

SAMPLE TECH SUB FORM	
CONTRACTOR	ANP CONSTRUCTION LTD
PROJECT	Birkbeckuni Of London
JOB NUMBER	32929
SAMPLE NUMBER	ANP/003



ANP CONSTRUCTION

SAMPLE SPECIFICATION

SAMPLE DESCRIPTION:	Portland Stone-naturally: Stonehills Whitbed 500x500x35mm
SAMPLE LOCATION:	Delivered to site office and handled to Mez





Stonehills Whitbed

This technical data sheet was compiled by the Building Research Establishment (BRE) at the request of Albion Stone and is updated by Albion Stone to incorporate current test results. The 338 tests have been carried out from 2017 in accordance with current European standards by the BRE on Albion Stone's behalf, or by other accredited testing houses. The work carried out by the BRE on this technical data sheet has been undertaken as a paid commission and does not represent an endorsement of the stone by the BRE.

This data includes the Lowest and Highest Expected Values (LEV & HEV) using the statistical calculations from the Euro-codes. We are confident that these results give a good indication of the stones value, but as it is a natural material we, like other stone producers, are unable to guarantee individual results for specific stones. Instead, we recommend that an appropriate factor of safety is used to ensure satisfactory performance, the Technical Manual provides further information, but we suggest that a suitably qualified stone consultant with geological and testing experience is employed to provide further information.

Petrography

In thin section the stone was dominated by the presence of micritic ooliths (nominal 60%) with lesser volumes of peloids, bioclasts and lithoclasts/intraclasts. The bioclasts were often fragmented and typically elongate in shape, observed at up to approximately 20mm in length. The ooliths were generally in range 0.5mm down and usually showed a nucleus consisting of sparite crystal, bioclasts fragment, quartz grain or intraclast particle. Some showed a clear concentric structure. The majority of the ooliths showed a micritic composition. Some particles were composed of micrite with no structure (peloids) but others showed a pre-existing fabric including cement and were considered to be lithoclasts. Bioclasts were fragmented making accurate identification problematic, but sectional pieces of molluscs and bryozoa were noted. Pore spaces were observed throughout the section at a level of nominally 18 to 20%, with some being filled by sparite cement which often occurred as single large crystals.

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.

Strength

Compression - BS EN 1926

Lowest Expected Value 25.05 MPa

Highest Expected Value 52.11 MPa

Average: 36.72 Mpa from 20 tests

Flexural Strength - BS EN 12371 & 12372

Lowest Expected Value 4.93 MPa

Highest Expected Value 7.67 MPa

Average: 6.18 MPa from 10 tests

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NOTES:

DATE	STATUS APPROVAL	APPROVED BY (PRINT)	APPROVED BY (SIGN)
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