

Heidelberg Materials
Machen Quarry
Newport
Gwent
CF83 8YP

Data Sheet Prepared By:

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0494

Unit : Penderyn Quarry
Address : Penderyn
Nr Aberdare
Mid Glamorgan
CF44 0TX

Issue Date : 10.03.25

Rock Type	Limestone
Particle Shape	Angular

AGGREGATE PROPERTIES SUMMARY DATA SHEET

Test Description		Specification Reference	Coarse	STR No.	Date	Fine	STR No.	Date
Particle Density (Mg/m ³)	Oven Dry	EN 1097-6	2.66	1077851	Nov-24	2.64	1077852	Nov-24
	S.S.D		2.67			2.65		
	Apparent		2.70			2.67		
Water Absorption (%)			0.6			0.5		
Los Angeles Abrasion (LA)		EN 1097-2	22	1095155	Jan-25			
Polished Stone Value (PSV)		EN 1097-8 : Annex A	37	1058758	Sep-24			
Magnesium Sulfate Soundness Value		EN 1367-2	3	1095156	Jan-25			
Drying Shrinkage (%)		EN 1367-4	0.050	1095157	Jan-25	0.041	1095149	Jan-25
Micro Deval (MD)		EN 1097-1	12	1095158	Jan-25			
Chloride Ion Content (%)		EN 1744-1				<0.001	1095145	Jan-25
Total Acid Soluble Sulfate (%)		EN 1744-1				<0.1	1095148	Jan-25
Total Sulfur Content (%)		EN 1744-1	0.3	1011622	Feb-24	0.1	1095147	Jan-25
pH Value		BS 1377 : Part 3				8.9	1095151	Jan-25
Frost Heave (mm)		BS 812 : Part 124	6	1095161	Feb-25			
Water Soluble Sulfate (%)		BS EN 1744-1	<0.01	1011621	Feb-24			
Petrographic Analysis*		BS 812-104				Low	1095160	Feb-25
Plastic Limit (%)		BS 1377 : Part 2	Non	1011619	Feb-24			
Chemical Analysis - *XRF Method		Na ₂ O				<0.02	1095150	Jan-25
		MgO				0.50		
		Al ₂ O ₃				0.34		
		SiO ₂				1.62		
		P ₂ O ₅				0.03		
		SO ₃				0.28		
		K ₂ O				<0.01		
		CaO				52.24		
		TiO ₂				<0.01		
		Mn ₃ O ₄				<0.01		
		Fe ₂ O ₃				0.17		
		BaO				0.04		
		Loss on Ignition				42.93		

All tests carried out are UKAS accredited unless otherwise denoted by *

Comments:

This simplified report contains limited information. The individual test reports (TR reference number) include all mandatory information and are available upon request.

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Unit : Penderyn Quarry
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 Mid Glamorgan
 CF44 0TX

Issue Date : 04.11.24

Rock Type	Limestone
Particle Shape	Angular

AGGREGATE PROPERTIES SUMMARY DATA SHEET

Test Description	Specification Reference	0/4mm	STR No.	Date	4/10mm	STR No.	Date
Bulk Density Loose (Mg/m ³)	EN 1097-3	1.66	1037033	May-24	1.33	1037034	May-24
Bulk Density Compacted (Mg/m ³)	EN 1097-3	1.91			1.50		

Test Description	Specification Reference	6/14mm	STR No.	Date	Type 1	STR No.	Date
Bulk Density Loose (Mg/m ³)	EN 1097-3	1.31	1037038	May-24	1.49	1037037	May-24
Bulk Density Compacted (Mg/m ³)	EN 1097-3	1.51			1.71		

Test Description	Specification Reference	4/20mm	STR No.	Date	10/20mm	STR No.	Date
Bulk Density Loose (Mg/m ³)	EN 1097-3	1.34	1037035	May-24	1.31	1037036	May-24
Bulk Density Compacted (Mg/m ³)	EN 1097-3	1.53			1.52		

Andy Graves - Customer Services Coordinator