

## Chemical Report

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Composition of Ribblesdale PC, EN 197-1:2011, CEM I 52,5N  
Dispatched from Ribblesdale  
Chemical analysis for week ending 05-Feb-23

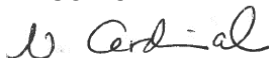
Week No. 2023-5

Compound	%
SiO <sub>2</sub>	21.52
Al <sub>2</sub> O <sub>3</sub>	5.07
Fe <sub>2</sub> O <sub>3</sub>	2.42
CaO	65.50
MgO	2.56
SO <sub>3</sub>	3.48
K <sub>2</sub> O	0.67
Na <sub>2</sub> O	0.22
Cl	0.06
Loss on Ignition	3.40
Not Detected	-4.90
Total	104.90

	%
Insol Residue	0.61
Free CaO	1.4
Certified Average Alkali Na <sub>2</sub> O (Equiv)	0.67
LSF (x 100)	92.85

Clinker compounds by Rietveld analysis	
C <sub>3</sub> S	60.2
C <sub>2</sub> S	15.8
C <sub>3</sub> A	5.6
C <sub>4</sub> AF	6.1

For and on behalf of  
HANSON CEMENT



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

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