ltd., Singawood, Road [F.121]
Cozens Ventilators Ltd., 2, Kingswood Road,
Penge, S.E.20, [T.346]
Cresset Fireplaces Ltd., Broughton Street, S.W.s.
[O.224]
Crittall Manufacturing Co. Ltd., The, Braintree,
Exact [E.00] Essex. [E.98]
Curzon Window Cleaning Service Ltd., 7, Broad-stone Place, Baker Street, W.1. [B.21]

D

Dallow, Lambert & Co. Ltd., Spalding Street, Leicester. [W.365] Danckaerts Woodworking Machinery Ltd., 2, 4 and 6, East Road, City Road, N.1. [Y.389, and 6, East Road, City Boad, N.I. [Y.39, Z.390]
D.390]
D.390]
D.490, R. J., Ltd., 57, Tennison Road, Smallheath, Birmingham, 10. (419 G.H.G.]
Denton & Jutsum Ltd., Bow Common, E.5. [N.266]
Department of Scientific & Industrial Research, Charles House, 5-1], Regent Street, S.W.I. (451, 453/4, 455 G.H.G.]
Dilloway, P. W., Ltd., The Green, Southall, Middlesex. (H.167]
Dimplex Ltd., Totton, nr. Southampton, Middlesex. (481 G.H.G.]
Dixon, R. G., & Co. Ltd., Capitol Works, Empire Way, Wembley, Middlesex. [Q.352]
Dohm Ltd., 167, Victoria Street, S.W.I. (C.52)
Dohm Ltd., 167, Victoria Street, S.W.I. (C.52)
Dohm Ltd., 167, Victoria Street, S.W.I. (C.52)
Dohminion Machinery Co. Ltd., Hipperholme, nr. Halifax, Yorkshire. [X.370]
Downing, G. H., & Co. Ltd., Brampton Hill, Newcastle, Staffordshire. (G.145/56)
Drew, Clark & Co. Ltd., Dhamond Patent Ladder Works, Leyton, E.10. (C.48)
Dreyfus, A., Ltd., "see Reparations Dreyfus. Ductube Co. Ltd., Regent House, 235-241, Regent Street, W. I. (M.285/9)
Dupleks, 56, Northfields Avenue, W.5. [410A G.H.G.]
Duresco Products Ltd., Charlton, S.E.7. [J.209, H.174] and (Z.390]

E

Easiclene Porcelain-Enamel (1938) Ltd., Darlaston, Staffordshire. [K.224] Easiwork Ltd., 29, Goodge Street, W.1. [A.9] Eastwoods Ltd., 158-160, City Road, E.C.1. [G.151/2] Eslipse Rail-Track Ladder Co. Ltd., The, Staple Hill, nr. Bristol, [F.120] Econa Modern Products Ltd., Aqua Works, Warwick Road, Tyseley, Birmingham, 11. [B.25/25] Educational Supply Association Ltd., Esavian House, 181, High Holborn, W.C.1. [K.225/6] Elder Reed, A., & Co. Ltd., 103, 105, Battersea High Street, S.W.11. [G.155] [G.151/2]



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IN.270 Gibbons Ltd., Elson Tank Works, Have-lock Street, South Shields. (C.50) English Clock Systems Ltd., 179-185, Great Port-land Street, W.1. (H.186, J.197) English Joinery Manufacturers' Association

nglish Joinery Manufacturers' Association (Incorporated), Sackville House, 40, Piccadilly, English W.1. [G.139] savian Ltd., Esavian Works, Stevenage, Hert-fordshire. [K.225/6]

Esavian Ltd., Esavian works, Stevenage, Hertfordshire. [K.225/6]
Eustace & Partners Ltd., Alliance Works, Western
Avenue, W.3. (A.13)
Expanded Metal Co. Ltd., Burwood House, Caxton
Street, S.W.1. [E.95]
Expandite Ltd., Cunard Road, Chase Road,
N.W.10. [K.227]

Federated Employers' Press Ltd., 82, New Cavendish Street, W.L. [A.4]
Federation of Clinker Block Manufacturers, 16,
The Ridings, Surbiton, Surrey. [413 G.H.G.]
Federation of Master Builders, 26, Great Ormond
Street, W.C.L. [436 G.H.G.]
Felco Hoists Ltd., 17, Victoria Street, S.W.L. Ferguson Edwards, Ltd., Abbey Road, Barking, Essex. [N.266] Ferodo Ltd., Chapel-en-le-Frith, Derbyshire. [J.193] [J.193]
Fibreglass Ltd., Ravenhead Works, St. Helens, Lancashire. [L.241]
Finch, B., & Co. Ltd., Belvedere Works, Barkingside, Essex. [A.11/12]
Finlock Gutters Ltd., 20, St. John's Road, Tunbridge Wells, Kent. [T.348]
Fire Protection Association, 24, Queen Street, E.C.4. [41] G.H.G.]
Fire Research Station, Boreham Wood, Elstree, Hertfordshire. See Department of Scientific and Industrial Research Industrial Research.

Fisher, M., & Sons Ltd., 271-7, Brick Lane, E.2.
[R.325] R.325i
Fisons Ltd. (Brick Department), Harvest House, Ipswich. [J.204]
Flexaire Ltd., 108, Victoria Street, S.W.1. [G.140]
Flexible Drive & Tool Co. Ltd., 17, Queensberry Way, S.W.7. [423 G.H.G.]
Flexo Plywood Industries Ltd., "Flexo" Works, S. Chingford, E.4. [C.42]
Flextol Engineering Co. Ltd., Flextol Works, The Green, W.5. [B.36]
Forest Products Research Laboratory, Princess Risborough, Aylesbury, Buckinghamshire. See Department of Scientific and Industrial Research. search.
Asphalte Co. Ltd. See Highways Construction Ltd. Sons Ltd., Brunswick Works, King Street, W.6. [Q.304] Fuel Research Station, River Way, Blackwell Lane, S.W.10. See D.S.I.R.

# G

Gardiner, Sons & Co. Ltd., Midland Works, Bristol, 2. [D.89] Gas Council, The, 1, Grosvenor Place, S.W.1. Gas Council, The, 1, Grosvenor Place, S.W.1. [P.299/300]
Gliksten J., & Son Ltd., Carpenters Road, Stratford, E.15. [G.141]
Goodenough Contractors' Machinery Ltd., 70-72, London Road, Twickenham, Middlesex. [G.160]
Goodlass, Wall & Co. Ltd., Wellington Building, Strand, Liverpool, 2. [R.323]
Goodwin Barsby & Co. Ltd., St. Margaret's Ironworks, Leicester. [R.316]
Gotham Co. Ltd., The, Bentinck Buildings, Wheeler Gate, Nottingham, [N.271]
Grangersol Ltd., Loates Lane, Watford, Hertfordshire. [433 G.H.G.]
Gratrix, Samuel, Ltd., Quay Street, Manchester, 3. [N.362]
Gulf Radiators Ltd., Penarth Road, Cardiff. [439 G.H.G.]
Guyrex Equipment Ltd., 25, Craven Street, Strand, W.C.2. [Y.383]
Gyproc Products Ltd., Westfield, Upper Singlewell Road, Gravesend, Kent. [K.221]
Gypsum Mines Ltd., Mountfield, Robertsbridge, Sussex. [S.331]

# H

Hadfields (Merton) Ltd., Mitcham, Surrey. [C.49] Hall Harding Ltd., Stourton House, Dacre Street, S.W.1. [416 G.H.G.], Harris Engineering Co. Ltd., Browning Street, Harris Engineering Co. And., S.W.T. [N.274] Harvey, G. A., & Co. (London) Ltd., Woolwich Road, S.E.T. [G.147/8] Hesketh, Gordon, 24, Goodge Street, W.L. (N.276)
Heyman, B., 122, Bethune Road, N.16. [513
N.H.G.]
Hickson's Timber Impregnation Co. (G.B.) Ltd.,
Castleford, Yorkshire. [G.154]
Highways Construction Ltd., The French Asphalte
Co., Iddesleigh House, Caxton Street, S.W.1. Hilmor Ltd., 65, Calshot Street, King's Cross, N.1. (D.75)
H.M. Stationery Office, Atlantic House, Holborn Viaduct, E.C.I. (485/7 G.H.G.)
Holcon Ltd., 4, Drapers Gardens, Throgmorton Avenue, E.C.2. (C.47)
Holloway Metal Roofs Ltd., 44-46, Queensland Road, Holloway, N.7. (466 G.H.G.)
Hope, Henry, & Sons Ltd., Smethwick, Birmingham, 40. [D.90/1]
Hot Dip Galvanizers Association, Lincoln House, Turl Street, Oxford. [D.82]
Housing Centre Trust, 13, Suffolk Street, Haymarket, S.W.1, 1507/8 N.H.G.]
Hurseal Ltd., 229, Regent Street, W.1. [439 G.H.G.] Hilmor Ltd., 65, Calshot Street, King's Cross, N.1. Hurseal G.H.G.1 Hydro-Thermal Ltd., Church Street, Boston Spa, Yorkshire. [L.251]

# I

Ide, T. & W., Ltd., Glasshouse Fields, Ratcliffe, E.1. [O.285]
Ideal Boilers & Radiators Ltd., Ideal House, Gt. Marlborough Street, W.1. [Q.308]
Illustrated Carpenter & Builder, The, Pioneer House, Gray's Inn Road, W.C.1. [T.345]
Imperial Chemical Industries Ltd., 42, Hertford Street, W.1. [D.86/7]
Inertol Co. Ltd., 348, Upper Richmond Road, S.W.15. [N.275]
Inst. of Ouantity Surveyors, 98, Gloucester Place. Inertol Co. Ltd., 348, Upper Richmond Road, S.W.15. [N.275]
Inst. of Quantity Surveyors, 98, Gloucester Place, W.1. [522 N.H.G.]
Inst. of Registered Architects, 47, Victoria Street, S.W.1. [433 G.H.G.]
Interoven Stove Co. Ltd., The, 146, Marylebone Road, N.W.1. [A.7/8]
Interwood Ltd., The, 326, Old Street, E.C.1. [Y.381]

# 1

Janitor Boilers Ltd., Vale Road, Camberley, Surrey. (L.243) Jenson & Nicholson Ltd., Jenson House, Car-penters Road, Stratford, E.15. [8,330] Jiewood & Co. Ltd. See Airscrew & Jiewood. J.K.O. Cutters Ltd., Bellfield, Hughenden Avenue, High Wycombe, Buckinghamshire. [496, 498 G.H.G.] Johnson's Reinforced Concrete Engineering Co. Ltd., Artillery House, Artillery Row, S.W.1. [C.45] ovce, W. N., & Sons Ltd., 1 Finsbury Park, N.4. [J.201] 10, Clifton Terrace.

Kango Electric Hammers Ltd., Morden Factory Estate, Lombard Road, South Wimbledon, S.W.19. [H.178, J.203] Kennedy, W., Station Works, West Drayton, Middlesex. [K.232] Kent, John (London) Ltd., Helon Road, S.E.15. [H.168] Kerner Greenwood & Co. Ltd., Kings Lynn. [S.332]
Kine Engineering Co. Ltd., Multico Works, The Drive, Horley, Sussex. [Y.384]
King, J. A., & Co. Ltd., 191, Queen Victoria Street, E.C.4. [F.131]
Kings Langley Engineering Co. Ltd., Kings Langley, Hertfordshire. [414 G.H.G.]
Kwikform Ltd., Waterloo Road, Birmingham, 25. [D.71/2]

# L

Labour News, Public Works & Building Weekly, 69. Fleet Street. E.C.4. [A.15]

Lafarge Aluminous Cement Co. Ltd., 73, Brook Street, W.1. (D.78)
Langley London Ltd., 72, Borough High Street, S.E.1. [F.129]
Langton, H. S., "Ace Ladeles Work," Bitterne, Southampton, Hampshire. (L.250)
Laslett Ltd., Windsor House, S.W.1. (X.376)
Lawler, Ayers & Co. Ltd., 54, Old Broad Street, E.C.2. (D.277)
Lawton, Martin Ltd., 47, Hackney Road, E.2. (A.14) Lead Industries Development Council, Eagle House, Jermyn Street, S.W.1. [H.188 & J.195] Leaderflush Ltd., Trowell, Nottinghamshire. [G.164] Leicester, Lovell & Co. Ltd., North Baddesley, Southampton. [U.354] Leng, Christopher, & Sons Ltd., Hazelwell Brush Works, Stirchley, Birmingham, 30. [C.53] Lillington, George, & Co. Ltd., 5-7, London Bridge Street, S.E.l. [C.43] Limmer & Trinidad Lake Asphalt Co. Ltd., The, Steel House, Tothill Street, Westminster, S.W.1. [F.125] [F.125]
Linden Doors Ltd., Uxbridge, Middlesex. [L.236]
Liner Concrete Machinery Co. Ltd., The, Park
Road Works, Gateshead, Durham. [N.267/8]
Liotex Asbestos Flooring Co. Ltd., 10, Jarrow
Road, S.E.16. [464 G.H.G.]
Lister, R.A., & Co. Ltd., Dursley, Gloucestershire.
[H.176/1, J.212/3] Lloyd Doig & Co. Ltd., 36, Egerton Gardens, S.W.S. [430, 432 G.H.G.] Lloydg Bank Ltd., 71, Lombard Street, E.C.3. [M.256] Loft Ladders Ltd., Bromley, Kent. [499 G.H.G.] Logan, William, & Sons Ltd., 355, Evelyn Street, S.E.S. [K.222] Lomax Erskine & Co. Ltd., 154, Fleet Street, E.C.4. [445 G.H.G.] [445 G.H.G.]
London Brick Co. Ltd., Africa House, Kingsway, W.C.2. [E.97]
London Master Builders Association, 47, Bedford Square, W.C.1. [482, 484, 486 G.H.G.]
London & Midland Steel Scaffolding Co. Ltd., Burwood House, Caxton Street, S.W.1. [G.157]
London Sand Blast Decorative Glass Works Ltd., Seger Place, E.S. (G.146]
London Stone Cleaning & Restoration Co. Ltd., 38, Grosvenor Gardens, S.W.1. [480 G.H.G.]
Lyon, Arthur, & Co. (Engineers) Ltd., Telford Way, Westway Estate, W.J. [D.70]
Lyte Ladders Ltd., Lyte Works, Rogerstone, Newport, Monmouthshire. [B.18]

# M

MacAndrews & Forbes Ltd., 2, Caxton Street, S.W.1. [S.33]
Mallinson, Wm.. & Sons Ltd., 130-150, Hackney Road, E.2. [E.100]
Marbolith Flooring Co. Ltd.,—see Carter & Co. (London) Ltd.
Marks, Leslie, & Co. Ltd., 5-9, Earlham Street, W.C.2. [479 G.H.G.]
Marley Tile Co. Ltd., The, London Road, Riverhead, Sevenoaks, Kent. [H.180/1, J.202/3]
Masonite Ltd., Bevis Marks House, Bevis Marks, E.C.3. [J.198, H.185]
Masonry Exhibit. [523/7 N.H.G.]
McLean & Co. (Metal Windows) Ltd., Hamilton, Lanarkshire. [Q.311]
M.E. Engineering Ltd., 457, Finchley Road, N.W.3. [C.52]
Medway Buildings & Supplies Ltd., 72, Victoria Street, S.W.1. [F.113]
Merediths Ltd.—see J. Gliksten & Sons Ltd.
Metal Sections Ltd., Broadwell Road, Oldbury, Birmingham. [C.60]
Metalclad Ltd., Foundry Lane, Stanningley, nr. Leeds, Vorkshire. [Y.330]
Metamica Ltd., Oxgate Lane, Cricklewood, N.W.2. [452 G.H.G.]
Middlesex Publishing Co. Ltd., 194-200, Bishopsgate, E.C.2. [A.2] (452 G.H.G.)
Middlesex Publishing Co. Ltd., 194-200, Bishopsgate, E.C.2. [A.2]
Midland Bank Ltd., Poultry, E.C.2. [M.252]
Midland Saw & Tool Co. Ltd., Trussley Works,
Hammersmith Grove, W.6. [F.118/9]
Millars' Machinery Co. Ltd., Thorley Works,
Bishop's Stortford. Hertfordshire. [M253]
Ministry of Fuel & Power, 7, Millbank, S.W.1.
(449 G.H.G.]
Ministry of Housing & Local Government, Whitehall, S.W.1. [459/60 G.H.G.]
Ministry of Town & Country Planning, Whitehall, S.W.1. [459/60 G.H.G.]
Ministry of Works, Lambeth Bridge House, Albert
Embankment, S.E.1. [E.107/9, 447 G.H.G.] Montague, L. Meyer, Ltd., 14, Buckingham Street, W.C.2. [Q.306]
Morris, B. O., Ltd., Morrisflex Works, Briton Road, Coventry, Warwickshire. [N.260]
M. R. Sales—see Booth & Co. (England) Ltd. Mundet Cork Products Ltd., Vicarage Works, Vicarage Road, Croydon, Surrey. [497 G.H.G.] Municipal Journal, 3 and 4, Clements Inn, W.C.2. [403 G.H.G.]
Murray & Jones Ltd. Meredith Street Plaistow. Murray & Jones Ltd., Meredith Street, Plaistow, E.13. [L.238]

Nash, H. R., Ltd., "Branscombe," London Road, Dorking, Surrey. (R.317)
National Builder, The—see Federated Employers' Press, Ltd.
National Coal Board, Hobart House, Grosvenor Place, S.W.1. (D.69)
National Federation of Building Trades Employers, 82. New Cavendish Street, W.C.1. (142, 464, 486 G.H.G. (142, 464, 486 G.H.G.)
National Federation of Clay Industries, The Drayton House, 39. Gordon Street, W.C.1. (D.88)
National Flooring Co. Ltd., 183, Hammersmith Road, W.6. (G.183)
National Plywood Corporation Ltd.—see J. Gliksten & Sons Ltd.
Natural Asphalte Mine-Owners and Manufacturers' Council, 94-98, Petty France, Westminster, S. W. 1. (B.39)
New Era Publishing Co. Ltd., The, Pitman House, Parker Street, W.C.2. (B.20)
New Floor Installations Ltd., 151, Battersea Park Road, Battersea, S.W.8. (440 G.H.G.)
Noelite' Ltd., "Noelite" Works, Borough Green, Kent. (H.187)

Official Architect & Planning Review, 63, Neal Street, Shaftesbury Avenue, W.C.2. [T.343] Oliver, Wm., & Sons Ltd., 12-13, Bow Lane, E.C.4. Street, State Street, State Street, Street, State Street, State Street, Street

Palmer's Travelling Cradle & Scaffold Co. Ltd., 129-131, Gt. Suffolk Street, S.E.1. [J.211, H.172] Parker, Frederick, Ltd., Viaduct Works, Catherine Street, Leicester. [G.137] Parsons, Thos., & Sons Ltd., 70, Grosvenor Street, W.1. [E.96] Sons Ltd., 70, Grosvenor Street, W.1. [E.96] Peerless Built-in Furniture Ltd., Western Avenue, Perivale, Greenford. [G.137] Peglers Ltd., Belmont Works, Doncaster. [E.102] Pegson Ltd., Coalville, Leicestershire. [C.59] Penfold Fencing & Engineering Ltd., Imperial Works, Balmoral Road, Warford. [B.30] Peskin Ltd., 36, Kingsland Road, E.2. [S.356] Pestcure Ltd., 30, Cavendish Squaro, W.1. [409 G.H.G.] Philipp Flooring Co. Ltd., 66/8, Hertford Road, Dalston, N.1. [427, 429 G.H.G.] Philipping Products Ltd., Lancelot Road, Wembley, Middlesex. [H.173] Pickles, John, & Son (Engineers) Ltd., Mytholm Works, Hebden, Yorkshire. [V.361, W.362] Pilkington Brothers Ltd., St. Helens, Lancashire. [G.144/5] Pilkington Brothers Lita., 3., Front Street, Monkseaton, 1G.144/5]
Pioneer Mixers Ltd., 31, Front Street, Monkseaton, 1r. Newcastle-on-Tyne, Northumberland. (X.373)
Price, D. W., & Sons Ltd., Braemar Works, Neasden Lane, N.W.10. [T.344]
Pritchard, B. W., (Manufacturing) Ltd., Mercurius Works, Macfarlane Road, W.12. [488, 490 G.H.G.] Pritchard, R. W., (Manufacturing) Ltd., Mercurius Works, Macfarlane Road, W.12. [488, 490 G.H.G.]
Prodorite Ltd., Eagle Works, Leabrook, Wednesbury, Staffordshire. [L.240]
Projectile & Engineering Co. Ltd., Acre Street, Battersea, S.W.8, [V.355]
Proved & Producing Properties Ltd., 5, Cheapside, E.C.2. [410 G.H.G.]
Prowse, Keith, & Co. Ltd., 159, New Bond Street, W.1. [L.235]
Pyrene, Great West Road, Brentford. [461/3 G.H.G.] Pyrok Ltd., 40-42, Nine Elms Lane, S.W.8. [B.28]

Randall, William, & Co. (Horsham) Ltd., Joinery Works, Mannings Heath, Horsham, Surrey. Works, [F.115]

Works, Mannings Heath, Horsham, Surrey. [F.115]
Range Boilers Ltd., Capel House, New Broad Street, E.C.2. [489 G.H.G.]
Ransome, A., & Co. Ltd., Hebden Bridge, Yorkshire. [V.361, W.362]
Ransomes & Rapier Ltd., Waterside Works, Ipswich, Smitolk. [D.7374]
Rapid Metal Developments, 209, Walsall Road, Ferrybar, Birmingham. [487 G.H.G.]
Rawlings Bros. Ltd., Berkhamsted Brick Co. Ltd., Styles (Contractors) Ltd., 85, Gloucester Road, South Kensington, S.W.7. [C.58]
Rawlipug Co. Ltd., The, Rawlping House, Cromwell Road, S.W.7. [L.239]
Rayon Fires Ltd., 13-15, Station Approach, Clapham Junction, S.W.11. [R.325]
Redhill Tile Co. Ltd., The, Moorhouse, nr Westerham, Kent. [E.99]
Remington Rand Ltd., Commonwealth House, New Oxford Street, W.1. [442 G.H.G.]
Renold and Coventry Chain Co. Ltd., The, Renold Works, Didsbury, Manchester, 20. [F.117]
Rentokii Ltd., School Lane, Fetcham, Leatherhead, Surrey, [494 G.H.G.]
Reparations-Dreytus Ltd., 129, Great Suffolk Street, S.W.1. [H.168]
Revol Ltd., 97, Quayside, Newcastle-on-Tyne. [Q.303]
Reynolds, H. L., Ltd., Old Leeds Steel Works. Street, S.W.I. (H.188]
Revol Ltd., 97, Quayside, Newcastle-on-Tyne. IQ.303]
Reynolds, H. L., Ltd., Old Leeds Steel Works. Balm Road, Leeds, 10. (434 G.H.G.)
Richardson & Starling Ltd., 21, Hude Street, Winchester. [515 N.H.G.]
Road Machines (Drayton) Ltd., Horton Parade, West Drayton, Middlesex. [N.263/4]
Robinson, Thomas, & Son Ltd., Railway Works. Rochdale, Lancashire. [W. 363, V.360]
Romae Industries Ltd., Romae Works, The Hyde, N.W.9. [462 G.H.G.]
Rost, Georg & Sohne—see Lloyd Doig.
Royal Institute of British Architects, 66, Portland Place, W.1. [518/20 N.H.G.]
Rubbalux Co., & Holbein Place, Sloane Square, 8.W.1. [418 G.H.G.]
Ruberoid Co. Ltd., The, Commonwealth House, 1, New Oxford Street, W.C.1. [Q.307]
Russel, John, & Co. Ltd.—see Stewarts and Lloyds Ltd.

