S. MARSHALL and Sons Ltd.
SPECIAL MACHINED YORK STONE
"Marshalite" RECONSTRUCTED YORK STONE PAVING
HARD YORK NATURAL STONE PAVING AND KERBS
HYDRAULICALLY PRESSED CONCRETE FLAGS AND KERBS
PRECAST CONCRETE UNITS
SOUTHOWRAM
HALIFAX
TELEPHONE
HALIFAX 67716 (4 LINES) ~~4766 4767 HALIFAX~~
TELEGRAMS
"MARSHALL SONS SOUTHOWRAM"

Copy of Certificate of Analysis received from Guthrie, Adams & Co., Analytical Chemists, 4 Leighton Lane, Leeds 1 — January 21st, 1960

Ref. N/1/34

We have analysed and tested the undermentioned samples received from you on the 14th inst. with the following results:—

SAMPLE OF STONE: Chemical Analysis (analysis on air dried sample)

Moisture at 105°C.		0.17%
Loss on ignition		1.33%
Silica	SiO_2	87.31%
Ferric Oxide	Fe_2O_3	2.14%
Titanium Oxide	TiO_2	0.25%
Manganous Oxide	MnO	Trace
Phosphorous Oxide	P_2O_3	Trace
Alumina	Al_2O_3	6.42%
Lime	CaO	0.61%
Magnesia	MgO	0.54%
Sodium Oxide	Na_2O	0.74%
Potassium Oxide	K_2O	0.47%

Water Absorption Test (as per Spec. B.S. 812/51). Three samples of stone were tested under the conditions laid down in the above specification.

	1	2	3
Absorption (24 hours cold water)	3.2%	2.6%	2.9%

Average of above 3 tests: 2.9%

Crushing Strength (as per Spec. B.S. 812/51). Three test specimens were received, the dimensions of which were within the tolerance stated in the above specification, and the tests were carried out in accordance with the details stated in the specification.

	1	2	3
	lb/sq″	lb/sq″	lb/sq″
Crushing Strength	13,300	12,000	13,900

Average of the three tests: 13,070 lb/sq″ = 840.2 tons per sq. ft.

Weight, 187 lb. per cubic foot.

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