



OATHILL QUARRY
 TEMPLE GUITING, CHELTENHAM, GL54 5SG
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OATHILL GOLD LIMESTONE

Petrographic Description and Mineral Examination:

Oathill Gold Limestone has a distinctive slightly darker golden or honey colour and consists primarily of ooliths with numerous elongated fossil fragments, with a medium grain and typical of most Cotswold towns and villages. The fossil fragments included bivalves, bryozoan and gastropods and usually show a cortex of micrite. Lithoclasts are observed as an infrequent constituent, with these consisting primarily of ooliths and fossil fragments within a micritic cement.

In thin section the stone was dominantly oolitic, with these often being concentric around a seed, mainly micritic and typically no larger in diameter than approximately 0.8 mm. There is generally a moderate level of compaction shown by the ooliths. Many contained iron-rich mineral grains within their fabric which imparted an orange-brown colour to their immediate surroundings. A carbonate cement was present throughout the stone, with this generally being a coarse sparite which contained very finely disseminated iron-rich mineral grains. Due to oxidation, orange-coloured iron oxides/hydroxides had dispersed along crystal boundaries, giving the cement (and therefore the stone) its distinctive colour.

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	28.6	% BY VOL.
Apparent Density	BSEN 1936	1930	Kg.m-3
Water Absorption [Atmospheric Pressure]	BSEN 13755	10.3	%
Water Absorption [by Capillarity]	BSEN 772 – 11	102.1	g.m-2.S-0.5
Compressive Strength	BSEN 772 – 11	13.9	MPa
Compressive Strength [after freeze thaw]	BSEN 772 – 11	12.2	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.