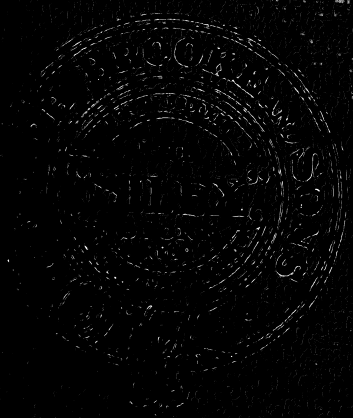




To .....

.....

With

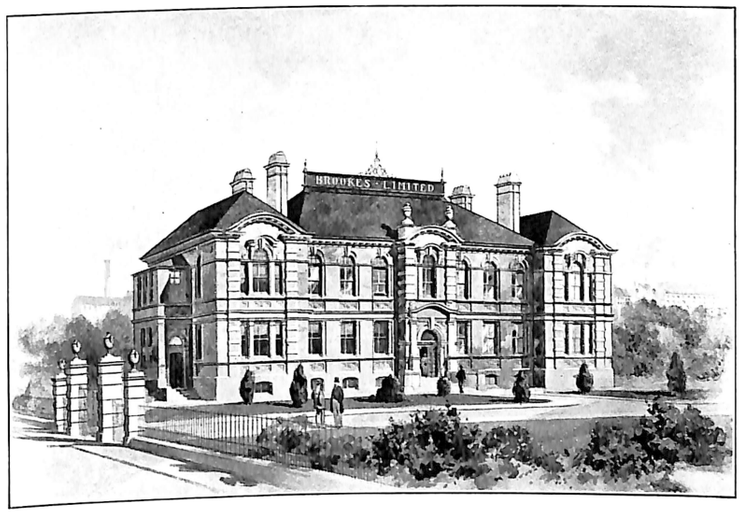
Joseph Brooke & Sons'

Compliments.

Joseph Brooke & Sons

Head Offices: HIPPERHOLME, HALIFAX.

Telephone No. 10, Lightcliffe. Telegrams: "Brookes, Halifax."



Head Offices.

LONDON:

Offices—16, Great George Street, Westminster.

Telephones Nos. 222 & 223, Westminster. Telegrams: "Pitchstone, London."

Depôt—22, Somers Town Station (M. Rly.),
Euston Road, N.W.

Telephone No. 749, North.

MANCHESTER - - 8, Exchange Street.

Telephone No. 5805, Central. Telegrams: "Nonslip, Manchester."



THE

"SILEX"

STONE.

For Steps, Landings, Pavings, &c.

ITS VIRTUES.

CRUSHING STRAIN:
17,106 lbs. per cubic inch.
2,200 tons per cubic foot.

ABSORPTION:
1·02 per cent.

CHEMICAL ANALYSIS:

Silica - - - - - - -	97·83
Alumina, or Oxide of Iron - -	1·17
Lime - - - - - - -	1·00
	100·00

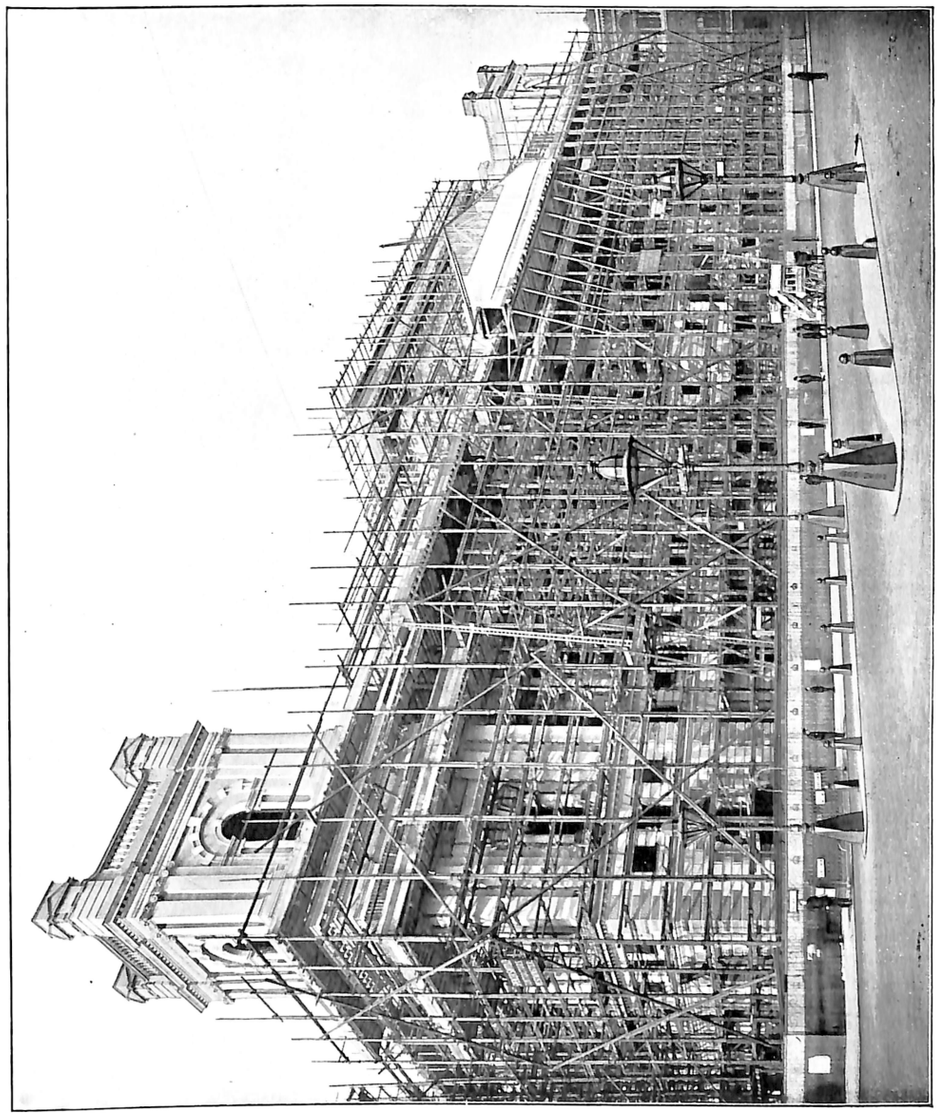
DURABLE. NON-SLIPPERY. RELIABLE.
PERFECT FOOTWAY PAVING.

Unrivalled for Steps and Landings.

QUALITY GUARANTEED.

THE HIGHEST FORM OF STONE KNOWN.

THE "SILEX" STONE.



