

## **Conformity Certificate**



## Regen Ground Granulated Blastfurnace Slag Produced at Sample Period

Teesside September 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 m <sup>2</sup> /kg		452	min. 275
Magnesia MgO %		7	max. 18
Sulfate SO <sup>3</sup> %		0.32	max. 2.5
Sulfide S <sup>2-</sup> %		0.67	max. 2.0
Chloride Content CI %		0.01	max. 0.1
Moisture Content %		0.20	max. 1.0
Aluminia Al <sub>2</sub> O <sub>3</sub> %		14	
Note: If the value is ≥ 14% the '+SR' restriction will be exceeded if the 0	$C_3A$ of the CEM I is > 109	%.	
Alkalis as Na2O equ. (acid s	oluble)		
Certified Average Alkali (Last 25) %		≤ 1.0	
Mean Alkali content (Last 25) %		0.43	
Declared Mean : Mean last 25 + (SD last 25 x 1.64) %		0.49	
Combination of 50% Laboratory Stock CEM I Portland	d Cement and 50% Reg	en GGBS	
Initial Setting Time min.		234	> 2 x PC
Activity Index %	7 days	71	min. 45
	28 days	92	min. 70
Laboratory Stock CEM I Portland	Cement Only		
The laboratory stock CEM I Portland cement used in these tests	was supplied by Heidelbe	erg Materia	ls UK.
Initial Setting Time min		145	
Compressive Strength N/mm <sup>2</sup>	7 days	45.1	
	28 days	58.0	
The Regen GGBS contained no additional materials other than those	e permitted. The above re	esults and c	other tests

demonstrate the conformity of the material sold during the month to the requirements of EN 15167-1.

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Signed:

Dr Nina Cardinal, Dipl.Ing., CEng, MICT National Technical Manager

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