



**BREEDON QUARRY, BREEDON ON THE HILL, DERBY, DERBYSHIRE,
DE73 8AN**

PETROLOGICAL CLASSIFICATION: DOLOMITIC LIMESTONE

TEST METHOD	BS EN / BS 812	RESULT	DATE	REPORT N°
Oven-Dried Particle Density – 4/10mm	1097-6: 2000	2.72Mg/m ³	15/10/2018	STR626582
S.S.D. Particle Density – 4/10mm	1097-6: 2000	2.76Mg/m ³	15/10/2018	STR626582
Apparent Particle Density – 4/10mm	1097-6: 2000	2.82Mg/m ³	15/10/2018	STR626582
Water Absorption – 4/10mm	1097-6: 2000	1.3%	15/10/2018	STR626582
Aggregate Crushing Value (ACV)	812: Part 110	28%	15/10/2018	STR626592
Dry Aggregate Impact Value (AIV)	812: Part 112	14%	15/10/2018	STR626593
Aggregate Abrasion Value (AAV)	1097-8: 2009	10.0	15/10/2018	STR626585
Micro Deval Coefficient (MD)	1097-1: 2011	14	15/10/2018	STR626595
Los Angeles Coefficient (LA)	1097-2: 2010	23	15/10/2018	STR626594
Methylene Blue (MB)	933-9: 2009	0.8g/kg	09/10/2018	STR626609
Chloride Ion Content	1744-1: 2009	0.003%		STR
Total Sulfur Content	1744-1: 2009	<0.1%	10/10/2018	STR626606
Calcium Carbonate Equivalent	196-2: 2005	62.22%		STR
Water Soluble Sulfate Content SO ₃	1744-1: 2009	<0.01%	10/10/2018	STR626607
Soaked 10% Fines Value (TPV)	812: Part 111	200kN	15/10/2018	STR626591
Magnesium Sulfate Value (MS)	1367-2: 2009	4	11/10/2018	STR626596
Acid Soluble Sulphur Content	1744-1: 2009	0.12%	10/10/2018	STR626608
Water Soluble Sulfate Content (SO ₄)	TRL Report 447-1	21mg/l	09/10/2018	STR626612
Oxidisable Sulphides (OS)	TRL Report 447-3	0.01%	09/10/2018	STR626613
Total Potential Sulphate Content	TRL Report 447-4	0.37%		STR

TEST METHOD	RESULT	DATE	REPORT N°	POLISHED STONE VALUE (PSV) RESULTS		
Frost Heave	6.2mm	14/10/2018	STR626575	45	19/10/2018	STR626584
Frost Heave OMC	5.5%	14/10/2018	STR626575	43	12/09/2016	STR501911
Dry Density	2.43Mg/m ³	14/10/2018	STR626575	47	28/07/2015	STR426023
CBR	180%	18/10/2018	STR626580	50	02/06/2014	STR373756

CHEMICAL ANALYSIS	
Date: 16/10/2018	STR626602
SiO ₂	0.48%
TiO ₂	0.02%
Al ₂ O ₃	0.17%
Fe ₂ O ₃	0.94%
MgO	19.76%
MnO	0.27%
CaO	30.44%
SO ₃	0.06%
Cl	0.10%
K ₂ O	<0.01%
Na ₂ O	<0.02%
P ₂ O ₅	0.14%
BaO	0.05%
Loss on Ignition	47.50%