NEW PUBLIC OFFICES FOR LOCAL GOVERNMENT BOARD, ETC., IN COURSE OF CONSTRUCTION.

FROM THE DESIGNS OF THE LATE WM. BRYDON, ESQ.

Architect for Erection: SIR HENRY TANNER.

Contractors: MESSRS. SPENCER, SANTO & CO., WESTMINSTER.

"SILEX" STEPS, LANDINGS, ETC. SUPPLIED THROUGHOUT.



To ARCHITECTS,
SURVEYORS and
ENGINEERS.

To meet the many complaints of professional gentlemen that the usual specification of "Hard York Stone" does not adequately describe the particular quality of stone they desire to obtain, there being so many varieties of York stone included under the heading "hard," none of which came up to the standard of hardness and durability so essential in staircases and paving, we adopted the name "Silex" many years ago, as a distinguishing term, by specifying which architects and surveyors might know they were obtaining the very best stone for their purpose.

The "Silex" Stone is a durable, reliable, non-slippery stone, especially suitable for Steps, Landings and Pavings, and of such a nature as to be susceptible of a very fine finish, and, when fixed, of a handsome appearance, qualities always sought for but never obtained in any "Hard York" except the "Silex" Stone.

The "Silex" Stone is obtained from the very lowest beds of stone at Pearson Brow, Hipperholme, near Halifax. The seams lie about 80 feet below the surface, and belong to a lower formation than the ordinary strata of Hard York stone. This is proved by their extraordinary solidity, an idea of which may be gained by the fact that a test at Kirkcaldys of samples taken from the "Silex"

seam gives the crushing strain at 17,106 lbs. per square inch, or 2,200 tons per cubic foot, and absorption as 1·02 per cent.

To reduce to a minimum cost the working of such a material, and to enable us to put it on the market at a reasonable price, we have availed ourselves of the most recent inventions in stone working machinery in all the various operations of quarrying, hoisting, polishing, etc., so far as machinery is adapted or capable of yielding the best results.

To those unfamiliar with quarrying operations the following particulars of working will be of interest :—

There are two methods of working the seams—open cutting and mining—the first being most generally adopted. The whole superincumbent mass of loam, shale and stone is removed, until the "Silex" seam of stone is laid bare—80 to 90 feet below the surface.

In mining, a shaft is sunk to the required depth, and headings being driven from thence in different directions, the stone is brought on trolleys to the bottom of the shaft and hoisted to the surface.

The much admired polish on "Silex" Stone is due to the great density and extraordinary hardness of the stone, and is obtained by rubbing by means of Polishing



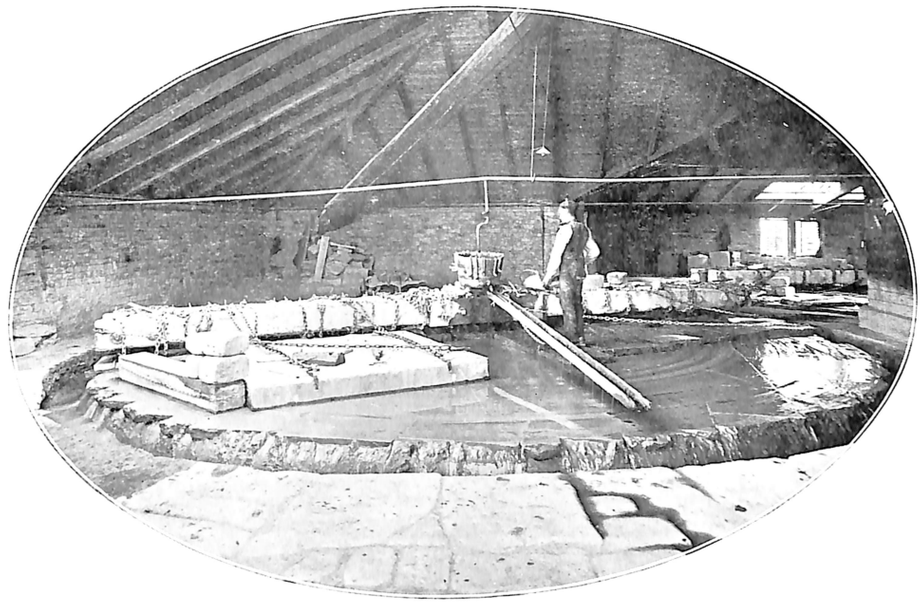
THE "SILEX" STONE.

Mills, each about 30 feet in diameter. A number of stones to surface are laid face upward on the bed, and upon these other stones are laid face downward, and the latter being secured to a revolving arm, the revolutions are continued with an abundant supply of grit and water until the desired result is obtained. A number of these mills are in operation, sufficient to ensure the largest orders being promptly executed, and we are in a position to supply expeditiously any quantity of worked stone.

On the following pages we show illustrations of a few of the important Government and Public Buildings erected recently, in which "Silex" Stone has been adopted for the staircases, &c., throughout. After tests extending over many years, it has been conclusively proved that "Silex" Stone has no equal as regards durability, wearing properties, beautiful appearance, and the absolute non-slippery surface it always presents. From practical experience it has been demonstrated that "Silex" Steps and Landings used in Public Offices, Post Offices, &c., where the traffic is of the heaviest nature, shew less than $^{1}/_{16}$th of an inch wear in 12 years' time. Facts such as this will appeal directly to all Architects who are desirous of obtaining the very best work, and who are anxious to prevent the unsightly defects of steps worn hollow and patched or veneered to present a level tread.

THE "SILEX" STONE.

Photograph of one of the Polishing Mills in work. Several of these Mills are continuously turning out Polished Steps, Landings, Flags, &c.

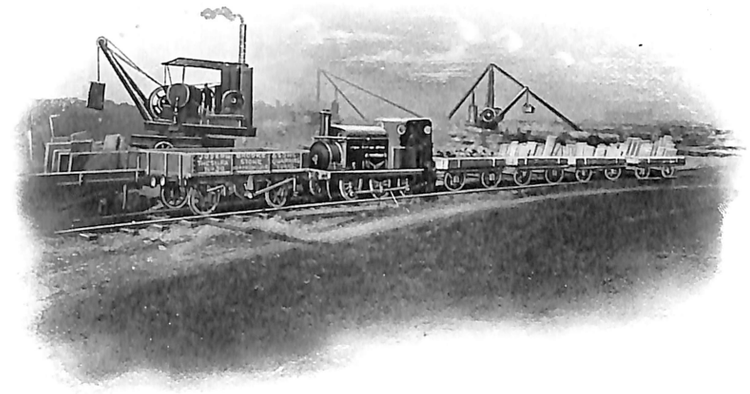


The stones to be polished are laid face upward on the bed of the mill ; on these, with the faces down, are laid other stones which are attached to cross-beams by means of chains. These are set in revolution and continue to revolve until the required polish is obtained by means of a supply of grit and water.

