



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

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BS EN 12620: 2013 AGGREGATES FOR CONCRETE			DECLARED GRADING		DECLARED GRADING	
			0/10 G _A 90 ALL-IN CONCRETE GRAVEL AGGREGATE		02/6.3 G _C 80/20 COARSE SINGLE SIZED CONCRETE GRAVEL	
PROPERTIES	REPORTING METHOD	VALUE	Sieve size	% Passing	Sieve size	% Passing
Particle shape (F1)	Declared value	Fl ₃₅	20	100	14	100
Particle size d/D	Designation	As per declared grading	14	98 - 100	10	98 - 100
Particle density (Mg/m ³)	Declared value	SSD 2.65 OD 2.61 AD 2.73	10	90 - 99	6.3	80 - 99
			4.0	50 - 90	2.0	00 - 20
			1.0	20 - 60	1.0	00 - 5
			0.063	00 - 03	0.063	00 - 1.5
			0/20 G _A 90 ALL-IN CONCRETE GRAVEL AGGREGATE		04/10 G _C 85/20 COARSE SINGLE SIZED CONCRETE GRAVEL	
Cleanliness			Sieve size	% Passing	Sieve size	% Passing
Fines quality	Pass/fail threshold value and category	f _{1.5}	40	100	20	100
Shell content (SC)	Category	SC ₁₀	31.5	98 - 100	14	98 - 100
			20	90 - 99	10	85 - 99
			10	50 - 90	4.0	00 - 20
			2.0	20 - 60	2.0	00 - 5
			0.063	00 - 03	0.063	00 - 1.5
Resistance to polishing	Category	NPD			10/20 G _C 85/20 COARSE SINGLE SIZED CONCRETE GRAVEL	
Resistance to fragmentation/crushing	Category	NPD	Sieve size	% Passing	Sieve size	% Passing
Resistance to abrasion	Category	NPD	40	100	31.5	98 - 100
Resistance to wear	Category	NPD	20	85 - 99	10	85 - 99
			10	00 - 20	4.0	00 - 5
			0.063	00 - 1.5	0.063	00 - 1.5
Composition/content					20/40 G _C 85/20 COARSE SINGLE SIZED CONCRETE GRAVEL	
Chlorides (% C)	Declared value	<0.01% C	Sieve size	% Passing	Sieve size	% Passing
Acid soluble sulphates (AS)	Category	<0.01% AS	80	100	63	98 - 100
Total Sulfur	Category	NPD	40	85 - 99	40	85 - 99
Water soluble sulphate content of recycled aggregate	Category	NPD	20	00 - 20	20	00 - 20
Carbonate content	Declared value	NPD	10	00 - 05	10	00 - 05
			0.063	00 - 1.5	0.063	00 - 1.5
Water absorption (WA)%	Declared value	1.8% WA	BS EN 1096:2000		4/20 G _C 90/15 GRADED CONCRETE GRAVEL AGGREGATE	
Emission of radioactivity	Declared values as requested		Sieve size	% Passing	Sieve size	% Passing
			40	100	40	100
			as requested		31.5	98 - 100
					20	90 - 99
					10	25 - 70
					4.0	00 - 15
					2.0	00 - 05
Release of heavy metals	Threshold values valid in the place of use	NPD				
Release of polyaromatic carbons		NPD				
Release of other dangerous substances	e.g.Substance X: 0.2 µm ³	NPD				
Durability against alkali-silica reactivity	Declared value as requested	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 12620

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