

## **Conformity Certificate**



## Regen Ground Granulated Blastfurnace Slag Produced at Sample Period

## Teesside July 2024

## Certificate of Conformity of Regen GGBS

Spot samples of Regen GGBS were taken and tested to determine conformity to the autocontrol requirements of EN 15167-1 "Ground granulated blastfurnace slag for use in concrete, mortar and grout" following the methods given in that standard. The values reported are mean values for the monthly production period.

		Result	EN Limit
Regen GGBS Only			
Fineness m²/kg		494	min. 275
Magnesia MgO %		6	max. 18
Sulfate SO <sup>3</sup> %		0.27	max. 2.5
Sulfide S <sup>2-</sup> %		0.66	max. 2.0
Chloride Content CI %		0.01	max. 0.1
Moisture Content %		0.04	max. 1.0
Aluminia Al <sub>2</sub> O <sub>3</sub> %		15	
Note: If the value is $\ge$ 14% the '+SR' restriction will be exceeded if the C <sub>3</sub> .	A of the CEM I is > 109	%.	
Alkalis as Na2O equ. (acid sol	uble)		
Certified Average Alkali (Last 25) %		≤ 1.0	
Mean Alkali content (Last 25) %		0.39	
Declared Mean : Mean last 25 + (SD last 25 x 1.64) %		0.42	
Combination of 50% Laboratory Stock CEM I Portland C	Cement and 50% Reg	en GGBS	
Initial Setting Time min.		218	> 2 x PC
Activity Index %	7 days	73	min. 45
	28 days	94	min. 70
Laboratory Stock CEM I Portland Ce	ement Only		
The laboratory stock CEM I Portland cement used in these	tests was supplied by	Hanson.	
Initial Setting Time min		128	
Compressive Strength N/mm <sup>2</sup>	7 days	45.7	
	28 days	56.9	
The Regen GGBS contained no additional materials other than those p demonstrate the conformity of the material sold during the month			
liability can be accepted by Heidelberg Materials UK for any loss, damage, cost or expense			
Signed:			UK
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