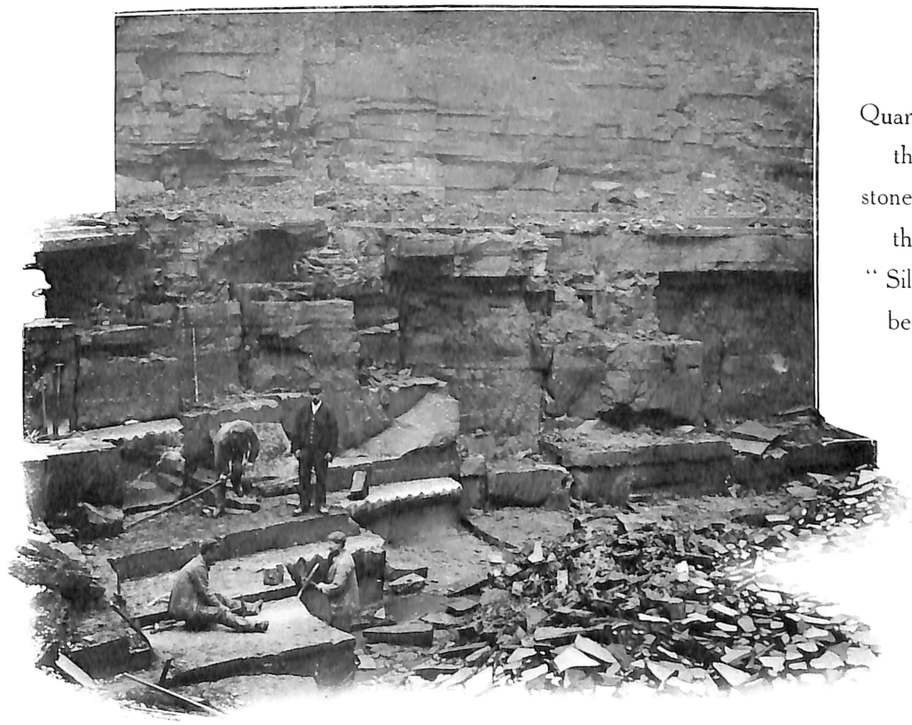
JOSEPH BROOKE AND SONS
THE "SILEX" STONE REG.

THE "SILEX" STONE.

Photographs shewing the "Silex" Stone being quarried from the lowest beds at Pearson's Brow, Hipperholme, 90 feet below surface; also stones being raised and loaded into trucks for conveyance to Polishing Mills.



Raising the stones to surface. The "Silex" bed is 90 feet below ground level.



Quarrying the stone on the "Silex" bed.



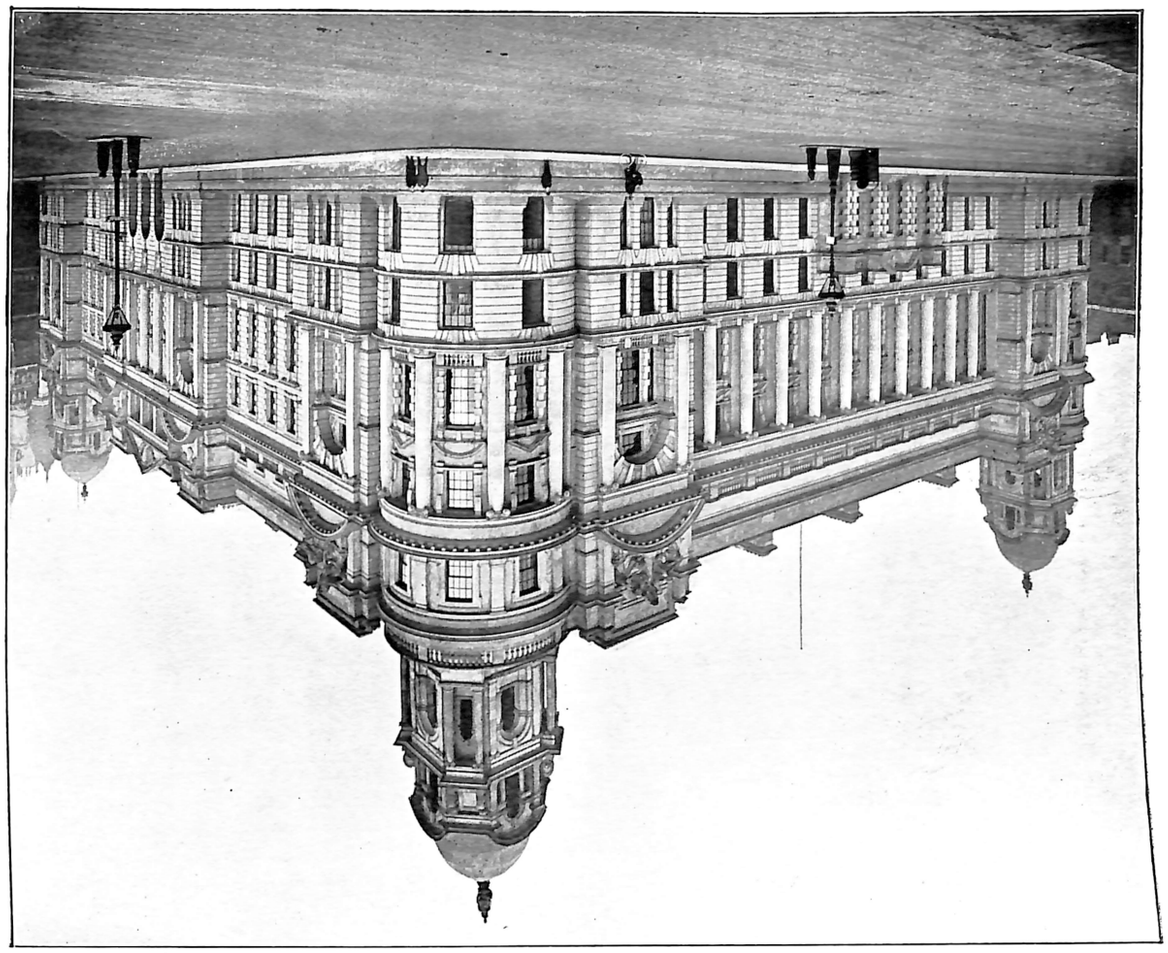
THE "SILEX" STONE.