Sagar, J., & Co. Ltd., Canal Works, Halifax, Yorkshire. [V.359, W.364] Sagar (Developments) Ltd., Canal Works, Halifax, Yorkshire. [X.377] Sal-Ferricite & Trading Co. Ltd., 748, Fulham Road, S.W.6. [B.38] Sanbra Ltd., Great Bridge, Tipton, Staffordshire. [C.63]
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Scasfolding (Great Britain) Ltd., Mitcham, Surrey. (458 G.H.G., F.123/4)
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Staffordshire, [P.292]
Sherwoods Paints Ltd., Barking, Essex. [K.250]
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[8.338]
Shubert, H. Ltd., Imparial Works, Waslack Pool 18.338]
Shubert, H., Ltd., Imperial Works, Wenlock Road, N.L. (V.356, W.367]
Silexine Paints Ltd., Richford Street, Goldhawk Road, W.6. [J.196]
Simpson, W.S., & Sons Ltd., St. Martin's House, 374, Wandsworth Road, S.W.8. [450 G.H.G.]
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Staines' Kitchen Equipment Co. Ltd., 94, Victoria Street, S.W.1. [B.24]
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Broad Street, E.C.2. [N.272/3]
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Road, Waterloo, Huddersfield, Yorkshire. [407
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Central Chambers, Parade, Leamington Spa.
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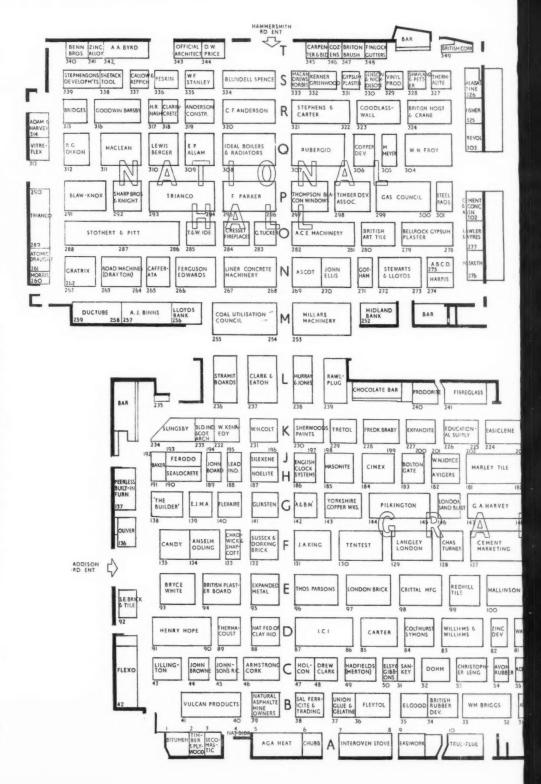
Wadkin Ltd., Green Lane Works, Leicestershire. [U.382/3] Wallis & Co. (Long Eaton) Ltd., Nottingham Road, Long Eaton, near Nottingham. [B.29] Ward, Thos. W., Ltd., Albion Works, Sheffield. Ward's Flexible Rod Co. Ltd., 81, High Street. Farnborough, Kent. (L.247) Warerite Ltd., Watton Road, Ware, Hertfordshire. (D.81)
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Wickham Engineering Co. Ltd., 34, Victoria Street, S.W.l. (G.158/9)
Wild, Thos. C. (Machinery) Ltd., Vulcan Works, Sheffield, 9. [X.376]
Williams, E. F., Ltd., High Street, Kensington, W.8 (Goods Depot, Wright's Lane, Kensington, W.8) [F.122, 530 N.H.G.]
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Wolwich Polytechnic, Woolwich, S.E.18. [467, 469, 471 G.H.G.]
Worshipful Company of Carpenters' Building Crafts Training School, The, 153-155, Gt. Titchfield Street, W.L. [474 G.H.G.]
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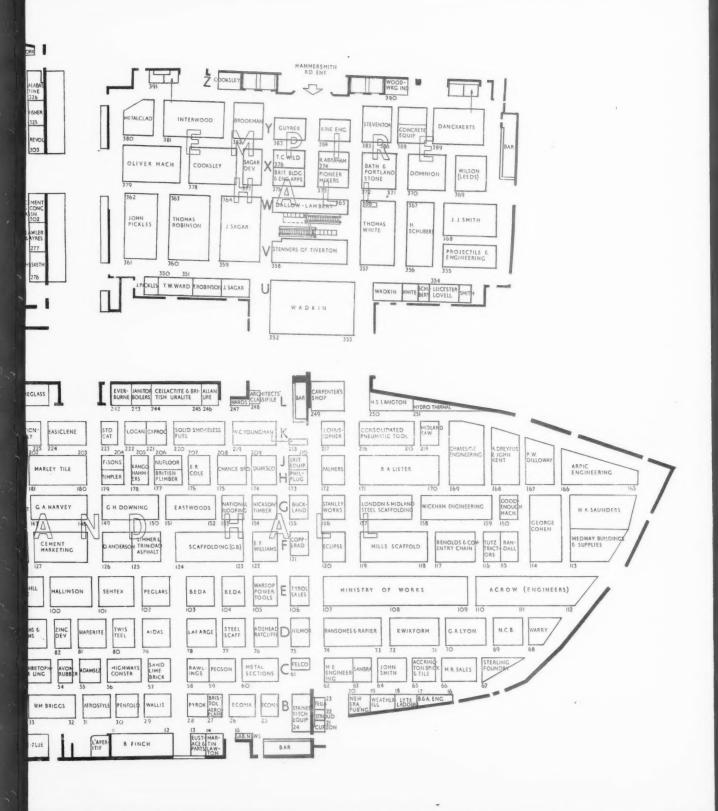
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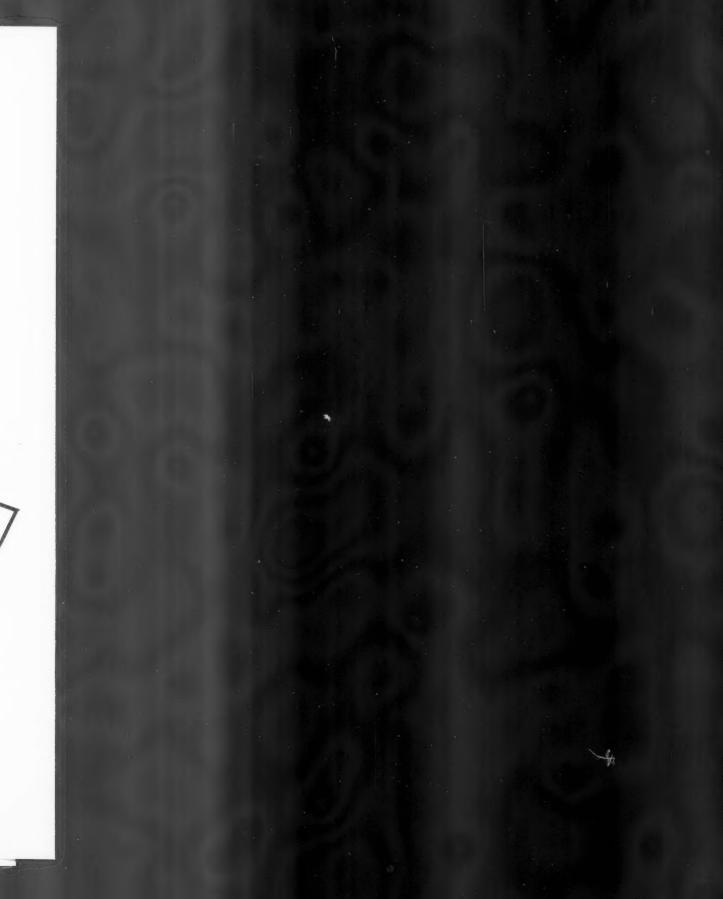
Yorkshire Copper Works Ltd., Leeds. [G.143] Youngman, W. C., Ltd., Contractors' Plant Division. Wandsworth Works, Wandsworth Road, S.W.8. [K.218/9]

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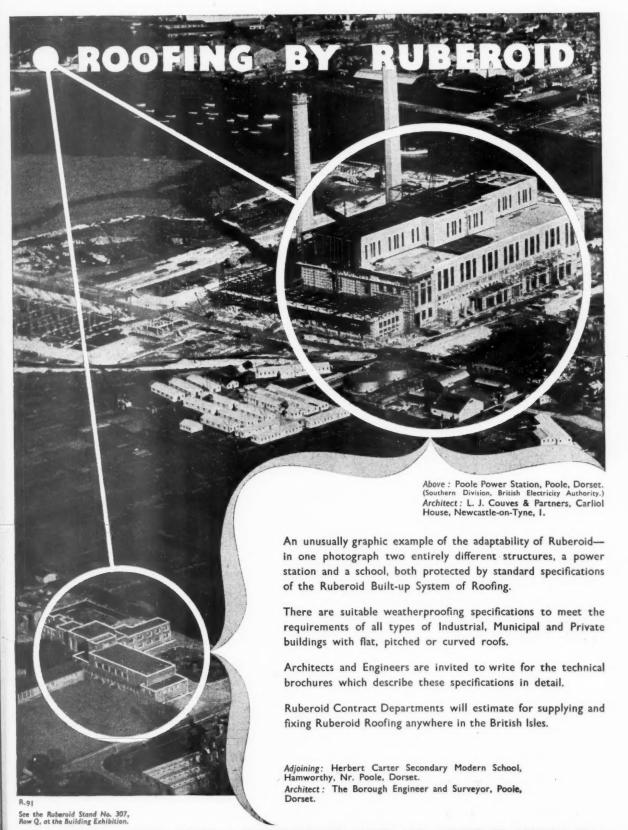
Zinc Alloy Rust-Proofing Co. Ltd., Shakespeare Street, Wolverhampton, Staffordshire. [T.341] Zinc Development Association, Zinc Alloy Die-casters' Association, Zinc Pigment Development Association, Lincoln House, Turi Street, Oxford. [Jb.22]





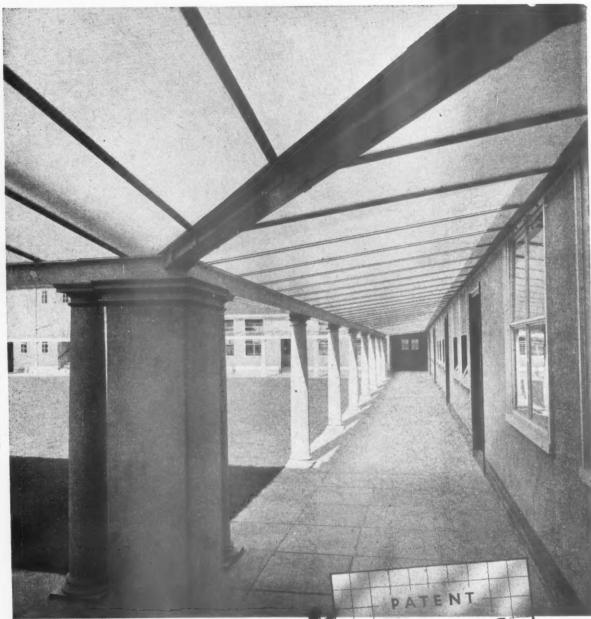






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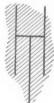
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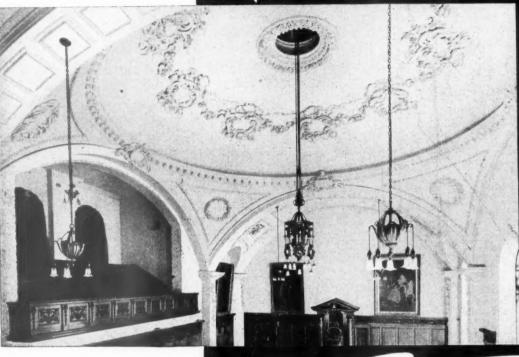
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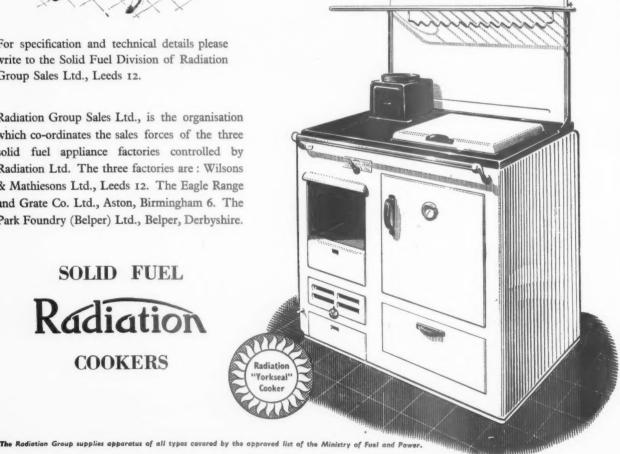
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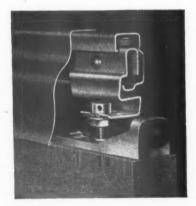


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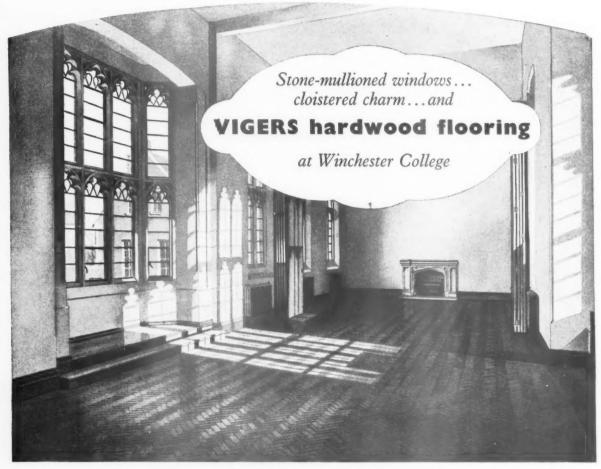
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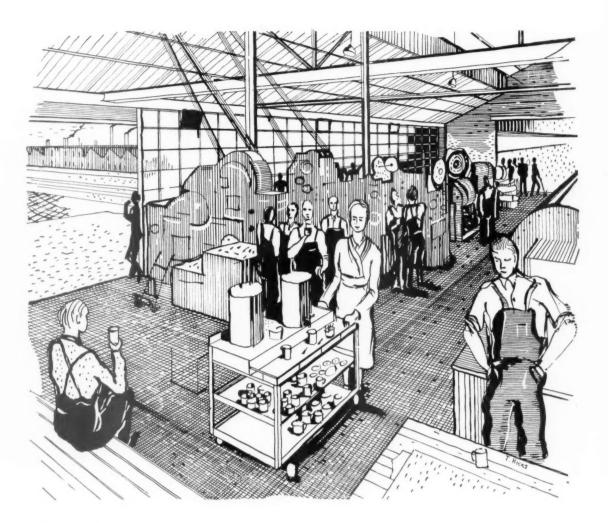
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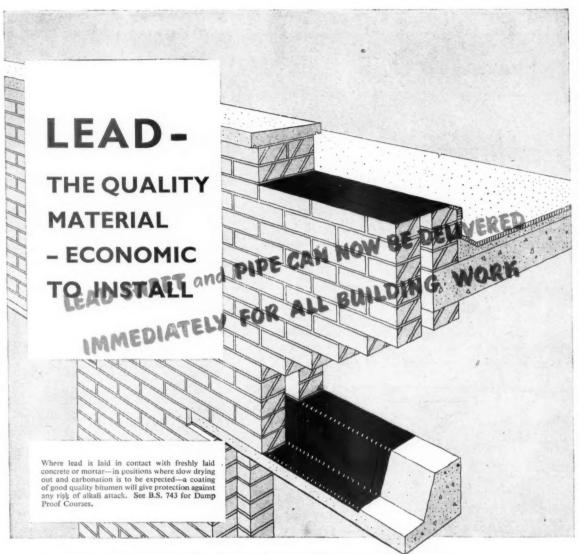
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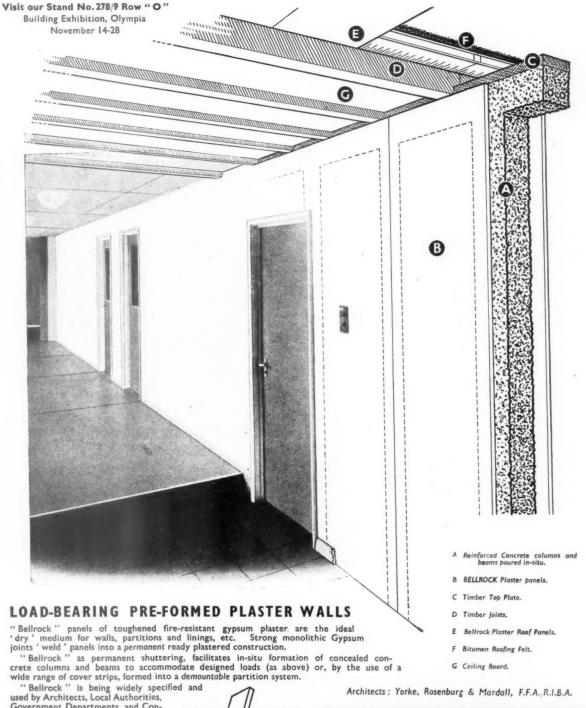
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THE ARCHITECTS' JOURNAL for November 15, 1951

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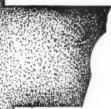


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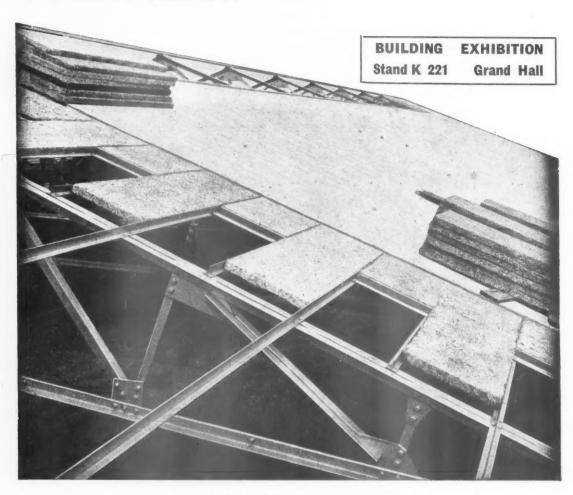


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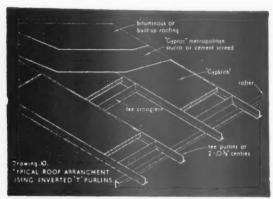
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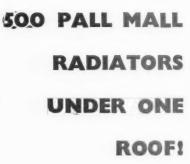


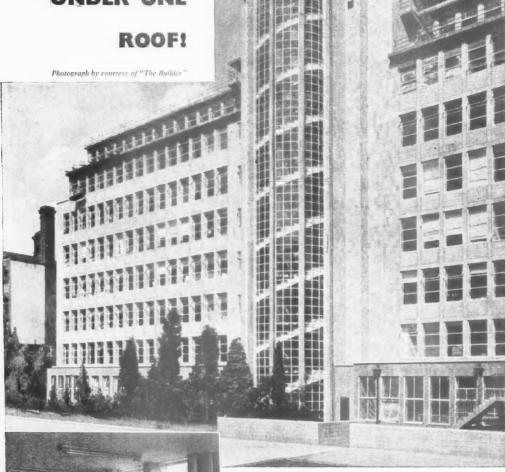
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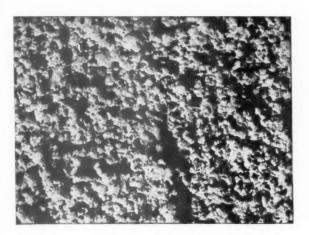
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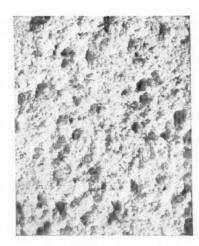
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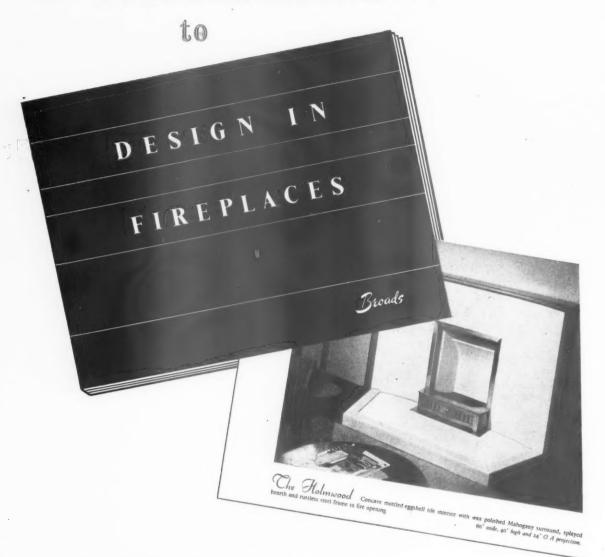
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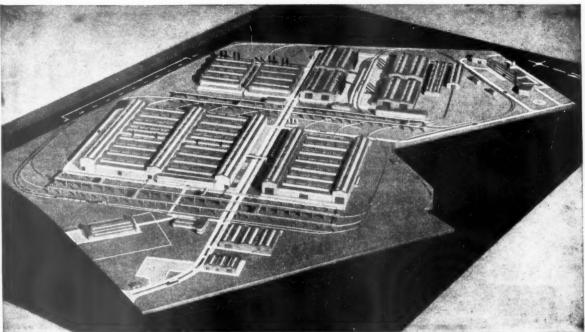
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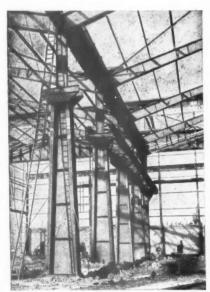


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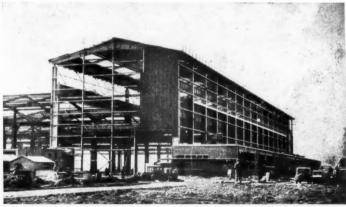
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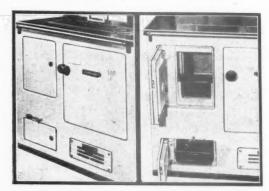
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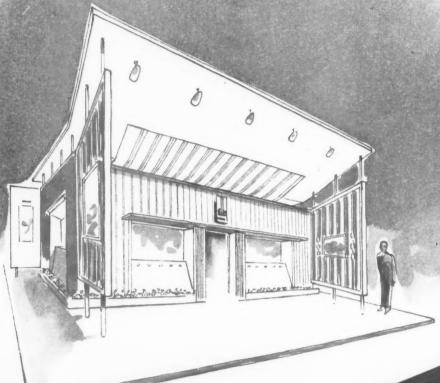
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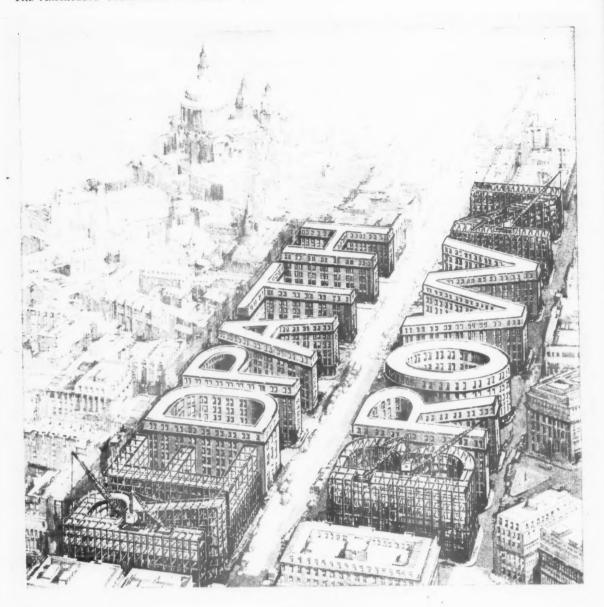
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THE ARCHITECTS' JOURNAL

No. 2959 15 NOVEMBER, 1951 VOL 114

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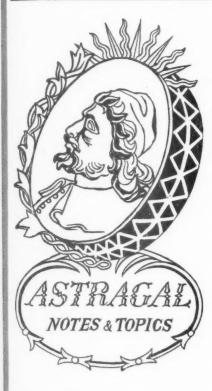
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"AU REVOIR" TO BATTERSEA

ASTRAGAL—who always has finger on the public pulse when his teeth are not buried in its calf-sent a spy to witness the closing scenes of the Festival Pleasure Gardens. The spy, rather dishevelled and with a scratch on his cheek suffered, he boasts, from accoutrements of a drummajorette, returned safely. Here, (a week late) and written on the back of a menu reeking of Russian leatherette -(that Band Girl again?)—are his notes upon the occasion.

