



COMBINED CONFORMITY CERTIFICATE							
Regen Ground Granulated Blastfurnace Slag Pr					IJMUIDEN		Works
				ched From	GLASGOW		Depot
·				ple Period	March 2017		
				Certificate of Conformity of			
Certificate of Conformity of Regen GGBS to EN 15167-1:2006				Combinations of Regen GGBS and CEM I Portland Cement to			
conformity to the autocontrol requirements of EN 15167-1:2006							
"Ground granulated blastfurnace slag for use in concrete, mortar				Portland Cement Source:			
and grout" following the methods given in that standard. The values reported are mean values for the monthly production period.			AGGREGATE INDUSTRIES : GLASGOW				
	•	ı	For combinations of Regen GGBS supplied from the above				
Results		Product	EN Limit	works with the above CEM I Portland cement the permittee		•	
Regen GGBS			proportions conforming to the requirements given in annex A of BS 8500-2:2015 are:			given in	
Fineness m²/kg	3		min. 275				
Magnesia MgO %		9	max. 18	Strength		Not Less	Not More
Sulfate SO ₃ % Sulfide S ²⁻ %		0.21	max 2.5	Class		Than**	Than**
Chloride Content Cl ⁻ %		0.89	max 2.0	52.5L		6	56
Moisture Content %		0.04	max 0.10 max 1.0	42.5L 32.5L		41 69	74 80
Alumina Al ₂ O ₃ %		14.5	to 1 dec		32.3L	09	80
Note: If the value is ≥ 14.5% the '+SR' re	_	10 1 000	Conformity Evaluation Period		month(s)		
exceeded if the C_3A of the CEM I is >10%.				(if less t	han 6 months)	.,, \	(5)
Alkalis as Na ₂ O equ. (acid soluble)				Combinat	tion Designation		
Guaranteed Alkali limit %		≤ 1.0		(Table 1 E	3S 8500-2:2015)		
Certified Average Alkali (Last 25) %		0.81			CIIS	6	35
Declared Mean: Mean last 25 + (SD last 25 x 1.64) %		0.90		CIIIA		36	65
COMBINATION OF 50% LA				CIIIB	66	80	
CEM I PORTLAND CEMENT AND 50% Regen GGBS					** % GGBS		GGBS
Initial Setting Time min.		180	not > than 2 x PC	Results of tests in accordance with BS EN 196-1 for 50% Regen GG in combination with 50% CEM I Portland cement shown above		•	
Activity Index %	7 days	69	min. 45	ni comon	in combination with copy certify stated combined from above		
	28 days	95	min. 70		Age	7 Days	28 Days
LABORATORY STOCK CEM I PORTLAND CEMENT ONLY				Compressiv	e Strength N/mm ²	38.2	55.7
The stock CEM I Portland cement used in these tests was supplied by Hanson Ribblesdale works and the following results were obtained from that sample				The samples of the Regen GGBS and the CEM I Portland cement were bulk average monthly samples for the works specified			
Initial Setting Time min		140					
Compressive Strength N/mm ²	7 days	52.7		CE			
	28 days	62.8					
The Regen GGBS contained no additional materials other than those permitted. The above results and other tests demonstrate the conformity of the material sold during the month to the requirements of EN 15167-1:2006						- 1102.90004	

Signed:

S C Chudley National Technical Manager