The following is a list of some of the buildings in which "Silex" Stone has been used for Staircase and other work. The fact of its having been selected after exhaustive tests and trials, for use in the important buildings mentioned, is a sufficient proof of the justice of the claims made on its behalf.

LONDON :

ADMIRALTY BUILDINGS—4 blocks.
NATIONAL PORTRAIT GALLERY.
POST OFFICE SAVINGS BANK, KENSINGTON.
MOUNT PLEASANT PARCELS POST OFFICE.
PATENT OFFICES.
TOOTING BEC ASYLUM.
UNIVERSITY COLLEGE HOSPITAL.
NEW WAR OFFICE.
NEW PUBLIC OFFICES, LOCAL GOVERNMENT BOARD.
ROYAL COLLEGE OF SCIENCE.
VICTORIA AND ALBERT MUSEUM.
BRITISH MUSEUM EXTENSIONS.
PADDINGTON WORKHOUSE RECEIVING WARDS.
CO-OPERATIVE WHOLESALE SOCIETY, LEMAN STREET BUILDINGS.
POST OFFICE, CARTER LANE, E.C.
" EDMONTON, N.
" VICTORIA DOCKS, E.
" WEST G.P.O.
" HYDE STREET.
" MORTLAKE.
" EAST FINCHLEY.
" CROYDON.
" G.P.O., SOUTH.
" EALING.
" HAMMERSMITH.
ARTISANS' DWELLINGS, KING'S CROSS.
EDMONTON UNION.
N.E. HOSPITAL, TOTTENHAM.
No. 9, PALL MALL, W.

THE "SILEX" STONE.



NEW WAR OFFICE, WHITEHALL, LONDON, S.W.

FROM THE DESIGNS OF THE LATE WM. YOUNG, ESQ.

Architects for Erection: CLYDE YOUNG, ESQ.
SIR JOHN TAYLOR.

Contractors: MESSRS. FOSTER & DICKSEE, RUGBY AND LONDON.

"SILEX" STEPS, LANDINGS, ETC., SUPPLIED THROUGHOUT.

THE "SILEX" STONE.

List of Buildings in which "Silex" Stone has been used—
continued.

LONDON :

ROMAN CATHOLIC SCHOOLS, RYLETT ROAD, SHEPHERD'S BUSH.
PUBLIC HALL, GREENWICH.
POPLAR HOSPITAL.
POPLAR UNION.
ST. FRIDEWIDE'S MISSION HOUSE, POPLAR.
ST. MARY LE STRAND PARISH HALL, DRURY LANE.
NÔTRE DAME CONVENT, BATTERSEA.
POPLAR FREE LIBRARY.
ROMAN CATHOLIC SCHOOLS, STREATHAM.
NATIONAL DENTAL HOSPITAL.
BOARD SCHOOL, GAYHURST ROAD.
" HUGH MYDDLETON.
" CLEVELAND ROAD, ILFORD.
NEW CHURCH, CHEYNE ROW, CHELSEA.
UNDERGROUND CONVENIENCE, MARBLE ARCH.
" CHARING CROSS.
" EAST HILL, WANDSWORTH.
" FALCON LANE, BATTERSEA.
" LOUDOUN ROAD STATION.
" TOTTENHAM COURT ROAD.
" FINCHLEY ROAD.
" KENNINGTON CROSS.
" ST. GEORGE'S CIRCUS.
" NEWINGTON BUTTS.
" BENFIELD ROAD, LAMBETH.
" ARTICHOKE PLACE, CAMBERWELL.
" OLD KENT ROAD, S.E.
" SUTTON ST., COMMERCIAL RD., E.
NURSES' HOME, LANGHAM STREET, W.
WAREHOUSE, MANCHESTER SQUARE.
" LOMBARD STREET.
NEW BISCUIT WORKS, WILLESDEN.
RAILWAY CLEARING HOUSE, EUSTON.
NEW BUILDINGS, NOS. 5, 6 AND 7, SOUTHAMPTON STREET, STRAND.
HAMMERSMITH NEW BATHS AND WASH-HOUSES.
ETC., ETC., ETC.

JOSEPH BROOKE AND SONS
THE "SILEX" STONE
1850

THE "SILEX" STONE.

ROYAL COLLEGE OF SCIENCE, SOUTH KENSINGTON.



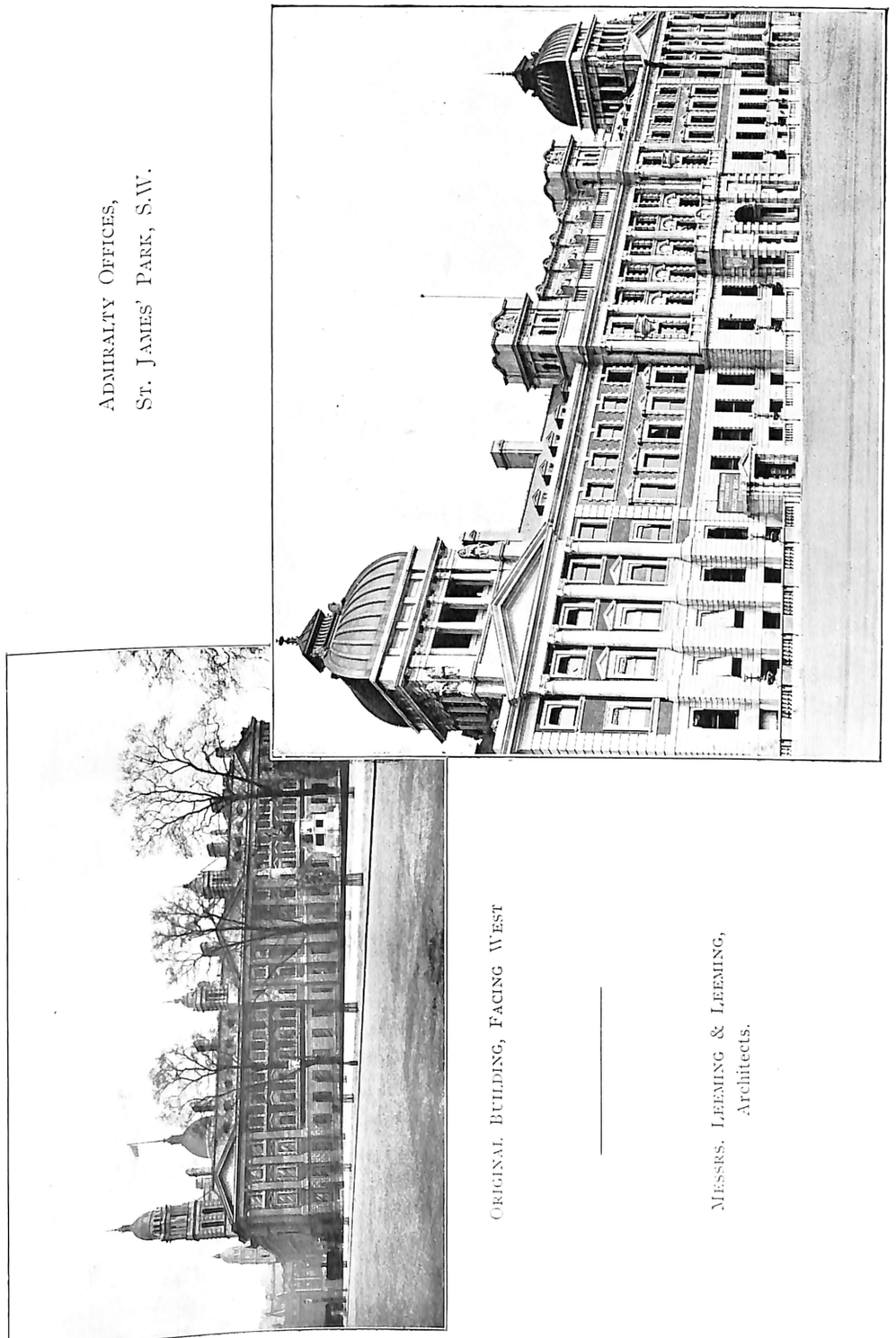
Architect: SIR ASTON WEBB.