10 p.m.—Fine frosty night. Steam rising from the flanks of the police horses, stabled in case of trouble behind the Administration Block. Crowds cheerful in the chilly wind.

10.15-Lakeside Tent, and Finals of the Inter-Borough Beauty Contest. On the stage some thirty girls in eveningdress, some frankly despairing of victory and thinking how their shoes hurt; others still bright, determined, conscientiously vivacious. The compère, carnation'd, smiling with his teeth but not his eyes, tries politely to evict the girls' escorts and defenders from the official enclosure.

10.25—The Official Party is late. The crowd stamps and whistles. The compère says it won't be long now, and introduces the duffle-coated figure of James Fitton A.R.A. (one of the judges). The girls chafe their goosefleshed elbows and giggle abstractedly.

10.30—The Official Party, we are told, is now en route. Ironical cheers from the crowd. The representatives-or so they allege-of The Times and The Observer join the Press Bench.

10.35—The OP, says the loudspeaker, are only fifty yards away. By now they have become an official joke. We all picture them-mayoral chains clinking against dark grey worsted, hornrims balanced, speech notes peeping tidily from breast-pockets.

10.40—A flurry at the door. "Oh, I say look here." The Times representative to The Observer man "You've got a notebook." A flicker of camera bulbs and the OP enters to ironical boos and claps. First Lady Lowson followed by the Lord Mayor, a few Festival Garden Directors, then-terrific cheers here-Herbert Morrison and Mr. Stokes followed by Mayors and functionaries.

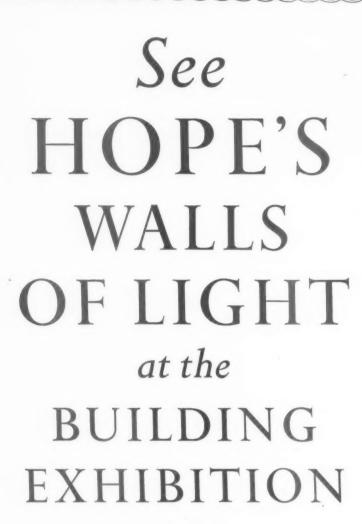
10.45—Half an hour behind schedule the results are hurriedly announced. First Miss Bermondsey-fine cheekbones, classical nose, self assured, black lace over satin. A popular win. Second Miss Fulham-pert blonde, silver lamé-vociferous cheers here from the Times and Observer men. More flash-bulbs and irrelevant but clearly affectionate cries of "Good Old Herbie."

11-Lakeside Ceremony. Speeches, bands, newsreel men, fireworks. Once again it is clearly Mr. Morrison's evening (the present Government appeared not to be represented).

11.30—The last rocket explodes. "God Save the King." Physical pressure in crowd unpleasantly tight. The Observer man has gone (after all his is a Sunday paper). The Times man's lips move in silent composition—or is it somebody treading on his foot? Crowds dispersing. The Battersea Band tries to march in rain through the press behind a police posse.

11.50-Join the Battersea Bandanyway to get clear. Find myself between two drum-majorettes-highheeled boots separated from military tunics by big bare thighs. Splendid progress.

Midnight-Official Party. Very few architects about. Lady Lowson seen talking to Mr. Stokes—one in the last few days of the office, the other





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12.30gardens
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already, so to speak, jobless. Visitors Book signatures, brandies and sausagerolls. General atmosphere of congratulation-less nostalgia than at South Bank-after all it's only goodbye for a year, not for ever.

12.30—Last straggle going home. The gardens look wan and slightly battered -like some hard-worked film set for a Viennese Musical. A few leaves, tied. it seems insecurely to branches by a "propman," catch the light from the bamboo chandeliers. The policemen have gone. A balloon bumps flabbily along the gutter. The Lord Mayor sweeps off with his gilded footmen-we shall not see his genial figure again next year. The fairy lamps on Chelsea Bridge wink for the last time, and a most successful venture is all over for 1951.

#### FUSED

Elsewhere in the JOURNAL readers will find featured the new engineering works which have been built for that famous firm: the General Electric Company. The design of this building at Witton is described in their own brochure "... careful consideration was given to its appearance. The very severity is pleasing and in keeping with modern architectural practice. It is a steel and brick structure . . . the disposition of the windows combined with stone features providing ample relief."

The architectural fashion boys will, no doubt, merely giggle over this as models giggle over last seasons silhouette. Time-honoured Lancasters, misreading their parts and telling sad stories of the death of styles, will, perhaps, wonder how long it will be before these architectural ghosts are laid. But the old fashioned fellows, as myself, still painfully struggling with such words as "functional," "truth," and "beauty" can only wonder how any architect today could create such a havoc of one elevation and such simple inoffensiveness of the other. Bear in mind that this firm produces some of the finest electrical equipment in the world and perhaps you will feel some of my wonderment too.

As a Parthian shot. I do not believe the artificial lighting of the main erection bay would get very high marks at



A proposed technical college for Croydon. See note below and letter on page 580.

BRS. The ceiling does not appear to be sufficiently well lit to avoid glare from the main light sources. Any comment from the experts?

POLISH, FINISH & ACADEMIC THOUGHT

Replacing the chip on my shoulder with my customary bravado, I now square up to the equally formidable design (and, thank heavens, it is only a paper one) shown on this page. It is a proposed technical college to be built as part of Croydon's civic centre and was designed by Robert Atkinson. That enlightened paper The Croydon Advertiser gave considerable space to controversy which arose over this design: first when the design was put before the Croydon Council, and again to report an interview with the architect and to give front page comments from This newspaper quotes the critics. architect as saying: "I don't see why a technical college should not be more like a university than a factory." (Some university!) "An academic building has to have the polish, finish and academic thought which is like a fine piece of literature." Mr. Atkinson also referred to his thirty years as head of the AA, teaching thousands of students on a traditional basis and added "architecture is traditional."

The critics, much fiercer than I ever dare be, call the design "hideous pile," "cumbersome massive and devoid of beauty," "monumental monstrosity." They appear to object most of all to the debased use of classical trimmings and the way efficiency is subordinated to Congratulations, then, to symmetry. this newspaper for its enlightened atti-

tude to architectural criticism-a still all too rare event. As regards this particular design, I read that the Croydon Council will be asked to send the designs, which "the architect has discussed with a special sub-committee of the RFAC" (no comment?), to the MOE for approval. If the design ever gets there I think the MOE can be trusted to ensure that it does not keep its present form for very long.

#### TABLE-TALK

The CID is presenting a good little exhibition at the Tea Centre, in Lower Regent Street, for those who are interested in pottery, silverware and fabrics. It has been prepared in association with the Danish, Norwegian and Swedish Societies of Industrial Design, and since it deals almost entirely with objects for the table produced in the Scandinavian countries-displayed, for example, as a Danish Easter Table, a Norwegian Week-Day Breakfast Table or a Swedish Christmas Table-the show complements rather than rivals the Scandinavian Exhibition at Heal's.

What I missed at Heal's I found at the Tea Centre, notably some of Stig Lindberg's delightful pottery designs for Gustavsberg. These, together with the Nordiska Kompaniet's fabrics and some chairs of laminated mahogany and birch by Gunnar Eklöf of the Bodarfors furniture factory indicates that at the Tea Centre, at least, Sweden beats Norway and Denmark by a short head. Special mentions however, go to Kay Bojesen's Copenhagen silverware, for elegance, and to the Norwegian



## Like Their Fathers Before Them

Accent at this year's Building Exhibition (the 24th) is on apprentices, and youths from seven of London's technical colleges and building schools (where they spend one day and two evenings a week) will form a "live exhibit" on stands 529, 531, 533 and 535. Much attention has been paid recently to the problems created by the present shortage of apprentices, but readers may question whether

this renewed emphasis on the craft nature of the building industry is not a retrogressive step. Greater emphasis on mechanization might well have been more appropriate. The photograph above shows apprentice masons, Peter Bowen, Brian Smith and Edwin Belcher, of the Brixton School of Building, finishing off work now being exhibited at Olympia.

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par can der Les table for a Sunday Meal In a Village Home for character. This table is surprising: how sophisticated and refined the peasants of the North must be these days!

#### LET HIM TURN AND FLEE

You may have read in last week's JOURNAL some excerpts from the address given by A. Graham Henderson, President of the RIBA when he started on his second year of office. You may even have attended the meeting and heard him in person. In either event you will have gathered that the President approved of Lansbury, Coventry Cathedral, competitions and building research. Hesitatingly he offered criticisms of some of the Festival architecture.

However, to really appreciate to the full Mr. Henderson's remarks you should read the News Chronicle. This newspaper, true to tradition, makes sensational news out of the President's comparatively unexceptional statements. "Architecture's 'new dawn' yet to come" says the big "Rather extravabold title. gant adulation lavished on . . . architectural work done for the Festival, was attacked yesterday by the president." Then follows a series of quotes: "I cannot accept the view that the exhibitions . . . herald the dawn of a new architecture"..." designers... too selfconscious"..." over elaborate" ... " what it (the South Bank) achieved as a spectacle it owed to the river rather than to the efforts of the individual architects" . . . "Too much was attempted in too little space"... and so on. Effective journalism.

I have sufficient respect for the President to know that he did not want his speech to give quite such a carping impression to the public. But this example of reporting does show how carefully worded official announcements should be. It must be a very rare event for the president of a professional body to make the occasion of an inaugural address one in which to attack one section of his members. It is particularly sad in this case when one can recall no precedent in critical presidential blasts at such recent horrors as Lessor scheme offices or LCC housing of the immediate post-war period.

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**ASTRAGAL** 

#### POINTS FROM THIS ISSUE

The 24th Building Exhibition opened yesterday.....Pages 578 and 593 to 603. The MOHLG needs greater authority over land use. This page and page 583. Michael Pattrick has been appointed principal of AA school.....Page 581. The new Chancellor's proposals for building cuts......Page 581. A pair of experimental cheap houses has been built at Highworth...Page 582. Plans and sketches of experimental hospital......Pages 583 and 584 to 587. Another LCC "mixed development" housing scheme......Pages 588 to 592.

#### The Editors

## THE 24th BUILDING EXHIBITION

THE twenty-fourth Building Exhibition, which opened yesterday, has well over four hundred stands and is the largest since the first was held in 1895. week we publish a supplement in which is given plans of Olympia—showing the positions of stands—and an alphabetical list of exhibitors. We have also selected seventy stands on which are exhibited products, services or equipment of particular interest to architects. Some of these are described in this issue; the remainder will be dealt with next week. In this week's issue technical notes on exhibits are accompanied by illustrations of some of the stands (many of which are "architect-designed") and by biographical notes and photographs of some personalities (mainly managing directors or sales managers) to be found on the stands. The photographs will enable architects to recognize the men most likely to help them; the notes, it is hoped, will take them half-way to knowing the men they are talking to. (The personal touch is

enable architects to recognize the men most likely to help them; the notes, it is hoped, will take them half-way to knowing the men they are talking to. (The personal touch is often lacking in the relationship between producer and user.) While the exhibition is open we shall publish photographs of some of the best stands and a section will be devoted to exhibits of the ministries and the nationalized industries. And in our issue of November 29 we shall conclude our coverage of the exhibition by publishing the results of the editors' search in Olympia for "things you may have missed."

## No. 18: Legal Editor

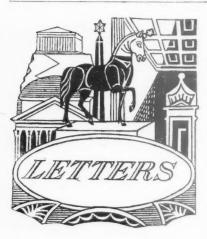
## CONTROL OF LAND USE: A PROPOSAL

Suggestions for changes in the control of land use have been made in the series of articles by Ernest Watkins which the JOURNAL is publishing at present. These suggestions are particularly important now that we have a new Government, for this is a suitable time for some sort of reform to be carried out.

Many of the decisions made by ministers who are concerned with land use—for agricultural, industrial or housing purposes—may determine irrevocably the future of a piece of land. And there is a danger that these ministers may plan for next year's products—crops or buildings—without giving any thought for the future. It will be unfortunate, to say the

least, if they do so. They, of all people, must know how many of their present difficulties are due to their predecessors thinking only in terms of short-term planning twenty-five

It is possible that the Ministry of Housing and Local Government (until recently the MOLGP) is treated too much as a young newcomer by the older ministries. It should be given greater authority. As Mr. Watkins suggests in his article on page 583, it should be given the task of drawing up a national policy for land use. And it should be respected by all other departments concerned with land.



"An Architect" " Three Architects" M. J. Fleetwood R. F. Collins, A.R.I.B.A. Eric Brown, L.R.I.B.A " Croydon Architect" Charles Frobisher

#### RIBA Selection Committee

SIR,-Having read your leading article in the Journal for November I, I feel I cannot let it pass without writing to compliment you upon it and to support your action. For obvious reasons I must remain anonymous as far as this matter is concerned, but I can assure you from my own small experience that there is widespread discontent and a very strong feeling that the RIBA restrict their choice of architects to a very narrow circle. From my knowledge of a few London authorities, the names that are put forward on request to the RIBA appear to be prac-tically the same few in every case and these are names of architects already quite well known who are serving the Institute on one committee or another.

I am a comparatively young man and my practice not very old, although my experi-ence covers many years. And I had occasion to write to the secretary of the RIBA to see whether my name could be placed on the panel from which recommendations were being made to various inquirers. I was told that there was no such panel, that very few requests are made, and that it is entirely a matter for the president of the RIBA to decide. I feel perfectly certain that the president dent knows nothing whatever about my practice or abilities and cannot from his personal knowledge be expected to recommend me to anyone.

It is my considered opinion that your sug-Standing Committee, be adopted, and in order to dispel the very widespread discontent and prevalent feeling of preference to the few, that the RIBA should publish immediately full list of every request made and diately a full list of every request made and all recommendations given since the end of the last war, and supplement this, as you suggest, regularly in the future.

"AN ARCHITECT"

SIR,—We are very pleased to see that you have taken up the cudgels on behalf of the lesser known practitioners. Your leading article covers important points which we have been discussing for some time, as we

have been discussing for some time, as we have been at a complete loss to know how the RIBA does select architects for recommendation for particular jobs.

As provincial architects, we feel that the RIBA does not realize in many cases that there are local architects with comparatively large drawing office staffs, including qualified assistants who, by their knowledge of local conditions and by being closer to the actual projects, could, in fact, produce more satisfactory results than some of the better. satisfactory results than some of the better known architects from further afield. "THREE ARCHITECTS"

#### Hadlow Praised

SIR,—It is encouraging to see a journal of your standing supporting the preservation of Hadlow Castle AJ November 1). I have lately taken a great interest in the castle but have been surprised to find that most of my

have been surprised to find that most of my colleagues greet its fate with indifference. Functionalism, which has done so much for architecture today, must not, it seems, trample the past underfoot. The idea that the castle should be allowed to moulder gracefully is viewed with contempt. "Pull it down" is the cry.

How our buildings should be treated surely depends on the terms on which they were created. To take an example from to-day; the Royal Festival Hall is a fine solution to a functional problem. Either it must continue to fulfil this function or it should come down. To allow such a building to become derelict and fall into decay would be ridiculous. The castle, however, was de-signed to achieve a picturesque and romantic effect. To allow the ivy to spread and the walls to crumble is to increase this effect. Already the sorry deed has been done and

the most picturesque part, the south façade, is being demolished. But the tower remains, and those who stand on the North Downs and see it rising from the plains, as effective a landmark as Salisbury Spire, will reflect on the good fortune of Hadlow in possessing such a remarkable "vertical feature."

M. J. FLEETWOOD.

#### Hadlow Condemned

SIR.—It is surprising to read ASTRAGAL'S adulation of the architectural monstrosity Hadlow Castle Tower. Does he realize that it will cost £10,000 to restore and to be made Does he approve expenditure on this —to use his own phrase—"functionless fantasy" in view of the economic plight of the country? Would he vote for the diverbuild seven houses? Is he infected with "May's Madness"—or is he merely a Socialist?

R. F. COLLINS.

Bearsted.

#### Hadlow: More Facts

SIR.—I was interested in the notes on Hadlow Castle as I happen to know more than most people about the place. Nevertheless, some of your facts are wrong. For instance, the demolition of the house is nearly complete and the survival of the tower is ensured, unless it collapses through old age. William Barton May rests snugly above ground in a mausoleum in the adja-cent churchyard, and the group of outbuildings, also gimcrack Gothic in character, have been acquired by Bernard Hailstone, a por-trait painter and a local resident, who hopes to convert them into contemporary dwellings without interfering with the exteriors. The architect for this interesting conversion, is, of course, myself.

ERIC BROWN.

Kingston-upon-Thames.

#### Croydon Builds

SIR,-As one who believes that bold criticism, even when I do not personally agree with it, is essential, and as one who being a locally practising architect, is unable to voice open criticism, I am horrified by sketches of our new Technical College, for which trial holes are now being dug. One's horror is increased when one realizes that a large part of the building will be for art students with a flourishing architectural sec-

You have, on another occasion, referred to our council of Philistines, and right you were. In this case, I have little doubt that they made their tastes in architecture too clearly known to their architect, for him, without an unusual degree of courage, to be able to resist. As the first of the "Civic without an unusual degree of courage, to be able to resist. As the first of the "Civic Centre" buildings it will, no doubt, set the style for the remainder on a truly magnificent site in the centre of Croydon. What can one do?

" CROYDON ARCHITECT."

See drawing on page 577, with a note by

#### Offers Please

SIR,-I attempt in a small way to promote international goodwill and understanding by sending each week copies of English magazines, periodicals and such literature to friends in other countries, who then distribute them:

A number of architects, with whom a friend in the USA happens to be acquainted, have asked if he can obtain any journals concerning architecture in Britain.

The purpose of this letter is to ask if anyone could let me have back numbers of The Architectural Review, The Architects' Journal, or other periodicals.

CHARLES FROBISHER.

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#### ENGINEERING WORKS AT BIRMINGHAM

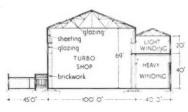


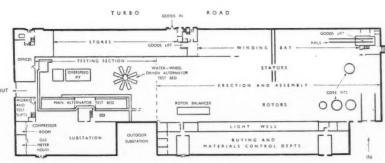
The heavy electrical engineering works at Witton, Birmingham, was designed by the General Electric Company's architectural staff. The building covers an area of about 2½ acres. Its ground floor, shown on the plan below, is 525 ft. long by 100 ft. wide. This is covered by a single span from the eaves, 70 ft. high, seen in the section below right. The building is constructed of steel (connectionsriveted and bolted) and clad with brickwork. As the building runs east to west a ridge roof was chosen. This is of

three-tier glazing and steel sheeting with 1-in. fibre board lining. The photograph on the right, above, shows the test beds. The lighting of the main erection and test bay (right) is by high-pressure mercury vapour lamps and fluorescent tubes. For contractors see page 604.











#### AA

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## New School Principal

The council of the AA has appointed Michael Pattrick principal of the AA School Mr. Pattrick was educated at Oundle School and received his architectural training at the AA. In 1936 he entered private practice and also held teaching appointments at Cambridge University and the Liverpool University School of Architecture. During the war he was an architect in charge of various projects for the MOS and the Ministry of Aircraft Production. Since 1945 he has been engaged in private practice and some of his industrial work was included in the RIBA exhibition of industrial architecture. He was also concerned with teaching at the AA School, and in 1949 became director of technical training there. He has been acting principal since

ing there. He has been acting principal since R. Furneaux Jordan resigned last July.



Michael Pattrick (see news item above)

### BUILDING CUTS Chancellor's Proposals

For the next three months no new building work will be started unless it is exceptionally urgent in the national interest. When making this proposal to the House of Commons last week R. A. Butler, Chancellor of the Exchequer, said that it was the only way to lighten the burden on the industry. Hitherto more work had been started or approved than could be done with the labour and





This demonstration pair of houses at Highworth, Wiltshire, designed by Eric Chick (consulting architects: Powell and Moya) was constructed with the encouragement of the local council—as an experiment in building economically without a lowering of standards of space or comfort. The council has decided to build a block of terrace houses designed on similar principles. End walls, party walls and cross walls are of traditional designed on similar principles. End walls, party walls and cross walls are of traditional brick construction and carry all the loads. But the apron walls to the ground and first floor windows are 3-ply formed in situ. The centre ply is of sheet materials—in this case cementated wood wood slabs—and is covered with light gauge reinforcing wire and plastered. A full description of this £1,288 house (September price rates) and methods of erection, together with plans and photographs, will be given shortly in the JOURNAL.

materials: consequently individual projects had been taking longer to complete than ever before. After the three month period, during which the industry could get abreast

during which the industry could get abreast of its task, precautions would be taken to ensure that the subsequent programme did not exceed capability of the industry at any particular time.

Starting dates already granted for operation after December 10 would be reviewed and postponed for at least two months, except in exceptional circumstances. This decision would not apply to houses. The rate of building in housing would be adjusted, where necessary, to an approved rate of completion, and reduced time taken to build them. These measures should result in more building work of all kinds result in more building work of all kinds being completed in 1952.

#### HOSPITALS

### Investigations into Function and Design

On other pages are illustrations of a hospital ward block at Greenock, designed for pital ward block at Greenock, designed for investigation into the functions and design of hospitals by Richard Llewelyn Davies, architect and director of the investigation. The investigation was set up early in 1949 by the Nuffield Provincial Hospitals Trust at the suggestion of its secretary, Mr. Farrer-Brown. It is sponsored jointly by the Trust and Bristol University. The investigation team includes, besides the director and architect, a doctor, a nurse, an historian, a field work organizer and an accountant, assisted by a staff of architects, time study engineers and research workers. A panel of expert advisers composed of men and women eminent in medicine, nursing, A panel of expert advisers composed of men and women eminent in medicine, nursing, architecture and the social sciences, is available to advise the team. The investigators also co-operate with other bodies in certain fields. For example, the problems of heating, lighting, ventilation and fire protection are being studied at the RPS to which are being studied at the BRS to which a senior member of the investigation staff has been seconded for this purpose. Similarly, certain social and medical aspects of the hospital are the subject of work done jointly with the Department of Human Ecology in the University of Cambridge.

