



OATHILL QUARRY
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Sarsden Cream Limestone

Petrographic Description and Mineral Examination:

Cream limestone is cream to buff in colour consisting primarily of ooliths and generally elongate fossil fragments within a carbonate cement. Some of the fossil fragment appear to have a high iron content and imparted an iron-brown colour to their surroundings. There is no visible orientation to the components within the sample and a few pore spaces are evident.

In thin section the stone was confirmed as a limestone consisting primarily of ooliths. These were often circular in shape, isolated and showed very little evidence of compaction. Concentric structure was visible in some. Many were seeded, with these including quartz, carbonate grains or sometimes a fossil fragment. The ooliths were generally composed of micrite, with grains of iron-rich minerals often within the structure. Oxidation of these often resulted in localised iron oxide/hydroxide discolouration.

A carbonate cement was present throughout the stone, with this generally being a coarse sparite, although more finely crystallised zones are also apparent. Based on the mineralogy identified in thin section and the texture seen in hand specimen, the stone has been given the classification of Oolitic limestone.

Block Dimensions:

- Bed Height: 300mm – 1400mm
- Block Length: Upto 4000mm
- Block Width: Upto 1500mm

*BRE Test Data:

Open Porosity	BSEN 1936	32.1	% BY VOL.
Apparent Density	BSEN 1936	1840	Kg.m-3
Water Absorption [Atmospheric Pressure]	BSEN 13755	11.5	%
Water Absorption [by Capillarity]	BSEN 772 – 11	99.4	g.m-2.s-0.5
Compressive Strength	BSEN 772 – 11	16.4	MPa
Compressive Strength [after freeze thaw]	BSEN 772 – 11	16.0	MPa
Thermal Conductivity [10 dry units]	BSEN 1745	1.4	W[m.k]-1
Reaction to fire	BSEN 13501-1	A1	

**All comprehensive British and European Standards test data and declaration of performance for CE Marking application are available on request.*

To discuss Block Stone please contact us using the information above and below.