Contractors: MESSRS. LESLIE & CO., LTD.

"SILEX" STEPS, LANDINGS, ETC., THROUGHOUT.

JOSEPH BROOKE AND SONS
THE "SILEX" STONE
REG.

THE "SILEX" STONE.



ADMIRALTY OFFICES,
ST. JAMES' PARK, S.W.

LATEST EXTENSION, FACING SOUTH.

ORIGINAL BUILDING, FACING WEST

MESSRS. LEEMING & LEEMING,
Architects.

"SILEX" STEPS, LANDINGS, ETC., SUPPLIED THROUGHOUT.

THE "SILEX" STONE.

List of Buildings in which "Silex" Stone has been used—
continued.

COUNTRY :

ALDERSHOT	NEW POST OFFICE.
BATLEY	TECHNICAL SCHOOLS.
BLACKBURN	TURKISH BATHS.
,,	TECHNICAL SCHOOLS.
,,	NORTHERN DAILY TELEGRAPH OFFICE.
BIRMINGHAM	NEW G.P.O.
BOLTON	TURKISH BATHS.
BURLEY-IN-WHARFEDALE	SCALEBOR PARK RETREAT.
BURNLEY	MECHANICS' INSTITUTE.
,,	WORKHOUSE INFIRMARY.
,,	BULL HOTEL.
BRADFORD	INLAND REVENUE OFFICES.
BOOTLE	POST OFFICE.
BLACKBURN	QUEEN VICTORIA MONUMENT.
BRIGHTON	TENNIS COURTS.
COLWYN BAY	MR. GAMBLE'S RESIDENCE.
COLCHESTER	NEW POST OFFICE.
CARDIFF	NEW CUSTOMS HOUSE.
CARK-IN-CARTMEL	CHURCH.
CARLISLE	POST OFFICE EXTENSIONS.
DEWSBURY	PUBLIC BATHS.
,,	TECHNICAL SCHOOLS.
,,	JUBILEE SCHOOLS.
,,	UNION INFIRMARY.
,,	PUBLIC OFFICES.
,,	WHEELWRIGHTS' GRAMMAR SCHOOL.
,,	GUARDIAN OFFICES.
,,	CO-OPERATIVE HOUSES, MALKROYD LANE.
,,	STATION ROAD POST OFFICE.
DERBY	FREE LIBRARY.
,,	NEW POST OFFICE.
DOVER	NEW POST OFFICE.
DOUGLAS, I.O.M.	NEW POST OFFICE.
GATESHEAD	MARKET ARCADES.
HALIFAX	LANCASHIRE & YORKSHIRE BANK
,,	

JOSEPH BROOKE AND SONS
THE "SILEX" STONE REG.

THE "SILEX" STONE.

LIVERPOOL GENERAL POST OFFICE.

GENERAL VIEW





MAIN ENTRANCE.

"SILEX" STEPS, LANDINGS, ETC., THROUGHOUT.

THE "SILEX" STONE.

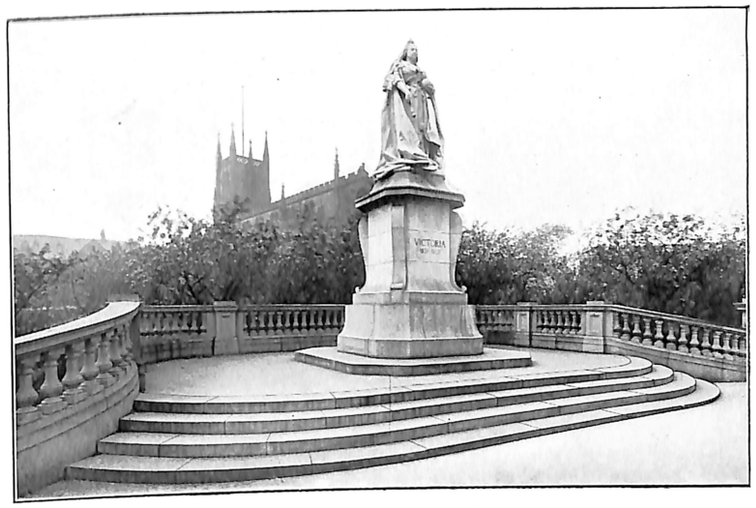
List of Buildings in which "Silex" Stone has been used—
continued.