The object of the investigation is to pro-

duce a report designed to help those authori-

duce a report designed to help those authorities and architects concerned with the provision of hospital services. This report will be issued about the end of 1952.

The first problem to be studied was the hospital ward. About a year ago it became apparent that the investigation would greatly gain were it possible to build some actual wards incorporating the ideas being thrown up by research. In particular, such experimental building was important in order to see whether certain anticipated economics in ee whether certain anticipated economies in building and running cost could be achieved in practice. Accordingly the progress being made by the investigation was made known to the principal hospital authorities in the British Isles and immediately the Department of Health for Scotland and the Northern Ireland Hospitals Authority offered to arrange for the building of wards to the experimental designs worked out by the team. As a result, there will shortly be two experimental buildings in operation. These buildings will be, in fact, working laboratories for the study of ward design and operation, where experiments can be staged, and the results recorded over a period of time. These experiments will cover nursing method and organization as well as heating, lighting and ventilation—the latter tests being conducted jointly with BRS. The running costs will be recorded in detail by the departmental costing methods which the Nuffield Trust is developing at the request of the MOH.

Tenders for the block at Greenock have been received, and an analysis of its cost will be made and published in due course. The price per cubic foot will be about 5s. 3d. This figure covers various arrangements and items of equipment required for experimental use which would not form part of a normal ward block. It is claimed that when the high standard of equipment and finish used at Greenock is taken into account, the figure represents economical

building. The economy has been reached mainly by compact planning, simple and straightforward shape, and by the use of load-bearing walls as a structural form. The design and working drawings for the project were prepared in the London office of the investigation. John Weeks, chief assistant architect to the investigation, and D. J. Petty, research architect (attached to the BRS), were associated with the design.

BRS), were associated with the design.
The following specialists collaborated with the team: structural engineering, Ove Arup

the team: structural engineering, Ove Arup & Partners; heating, electrical and mechanical services, J. Roger Preston & Partners. The execution of the work, for the Western Regional Hospital Board, is being carried out by Forbes Murison, chief architect to the Board. Quantities have been prepared by William Ward, chartered surveyor, in

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#### RIBA

## Award to Powell and Moya

Michael Powell, of Powell & Moya, on receiving the award of a London Architecture Bronze Medal and Diploma for their flats at Pimlico, said: "It is certainly a great honour to receive this medal. Architects often talk about their clients, but not in front of them. I am happy to say that we can talk about our clients when they are present. If any credit is due to this scheme it is because there are a lot of people connected with it. The clients gave a great deal of asthetic freedom and intense interest and encouragement. This has been a very happy job." has been a very happy job.

After thanking all concerned with the building and design of these flats Mr. Powell concluded: "Lastly, I want to thank the people for whom the flats exist. We were told: Wait until the tenants have hacked them about. This was quite wrong. The tenants' about. This was quite vrong. The tenants' association is keenly interested in the scheme. They have not destroyed the scheme but vastly improved it."

## DIARY

Building Exhibition. At Olympia. Weekdays 10 a.m. to 8 p.m.
UNTIL NOVEMBER 28

The Health of Cities: Some Problems arising from Congestion and Overbuilding.
Professor William Holford (Bossom Gift Lecture). At 90, Buckingham Palace Road.
S.W.I. (Sponsor, the Chadwick Trust.) 2.30 p.m. NOVEMBER 20

The Evolution of the RIBA Form of Contract. An address by H. A. Close. At the RICS. 12, Great George Street, S.W.1. 6 p.m. NOVEMBER 21

The Obsolete Street, R. Furneaux Jordan. (Sponsor, Students' Planning Group of TCPA.) At 28, King Street, Covent Garden. W.C.2. 6.15 p.m. NOVEMBER 22

Fire Protection: The Architect's Responsibility. Eric L. Bird. At 66, Portland Place, W.1. (Sponsor, RIBA). 6 p.m.

NOVEMBER 23

Festival Hall Acoustics. Discussion at 66, Portland Place, W.1. (Sponsor, Physical Society's Acoustics Group.) Speakers will include P. H. Parkin, W. Allen and Hope Bagenal. 4.30 p.m. NOVEMBER 27

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n ysical will Hope ER 27 In this fourth article in his series Mr. Watkins suggests that the new Ministry of Housing and Local Government should draw up a general policy for land use and that this policy should be respected by other ministries concerned with the use of land.

#### ERNEST WATKINS

## Planning and the State (4)

Any attempt to formulate a national policy on town planning matters must involve these questions:

(a) What proportion of the capital resources of the country should be used in new development?

(b) What land must be undisturbed?

(c) How should the amount of capital resources available for development be divided among claimants—for defence, industry, agriculture, housing and so on?

Ideally all those questions should be answered by the cabinet. And ideally it should be possible for the cabinet to lay down principles to give departments for months ahead. But what happens in fact? Supposing the National Coal Board claims that unless an extra 10,000 houses are built

that unless an extra 10,000 houses are built in the next two years, manpower in the industry will fall to even lower levels? Or that a factory town, backed by the MOL, claims that unless it has many more new houses defence production will fall? If every problem of this kind was referred to the Cabinet, the Cabinet would soon be overwhelmed with details and might, end up by making no decisions at all. As it is, such problems are passed to an inter-departmental committee. Unfortunately, however, each departmental representative is liable to act as though he is an ambassador from a as though he is an ambassador from a as though he is an ambassador from a sovereign state negotiating with another ambassador. And decisions—which may be mere compromises—may often depend more on the strength and prestige of a department than on the merits of the case being considered. In addition, the problem may be protracted. (If it takes two years to decide where to locate a new power station, how long would it take to solve the above problems?)

But could not one minister from the cabinet be responsible for seeing that there is a cabinet policy in general and for making decisions on matters of detail? There are precedents to show that such a plan would

be practicable. For example, the Minister of Defence is responsible for general policy on defence. (This was laid down in the Act establishing the Ministry.) And the policy is carried out by the Minister at the head of each of the three service departments. Mr. Churchill has just extended this practice. Lord Woolton has been made responsible for concerting policy over food and agriculture: this gives him authority over two other, hitherto independent, ministries. And Lord Leathers is responsible for three ministries: Fuel and Power, Transport and Civil Aviation tion.

Is land use sufficiently important to be treated the same way? It certainly is. A minister responsible for land should draw up a general policy for land use, and that policy should be respected by all departments. should be respected by all departments. And the main departments concerned with land use should be directly responsible to the minister. The obvious ministry to be chosen for the task is the Ministry of Housing and Local Government, as it already has charge of housing, new towns and the 1947 Act. The other departments grouped under this ministry. housing, new towns and the 1947 Act. The other departments grouped under this ministry should be Works and Distribution of Industry (from the BOT). This would mean that either Lord Woolton's kingdom should be extended—he is already interested in the existing use of a great deal of land—or that Mr. Macmillan should be accepted as a twin star in that firmament. Such a reform would present no constitutional complications. As it would not involve the setting up of a new it would not involve the setting up of a new ministry, it could be carried through by

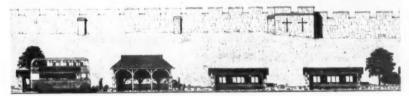
statutory instrument under the Transfer of Ministerial Powers Act.

All departments own land and none are subject to the operation of the 1947 Act. But subject to the operation of the 1947 Act. But there would be no need for all Government owned land to be brought under strict planning control. And it would not be necessary for the MOHLG to be given responsibility for the way another department used land it had acquired. The MOHLG should simply concern itself with new acquisition of land by a department. The MOHLG should alone be able to make a valid complexity of the control of the con of land by a department. The MOHLG should alone be able to make a valid compulsory purchase order for land; it should be the final arbiter over land use, just as the Treasury is a final arbiter over the spending of money. (And while the fiduciary issue has increased fourfold since 1938, the amount of land available is not noticeably more.)

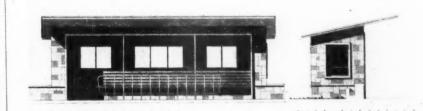
Unless some reorganization such as this is made, the national policy for land use, of which Sir William Jowitt spoke so bravely in 1943, is no more likely to come into existence in the next eight years than it has in the last eight.

What about local responsibility for land use? Many of our present difficulties arise from the fact that the kind of authority best suited to prepare a development plan is not necessarily the kind of authority best suited to supervise its execution. But I must leave the whole matter of local government until next week, when the final article in this series will be nublished. will be published.

#### FOR WINNING DESIGN YORK BUS SHELTER



The first prize of £50 in the recent competition for the design of a group of six 'bus shelters under the city walls at York was won by A. A. Wood, a fifth-year student at Leeds School of Architecture. The competition was held by the city corporation and the York Civic Trust. The assessor was F. Austin Child. A part of the winning design's group of six shelters is shown in the elevation above, together with the existing central shelter. Front and side elevations of the design are shown below. In the conditions for the competition it was stated that designs should not detract from the effect of the city walls which must remain the dominant feature of the composition: also, that an attempt to express originality of idea in terms of extreme modernity of design would not commend itself to the promoters. The construction of the winning design is of local stone with 4-in. reinforced concrete roof slab. The roof is covered with copper sheet. The door opening is spanned by a reinforced concrete lintel supported by two 2-in. diameter steel columns.



#### HOSPITAL WARD BLOCK

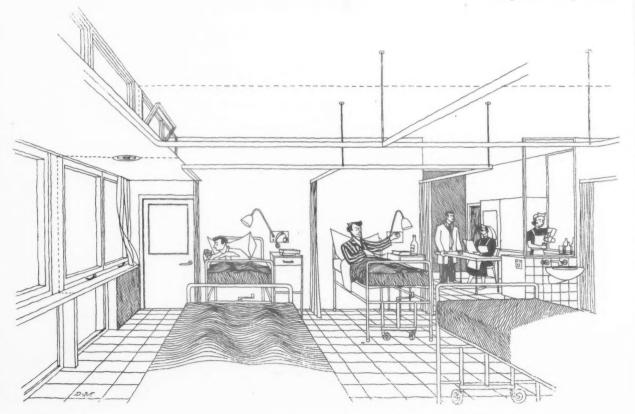
at GREENOCK

designed by R. LLEWELYN DAVIES

assistant architect: JOHN WEEKS; research architect: D. J. PETTY consulting structural engineers: OVE ARUP and PARTNERS consulting civil engineers: J. ROGER PRESTON and PARTNERS

This is the first building to be designed by the Investigation into the Functions and Design of Hospitals, under its director and architect, R. Llewelyn Davies. The Investigation was set up early in 1949 by the Nuffield Provincial Hospitals Trust. About a year ago it became apparent that the Investigation would greatly gain if wards could be built incorporating experimental ideas which could be used as working laboratories for the study of ward design. This design is therefore to be built as an addition to the Greenock Royal Infirmary for the Western Regional Hospital Board. The design for an alternative ward layout will be published shortly. See also page 582.

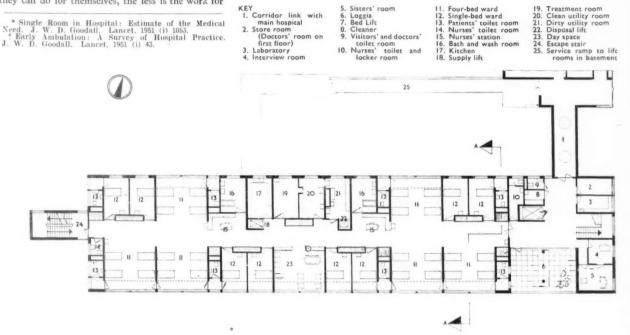
The patients' view of the ward.



PLAN.—This two storey block containing two 32bed wards has a plan which embodies the results of a number of research studies covering medical and nursing requirements. The rather large proportion of beds in single rooms, 25 per cent. of the total, derives from research by Dr. J. W. D. Goodall, a fermer member of the Investigation team.\* This proportion of single rooms was shown to be necessary if the seriously ill or distressing cases were to be isolated, as it is generally accepted they should be. From another piece of work by Dr. Goodall,† it appears likely, owing to the increasing tendency to get patients out of bed earlier, that nearly threequarters of the patients may be able to use lavatories and washing facilities. Medically, it is desirable that they should be encouraged to move around a little as soon as possible, and, of course, the more they can do for themselves, the less is the work for

the nurse. Hence the very generous provision of lavatories and wash-basins, which, instead of being concentrated at one end of the unit, are distributed so as to reduce the distance the patient has to go. No patient is more than about 23 ft. from a lavatory or wash-basin. The compact plan shape was designed to reduce walking distances, and with the same object, the principal ancillary rooms are placed in the centre of the beds they serve. The accommodation for the medical staff\* together with the main lifts and stairs, would normally serve two units on any one floor, although in the Greenock experiment only one wing is being built. Thus in the full development there would be 64 beds per floor, 32 on either side of the main stair and lifts.

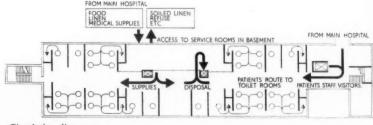
<sup>\*</sup> Accommodation for Medical Staff in Hospitals. J. W. D. Goodall, M.D., F.R.C.P.E. Lancet, 1951 (i) 847.



Ground floor plan [Scale: 32" = 1'0"]

CIRCULATION.—One of the objects of the experiments is to find the effect on nursing of improved arrangements for the delivery of food and medical supplies to the ward and for the removal of refuse. The circulation diagram shows that the main lift is reserved for the use of patients, staff and visitors and serves two wards. Goods supply is by comparatively small lifts or hoists placed so as to deliver the goods close to the ward kitchen and the utility room. Porters never go into the wards at all, but despatch goods from the basement. The disposal lift, which opens directly into the sluice room, enables dirty and infected material to be sent away from the ward immediately.

The routes taken by patients going to lavatories or wash-room keeps the centre of the ward free from traffic.



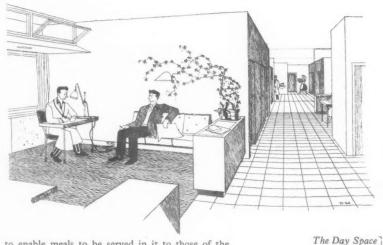
Circulation diagram

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ward.

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DETAIL PLAN .- The ward ancillary rooms incorporate the results of time and motion study. The clean utility and dirty utility rooms are arranged to provide a proper sequence of work. Immediately inside the door of the dirty utility room are arrangements for the disposal of soiled materials and refuse. Further into the room are the provisions for the washing of dirty bowls and instruments. After washing, these are passed through a hatch into the steriliser in the clean utility room. The clean utility room is connected by a hatch to the treatment room. The value of treatment rooms is now generally accepted. This room is near the centre of the beds it serves and there is direct access from the utility room for instruments and dressings. They have their own supply of heated and filtered air with twelve to fifteen air changes per hour provided to avoid the risk of cross-infection. The ward kitchen is equipped for tea-making and light cooking but the main meals are supplied by trolley from the hospital kitchen. The lift bringing up the food trolleys is immediately opposite the kitchen. The day space is placed within easy reach of the kitchen



to enable meals to be served in it to those of the patients able to sit up. These may amount to 30-40 per cent. of the cases. Individual wardrobe lockers are provided in the ward.

Telephone booth
Counter with cupboard under
Cupboard
Pull-out work table

Sink Hot water boiler Hot place Hot pla
 Toaster

16. Plate warming cup-board17. Refrigerator18. Supply lift

19. Bowl and instrument steriliser Slop sink and slab Bed-pan washer

23. Mackintosh-sheet

rack
24. Bed-pan steriliser
with rack over
25. Specimen cupboard

26. Disposal lift 27. Linen store 28, Vertical pipe 11::



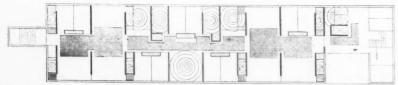
Washbasin W.C. Bedside locker

locker Nurses' desk

Patients' clothes

Medicine cupboard

Detail Plan [Scale:  $\frac{1}{12}$ " = 1'0"]



The circles show noise sources; grey panels, Sound Diagram. ceiling absorbents and hatching indicates deep cupboards

SOUND.-Hospital wards are notoriously noisynoise is one of the principal causes of discomfort to the patients. The diagram shows the sources of noise and the positions of noise-resisting walls and ceiling absorbents. Generally, heavy, load-bearing walls which form part of the structure, form barriers

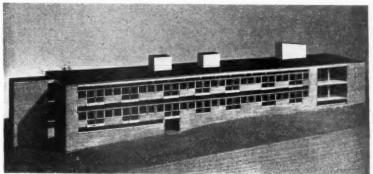
#### HOSPITAL WARD BLOCK

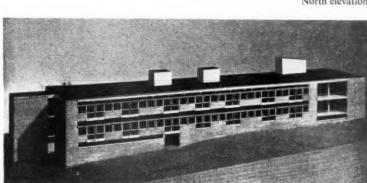
at GREENOCK

designed by R. LLEWELYN DAVIES



North elevation





From the south.

to air-borne sound. There are also sound-absorbent areas in the ceilings at certain points. Ceiling absorbents are commonly used in American and Continental hospitals but have been little used in this country. Medical opinion has been that there is a possibility of dangerous concentrations of dust and bacteria in any perforated material. Some absorbent materials are also undoubtedly dangerous from the point of view of fire. After study at the Building Research Station a form of absorbent ceiling has been devised which it is believed will prove satisfactory. Its bacteriological properties are under trial at present at the Public Health Laboratories at Colindale, and tests will continue in the experimental The floor surface is isolated from the slab by a layer of glass silk quilting; the floor finish is cork tiles.

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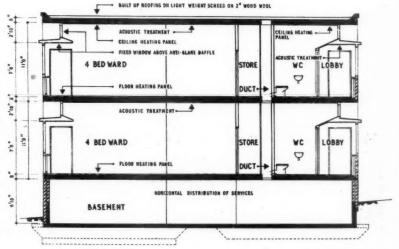
-bearing

barriers

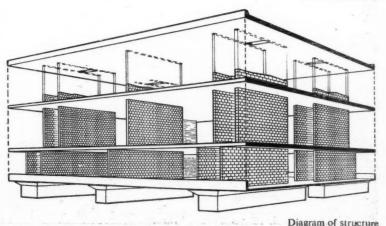
DAYLIGHT.-One of the problems associated with deep building is that of providing good lighting, without glare, over the whole area. In the case of hospital wards this problem becomes critical due to the immobility of the patients and their special sensitiveness to light. While a fully glazed external wall will provide good lighting at the centre of the building, it makes conditions for the patient nearest to it very trying. Studies made in a one inch to one foot scale model at the BRS\* showed that while it was not necessary to glaze the whole of the external wall, a portion of the window should preferably have a very low sill, to enable the floor to reflect light into the centre of the building. In order to control the glare from the high sky for the patient nearest the external wall, a horizontal baffle 7 ft. above the floor and 4 ft. deep is provided in the window along the whole of the south elevation, and, in the wards only, on the north elevation.



CONSTRUCTION.-This is of 6-in. concrete block cross-walls at 20-ft. centres supporting flat, reinforced concrete, slabs forming floors and roof. At intervals, the cross-walls are paired, 5 ft. apart, forming plumbing units and ducts. The nonstructural external walls are supported on the cantilevered floor slabs, and are normal cavity walling with foamed-slag blocks for the inner skin. As the cross-walls are of block construction the only shuttering and reinforcement needed is for the floor and roof slabs. The shuttering is extremely simple as there are no beams. Panel heating is incorporated without varying the thickness of the slabs and acoustic treatment is recessed 1-in, into the underside.



Cross section A-A



588) The Architects' Journal for November 15, 1951

#### HOUSING PROJECT

for the LCC in PORTSMOUTH ROAD, ROEHAMPTON, LONDON S.W.15

architect to the council, ROBERT H. MATTHEW: deputy architect, DR. J. L. MARTIN: principal housing architect, WHITFIELD LEWIS: assistant architects, R. STJERNSTEDT, A. W. C. BARR, O. S. COX, A. R. GARROD, J. PARTRIDGE, B. ADAMS, H. GRAVERSON, P. NEVIIL: consulting structural engineers, OVE ARUP and PARTNERS

The housing scheme on the Portsmouth Road site, Roehampton, represents a further step in the evolution of new ideas in the planning and design of housing development on sites in the County of London. Long blocks of flats are superseded by a mixture of two-storey terrace houses, four-storey maisonettes and vertical "point" blocks of eleven storeys. An open development has been planned which, while achieving a density of 28.7 dwellings per acre, will require only 3 of the 25 acres to be actually built upon.

Looking east at the layout model.



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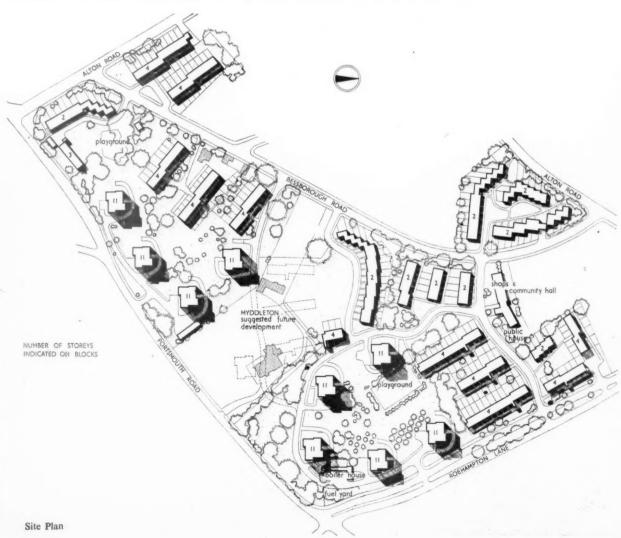
SITE.—The site is located between Rochampton Lane and Portsmouth Road, and consists mainly of the grounds of a number of large Victorian houses, including over 700 mature trees (most of which will be retained), shrubberies, lawns and other natural features. There is a steep fall from north-east to south-west, with fine views to the south-west across Richmond Park and to the north-east, visible from the tall blocks, across Putney Heath. The tall, square blocks which have been evolved can be easily sited within the open spaces available, without the wholesale destruction of existing trees. As much as possible of the park-like character of the site will be preserved. There will be a gradual build-up in height from the existing private houses near Roehampton village, through two-storey houses and four-storey maisonettes to the eleven-storey blocks towards the east side of the site.

PLAN.—All the larger families, requiring three or more bedrooms and constituting 40 per cent. of the



A model of the south-west corner of the site, looking north-east.

total accommodation, will live in terrace houses or two-tier maisonettes, each with a private garden. The remainder will be accommodated in the tall blocks, which are approximately 60 ft. square on plan, have four flats to a floor and are just under 100 ft. high. The total accommodation will be 655 dwellings, including 379 flats, in tall blocks, 180 maisonettes, 76 terrace houses and 20 one-room flats and conversions. In the point blocks the



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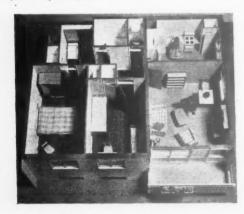
Model of a typical point block, looking north-east.

