



**HOLME HALL QUARRY, STANTON, ROTHERHAM, SOUTH YORKSHIRE, S66 7RD.**

**PETROLOGICAL CLASSIFICATION: LIMESTONE**

TEST METHOD	BS EN / BS 812	RESULT	DATE	REPORT N°
Oven-Dried Particle Density – 4/10mm	1097-6: 2013	2.42Mg/m <sup>3</sup>	29.01.19	TR651382
S.S.D. Particle Density – 4/10mm	1097-6: 2013	2.59Mg/m <sup>3</sup>	29.01.19	TR651382
Apparent Particle Density – 4/10mm	1097-6: 2013	2.80Mg/m <sup>3</sup>	29.01.19	TR651382
Water Absorption – 4/10mm	1097-6: 2013	4.9%	29.01.19	TR651382
Dry Aggregate Impact Value (AIV)	812: Part 112	26%	29.01.19	TR651371
Aggregate Abrasion Value (AAV)	1097-8: 2009	16	29.01.19	TR651375
Micro Deval Coefficient (MD)	1097-1: 2011	21	29.01.19	TR651373
Los Angeles Coefficient (LA)	1097-2: 2010	34	29.01.19	TR651372
Methylene Blue (MB)	933-9: 2009	0.8g/kg	29.01.19	TR651356
Chloride Ion Content	1744-1: 2009	0.005%	29.01.19	TR651351
Total Sulfur Content	1744-1: 2009	<0.1%	29.01.19	TR651353
Calcium Carbonate Equivalent	196-2: 2005	39.63%	29.01.19	TR651350
Water Soluble Sulfate Content SO <sub>3</sub>	1744-1: 2009	<0.01%	29.01.19	TR651354
Soaked 10% Fines Value (TPV)	812: Part 111	170kN	29.01.19	TR651369
Magnesium Sulfate Value (MS)	1367-2: 2009	7	29.01.19	TR651387
Water Soluble Sulphate Content (SO <sub>4</sub> )	TRL Report 447-1	17mg/l	29.01.19	TR651360
Acid Soluble Sulfate Content (SO <sub>3</sub> )	1744-1: 2009	<0.1%	29.01.19	TR651355
Oxidisable Sulphides (OS)	TRL Report 447-3	<0.01%	29.01.19	TR651361

TEST METHOD	RESULT	DATE	REPORT N°	POLISHED STONE VALUE (PSV) RESULTS		
Frost Heave	7.0mm	29.01.19	TR651289	54	29.01.19	TR651384
Frost Heave OMC	8%	29.01.19	TR651289			
Dry Density	2.32Mg/m <sup>3</sup>	29.01.19	TR651289			
Soaked 10% Fines Value (TPV)	170kN	29.01.19	TR651369			

CHEMICAL ANALYSIS	
Date: 29.01.19	TR651364
SiO <sub>2</sub>	1.72%
TiO <sub>2</sub>	<0.03%
Al <sub>2</sub> O <sub>3</sub>	0.37%
Fe <sub>2</sub> O <sub>3</sub>	0.30%
MgO	20.72%
Mn <sub>3</sub> O <sub>4</sub>	0.10%
CaO	30.27%
SO <sub>3</sub>	0.02%
K <sub>2</sub> O	<0.03%
Na <sub>2</sub> O	<0.02%
P <sub>2</sub> O <sub>5</sub>	0.02%
BaO	<0.01%
Loss on Ignition	46.10%