COUNTRY:

HALIFAX	WOODSIDE BATHS.
,,	TECHNICAL SCHOOLS.
HUDDERSFIELD	STORTHES HALL ASYLUM.
HASTINGS	NEW GENERAL POST OFFICE.
HARROGATE	POST OFFICE.
HANLEY	PHŒNIX WATER OFFICES.
,,	CORPORATION ELECTRIC SWITCH HOUSE
HEYWOOD	POST OFFICE.
ISLE OF RUM	KINLOCH CASTLE.
LANCASTER	CO-OPERATIVE STORES.
,,	POST OFFICE.
,,	NEW HOSPITAL.
LIVERPOOL	NEW GENERAL POST OFFICE.
,,	COPPERAS HILL CHURCH.
LOWESTOFT	POST OFFICE.
LEEK	NEW TOWN HALL ENTRANCE.
,,	CONSERVATORIES.
LEEDS	NEW MARKETS.
,,	NEW GENERAL POST OFFICE.
LEICESTER	CO-OPERATIVE BOOT AND SHOE FACTORY.
MANCHESTER	CO-OPERATIVE WHOLESALE SOCIETY.
,,	CO-OPERATIVE WHOLESALE SOCIETY, BALLOON STREET.
,,	CO-OPERATIVE WHOLESALE SOCIETY, HANOVER STREET.
,,	CO-OPERATIVE WHOLESALE SOCIETY, CORPORATION STREET.
,,	CO-OPERATIVE WHOLESALE SOCIETY, LONGSIGHT.
,,	NEW TELEGRAPH STORES.
,,	S.E. SORTING OFFICE.
,,	S.W. DISTRICT POST OFFICE.
NELSON	TOWN HALL.
,,	STATION HOTEL.
NOTTINGHAM	CORPORATION ENGINE ROOM.
,,	GENERAL POST OFFICE.
,,	CONSTITUTIONAL CLUB.

JOSEPH BROOKE AND SONS
THE "SILEX" STONE REGD.

THE "SILEX" STONE.



QUEEN VICTORIA MEMORIAL, BLACKBURN.



SOLDIERS' MEMORIAL, WARRINGTON.

"SILEX" STONE STEPS, FLAGS, ETC.

THE "SILEX" STONE.

List of Buildings in which "Silex" Stone has been used—
continued.

COUNTRY :

NEWMARKET	NEW G.P.O.
OLDHAM	HILTON ARCADES
,,	INLAND REVENUE OFFICES AND COUNTY COURT.
,,	WATERLOO BOARD SCHOOLS (No. 2).
,,	BEEVER STREET BOARD SCHOOLS.
,,	CHAPEL ROAD STORE.
,,	CROMPTON LOCAL BOARD OFFICES.
OXENHOLME	CHURCH.
PRESTON	ST. WILFRED'S R.C. CHURCH.
,,	ST. AUGUSTINE'S CHURCH.
,,	GENERAL POST OFFICE.
,,	COUNTY COURT OFFICES.
PETERBOROUGH	POST OFFICE.
RETFORD	BOOKING HALL.
ROCHDALE	STANDARD SPINNING CO.'S ENGINE HOUSE.
RUGBY	UNION WORKHOUSE NEW INFIRMARY.
RIPLEY	C.W.S. STORES.
SHAW	CROMPTON HALL.
SHEFFIELD	POST OFFICE.
SOUTHAMPTON	POST OFFICE.
ST. ANNE'S-ON-SEA	RESIDENTIAL VILLAS, SOUTH PROMENADE.
STAMFORD	POST OFFICE.
SOUTHEND-ON-SEA	POST OFFICE.
SUNDERLAND	GENERAL POST OFFICE.
SWANSEA	GENERAL POST OFFICE.
TODMORDEN	FIELDEN'S MONUMENT.
WARRINGTON	COUNTY COURT.
WHITBY	NEW POST OFFICE.
WEST HARTLEPOOL	NEW POST OFFICE.
WIGAN	COUNTY COURT AND INLAND REVENUE OFFICES.
WEEDON	TELEGRAPH STORES.
WOKING	POST OFFICE.
WHALLEY	PARISH CHURCH
WIDNES	ALKALI WORKS.



THE "SILEX" STONE.

For Footway Paving "Silex" Stone is unrivalled.

In reports of borough and other surveyors we find York stone disparagingly mentioned, it being said that such pavements wear unevenly—and such a result is not surprising when we remember that stones procured from various districts miles apart, and from seams utterly unlike in nature, formation, and hardness, are laid side by side. Unevenness in wear is the natural result of this, and it is not the material, but injudicious selection that is to blame; and, as we have before mentioned, the difficulty of clearly specifying the quality of stone desired has been a great obstacle to obtaining York Paving Stone of a fine even texture and quality.

This obstacle we have removed by putting on the market a specific quality of even textured stone under a distinguishing brand.

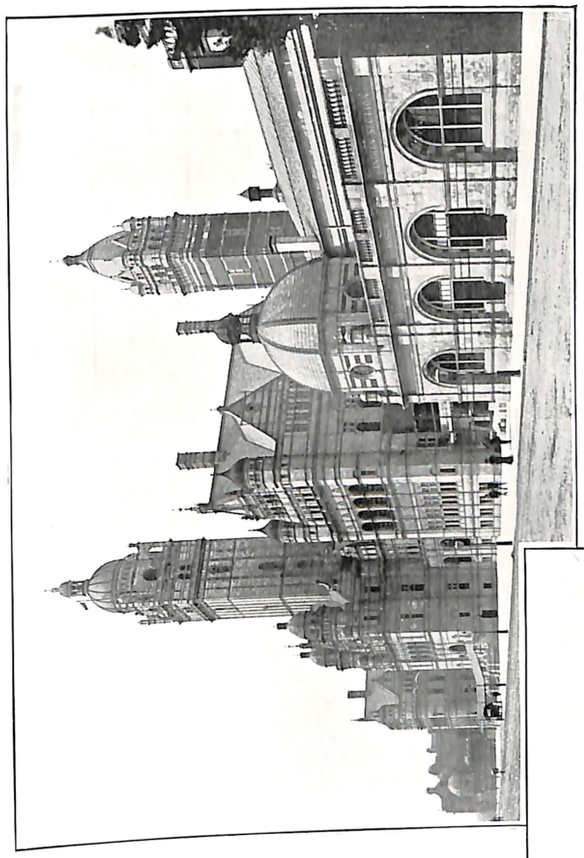
Every flag of "Silex" Stone is guaranteed to be of uniform and equal hardness and durability.

There is no doubt that York stone properly selected, squared, and laid, is—for comfort to the pedestrian, and durability, as well as for appearance—the best Footway Paving in the world. We are all familiar with the fatiguing experience of walking upon various kinds of slippery stone footways, and we are aware of a sense of relief when we pass from them to the sure grip and foothold of York Stone.

Footway Pavements, particularly in large towns, are frequently disturbed for the purpose of making the necessary alterations, repairs, and connections for drains, gas, water, electric light, etc., and "Silex" Stone can be taken up and relaid free from all risk of damage to the stone, whereas in the case of other pavements, either unsightly patches or cracked and disfigured flags is the result.

