

Additional information and clarification of content should be directed to the
Technical Services Department either by:

Telephone: 01337 840461

Email: technicalservices.northern@breedongroup.com



Technical Services Dept

Clatchard Laboratory

Clatchard Quarry

Cupar Road

Newburgh

Fife, KY14 6JJ

Tel: 01337 840461

Fax: 01337 841990

BANAVIE QUARRY

BANAVIE QUARRY

By Fort William

PH33 7LY

01397 772267

Date Sampled	Property	Specification	Result	Unit
19/11/2018	Particle Density & Absorption (<i>PD&A</i>)	BS EN 1097-6		
	Apparent Density (<i>A</i>)		2.66	Mg/m ³
	Oven Dried Density (<i>OD</i>)		2.61	Mg/m ³
	Saturated Surface Dry Density (<i>SSD</i>)		2.63	Mg/m ³
	Water Absorption (<i>WA</i>)		0.70	%
27/09/2018	Polished Stone Value (<i>PSV</i>)	BS EN 1097: Part 8	55	Value
20/02/2017	Polished Stone Value (<i>PSV</i>)	BS EN 1097: Part 8	55	Value
11/11/2018	Polished Stone Value (<i>PSV</i>)	BS EN 1097: Part 8	56	Value
19/11/2018	Aggregate Abrasion Value (<i>AAV</i>)	BS EN 1097: Part 8	2	Value
19/11/2018	Magnesium Sulphate Soundness Value (<i>MSSV</i>)	BS EN 1367: Part 2	2	%
19/11/2018	Los Angeles Coefficient Value (<i>LA</i>)	BS EN 1097: Part 2	19	%
	Los Angeles Coefficient Value (<i>LA - Rail Ballast</i>)	BS EN 1097: Part 2		%
19/11/2018	Micro Deval (<i>MD - Aggregate</i>)	BS EN 1097: Part 1	4	Value
21/07/2015	Micro Deval (<i>MD - Rail Ballast</i>)	BS EN 1097: Part 1	6	Value
09/01/2018	Alkali Silica Reactivity (<i>ASR</i>)	BS 812: 104 & BS EN 932: 3	Normal	n/a
19/11/2018	Drying Shrinkage Value (<i>Dshrink</i>)	BS EN 1367: Part 4	0.039	%
	Linear Coefficient of Thermal Expansion (<i>LCoTE</i>)	3PC/06/01		mm/°C
19/11/2018	Frost Heave (<i>FH - Type I Sub-Base</i>)	BS 812: Part 124	8.5	mm
19/11/2018	Plasticity	BS 1377: Part 2	NP	n/a
25/10/2010	Frost Heave (<i>FH - Recycled Type I Sub-Base</i>)	BS 812: Part 124	4.3	mm
25/10/2010	Plasticity	BS 1377: Part 2	NP	n/a
19/11/2018	Potential Hydrogen Value	BS 1377: Part 3: clause 9	8.9	Value
19/11/2018	Acid Soluble Chloride Ion Content (<i>C</i>)	BS EN 1744: Part 5	<0.01	%
19/11/2018	Water Soluble Chloride Ion Content (<i>C</i>)	BS EN 1744: Part 1: clause 7	<0.001	%
19/11/2018	Water Soluble Sulphate Content (<i>SO₃</i>)	BS EN 1744: Part : clause 10.1	<0.01	%
19/11/2018	Water Soluble Sulphate Content (<i>SO₄</i>)	BS EN 1744: Part : clause 10.1	<0.01	%
19/11/2018	Water Soluble Sulphate Content (<i>SO₄</i>)	BS EN 1744: Part : clause 10.1	50	mg/l
19/11/2018	Total Sulphur Content (<i>S</i>)	BS EN 1744: Part : clause 11	<0.1	%
19/11/2018	Total Sulphur Content (<i>S</i>) (<i>SO₄</i>)	BS EN 1744: Part : clause 11	<0.3	%
19/11/2018	Acid Soluble Sulphate Content (<i>SO₃</i>)	BS EN 1744: Part : clause 12	<0.1	%
19/11/2018	Acid Soluble Sulphate Content (<i>SO₄</i>)	BS EN 1744: Part : clause 12	<0.1	%
19/11/2018	Acid Soluble Sulphides Content (<i>S</i>)	BS EN 1744: Part 1: clause 13	0.01	%
19/11/2018	Calcium Carbonate Equivalent Content (<i>CaCO₃</i>)	BS EN 196: Part 2	1.65	%