#### HOUSING PROJECT

for the LCC in PORTSMOUTH ROAD, ROEHAMPTON, S.W.15 architect to the council: ROBERT H. MATTHEW

breaks in the plan shape are a means of expressing the individuality of the flats as units and this is also helped by the large, partly recessed, private balconies to each flat. Each floor from first to tenth has 3 three-room flats and 1 two-room, with a centre core of lifts, stairs and services. Ground floors vary, containing caretakers' flats, tenants and estate workshops, etc., but all contain tenants' stores

Typical two-bedroom flat in a point block.



and small communal laundries. It is thought that this type of block will achieve considerable economies compared with the T-shaped blocks approved for Princes Way, Wimbledon, by the Council in November, 1950, due to having four instead of three flats per floor, to the reduction in external wall area and to economies in heating, services and structure made possible by the compact plan. In view of the time lifts are normally out of use for servicing and maintenance it was not thought reasonable to provide one lift in blocks of this height, and so two lifts, large enough to take prams, and stopping on alternate floors, are planned. Two stairs, naturally lit and ventilated, will be provided to comply with escape regulations. The type of four-storey maisonette block to be used was approved by the Council in



Typical ground floor plan [Scale: Tr " = 1' 0"]



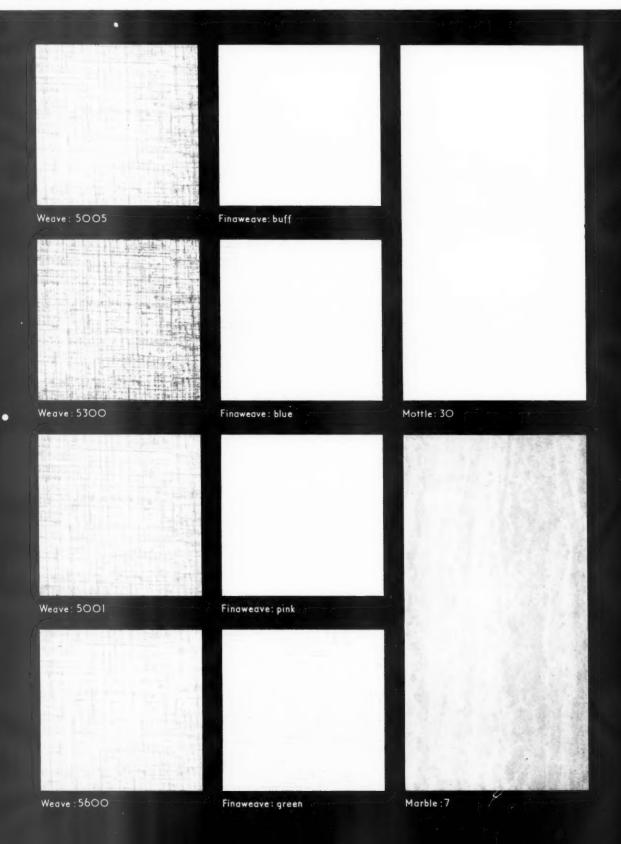
Typical floor plan in point block [Scale: 1/0"]

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#### 15.S2 ·WARERITE· LAMINATED PLASTICS PANELS AND VENEERED BOARDS: CHARACTERISTICS AND SELECTION FROM STANDARD PATTERN RANGE

This Sheet describes Warerite Laminated Plastics panels and veneered boards and gives a selection from the present range of standard patterns in which they are available. Sheet 15.Tl gives typical applications of Warerite panels and boards for use as wall coverings and Sheet 15.T2 gives typical applications to furniture and fittings.

#### Materials

Warerite panels and veneers conform to BS.1323: 1946 Synthetic-Resin Bonded Paper Sheet (Thermosetting) for use in the Building Industry. Warerite veneered boards consist of plywood, blockboard or similar core materials which have been surfaced on one or both sides with veneers and can be made to any desired thickness according to the core used.

Sizes: Panels and veneered boards are supplied in standard sizes or machined to any size or shape up to a maximum of 96 in. by 48 in. It is advisable to specify cut sizes as these are more readily available and are usually more economical in cost. Straightness, squareness, thickness and length are in accordance with tolerances set out in BS.1323.

Thickness: Panel—0.125 in. approximately.

Veneered Board-To customer's specification.

Weight: Panel—16 oz. to 18 oz./sq. ft. (variable according to type and colour). Veneered board—dependent on thickness and nature of core.

#### Curved Surfaces

Panels can be curved to a minimum radius of about 18 in. provided they are held at the centre. Veneers can be laid on curved plywood forms or veneered plywood can be curved by adopting usual woodworking technique.

#### Characteristics

The material is a lightweight, tough, non-corrosive and non-corrodible decorative laminated sheet. It is highly resistant to moisture, hot beverages, culinary fats and acids, alcohol, petrol, trichlorethylene and all common organic solvents. It is unaffected by weak organic acids such as vinegar or fruit juices, or by dilute alkalis such as soap and ammonia. It is not suitable for use in prolonged contact with strong acids such as sulphuric, hydrochloric or nitric, or with strong alkalis such as caustic soda or lime.

Heat Resistance: Conforms to BS.1323: 1946. Cigarette-proof type material (patented) withstands prolonged contact with burning cigarettes or cigars left on the surface.

Thermal conductivity: 1.4 to 2.5 B.th.u/sq.ft./hr./°F/1 in. of thickness.

Maximum linear movement due to humidity changes: 0.125 per cent.

Coefficient of linear expansion | °C: 0.00001 to 0.00003. Spread of flame: Conforms to BS.1323: 1946.

Panel—classified under BS.476 as class 1 (surfaces of very low flame spread). Veneered board (plywood core)—classified under BS.476 as class 2 (surfaces of low flame spread).

Heat and Sound Insulation: These materials having a relatively low thermal conductivity can be used as interior linings. By providing an air space between them and the outer wall an appreciable degree of insulation is obtained. Used in conjunction with insulation board, Warerite veneers can be employed in the erection of sound resisting partitions.

#### Surface Finishes

There are various surface finishes which are identified by code letters:

N—Standard matt or satin finish which is recommended for table and counter tops and for wall surfaces where a non-reflecting appearance is desired.

B-Standard glossy or polished finish recommended for hygienic wall surfaces.

A—Standard finish of the back surface of Warerite panels. It is not subject to any inspection and may be scratched or contain other imperfections.

S—A finish which is usually applied to the back surface of veneers and panels to give a key for cementing these on to timber grounds.

To ensure flatness, Warerite veneered board is usually balanced with a compensating veneer.

#### Patterns and Colour Textures

The material is available in about 24 standard patterns and colour textures. A number of others can be made to order provided the quantity justifies special manufacture. The pattern or colour is an integral part of the sheet and will not flake, chip or peel off. Patterns are normally on one side only.

#### Special Designs

Warerite pictorial panels are made by incorporating in the material artists' original designs, patterns, and hand-written signs and diagrams. For quantity production similar designs, patterns and lettering can be reproduced by normal printing processes and incorporated in the material.

These pictorial panels have similar properties to the other materials described on this Sheet. They are made both in the form of panels and veneered boards.

Compiled from information supplied by:

Warerite Limited (Unit of Bakelite Limited) Address: Ware, Herts. Telephone: Ware 502.

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Key

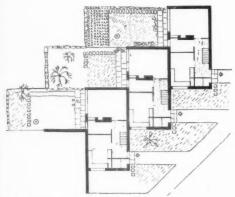
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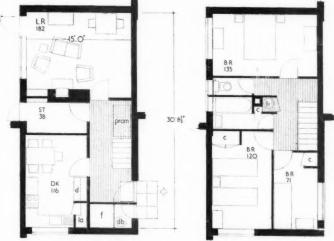


Key plan for staggered terrace houses

1950 and described in the AJ. Mostly there are three bedrooms and a dining-kitchen and living room on the lower floor. Three new types of terrace house have been evolved for larger families. In each case the front door is also the service door and access to the back of the house is through a store. The stairs and bathroom are in the centre of the house, lit by a clerestory recessed in the low-pitch roof. The end-type plan has a side entrance, allowing an extra room on the ground floor.

CONSTRUCTION.—The point blocks will have load-bearing reinforced concrete internal walls, RC columns and beams in external walls, with panels of brick and clinker cavity construction and RC floors and roofs. Alternative methods of

Looking south-west at the model of terrace houses bordering Alton Road.



Staggered terrace house ground and first floor plans



Typical terrace house ground and first floor plans, [Scale:  $\frac{T_0}{T_0}$  = 1'0"]





Model of typical olock of maisonettes. The type plans below were prepared for an earlier scheme, and have been modified for Roehampton.

#### HOUSING PROJECT

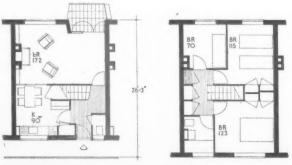
for the LCC in PORTSMOUTH ROAD, ROEHAMPTON, S.W.15 architect to the council, ROBERT H. MATTHEW

construction will be discussed later at a meeting at the LCC with the Consulting Engineers, Ove Arup and Partners and a limited number of selected contractors. The four-storey maisonettes will have load-bearing cross-walls in 9-in. brickwork at 18-ft. centres and RC floors. The terrace houses will be in traditional construction with low-pitch roofs.

SERVICES.-Bathrooms and w.c.s will have mechanical extract ventilation with duplicate fans and motors in the roof houses of point blocks. These will extract air through two vertical ducts (located next to lift shafts) each serving two flats per floor. Small horizontal ducts in the thickness of the floor, with small grilles at ceiling level will extract air from the w.c., bathroom and entrance jobby of each flat. This proposal, which has been approved by the medical authorities, is used successfully elsewhere in London. Central heating and hot water will be provided for all flats in the point blocks from a single boiler house located in the northeast corner of the site. Fuel will be coal and distritution will be by a low pressure hot water two-pipe system. Work may start late in 1952 and the estimated cost is £1,446,500.



Maisonette at end of block [Scale: 1'0"]



Typica lmaisonettes upper and lower floor plans

The following nine pages are devoted to a first look round this year's Building Exhibition at Olympia. Twenty-eight exhibits are described and this information is supplemented by illustrations of some of the stands and biographical notes and photographs (by Sam Lambert) of some of the more important men to be found on the stands. Next week we shall deal with more of the exhibits, including those of the ministries and the nationalized industries, and we shall publish three or four pages of photographs of some of the best stands.

## BUILDING EXHIBITION, 1951

OLYMPIA, NOVEMBER 14 TO 28



#### ORGANISER: H. R. G. MONTGOMERY

H. R. G. Montgomery (left) has been organizing the Building Exhibition since the end of the first world war. Before that his father, H. G. Montgomery (now 88), ran the show. Now H. R. G. has a son and—who knows?—he may continue the family tradition. The Building Exhibition takes place every two years, but work commences on each exhibition fifteen months in advance. Mr. Montgomery's wife helps and the small efficient staff is augmented by the same helpers each year for a month before the exhibition starts. Preparations for the Exhibition are made at Mr. Montgomery's head-quarters, which consist of a few small offices overlooking Bloomsbury Square, at 4, Vernon Place, W.C.I.

#### DIARY OF LECTURES AND FILMS AT OLYMPIA

LECTURES

Date		Time	Place	Subject	Speaker	Sponsor
Sat.	Nov. 17	3 p.m	Cinema N.H.G	Low Cost Housing	A. W. Kenyon	"The Builder"
Tues.	Nov. 20	3 p.m	Cinema N.H.G	Decorative and Structural Uses of Timber	J. R. M. Poole	TDA
		5.45 p.m	Cinema N.H.G	Sound Practice in the Use of Timber	Alwyn Jay	TDA
Thurs.	Nov. 22	3 p.m	Cinema N.H.G	Building Opportunities in Canada	J. M. Leslie	"The Builder"
		5.30 p.m	Conference Room	One-Pipe Plumbing	A. F. E. Wise	Institution of Sani- tary Engineers*
Tues.	Nov. 27	3 p.m	Cinema N.H.G	Sound Practice in the Use of Timber	Alwyn Jay	TDA
		5.45 p.m	Cinema N.H.G	Decorative and Structural Uses of Timber	J. R. M. Poole	TDA
				FILMS		
Fri. Mon. Wed. Fri. Mon.	Nov. 16 Nov. 19 Nov. 21 Nov. 23 Nov. 26	11 a.m. 12 noon 3.30 p.m. 5.45 p.m. 6.45 p.m.	Cinema N.H.G	Five MOW films (total duration 45 min.) "The Task Before the Building Industry" "Care and Maintenance of Plant" "Watch Your Step " "Portable Powered Tools" "Houses in the Town"		MOW
Thurs. Sat.	Nov. 22 Nov. 24	Two or three programmes be- tween 5 p.m. and 8 p.m.	Cinema N.H.G	" Bricks-How They are Made	National Federation of Clay Industries	
11:		Every hour, from 11 a.m. to 7 p.m. (incl.)	DSIR Cinema	Six programmes, each lasting approximately ½ hr., of films on Building Research		DSIR

<sup>\*</sup> Invitations may be obtained from the Secretary at 118, Victoria Street, S.W.1.

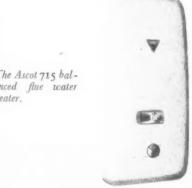
#### THE BALANCED FLUE (N. 269)

Ascots, as one might expect, are making a particular show of their new type 715 balanced flue heater, which has already been shown in prototype form at a number of exhibitions, and which is now in production. The main point of this design is that the combustion air is drawn from outside the room, so that it is impossible for any flue gases to reach the room as the heater's air and combustion spaces are connected only to the outside air. Since no flue in the ordinary sense of the word is needed, the outlets for the combustion products can be placed under balconies or any other projection-a great advantage when the heaters are to be used in blocks of flats. Since a large proportion of the heater is in the thickness of the wall the heater has a very small projection of only 5 in. from the wall face: the usual multipoint hot water service, of course, is provided.

The stand shows this heater in its two main forms. One heater will be working, supplying a sink, another will be fitted in a normal 11-in. brick wall, and a third in a service duct, each wall being cut away in each case to show the flue ducts. There will also be an opening prepared for the reception of a heater to show the method of installation.

also on show: The model 709 and the boiling water heater, two old and welltried Ascot models.

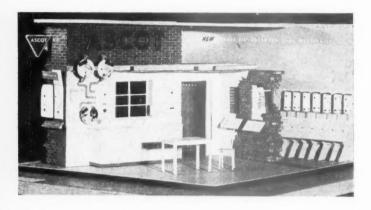
stand: Designed to represent the



The Ascot 715 balanced flue water heater.

outer wall of a building, one side of the stand wall is shown as a kitchen while the other side is laid out as a garden to show how the flue terminal or ventile is fixed.

firm: Ascot Gas Water Heaters Ltd., 43, Park Street (GRO. 4491). Stand No. N. 269.



#### STEEL SCAFFOLDING BOARDS (434 G.H.G.)

H. L. Reynolds Ltd. are showing rustproofed steel scaffold boards in the standard width of 9 in. with a thickness of 1½ inches. The top surface has a series of non-slip indentations and the firm also produce a steel sleeve which is welded in at one end of the board so that two or more boards can be connected together, providing a continuous level platform without any overlapping boards. No special putlog spacing is required and the jointed boards are strong enough to carry considerable weights even when the joints are between the points of support.

firm: H. L. Reynolds Ltd., Old Leeds Steel Works, Balm Road, Leeds, 10. Stand No. 434 G.H.G.

#### THE "LOTUS" AND THE "BEAN" (C. 55)

Bryan Adams (Joint Managing Director with his cousin, Alan Adams), by profession a Hydraulic and Drainage Engineer, and the first to erect rotary sprinklers in Canada, lives at Sanderstead. Likes caravanning and for choice tours Yorkshire; enjoys fresh air, music and bright colours. Still plays tennis and is a photographer (Baby Rolleiflex).

also on the stand: His son, Robert, who has recently left the Forces and joined the firm.

news: The convenience trade still prospers. New are the "Lotus" Drinking Fountain (proof against back syphonage), designed for the Middlesex



County Council; the "Lotus" Basin, designed for the Nuffield Trust. The "Bean" Basin, modelled in collaboration with the Hertfordshire County Council, still enjoys great popularity, having been installed in many schools and selected for the Royal Festival

firm: Adamsez Ltd., 54, Victoria Street, S.W.1 (vic. 2172). Stand No. C. 55 (the same old one).

represented: Half a dozen men in England and Wales and one in Ireland.

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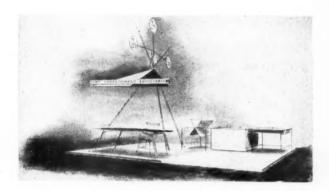
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#### THE ZINC ASSOCIATIONS (D. 82)

From the building industry's point of view the Zinc Development Association is emphasizing mainly the uses of rolled zinc, but a showcase contains examples of zinc alloy die cast builders' hardware and electrical fittings, and other small articles, such as hinges and screws, which are protected from corrosion by a zinc coating applied either by galvanizing, sherardizing, electroplating or spraying. Publications, including many new titles, issued by the ZDA and its affiliated Associations, the Zinc Alloy Die Casters, the Zinc Pigment Development, and the Hot Dip Galvanizers Associations, are available.

stand: This year's stand is designed by Stefan Buzas, of James Cubitt and Partners. The main feature is a tripod of galvanized steel scaffolding from which small areas of zinc roofing, laid on the roll-cap, standing-seam, and



Italianized systems, have been suspended.

also on show: Examples of zinc rainwater goods made according to BS 1413: 1948, and sections showing the

correct method of fitting zinc weatherings.

firm: Zinc Development Association, Lincoln House, Turl Street, Oxford. Stand No. D. 82.

#### A THREE-IN-ONE KITCHEN UNIT (K.224)

Easiclene have one new type of kitchen unit, the DC3 "Three-in-One" unit, which consists of a porcelain-enamelled draining board mounted on an enamelled wooden cabinet fitted with drawers and cupboards. This unit is designed to be fitted on either side of the sink, and the draining board lifts off to give

access to a hardwood work top. The firm's exhibit also includes different types of sink unit, single and double drainers, and low-level, pressed steel, flushing cisterns.

firm: Easiclene Porcelain-Enamel (1938), Ltd., Darlaston, South Staffs.

(DARLASTON 130). London Office: Kent House, Market Place, W.1 (MUS. 8901). Stand No. K.224.

represented: Branches in London, Birmingham, Coventry, Manchester, Southampton, Bristol, Wrexham, Glasgow.

#### MIDGET WINDOW GEARING (D.83)

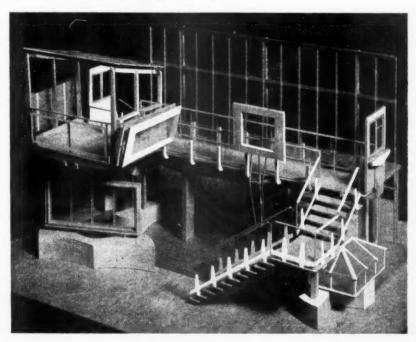
New on the W & W stand is the Teleficx Midget Window Gearing. This is intended primarily for operating single opening lights, being a development of the well-known "Teleflex" gear used for heavy installations. The gear is totally enclosed in light alloy conduit and can operate two or more opening lights if required. Also worth seeing is the wall of double glazed "Aluminex" vertical glazing which includes electrically-operated vents. On the first floor can be found yet another use for nylon—for fly screens—and in case you wonder how one operates windows with fly screens, there is a special gadget—the "Roto"—for this purpose.

also on show: Various other examples of Williams and Williams products, including a steel, sliding and folding, school-type, four leaf window in a wood frame, double action aluminium swing doors, and a standard aluminium lantern light.

stand: The stand itself was designed by Arcon, with Samuely as consulting engineer. This 'combination has, as usual, produced some interesting results. For example, the first floor gangway of the stand is supported on a single laminated wood cantilever mounted on a pillar and braced at one end by a tension cable. A similar cross cantilever supports the office. The stand, being constructed mainly of wood, provides an excellent foil to the metal products of W & W.

firm: Williams and Williams, Ltd.,

Victoria House, Southampton Row, W.C.1 (HOL. 9861). Stand No. D.83. represented: 15 factories between here and Manilla; 20 area offices in UK.



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#### 'EVERYTHING FOR THE BUILDING INDUSTRY" (G. 151/2)

The many facets of the Eastwoods ing interests are illustrated in this Group's wide manufacturing and tradyear's stand. The ground floor is



devoted entirely to the manufacturing side of the organization, and large panels of Eastwoods bricks are displayed alongside photographs of some of the major contracts to which East-woods products have been supplied since the 1949 Exhibition. On the first floor are displayed representative products marketed by the distributing organization—Eastwoods Sales Ltd.

also on show: Eastwoods "Wellington" and "GB" brand Portland cement, "Durocrete" rapid-hardening cement, precast concrete pipes, kerb and architectural units and washed and graded aggregates and sand from the Surrey and Hertfordshire pits.

stand: The two-storey stand, designed by architects J. C. Stillman and John Eastwick-Field, is composed mainly of Eastwoods own products.

firm: Eastwoods Ltd., 158 & 160, City Road, E.C.1 (CLE 4333). Stand No. G. 151/2.

epresented: An elaborate system of depots situated throughout the country.

#### AS USED ON THE THAMES RIVER PIERS (Q. 307)

The strip slates, as used on the Thames river piers, are shown on the Ruberoid stand, and full size models demonstrate the Standard Ruberoid Specifications for roofing. Forming the second tier of the stand may be seen sections of Ruberoid insulated metal roofing, claimed to be the original system of lightweight metal roof decking. This is

as employed on such prominent buildings as the new factory for Vauxhall Motors at Luton, Patons & Baldwins wool spinning mill at Darlington, and the hangar at Filton, Bristol, for the Brabazon aircraft. Photographs of buildings where "Ruberoid" has been used can be seen on the stand, including one or two of the roof of Calcutta Museum. stand: Designed by Eric Brown and Peter Chamberlin, it consists of two floors, with "Ruberoid" insulated metal roof for the second tier.

firm: The Ruberoid Co. Ltd., 1-19, New Oxford Street, W.C.1 (HOL. 9501). Stand No. Q. 307.

#### BABYLONIAN BRICKS (D.88)

Having created much interest at the 1949 show, the collection of Babylonian and Roman bricks and tiles (kindly

lent by Bradley and Craven, Ltd., of Wakefield, manufacturers of brick-

making machinery and equipment) is



Bricks from over 100 makers are incorporated in the stand, including closers, bullnoses, squints, and many other specially-shaped and exotically-named varieties. An innovation this time is that each panel of brickwork is labelled with the name and address of the makers, so that visitors to the exhibition will know where to get a brick which takes their fancy. Yes, and all the bricks exhibited are in current production.

also on show: Clay roofing tiles and quarries.

stand: Designed by Cecil C. Handisyde, architect for the Stewartby laboratory of the London Brick Company.

firm: National Federation of Clay Industries, 30, Gordon Street, W.C.1 (EUS. 2568). Stand No. D.88.