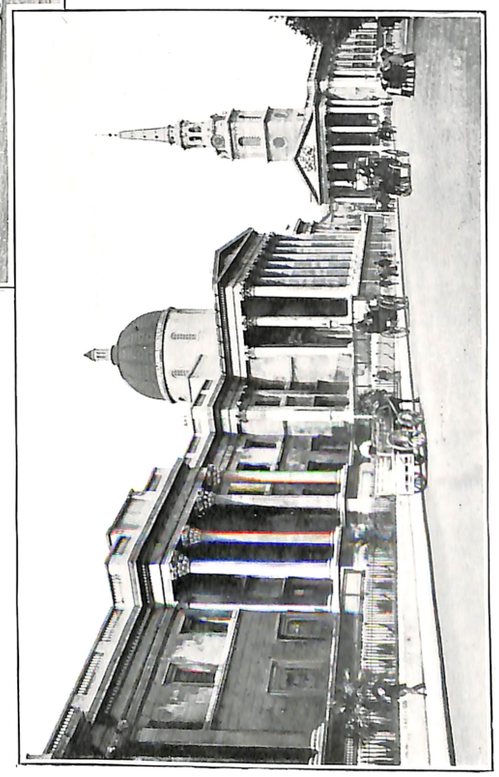
JOSEPH BROOKE AND SONS
THE "SILEX" STONE REGD.

THE "SILEX" STONE.



IMPERIAL INSTITUTE, LONDON, W.

"SILEX" PAVING.



NATIONAL GALLERY.

"SILEX" PAVEMENT.

FOR PAVING, ETC.

THE "SILEX" STONE.

"Silex" Stone has been used for paving purposes in all the principal towns in the country; amongst many others, the following streets or districts are a few where it is in use.

LONDON.

LONDON COUNTY COUNCIL.—Strand to Holborn Improvement
" " Kingsway and Aldwych.
LAMBETH.—ALL principal thoroughfares.
LONDON COUNTY COUNCIL.—Blackwall Lane to Woolwich.
ISLE OF DOGS.—The Swing Bridge.
" City Arms Bridge.
" Manchester Road Bridge.
WESTMINSTER.—Roman Catholic Cathedral.
" In Whitehall and other streets.
WANDSWORTH.—Many of the principal thoroughfares.
HAMPSTEAD.—Council Works.
LONDON COUNTY COUNCIL.—Blackwall Tunnel.
POPLAR.—Council Improvements,
Etc., etc.

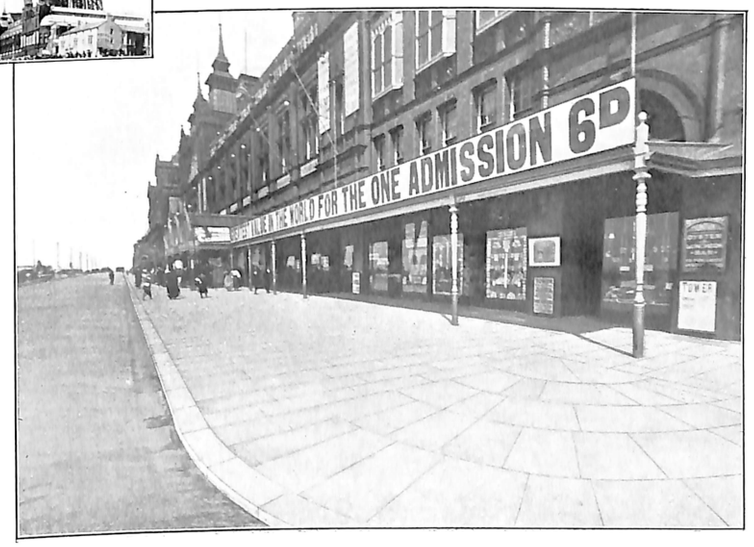
Also by the Railway Companies and by many Corporations, Town Councils, etc., in all parts of the country.

JOSEPH BROOKE AND SONS
THE "SILEX" STONE REGD.

THE "SILEX" STONE.



THE TOWER,
BLACKPOOL.



"SILEX" STONE PAVEMENTS.

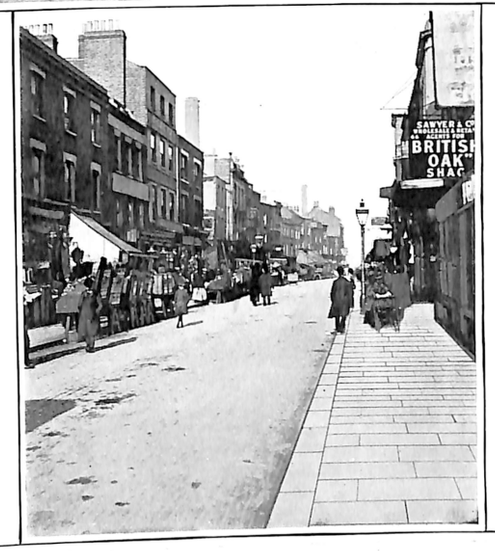
JOSEPH BROOKE AND SONS
THE "SILEX" STONE
REG.

THE "SILEX" STONE.



NEW CUT, LAMBETH, S.E.

"SILEX" PAVING, LAID IN 1889.



LOWER MARSH, LAMBETH, S.E.

"SILEX" PAVING, LAID IN 1889.



KENNINGTON PARK ROAD, KENNINGTON, S.E.

"SILEX" PAVEMENT.

