

## Chemical Report

Hanson Cement  
Ketton  
Stamford  
PE9 3SX  
Tel: 0330 123 2074  
Fax: 01780 727008

Composition of Ribblesdale PC, EN 197-1:2011, CEM I 52,5N  
Dispatched from Ribblesdale  
Chemical analysis for week ending 10-Jul-22

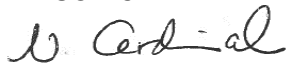
Week No. 2022-27

Compound	%
SiO <sub>2</sub>	21.70
Al <sub>2</sub> O <sub>3</sub>	5.32
Fe <sub>2</sub> O <sub>3</sub>	2.50
CaO	64.88
MgO	2.55
SO <sub>3</sub>	3.34
K <sub>2</sub> O	0.63
Na <sub>2</sub> O	0.27
Cl	0.07
Loss on Ignition	3.51
Not Detected	-4.76
Total	104.76

	%
Insol Residue	0.60
Free CaO	1.3
Certified Average Alkali Na <sub>2</sub> O (Equiv)	0.71
LSF (x 100)	90.96

Clinker compounds by Rietveld analysis	
C <sub>3</sub> S	56.2
C <sub>2</sub> S	17.7
C <sub>3</sub> A	7.4
C <sub>4</sub> AF	5.4

For and on behalf of  
HANSON CEMENT



*Dr Nina Cardinal, Dipl.Ing., CEng, MiMMM*  
*National Technical Manager*  
*Hanson Cement*

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