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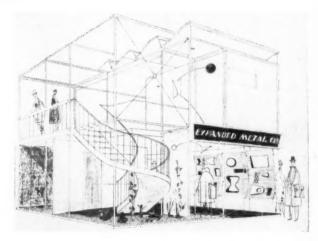
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#### FLATTENED EXPANDED METAL (E. 95)

The Expanded Metal Co., founded in 1892, have been exhibiting continuously since Olympia became the exhibition site in 1909. Frank Guise (managing director) informs us that the new product, flattened expanded metal, is displayed for the first time. The stand shows some of the many uses to which expanded metal can be put. The material was used on the external walls of the Lion & Unicorn building and many others at the South Bank. "Exmany others at the South Bank. pamet" metal products are used for reinforcement of concrete, lathing for plaster work, open work flooring walkways and partitions to decorative ceilings and walls. Full information can be obtained at the stand about "Expamet" expanded steel reinforcement for concrete, "BB" lathing and "Ribmet" backgrounds for plaster sus-pended ceilings, and solid and hollow plaster partitions, "Ribmet" as a permanent centring for barrel vault and dome roof construction, super "Ribmet" permanent centring and reinforcement for concrete floors and roofs, "Exmet" reinforcement for



brickwork, "Expamet" openwork flooring panels, "Expamet" pedestrian barriers, and expanded aluminium.

**stand**: By Douglas Stephen & Partner, who have designed a double tier stand with a small office on the ground floor.

firm: Expanded Metal Company Ltd., Stanton Works, West Hartlepool. London office: Burwood House, Caxton Street, S.W.1 (WHI. 1736). Stand No. E. 95.

represented: Ten district offices.

#### A COMPLETE ROOFING SYSTEM (F. 126)

"Andek" is a complete roofing system fixed direct to supporting steelwork, and comprises metal bar sections, roof slabs and flexible bitumen roofing.

It spans up to 12 ft. simply supported, or longer spans using a special multi-span principle.

firm: D. Anderson & Son Ltd.,

Stretford, Manchester. London office: Roach Road, Old Ford, E.3 (AMH. 3214 and 2388). Stand No. F. 126.

#### THREE MILLION SQUARE FEET OF ROOFING (B.32/3)

Messrs. William Briggs are making an especial point this year of the mammoth contract for 3 million square feet of Bitumetal roofing which they carried out at the Abbey Works of the Steel

Company of Wales, Ltd. This firm has always adopted a sensible attitude at exhibitions and shows not only the finished roof, but also makes a point of explaining the constructional details by building

most of the roof samples in part section.

firm: William Briggs & Sons, Ltd., East Camperdown Street, Dundee (DUNDEE 82211). Stand No. B.32/3.

#### EQUIPMENT FOR THE SMALL BUILDER (H. 169)

The Chaseside Engineering Company are showing no new models, but they have a large range of mechanized building equipment, all of which is based on their standard basic tractor unit. A number of different components are produced so that it is possible to carry out almost any process from site clearance and digging foundations to placing bricks or tiles at first floor scaffold level. Far from producing a series of individual machines suitable for only one or two specific jobs, this firm has concentrated on a whole range of equipment so that as many jobs as possible can be done. This approach seems right for the smaller builder who wishes to mechanize his processes

as far as possible, but who probably has not enough capital to invest in a number of different machines.

firm: Chaseside Engineering Co. Ltd., Station Works, Hertford, Herts. Stand No. H. 169,

The Chaseside ½ cu. yd. light excavator back-filling foundations on a Birmingham housing site.



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#### POST AND PANEL (N. 275)

ABCD Ltd., of Raynes Park, are pro- concrete buildings constructed on the

ducers of a whole range of small post and panel system-garages, sheds



and similar buildings. The standard panels are based on posts at 4-ft. centres and the firm has evolved quite an interesting jig for laying out foundation, a light framework carrying the appropriate core boxes so that when the floor concrete is poured the pier holes are automatically made at the same time. The makers have adopted as a slogan "The charm of the traditional timber building with ten times the life."

firm: Associated Building Construction Development (Raynes Park) Ltd., 34-35, Alpha Road, Surbiton, Surrey (ELMBRIDGE 1355). Stand No. N. 275.

#### PLASTICS FOR BUILDING (D.86/7)

Three of the ICI Divisions are showing at Olympia, with displays of leathercloth, metals, and plastics. "Mural Rexine", "Rexine" and "Vynide" brand coated fabrics for interior decoration, upholstery and panelling form the leathercloth section, while the metals division exhibits are concerned with the many applications of non-ferrous metal products. The uses of both copper and aluminium as durable roof-cladding materials are demonstrated, with various methods of fixing. jointing and making seams, flashings

Aluminium alloy and weatherings. extrusions for the assembly of a complete roof covering are also shown, and much is made of the neatness and ease of assembly of domestic copper tube installations embodying light-gauge copper tube and Fyffe fittings.

also on show: Other exhibits include a new product of the division—the "Kynal" aluminium allov non-slip treadplate—"Kudampro" copper damp course strip in coils, "Terrabond" brass and aluminium alloy strip for terrazzo

flooring, and aluminium alloy extrusions. The plastics division emphasizes the use of corrugated "Perspex" for the roof lighting of industrial and commercial buildings, and to "Alkathene" foil as an anti-corrosion membrane in concrete floors. "Mouldrite" adhesive and laminating resins are also shown. One of the main points of this stand is the clarity with which the various applications are demonstrated.

firm: Imperial Chemical Industries Ltd., 42, Hertford Street, London, W.1. Stand No. D. 86/7.

#### SAVING LEAD BY LEAD BURNING (H. 188 and J. 195)

A special feature of the Lead Industries demonstration of lead burning and the

Development Council's stand is the making of joints in lead pipe by the



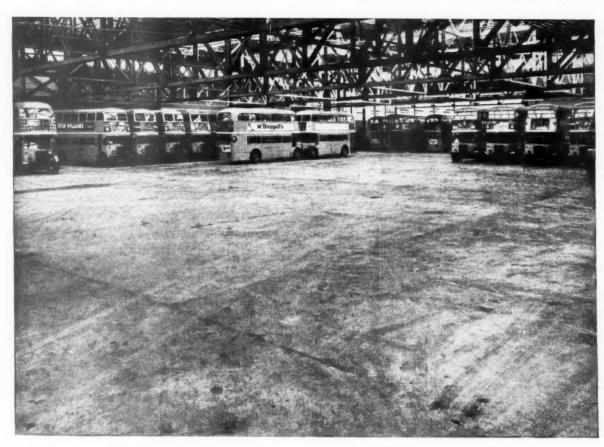
soldered spigot method, which shows a considerable saving in the amount of metal used.

Typical examples of lead burning as applied to building work are shown, so that it should be possible to recognize good practice in this technique. Emphasis is placed on lead burning because it is being increasingly used in modern plumbing, and plumbers in particular are showing considerable interest in it.

also on show: The standard forms of lead sheet and pipe manufactured to controlled quality, examples of leadwork, a lead rainwater head of modern design, an example of old leadwork, and the range of publications issued by the Council. The stand includes an example of glazing with lead covered glazing bars.

stand: Designed by John Pinckheard of Booth and Ledeboer.

firm: Lead Industries Development Council, Eagle House, Jermyn Street, S.W.1 (whi. 7264). Stand No. H. 188 and J. 195.



[ ARCHITECTS: Adie Button & Partners, F/F.R.I.B.A. CONTRACTORS: Plastering Limited, London, S.W.2.

A dustless wear-resisting concrete floor to garage some of London's new Buses

## ANOTHER COLEMANOID FLOOR

THE LIQUID WATERPROOFER & HARDENER

This is the interior of the new Thornton Heath Bus Depot where the concrete floors have been made dustless and exceptionally resistant to the wear and tear of heavy vehicles by the use of Colemanoid as have two other new garages in the London area. Incidentally, Colemanoid has been used for public transport garages since 1921.

Colemanoid not only adds to the strength of concrete and makes floors oil, grease and

waterproof, but avoids the long delays waiting for frosty weather to disappear. Make it an integral part of the concrete to avoid the ill effects of frost.

For further details write to me for Bulletin No. 3.

Geil Kahn



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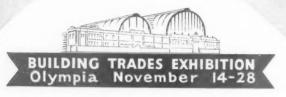
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pment Street, H. 188 THE ADAMITE COMPANY LTD., Manfield House, Strand, W.C.2.

Temple Bar 6233/6



You are cordially invited to call on

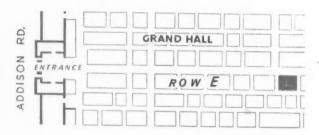
## SEMTEX

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## STAND 101

Row E · Grand Hall

You will find much that will interest you among the modern floor surfacings displayed.



## SEMTEX LTD.

A Dunlop Company

For FLOORS

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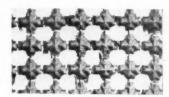
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### SHINGLES SAVE ROOF TIMBERS (K. 231)

W. H. Colt and Colt Ventilation have a joint stand to display Canadian cedar shingles, Colterro lathing (widely used on the South Bank) and the different types of industrial ventilator. The firm claims that shingles are cheaper than clay tiles, and that 40 per cent. of the roof timber can be saved. They also point out that the fire insurance rate is the same for shingle as for tile or slate roofs.



" Colterro" lathing.

firm: W. H. Colt (London), Ltd., Surbiton, Surrey (ELMBRIDGE 6511). Colt Ventilation, Ltd., Surbiton, Surrey (ELMBRIDGE 6511). Stand No. K.231.

represented: Area Offices in Birmingham, Bradford, Kilmarnock, Manchester, Newcastle, Sheffield, Newport (Mon.).

### GYPSUM PLASTER AND A USEFUL BOOKLET (N. 265)

Taking precedence amongst the exhibits on the Cafferata stand is the well-known "Murite" gypsům plaster. This is manufactured in five grades and is shown applied to the various surfaces likely to be found in modern building practice.

The company's new works, situated close to their Hawton quarries, from which some of the finest gypsum rock in the world is obtained, are now in full production, thereby enabling increased demands for new and improved plasters to be met.

also on show: The recently-introduced Architects' Specification Booklet, prepared by the company. Copies will be available on the stand for architects to take away with them.

firm: Cafferata & Co. Ltd., Newarkon-Trent, Notts. Stand No. N. 265.

#### SIX NEW FIGURED GLASSES (H. 175 and J. 208)

Buffalo, sable and waterbuck have all fallen to the gun of Jack Chance. Also a keen fly fisherman (in Scotland since the war) and when not fishing he writes tall stories, based on fact, for " The Field" and "The Flyfishers' Club Journal." Favourite modern authors, Somerset Maugham and Nevil Shute; classical, Jane Austen. Used to play ice hockey twenty years ago for Richmond and Golders Green; learned to play in Switzerland. Learned French in the Loire Chateaux region. He used to play in a University dance band. Likes Handel, Tschaikowsky, Delius-and Geraldo. Drove Alfa-Romeo before the war, but has got over "that stage" and now has a Humber Hawk, but would like any modern car he could get. Has been to South Africa, India and Burma, and during the war used to be i/c Fighter. Operations Rooms, Air Command, SEA. He has a small house with a big garden and a small poultry farm at Penn in Buckinghamshire. Married, with two children. Great grandson of one of the original partners, he is London Manager of Chance Brothers and also handles their publicity. He is on the design and publicity committees of the Glass Manufacturers Association, and on the Council of the RCA.

**also on the stand:** A. E. Wright (Sales Manager) and E. N. Somerfield (Asst. Sales Manager), flat glass division.

news: This is the first time that Chance Brothers have exhibited since the war and the first time that they have exhibited anything but Fibreglass, now a separate and independent firm. They show the prototypes of six new figured glasses, two in collaboration with Sadie Speight, two by one-time

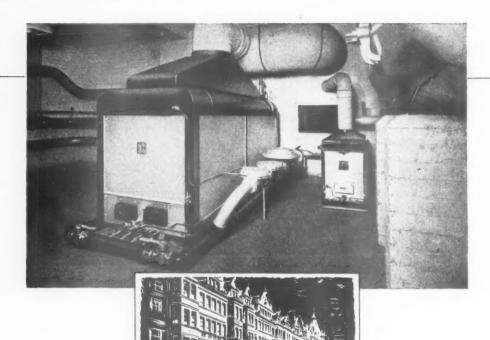
rubber planter, J. Beresford Evans, one by L. J. Harwood and one by Fultons of Glasgow. Criticism of all these designs is invited so that the firm can decide which to market.

also on show: A demonstration of "Calorex" glass, which absorbs 80 per cent. of the heat; glass roofing tiles which can be used alone or combined with ordinary roofing tiles to provide daylight through pitched roofs; spherical domes for illumination through flatroofed buildings; pavement lenses of pressed glass and the complete range of Chance glasses for building purposes.

stand: Designed by Boissevain and Osmond and so arranged that as much glass as possible can be examined from the four public gangways and from the stand itself. There is ample seating for visitors and salesmen.

firm: Chance Brothers Ltd., Smethwick, 40, Birmingham. London office: 28, St. James's Square, S.W.1 (WHI. 6002). Stand No. H. 175 and J. 208.

represented: London and Home Counties, J. C. Elphee; elsewhere, S. Ray, J. C. G. C. Edwards; export, agents in all overseas markets.



This large building was recently reconstructed to form the Head Office of the Woodall-Duckham Vertical Retort and Oven Construction Co. (1920) Ltd. It houses a large number of design and clerical staff and is provided with a full scale kitchen and canteen. The building is equipped with direct radiator heating and a warm fresh-air inlet system, using a Potterton Gas-Fired 'Rex' 3/10 boiler rated at 1,250,000 B.Th.Us. per hour. The hot water supply for the kitchen, wash basins, etc., is served by a 'Rex' D/5 boiler, rated at 164,000 B.Th.Us. per hour.

Heating Installation by

## RICHARD CRITTALL & CO. LTD.

151 GREAT PORTLAND STREET, LONDON, W.1

using

## Potterton gas-fired boilers

THOMAS DE LA RUE & CO. LTD.

( GAS DIVISION )

Imperial House, 84/86 Regent St., London, W.1. Northern Area: 4 Albert Sq., Manchester 2. Midlands Area: Portobello Works, Warwick.

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#### "WONDER ROCK" (E.94)

David Simon, Southern Sales Manager, all round sportsman, plays bowls for the Streatham Constitutional Club (right), and R. S. Leary have been selling plaster board since the very earliest days when The British Plaster Board Ltd. introduced the material into this country. They have had the difficulties of introducing a new material against what were then the traditional methods of wood lath, but now the pendulum has swung the other way and they have less material to distribute than the public wants. Born salesmen, they look forward to the day when they have to chase the customer rather than the customer chase them.

news: The BPB stand contains many



promising things for the future, including a plaster board with a wood grained finish, new developments in suspended ceiling technique, and examples of plaster light-weight aggregate mixes which have had much success in North America. Also on view, by arrangement, will be the sound film "Wonder Rock," the story of gypsum.

firm: The British Plaster Board Ltd., Wallasey, Cheshire. Stand No. E. 94.

represented: There are about 30 representatives throughout the country. London office: 27-29, Fitzroy Street, W.1 (MUS. 9760).

### EJMA HEAVIER SECTION WOOD CASEMENTS (G.139)

The English Joinery Manufacturers Association are showing their new standard wood casement window. The revised design has been specially prepared to meet the needs of those who require a slightly heavier section with only a small increase in timber content, and, as with all previous EJMA casements, it is available in an exception-

ally wide range of types and sizes to meet almost every conceivable requirement.

also on show: Examples of the EJMA Standard Kitchen Units of which there are 20 different types. This wide variety in design allows great adaptability and flexibility, so that architects can make their choice to suit any

size or shape of kitchen. In addition, it is possible to see specimens of EJMA standard sash windows, and standard doors and door frames.

firm: English Joinery Manufacturers Association (Incorporated), Sackville House, 40, Piccadilly, W.1 (REG. 4448). Stand No. G. 139.

#### SUNBREAKERS AND AWNINGS (E. 98)

Among their standard products, Crittalls of Braintree show their type E window, which has been introduced since the last Building Exhibition. This type is made in 2-ft. wide units instead of the more usual 1 ft. 8 in. and, besides giving a greater light area, is more robustly made. These windows are shown on the first floor of the two-storey stand, and on the ground floor is the opposite development—windows for hot climates, where the need is not for maximum light and minimum draught but for maximum ventilation and security and the exclusion of direct sunlight.

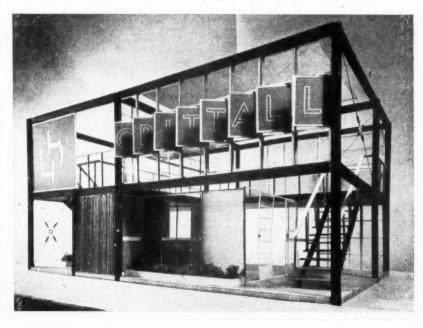
also on show: A sample set of movable sunbreakers represents the modern treatment of large openings. These are in cast and sheet aluminium and the horizontally-pivoted leaves are linked. The set would probably be one of many operated simultaneously by powered gearing. On one side of the sunbreakers is an example showing the traditional treatment of small openings: the metal window frame (opening or fixed) is fitted with pressed steel adaptor strips to take wood louvre slats, which are usually supplied locally. These adaptor strips can be fitted to ordinary standard metal windows.

Other exhibits include a special sliding and folding door and the new friction hinge is shown on one of the standard windows. Another interesting type is the "Awning" window, a series of linked top-hung ventilators, which are shown with two different types of flyscreen.

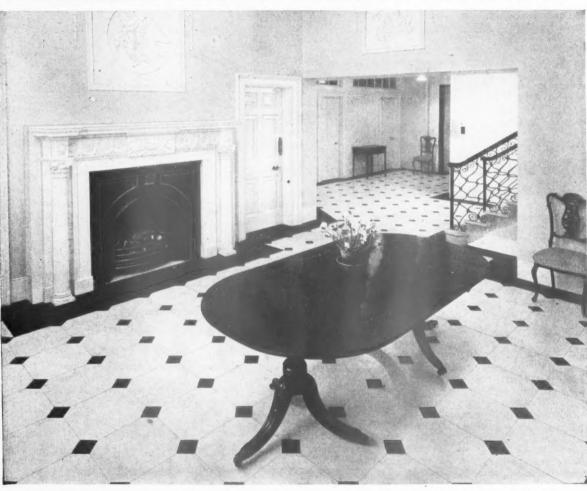
stand: The stand itself is the result of a competition held during the 1951 Summer Term at the AA School and won by five students calling themselves

Group E. It is an excellent thing that Crittalls should have revived the competition habit. Remember the astonishment when Venesta first did it in the early 1930's?

firm: Crittall Manufacturing Co., Ltd., 210, High Holborn, W.C.1 (HOL. 6612). Stand No. E. 98.



## Designed Rubber Floors



Architect: J. C. Lindforth, M.Inst.R.A.

This copy of an old stone floor laid at the High School for Girls, Bath, is a contemporary example of work in the AVON tradition. The floor was installed by AVON craftsmen and will give many years of silent service. Avon Rubber Floors are colourful and permanent and are ideally suitable for Banks, Hospitals, Offices, Cinemas, Hotels and Ships. A warm welcome awaits you at the Avon Stand where specimens, photographs, architects' data sheets and all relevant information will be available.



BUILDING EXHIBITION · GRAND HALL · OLYMPIA · STAND No. 54 ROW C

The Avon India Rubber Co. Ltd., Melksham, Wilts.

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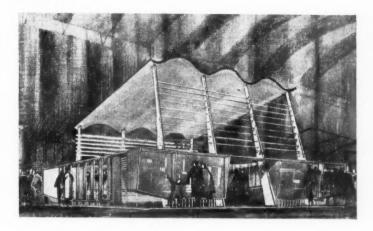
#### A STRESSED PLYWOOD ROOF (P. 298)

If you are lucky you may find director Phillip Reece on the TDA stand; he will be there from time to time. If not, see Mr. Poole, the Association's chief architect and head of their Research and Design Department, who was a colonel in the Royal Engineers—quite an achievement for an architect, or Barrie Glass, publicity manager, and 29 years in the timber trade in Burma.

also on the stand: education officers, regional officers, technical and publicity staff and senior members of the Association.

news: The roof of the stand is of that revolutionary technique—stressed plywood, with an extremely high strength-to-weight ratio. Displayed on the stand are models of recent work designed by the Association and panels illustrating details of construction and the many uses of timber.

stand: Designed by J. R. M. Poole



(see above), the stressed plywood roof is supported by a timber frame, clad with sycamore-veneered plywood.

firm: Timber Development Association Ltd., 21, College Hill, London, E.C.4 (CIT. 4771.) Stand No. P. 298.

### THREE COATS IN A DAY (B. 40/41)

Vulcan Products are very properly taking their own medicine and their stand is finished in Vulcan Emulsion paint. This is a specially formulated synthetic resin emulsion which is suitable for use on almost any material, including new concrete or plaster, and in this particular application its adhesion to highly alkaline surfaces, such as those fireproofed to conform with

LCC regulations, is very clearly demonstrated. Although water is used for thinning out, the paint is not in any way like distemper or oil-bound water paint, since the base is an emulsified synthetic resin medium, giving a finish which can be washed or scrubbed, is extremely rapid drying (two or three coats can be applied by brush in a working day) and easy to apply.

Although this new product is of great interest, it is, of course, by no means the only finish shown, as the firm makes many other types, including water paints and oil paints and enamels for both interior and exterior use.

firm: Vulcan Products Ltd., 24, Ryder Street, S.W.1 (TRA. 4161). Stand No. B. 40/41.

#### BEETLES ADVANCING ON LONDON (409 G.H.G.)

If you collect beetles, visit Stand 409. Also on the stand will be E. H. B. (Brooky) Boulton, who has spent a lifetime studying the little blighters. The one perched on his hand is a 20 times enlargement in wax of the lyctus beetle. He is the first person to become intimately acquainted with the life cycles of all four types of wood pest and has as a result been able to copyright the process. He gave up the technical directorship of the TDA to become managing director of Pestcure Ltd. and has been able to devote all his time to killing them ever since. Boulton first became interested in timber after the first World War and went to study at Cambridge in 1919, later to lecture. He's a keen traveller (having visited amongst many countries—USA, Nigeria, Germany and Montenegro)-but since he really started working he has only been able to make a five-day visit to Paris. He was a regular patron of the last horse cab to survive in Piccadilly. He still takes a "speculative" interest in horses.

also on the stand: David Boulton

Messrs. Matthews, Bernard Edes (Birmingham) and L. Wall (treatment specialist).



news: This is the firm's third exhibition and since their start they have treated over a thousand buildings. Since nobody nice likes to talk about dry rot in their home, we won't tell you which ones. New this time is the news that the deathwatch beetles, previously confined to hardwoods, have eaten a place for themselves into softwoods and that furniture beetles (previously confined to the Camberley-Weybridge region) have begun to use their wings and have moved to two churches in London. Pestcure also, of course, deals with dry rot and uses flamethrowers amongst other things to get rid of it. No method too drastic.

also on show: Models showing life cycle of numerous types of beetle.

firm: Pestcure Ltd., 30, Cavendish Square, W.1 (REG. 0704, MAY. 3397). Stand No. 409 G.H.G.

represented: In 22 parts of the country.





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Certain places of importance, such as offices, hotels and showrooms, need and deserve special furniture. Heal's are happy to undertake this work and aspecific example is shown in this photograph. We can either work to your own plans or can design and produce complete furnishing and decoration schemes in our own studio. In either case we shall try to interpret your ideas as sympathetically as possible and we hope that our long experience of working to architects' plans may prove helpful to you.