JOSEPH BROOKE AND SONS
THE "SILEX" STONE REGD
HUDDERSFIELD LONDON MANCHESTER

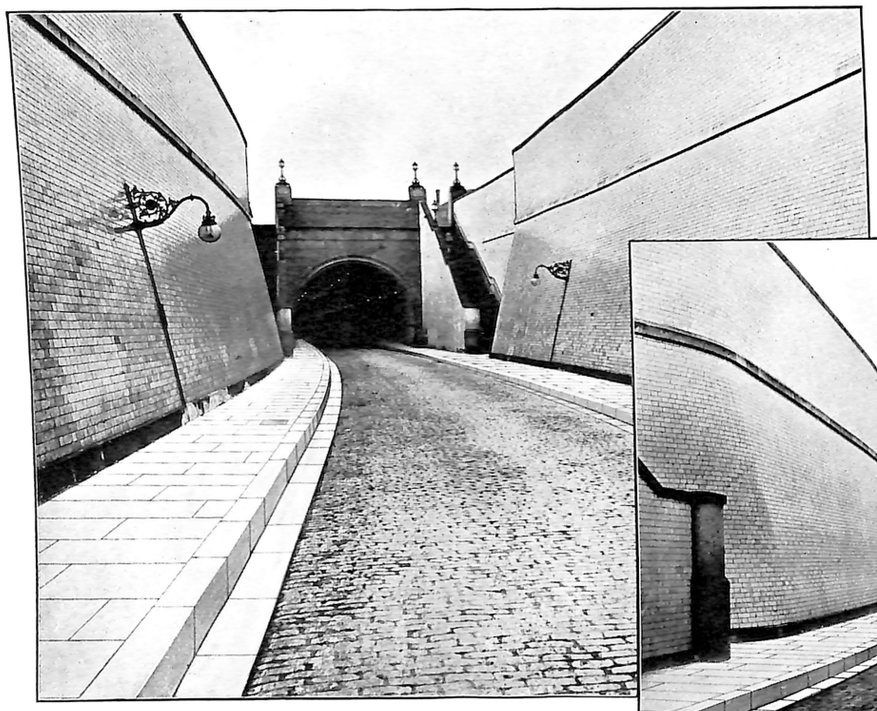
THE "SILEX" STONE.

HARLEYFORD ROAD, LAMBETH, S.E.



"SILEX" PAVEMENT.

JOSEPH BROOKE & SONS
THE SILEX STONE

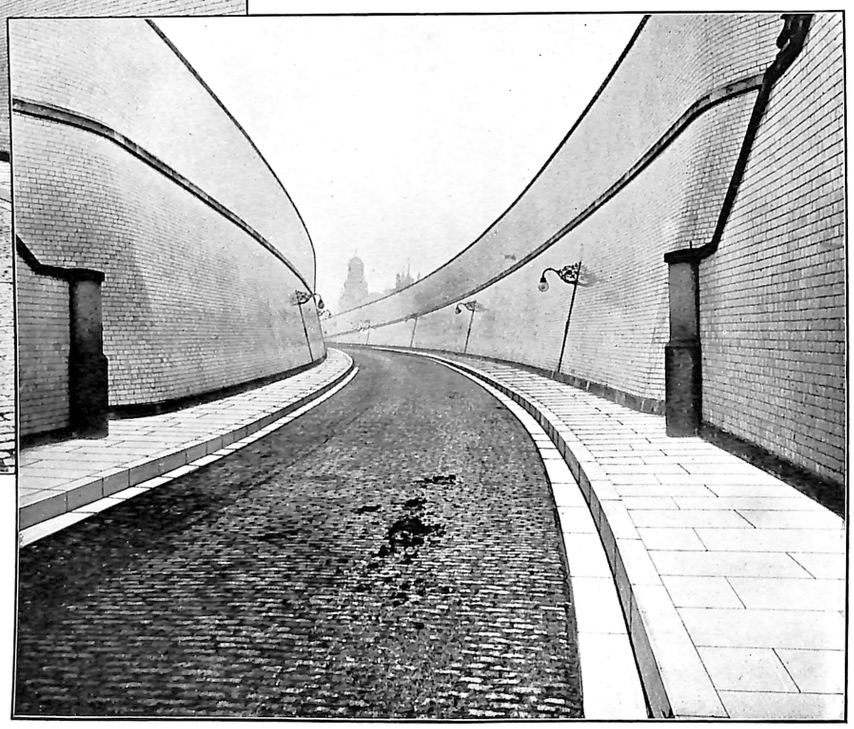


LONDON COUNTY COUNCIL.

"SILEX" PAVING STONE.

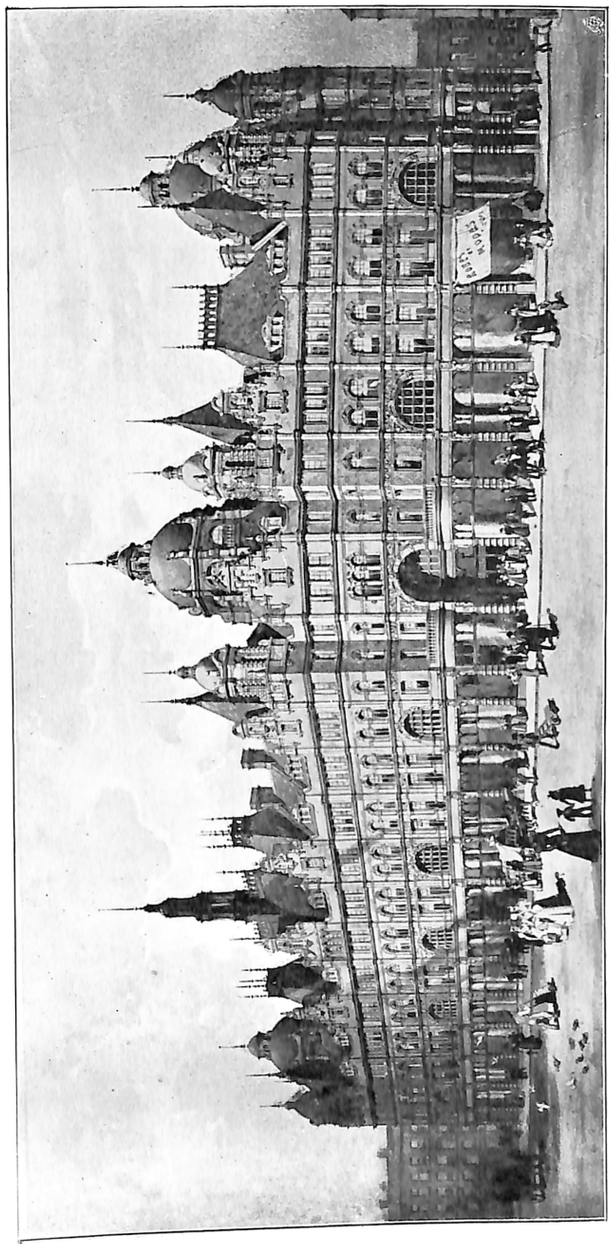
THE "SILEX" STONE.

APPROACH TO BLACKWALL TUNNEL.



JOSEPH BROOKE AND SONS
BRANCH OF BROOKES LTD
THE "SILEX" STONE REG.
HALIFAX LONDON MANCHESTER

THE "SILEX" STONE.



NEW MARKETS, LEEDS.

Contractor: J. T. Wright, Esq.

Architects: Messrs. Leeming & Leeming.

"SILEX" Steps, Landings, &c., supplied throughout.

Other Catalogue Sections
will be sent with pleasure immediately
on request.