



CARDIGAN SAND AND GRAVEL CO LTD
CNWC Y SAESON SAND PIT PENPARC
CARDIGAN CEREDIGION WALES SA43 1RB

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BS EN 13242: 2013 AGGREGATES FOR UNBOUND AND HYDRAULICALLY BOUND MATERIAL			DECLARED GRADING	
PROPERTIES	REPORTING METHOD	VALUE		
Particle shape (F1)			0/4 FINE AGGREGATE MP	
Particle shape (F1)	Declared value	NPD	DESCRIBED AS 0/4 PAVER	
Particle shape	Informative	Subrounded	LAYING COURSE SAND CATEGORY I	
	Informative	Medium sphericity	Sieve size % Passing	
		G _p 85	8	100%
Particle size d/D	Designation	0/4 MP	4	94 ± 5
			1	79 ± 20
Particle density (Mg/m³)	Declared value	Apparent 2.70	.500	50 ± 20
		Oven Dry 2.70	.250	45 ± 25
		Saturated Surface Dry 2.70	.063	f ₁ <1
Cleanliness			DESCRIBED AS 0/4 PAVER	
Shell content (SC)	Declared value	Category SC10	LAYING SAND CATEGORY II	
Fines quality	Designation	Coarseness/fineness MP as per declared gradings	Sieve size % Passing	
Fines quality	Threshold value (%)	f ₁ , f _{1.5} or f ₁₀	4	94 ± 5
	Category (MB,SE)		1	50 ± 20
			.500	25 ± 20
			.250	20 ± 20
			.063	f _{1.5} <1.5
Composition/content			DESCRIBED AS 0/4 CABLE	
Chlorides (% C)	Declared value	<0.01%	SAND / UNWASHED	
Acid soluble sulphates (AS)	Category	AS _{0.2}	COARSE SAND	
Total sulphur (%S)	Pass/fail threshold	NPD	Sieve size % Passing	
Carbonate content (%CO₂)	Declared value	<1.0	4	94 ± 5
Constituents which alter the rate of setting and the hardening of mortar	Pass/fail threshold	NPD	1	50 ± 20
			.500	25 ± 20
			.250	20 ± 20
			.063	f ₁₀ <10
Volume stability (%WS)	Pass/fail threshold	NPD	BS EN 1774-1 1998 Cl.12	
			BS EN 1744-1 1998 Cl.11	
Water absorption (WA)%	Declared value	WA ₂₄ 0.9%	BSEN 17744-1 1998 15.3	
			BS EN 1096:2000	
Emission of radioactivity	Declared value	NPD	as requested	
Release of heavy metals	Threshold values valid in the place of use	NPD		
Release of polyaromatic carbons		NPD		
Release of other dangerous substances		NPD		
Durability against freeze-thaw (F or MS)	Declared value	NPD		
Durability against alkali-silica reactivity	Declared value	NPD	as requested	

Declaration of Conformity: Cardigan Sand and Gravel Co Ltd confirms that the aggregates described in these certificates comply with the requirements of EN 13242

Authorised by MJ Mc Gee Managing Director
 Valid from 1st May 2012 to Currently Valid
 Date of Certificate issue 24th May 2013