The Board Room, Messrs. Abbot Duplicate Book Co. Ltd., Kings Langley, the well-known printers, showing the furniture recently designed and supplied by Heal's Contracts Ltd. The table is in two parts and is of elm and otherry-mahogany with bleached mahogany mouldings on the legs. The chairs are covered in blue hide and the rust Wilton carpet has a blue spot design. The curtains are of pale blue brocade with wooden pelmets.

## HEAL'S CONTRACTS LTD

### COLOUR BY THE BRITISH COLOUR COUNCIL (E. 101)

B. W. (Ben) Wright of Semtex Ltd. likes Italian and French cooking (unloaded ships at the Normandy beachhead) and genuine Chinese food (he was also Superintendent at Hong Kong). Of Scots descent, a McIver of the Campbell Clan, he spent his holiday on the Mull of Kintyre this year. He has lived in Southampton and Glasgow, and now lives at Staines; likes London, plays golf (handicap 22, used to be 16), grows roses and hasn't been to the cinema since he got his television set.





B. W. Wright of Semtex.

also on the stand: F. G. Mottershaw (managing director and founder), A. E. Pickard (general manager).

news: Since the last exhibition Semastic tiles have been re-grouped in five price categories and eighteen colours, which have been chosen (and christened) by the British Colour Council and conform as far as possible to accepted interior decoration colours. There are more marbled patterns in the new range. Quality and installation are the same, but more attention is being paid to sub-floor treatment. Completely new to the exhibition are Vinyl (thermo-plastic asbestos) tiles

which are oil- and grease-proof. Their main advantage is flexibility which enables them to be laid direct on wooden floors. There are 18 colours (only two plain). Any special colour can be supplied if you are prepared to order 10,000 sq. yards. Also new is a grease-resistant tile for use in canteens, etc.

firm: Semtex Ltd., 185, Finchley Road, N.W.3 (MAI. 6070). Stand No. E. 101.

representatives: Eighteen in the UK, as well as 22 contracting branches with specially trained staff and 5 associated companies.

#### AN INCOMBUSTIBLE BUILDING BOARD (426 G.H.G.)

The Cape Asbestos Company are exhibiting for the first time at this exhibition, and are showing two building boards, Pluto, an asbestos plastic board with good weather and fire resistance,

and Asbestolux, which is claimed to be completely incombustible and has a high insulation value.

also on show: A complete range of insulating products, including sectional

models of structures incorporating thermal and acoustic insulating materials. firm: The Cape Asbestos Company Limited, 114-116, Park Street, W.1 (GRO, 6022). Stand No. 426 G.H.G.

### SOUVENIRS FROM THE FESTIVAL (C.46)

"Bunny" Warren, on a cattle range in Australia before the war (came back to England because he preferred the climate!) and 4 years in MOW Building Materials Division, and Bernard North, with a degree in Building Technology, and also 5 years in the Building Materials Division—both on Armstrong Cork Stand. Director of Armstrong Cork's Building Materials Division, Malcolm Wood, will be there after November 17. At present having a late holiday in Spain; but it won't be all holiday because Armstrong Cork have factories there.

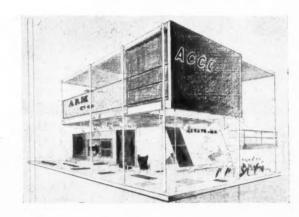
also on the stand: Stafford Neck, manager of the flooring dept., ex-Deputy Commander of Military Government of Osnabrück and O-i-C housing there, and technical representatives.

news: On the stand are 6 tiles taken up from the main traffic area of the "People of Britain" section of the South Bank Exhibition. It is estimated that 7½ m, people walked over these tiles: total wear—3/1,000 in. Also exhibited: "Accotile," cork flooring and Armstrong's linoleum cement—it's laid cold from the drum and sets rapidly.

stand: Designed by Peter Bender and Douglas Cole.

firm: Armstrong Cork Co., Ltd., Bush House, Aldwych, W.C.2 (CHA. 6281). Stand No. C.46.

represented: Twelve technical representatives, all working from London H.Q.



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Smiths 'Sectric' range. Available with 12", 9" and 6" dials

## Building Illustrated

New Heavy Engineering Works for GEC. Birmingham. (Page 581.) Architect: R. Bennett, A.M.I.STRUCT.E., constructional engineer to the GEC. Quantity surveyors: George Lewis & Son; general contractors: W. J. Whittall & Son Ltd.; sub-contractors: structural steelwork, Boulton & Paul Ltd.; heating, G. N. Haden & Sons Ltd.; lighting. GEC; 110-ton cranes. Sir William Arrol & Co. Ltd.; light cranes, Herbert Morris Ltd.; lifts, Express Lift Co. Ltd.; steel reinforcement for test beds and overspeed pit. Trussed Concrete Steel Co. Ltd.; roof glazing and metal window sashes, Mellows & Co. Ltd.; roof sheeting, Robertson's Building Service.

## Announcements

Marbello & Duras Ltd., and the Concrete Case Hardening Company Ltd. announce the following appointments: —Mr. J. W. F. Russel. M.I.STRUCT.E., of Newcastle-upon-Tyne, has become technical adviser and agent for the Northumberland, Cumberland and Durham area. Mr. D. R. Snape. A.M.INST.B.E., who was previously a Director of David Charles Ltd., civil engineers and building contractors of Birmingham, has become contract manager for both companies. He is a qualified quantity and building surveyor.

Ing surveyor.

The address of the head office and London
Area sales office of the Northern Aluminium
Company Ltd. is now Bush House, Aldwych, W.C.2. (Tel: Temple Bar 8430).

Mr. Arthur Parkinson, M.A.(OXON), has been appointed to the board of directors of Crompton Parkinson Ltd. He has ceased to be an executive director of the company and

has relinquished his executive position as assistant general sales manager of the plant division of the sales department. He will undertake special duties assigned to him by the board of directors.

Sissons Brothers & Co. Ltd., Hull, announce that an arrangement has been made with Reed, Millican & Co. Ltd., of Newcastle-upon-Tyne and Carlisle, for their mutual paint distributing interests throughout the North of England and Scuth of Scotland to be amalgamated under Sissons Brothers' subsidiary company, Sissons Paints (Northern) Ltd. Major H. J. M. Millican and his brother, Mr. Keith Millican, will join the board of the latter company. Reed, Millican & Co. Ltd. will continue their glass business as at present.

Upson Board has found its way on to the market through the firm of timber, plywood and wallboard merchants, James Latham Ltd., Mount Pleasant Hill, Clapton, E.5, who are holding stock for delivery on their Middlesex Wharf. This material is a light weight general utility panel, suitable for a variety of industrial uses.

Mr. J. T. A. Brooks, F.R.I.C.S., has been appointed chief quantity surveyor to the MOW, in succession to the late Mr. C. A. Morrison, C.B.E. Mr. Brooks has been with the Ministry for more than 30 years. For the last two years he has been assistant chief quantity surveyor.

A separate architects' department has been formed for the Durham Division and for the Northern (N and C) Division of the National Coal Board, in place of the department which formerly served both divisions. The divisional architect, Durham Division will be Mr. R. Wood, F.R.I.C.S., A.R.I.B.A., and the Divisional Architect, Northern (N and C Division), will be Mr. J. C. Spooner, A.R.I.B.A., A.R.I.C.S. Both offices will be at the present address, "Ashfield Tower," Gosforth, Newcastle-upon-Tyne, 3.

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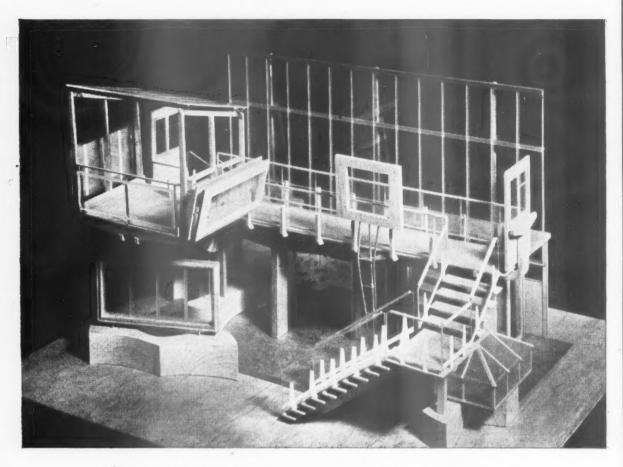
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## WILLIAMS & WILLIAMS

## AT THE BUILDING EXHIBITION 1951

The Williams & Williams stand is one of the most noteworthy design features of this year's Building Exhibition. Its use of two simple cantilevers to carry the upper floor is dramatic in solving one perennial problem of exhibition stand design, the difficulty of keeping the stand open and clear for exhibits. Another striking feature is the use of wood for the structure as a foil to the metal products of Williams & Williams.



The stand is fundamentally simple. It consists of three basic elements:

- I A thirty foot single laminated timber cantilever which supports the main gangway on the upper floor. (Photograph on upper right.)
- **2** A shorter cross cantilever supporting the office (*photograph on left*).
- **3** A wall of glass of double glazed Aluminex Patent Glazing (photograph on lower right).

The main cantilever is mounted on a pillar and braced at one end by a tension cable. It carries the gangway which is both the upper floor and the access to the office, which projects upwards and outwards on its own cantilever, reached by a

staircase from the 'gangway. Thus the only obstructions on the ground floor are the two cantilever supports and the staircases leading to the upper floor. This accentuates the 'open' feeling of the stand.

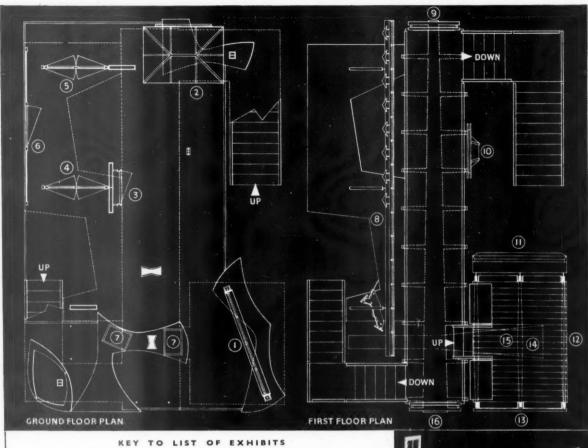
The Aluminex wall forms an effective screen to the back of the stand.

#### **Teleflex Midget Window Gearing**

This midget gearing, a new development of the famous Teleflex gear, is specially designed for light small installations. Although primarily intended for single opening lights, two or more lights can be operated from a single point. On the stand the Midget gearing uses a hand lever on the ground floor to operate a small domestic type window on the upper floor. Gearing of this type operated the Metal Window Association exhibit at the South Bank where it was calculated that it stood up to 1,100 years of normal wear.

#### **Exhibits on the Ground Floor**

Products of the Roften Division of Williams & Williams are the main features of the ground floor. Double action swing doors, as used in the Transport Pavilion on the



- 1. Sliding folding window
- 2. Lantern light
- 'Hong Kong' door
- 'Festival' swing doors 'Hertford' swing doors
- 5.
- Office screen partition
- Photo transparencies

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- 8. Vertical Aluminex screen
  - 9. Casement window in wood surround
  - 10. Casement window controlled by hand operated teleflex
  - 11. Stained glass
  - 12. 'Pimlico' balcony
- 13. Vertical Aluminex with solid panels
  14. Aluminex roof glazing
- 15. Office
- 16. Casement window fly-screened type

South Bank, are admirably set off by plain internal office doors set in a pressed steel door frame. Double action aluminium swing doors, as used in the Hertfordshire schools, are shown as well as steel four leaf sliding and folding school type windows. Another interesting exhibit is an Aluminex Lantern Light glazed with " polished plate glass to provide an interesting display of models of past Building Exhibition stands used by Williams & Williams, which have had such an impact on contemporary architectural thought. On this floor are illuminated photo murals of the Pimlico Tower and the Transport Pavilion: both of which bear evidence of the versatility of the Williams & Williams organization.

#### The First Floor

The first floor is reached by staircases produced in Williams & Williams factories. There are four main exhibits:-

- I Standard steel domestic type window with leaded lights fitted to a standard wooden frame.
- 2 Standard steel domestic type window with a top hung opening vent operated by

gear from the ground floor, housed in a standard steel sub frame surround.

- 3 Standard steel domestic type window fitted with both copper gauze and nylon fly screens and controlled by means of 'Roto' through screen operators fixed at
- 4 Aluminex vertical wall glazing incorporating top continuous hung opening lights, one operated electrically and one manually from the ground floor.

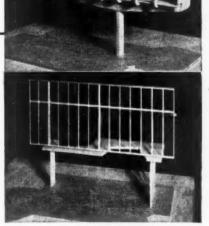
On this floor also there is the stained glass window designed by Kenneth New of the Royal College of Art, and executed by Williams & Williams.

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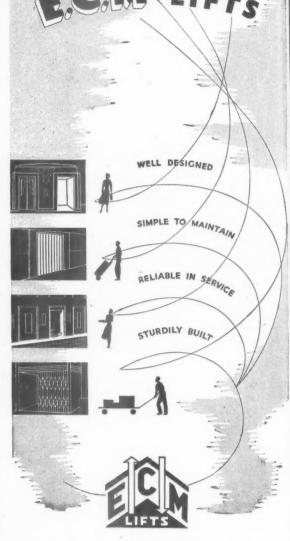
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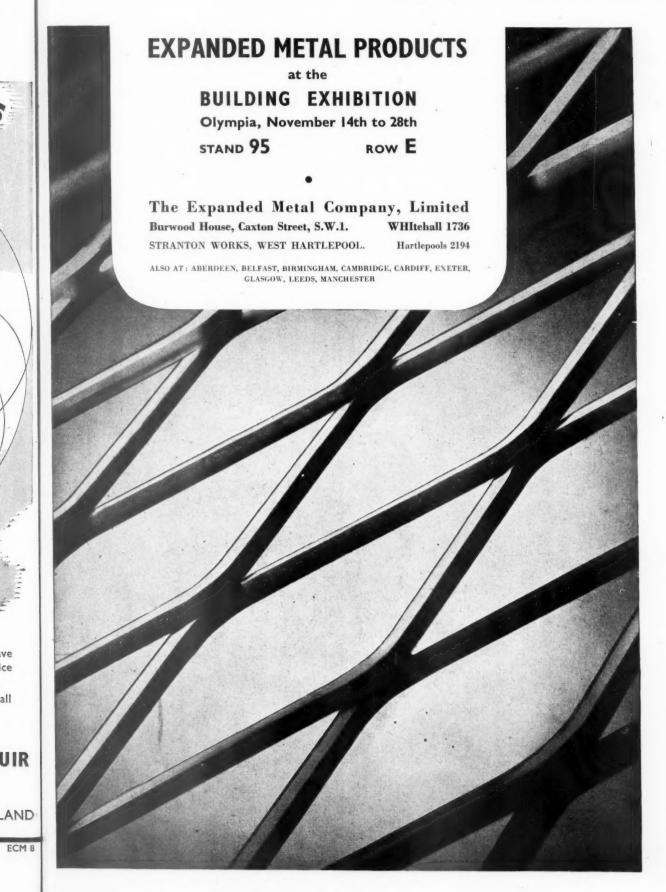
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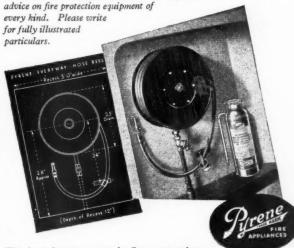
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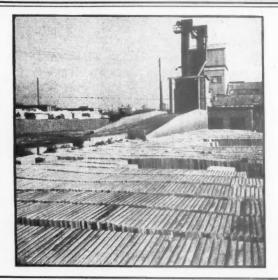
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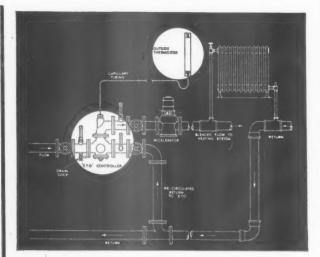


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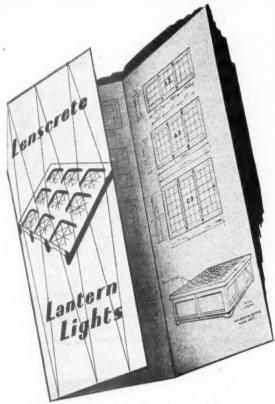
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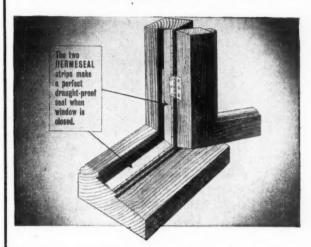
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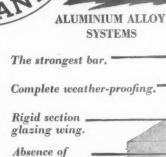
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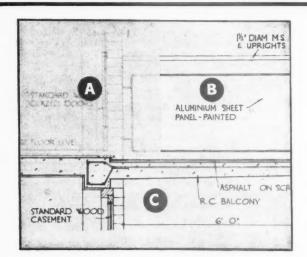
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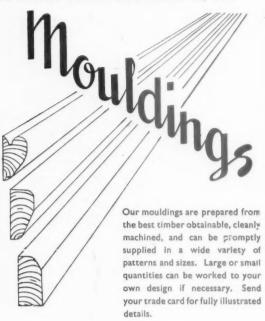
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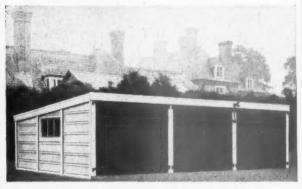
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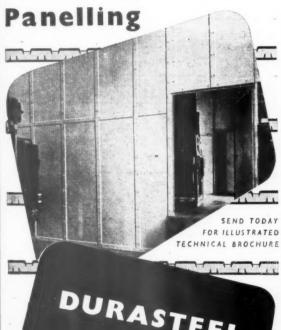
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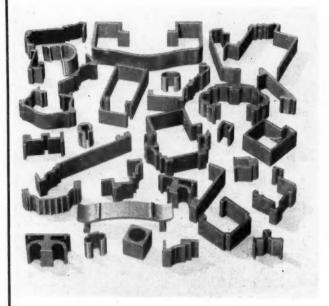
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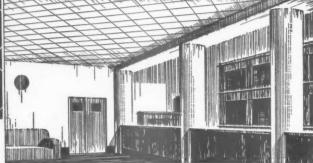
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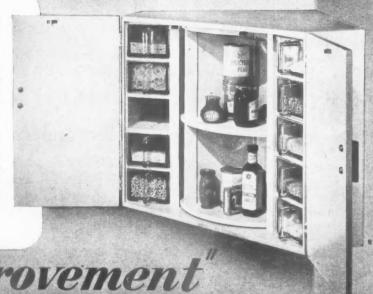
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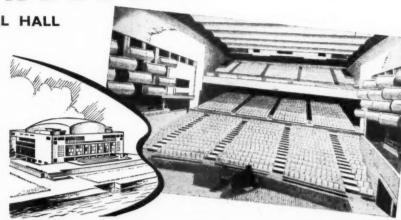
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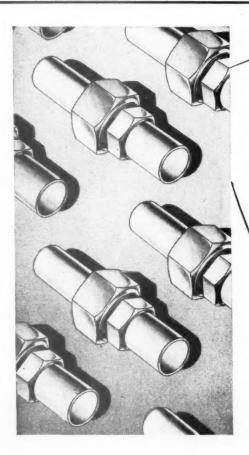
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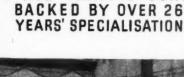
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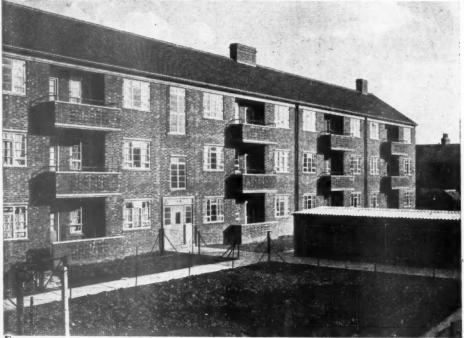


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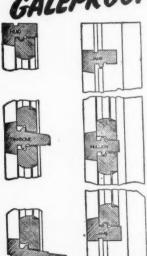


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BALM ROAD, LEEDS

STEEL STOCKHOLDERS, STRUCTURAL ENGINEERS, SHEET METAL ENGINEERS

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Bitumen-laminated Insulation Board

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against cold, damp
and noise

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ADVERTISEMENT CLASSIFIED

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

paper.

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

#### Public and Official Announcements . per inch; each additional line

25s. per inch; each additional line, ....

AIR MINISTRY WORKS DEPARTMENT.
HEATING AND VENTILATING DESIGNER/
DRAUGHTSMEN required in Designs Branch by
Air Ministry Works Department. Applicants
should be capable of designing and detailing low
and high pressure hot water heating installations or have had several years experience in the
design of ventilation and air-conditioning installations. -The appointments will normally be in
London and salaries are on ranges up to £675 per
annum according to age, qualifications and experience. Applications stating age, qualifications,
previous appointments (with dates) should be
sent to the Air Ministry Directorate General of
Works (W.9), Bush House, S.E. Wing, Strand,
London, W.C.2, from which address details may
be obtained.

URBAN DISTRICT OF FELTHAM.

APPOINTMENT OF TECHNICAL ASSISTANT.
Applications are invited for the appointment of Temporary Technical Assistant in the Engineer and Surveyor's Department for work in connection with the Civil Defence Shelter Survey, at a salary in accordance with Grade V of the National Scales, viz., 2570 per annum, rising by two annual increments of £15 and one of £20 to £620 per annum, plus London "weighting."
Preference will be given to applicants holding one of the recognised professional qualifications.
The appointment will be subject to the National Scheme of Conditions of Service, the passing of a medical examination, and to one month's notice in writing on either side.
Forms of application may be obtained from the undersigned, to whom they should be returned, accompanied by copies of two recent testimonials, not later than 23rd November, 1951.
Canvassing, directly or indirectly, will disqualify, and applicants must disclose, in writing, whether to their knowledge they are related to any member of or the holder of any senior office under the Council.

M. W. COUPE,

M. W. COUPE,

Council Offices, Feltham, Middlesex. 4659 Ouncil Offices, Feltham, Middlesex.

ORKNEY COUNTY COUNCIL.
Applications are invited for the post of TECHNICAL ASSISTANT to the County Architect and Planning Officer. Applicants should hold at least the Intermediate Certificate, A.R.I.B.A., and have had experience in an Architect's office. The salary attached to the post, which is subject to the Local Government Superannuation (Scotland) Act, 1937, is 2406-2505 per annum, but it may be varied according to qualifications. Applications together with copies of three testimonials should be lodged with the signed on or before 21st November, 1951.

DOUGLAS M. WOOD.
County Offices, Kirkwall.

County Offices, Kirkwall. 29th October, 1951.

29th October, 1951.

CITY OF COVENTRY.
ARCHITECTURAL AND PLANNING
DEPARTMENT.
Applications are invited for the appointment of a
QUANTITY SURVEYING ASSISTANT on Grade
A.P.T. III (£500×£15—£545 per annum). Preference will be given to applicants holding the
Intermediate R.I.C.S. Certificate.
Trade Union Membership.
The successful applicant will be expected to
belong to an appropriate organisation in accordance with Paragraph 44 of the "Charter"
Applications, on forms to be obtained from the
undersigned, by 3rd December, 1951.
D. E. E. GIBSON,
City Architect and Planning Officer.
Bull Yard, Off Warwick Row,
Coventry.
31st October, 1951.

BURGH OF ALLOA

Coventry.

31st October, 1951.

BURGH OF ALLOA.

APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Senior Assistant Architect, on the staff of the Council's Architect, at a salary of £695-£760, with placing at the minimum of that grade.

Applicants must be Registered Architects. Preference will be given to candidates who are Members of the R.I.B.A., and who have knowledge of Local Authority Housing Design. Experience in quantities is essential.

The post will be suncerannuable, and the successful applicant will be required to pass a medical examination.

A house will be made available if required. Applications, giving age, qualifications and experience, accompanied with the names and addresses of two persons to whom reference may be made, should be sent to Mr. W. H. Gillespie, LR.I.B.A., Burch Architect, Municipal Buildings, Alloa, not later than 23rd November.

WILLIAM MALTMAN.

Town Clerk.

4873

GLOUCESTERSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for the appointment of ARCHITECTURAL ASSISTANT on A.P. and tr. Grade IV (£530-£575), in the above Department. Candidates should have passed the Intermediate Examination of the R.I.B.A. and had general experience in design and construction.

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

ment, will be required to pass a medical examination.

Applications stating (a) name and address, (b) married or single, (c) age, (d) qualifications, (e) present position, salary and date of appointment, (f) previous positions with dates and salaries, (g) particulars of experience, together with names and addresses of two persons to whom reference may be made should be sent to S. E. Utwin, F.B.I.B.A., County Architect, Shire Hall, Gloucester, not later than Wednesday, the 21st November, 1951.

GUY H. DAVIS,

Clerk of the County Council.

Shire Hall, Gloucester.

APPOINTMENT OF CAMBRIDGE.

APPOINTMENT OF CHIEF ASSISTANT

Applications are invited for the appointment of a Chief Assistant Housing Architect in the City Engineer and Surveyor's Office, at a salary in A.F.T., Grade VIII, of the National Scale of Salaries (£755-£810 p.a.).

Applicants must have had good experience in housing design and in the preparation and administration of housing contracts, and the commencing salary within Grade VIII will depend upon the successful candidate's qualifications and experience.

experience.
Should housing accommodation be required the Council will be prepared to consider it.
The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and to a satisfactory medical examination, and will be terminable by one month's notice on either side.
Forms of application may be obtained from the City Engineer and Surveyor, Guildhall, Cambridge, and should be returned to him by the 26th November, 1951.

ALAN H. I. SWIFT.

ALAN H. I. SWIFT, Town Clerk. 4870

The Guildhall, Cambridge.

ARCHITECTURAL ASSISTANTS required for preparation of working drawings for housing schemes (cottages and mult-storey flats) in Housing Architect's division of Housing and Valuation Department. Salaries up to £580 plus 10 per cent. according to qualifications and experience. Superannuable. Apply Director of Housing and Valuer, County Hall, S.E.1, quoting AA/56. Stamped addressed envelope required. (1250)

TIMBER DEVELOPMENT ASSOCIATION, LTD.
Second Advertisement.—Those who have already applied need not do so again as their applications are being considered.
Further applications are invited for the appointment of a SENIOR STRUCTURAL ENGINEER-ING ASSISTANT in the Research and Design Department of the Association. Applicants should be Corporate Members of the Institution of Civil Engineers and/or the Institution of Structural Engineers, who have had at least three years' practical design experience of framed structure. The successful candidate will be engaged upon the advancement of timber structural design technique. Previous design experience in timber is desirable, but not essential. Commencing salary 2650 per annum.

The successful candidate will be required to join the Staff Superannuation Scheme if invited to do so.

Applications stating age qualifications and experience and e

The successful candidate with be statistically the Staff Superannuation Scheme if invited to do so.

Applications, stating age, qualifications and experience, should be addressed to the Director, Timber Development Association, Ltd., 21, College Hill, E.C.4, by the 19th November, 1951.

Hill, E.C.4, by the 19th November, 1951.

THE RURAL DISTRICT COUNCIL OF ELY APPOINTMENT OF TECHNICAL ASSISTANT. Applications are invited for the appointment of Technical Assistant, in the Engineer and Surveyor's Department. at a salary within A.P.T. Grade III (£500-£545), of the National Joint Council Scales.

Applicants must have a wide experience in quantity surveying, and preference will be given to candidates with experience in a Quantity Surveyor's office with a working knowledge of current housing practice, an aptitude for cost analysis and the settlement of final accounts. The Council will offer housing accommodation if required.

The appointment will be subject to the National Scheme of Conditions of Service of the National Scheme of Conditions of Service of the National Joint Council, one month's notice on either side, and to the provisions of the Local Government Superannation Act. 1937.

Applications, stating age, qualifications, details of experience, whether holding the Intermediate certificate of the R.I.C.S., together with the names and addresses of two referees, should reach the nudersigned not later than Monday, the 26th November, 1951.

C. WICKENS, Clerk of the Council

C. WICKENS.

Clerk of the Council.

Ely. Cambs.

2nd November, 1951.

COUNTY BOROUGH OF DERBY.

BOROUGH ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments on the permanent staff, in accordance with the National Scale of Salaries:—
(a) ONE JUNIOR QUANTITY SURVEYOR, Grade III/IV/V. £500-£620. Commencing salary £500 per annum. Applicants should be of R.I.C.S. Intermediate Examination standard, and be fully experienced in abstracting and billing, measuring on site preparation of final accounts, and taking-off quantities for small building works.
(b) ONE JUNIOR QUANTITY SURVEYOR, Grade I/II. £440-£515. Commencing salary £440 per annum. Applicants should have passed the R.I.C.S. First Examination, be not less than 21 years of age, and be experienced in working-upbills of quantities and measuring up on site.
(c) ONE BUILDER'S CLERK (Male). Clerical Division. £445-£490. Commencing salary £445 per annum. Applicants should have a good knowledge of building material prices and wages, and will be required to check claims in respect of increased cost of labour and materials.

The appointments will be subject to one month's notice in writing on either side and to the terms of the National Joint Council's Scheme of Conditions of Service and the provision of the Local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination.

Forms of application may be obtained from the Borough Architect, The Council House, Corporation Street, Derby, and should be returned when completed, together with a copy of one testimonial and the names of two persons to whom reference may be made, to arrive not later than Monday, 26th November, 1951.

Canvassing, directly or indirectly, will be a disqualification.

E. H. NICHOLS, Town Clerk.

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COUNTY BOROUGH OF GATESHEAD.
Applications are invited for the following pointments in the Borough Surveyor's Depart-

ment:—
(a) ONE SENIOR TOWN PLANNING ASSISTANT, Grade VII (£685-£760), who must be qualified by examination in Town Planning, and preference will be given where a recognised qualification in Civil Engineering or Architecture is also
held. Good experience in Town Planning and
Redevelopment Work in built-up areas is

Redevelopment Work in built-up areas in necessary.

(b) TWO TOWN PLANNING ASSISTANTS. Grade VI (£645-£710), who must be qualified by examination in Town Planning, and preference will be given where a recognised qualification in Givil Engineering or Architecture is also held. Experience in Town Planning and Redevelopment Work in built-up areas is necessary.

(c) ONE TOWN PLANNING BASIC SURVEY ASSISTANT, Grade I (£440-£485), who should have some experience in Surveying and Town Planning. The above appointments, which are terminable by one month's notice on either side, are subject to the Local Government Superannuation Acts, and the successful candidates will be required to pass a medical examination.

and the successful candidates will be required to pass a medical examination.

Applications, stating age, qualifications, training, experience, present and past appointments, and accompanied by not more than three recent testimonials, must be sent to Mr. A. J. McGregor, Borough Surveyor, Municipal Buildings, Swinburne Street, Gateshead, 8, by 1st December, 1951. Candidates must declare their relationship, if any, with any member or senior official of the Council.

J. W. PORTER, Town Clerk

Town Hall, Gateshead, 8. 2nd November, 1951.

CITY AND COUNTY OF NEWCASTLE-UPONTYNE.
CITY ARCHITECT'S DEPARTMENT.
Applications are invited from suitably qualified persons for the undermentioned appointments in the Education Section of the Department:—
(a) ONE SENIOR ASSISTANT ARCHITECT.
Salary £790 per annum, rising to £910 per annum (A.P.T., Grade IX).
(b) ONE ASSISTANT ARCHITECT. Salary £570 per annum, rising to £620 per annum (A.P.T., Grade V).
The successful candidate for nost (a) will be

Grade V).

The successful candidate for post (a) will be engaged as the principal Assistant on the design of a large Technical College, and should have had construction of multi-storied buildings.

The successful candidate for post (b) will be required to assist with the general work of the Education Section.

The appointments will be subject to the National Conditions of Service as adopted by the City Council: to the provisions of the Local Government Superannuation Act, 1937, and to one month's notice on either side. The successful candidates will be required to pass a medical examination.

month's notice on entering and indicates will be required to pass a meuro-examination.

Applications, stating position applied for age, particulars of training, qualifications, experience present and past appointments, together with copies of two recent testimonials or the names and addresses of two persons to whom reference may be made, should be addressed to George Kenyon, A.R.I.B.A., A.M.T.P.I., City Architect.

13. Cloth Market, Newcastle-upon-Tyne, 1, not later than the 30th November, 1951.

JOHN ATKINSON.

Town Clerk.

Town Hall, Newcastle-upon-Tyne, 1. 2nd November, 1951.

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COUNCIL OF THE COUNTY OF ABERDEEN.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for appointment as
ARCHITECTURAL ASSISTANT. The salary
scale applicable to the appointment is £735 rising
by annual increments of £25 to £810 per annum.
Applicants must hold the qualification A.R.I.B.A.
and preference will be given to candidates having
experience in the design of educational buildings.
The appointment is subject to the Local
Government Superannuation (Scotland) Act, 1937,
and the successini candidate will require to pass
a medical examination.
Conditions of appointment and forms of application are obtainable from the undersigned and
should be returned completed to him not later
than 26th November, 1951.
THE COUNTY COUNCIL WILL MAKE
HOUSING ACCOMMODATION AVAILABLE TO
THE SUCCESSFUL CANDIDATE WITHIN A
REASONABLE TIME, IF REQUIRED.
Canvassing of members of the Council directly
or indirectly in connection with this appointment shall disqualify the candidate.
CHAS. HORNAL,
County Buildings,
22. Union Terrace, Aberdeen.

County Buildings, 22, Union Terrace, Aberdeen. 1st November, 1951.

NORTH THAMES GAS BOARD.
A SENIOR ARCHITECTURAL ASSISTANT is required in the Architectural Section, Chief Engineer's Department, Westminster.
Applicants, who must be Registered Architects and who should have passed, or be studying for the Final Examination of the R.I.B.A., should be capable of preparing working and detailed drawings and specifications, and supervising and controlling the work on contracts. Experience in design and planning of industrial buildings would be an advantage.

design and planning of industrial buildings would be an advantage.
Starting salary, depending on age and qualifi-cations, will be within the range £650-£800 per annum. The appointment is of a permanent nature and pension arrangements will be dis-cussed with short list candidates, Applications, stating age, qualifications and particulars of previous appointments held, must be submitted to the Staff Controller, North Thames Gas Board, 30, Kensington Church Street, London, W.8, quoting reference 95.

LONDON COUNTY COUNCIL.
ARCHITECT'S DEPARTMENT.
ARCHITECT'S DEPARTMENT.
ARCHITECT'S required for construction programmes, schools, housing and general. Starting salaries up to £638 according to experience.
Applicants should have passed Final R.I.B.A.
Particulars and application forms from Architect.
The County Hall, S.E.I, enclosing s.a.e. quoting AR/EK/A.2.(1266)

Particulars and application forms from Architect. The County Hall, S.E.I., enclosing s.a.e., quoting AR/EK/A.2.(1266)

TARVIN RURAL DISTRICT COUNCIL. ARCHITECTURAL ASSISTANT. Applications are invited for the appointment of Architectural Assistant in the Office of the Engineer and Surveyor.

Applications are invited for the appointment of Architectural Assistant in the Office of the Engineer and Surveyor.

Applications was have had sound training by pupilage and had previous experience in design and construction of building works particularly in relation to housing. Preference will be given to persons qualified by the Intermediate Examination of the R.I.B.A.

The salary will be in accordance with Grade III (Technical Division) of the National Joint Council Scheme, viz., £500×215—2545. A car will be an advantage for which a travelling allowance in accordance with the Whitley Council Scale for 8 h.p. car will be made.

The appointment will be subject to one month's notice in writing on either side, to the provisions of the Local Government Superannuation Act, 1937, and to the selected candidate passing a medical examination.

Applications stating age, qualifications and experience, together with copies of three recent testimonials should be addressed to Mr. Thomas Pritchard, M.I.Mun.E., and enclosed in an envelope endorsed "Architectural Assistant" and should reach this office not later than Saturday 24th November, 1951.

(Signed) J. MOORE DUTTON, Clerk to the Council. Westminster Buildings, Newgate Street, Chester.

Westminster Buildings, Newgate Street, Chester, 5th November, 1951.

LANCASHIRE COUNTY COUNCIL

LANCASHIRE COUNTY COUNCIL

PLANNING ASSISTANT, A.P.T., I.V (£440£520) required at the Liverpool Divisional Planning Office. Salary commensurate with qualifications and experience. Candidates for Grade V
should be qualified by professional examination
as Architects, Surveyors, Engineers or Town
Planners, and for Grades I-IV possess a
University Degree or the Intermediate Certificate
of an appropriate professional body.

Applications, giving the names, addresses and
qualifications of two referees (preferably one
should be present employer), should reach the
County Planning Officer, East Cliff County Offices,
Preston, by 30th November, 1951.

LONDON COUNTY COUNCIL.

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

A selection will shortly be made to fill six new positions in Grade II (2767 10s.-£918) in District Surveyors' service. Candidates should be A.M.I.Struct.E. (or equivalent), A.B.I.C.S., or A.R.I.B.A. (structural knowledge essential). Interesting pensionable career. Closing date for applications 15th December, 1951. Full particulars and application forms from Architect, County Hall. S.E.1, enclosing s.a.e. and quoting AR/EK/DS5. (1290)

COUNTY COUNCIL OF DURHAM.
COUNTY PLANNING DEPARTMENT.
Applications are invited for the following permanent appointments in the County Planning
Department:

Applications are invited for the following permanent appointments in the County Planning Department:

(a) TWO PANNING ASSISTANTS, Grade Va, A.P.T. (2500-£660) for work in connection with Development Control.

(b) TWO PLANNING ASSISTANTS, Grade II, A.P.T. (2470-£515).

(c) TWO PLANNING ASSISTANTS, Grade III, Miscellaneous (£355-£415).

Applicants for:

(a) must have passed the Final Examination of the Town Planning Institute or some other recognised professional institute.

(b) should have had training or experience in town planning work and technique and must at present be undertaking a course of study to lead to an appropriate town planning qualification.

(c) must show aptitude for the work by experience and/or training.

The appointments are subject to such conditions of the National Scheme of Service as have been adopted by the Council; to the provisions of the Local Government Superannaation Act, 1937, and the successful candidates will be required to pass a medical examination by the Council's Medical Officer; to termination by one calendar month's notice in writing on either side. Canvassing either directly or indirectly will disqualify and applicants must disclose in writing whether to their knowledge they are related to any member or senior officer of the Council.

Applications stating age, whether married or single, and giving full particulars of qualifications, experience and present salary, and the names of two persons to whom reference may be made, must be delivered to the County Planning Officer, 10, Church Street, Durham, by 23rd November, 1951.

J. K. HOPE,

Clerk of the County Council.

Shire Hall, Durham. 6th November, 1951.

WARWICKSHIRE COUNTY COUNCIL.
ARCHITECT'S DEPARTMENT.
Applications are invited for the undermentioned appointments on the established

mentioned appointments on the Carachastaff:—
ASSISTANT ARCHITECTS. A.P.T., V (£570-£520); A.P.T., III (£500-£545).

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

Application forms can be obtained from C. H. Elkins, F.R.I.B.A., A.R.I.C.S., County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS.

Clerk of the Council.

Shire Hall, Warwick.

4910

NORTHUMBERLAND COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
Applications are invited from persons with, suitable qualifications for the appointment of PLANNING ASSISTANT at a salary according to qualifications and experience within Grades A.P.T. I to IV of the National Joint Council's scale of salaries. Candidates for the appointment should have had either academic training or experience in the office of a Local Planning Authority.
The appointment (which is a whole-time one at offices in Newcastle-upon-Tyne) will be gubject to the National Scheme of Conditions of Service, to the provisions of the Local Government Superannuation Act, 1937, and to one month's notice on either side, and the successful candidate will be required to pass a medical examination to the Council's satisfaction.
Applications, on forms to be obtained from the undersigned, must be submitted not later than the 15th December, 1951.

E. P. HARVEY.
Clerk of the County Council.
Newcastle-upon-Tyne, 1.

County Hall, Newcastle-upon-Tyne, 1. 8th November, 1951.

AST November, 1951.

LONDON COUNTY COUNCIL.
ARCHITECT'S DEPARTMENT.
PRINCIPAL ASSISTANT (professional) (£1,047 to £1,97) to assist in organising and leading a large division engaged upon adaptation, improvement, maintenance and repair of buildings and surveying property for acquisition.

Experience of large-scale building maintenance organisations desirable. Drive and organising ability essential.

Further particulars and application form (returnable by 8th December) from Architect. County Hall, S.E.L, enclosing s.a.e., quoting AR/EK/M4(1299).

COUNTY BOROUGH OF SOUTHAMPTON.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.
Applications are invited for the following

Applications are invited for the following appointment:—
ARCHITECTURAL ASSISTANT. Grade A.P.T., IV (£530-£675 per annum).
Applicants should have had experience of Local Authority Housing, and preference will be given to Associate Members of the Royal Institute of British Architects.
The appointment will be subject to the Scheme of Conditions of Service of the National Joint Council for Local Authorities for Administrative, Technical, Professional and Clerical Services; to the Local Government Superannuation Act, 1937; to the successful applicant passing a medical ex-

amination, and to termination on either side by one month's notice.

Applications, stating age, experjence, qualifications and war service (if any), together with copies of three recent testimonials, should be submitted to the Borough Engineer and Surveyor, Civic Centre, Southampton, not later than Wednesday, 28th November, 1951.

R. RONALD H. MEGGESON,
Town Clerk.

Civic Centre, Southampton.

## Architectural Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s.

Architectural Appointments Vacant

tines or under, 7s. 6d.; each additional line, 2s.

A SSISTANTS required in Architect's Department of large East Midiand industrial concern for varied and interesting work in connection with extensive works development programme. Applicants should nave initiative in designing and be capable of preparing 1ull working drawings from Architect's sketch plans. Junior and Schiof Assistants are required, and applicants should reply, giving details of age, experience and salary required, to Box 4657.

A SSISTANT ARCHITECTS.—Imperial Chemical Industries Limited, General Chemicals Division, require one or two Assistant Architects in the Architectural Section of their Chief Engineer's Department, Kuncorn. Applicants should have had good experience in design and the preparation of working drawings. Other factors being equal, preference will be given to those who have passed the Final Examination of the R.I.B.A. Salary dependent on age and experience. Membership of pension fund. Apply in writing, quoting E/81, to Staff Manager, Imperial Chemicals Division, Cunard Building, Liverpool, 3. 4678

A RCHITECTURAL ASSISTANT, with experience, required, age between 23-55, to fill vacancy in Leeds. Permanent pensionable position available for selected applicant, subject to preliminary trial and satisfactory qualifications. Scope and responsibility available to capable man on alteration works over a wide area in the North of England. Apply in handwriting, with full particulars of age, education, training and experience. Box 4891.

A SSISTANTS required in Architects' and Surveyors' Section of large Brewery in London. Applicants should be neat and accurate draughtsmen, able to carry out surveys of existing buildings and layout of plant. Reply, stating age, experience, past and present appointments, and salary required.

A RCHITECTURAL DRAUGHTSMAN required by large industrial company in the Manchester area. Applicant must be between 25 and 35 years of age, and be conversant with modern industrial design and detailed construction. Good conditions, pension fund. Applications to The Clayton Aniline Co., Ltd., Clayton, Manchester, 11.

Clayton Aniline Co., Ltd., Clayton, Manchester, 11.

WEST END Firm of Architects seek a JUNIOR. Minimum qualification: age, education and salary required, quoting reference, if available, to Box 4898, or telephone WELDEK 8962, ext. 3.

WELL-KNOWN Firm of Land Agents, with practice in Eastern Counties, require a STAFF ARCHITECT for Rural Housing, Farm Buildings, etc. Age 25-35. Salary according to age and experience. Reply Box 4900.

SIR JOHN BURNET, TAIT & PARTNERS require thoroughly experienced ASSISTANTS with ability for contemporary design. Salary by arrangement. 10, Bedford Square, 4902.

TEXPERIENCED ASSISTANT required by

EXPERIENCED ASSISTANT required by West End Firm of Architects. Telephone REGent 7462.

ASSISTANT required and assistant required by West End Firm of Architects. Telephone REGent 7462.

Senior Assistant required in Architect's Department of large Multiple Firm. Experience in surveys and shopfitting an advantage. Permanent post, and pension scheme available; 5-day week. Write, stating age, experience, and salary required, to Box 4904.

EXPERIENCED ARCHITECTURAL ASSISTANT required, age about 30 years. Salary and terms on application. Reply Box 4905.

ASSISTANT required urgently in Brighton/Sistant required to Box 4908.

EXPERIENCED and preferably qualified salary required to Box 4908.

EXPERIENCED and preferably qualified assist other commitments. Must be accurate surveyor and neat draughtsman. Full details to Box 4909.

ARCHITECTURAL ASSISTANT required. Applicant must have good all-round experience in all forms of contemporary construction and design. Reply, giving full particulars of experience and qualifications and salary required. UNIOR position also open for male or female. H. W. Shipley & Partner, Architects, Kingscourt Buildings, Bridge Street, Walsall.

CLIFFORD TEE & GALE, 5, Buckingham required for industrial work. Must be good draughtsman, with knowledge of construction, and with not less than 3 years' experience. 4920-

EXPERIENCED ASSISTANT required. Capable of undertaking supervision and preparing drawings and details: Sound knowledge of construction and specifications essential. Reply, stating salary and full particulars of previous office, experience, to:—Crickmay & Sons, F./F.R.I.B.A., 88, St. Thomas Street, Weymouth, Dorset

Porset.

Required in Architects' Department of SENIOR ASSISTANT (Male). Must be used to dealing with Contractors, Local Authority, and with jobs to final account. Permanent post with pension scheme for suitable man. Salary starting at £750, or possibly higher, subject to experience and qualifications. Apply Box 4914.

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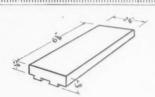
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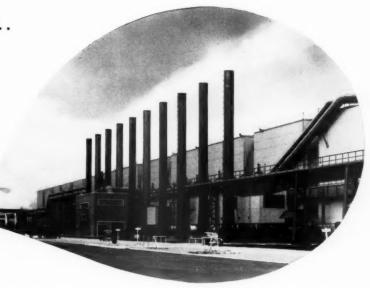
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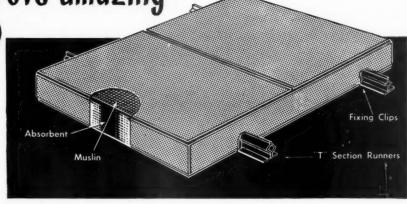
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