

## Chemical Report

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Composition of Ribblesdale PLC 52,5N, EN 197-1:2011, CEM II/A-LL 52,5N

Dispatched from Ribblesdale

Chemical analysis for week ending 11-Sep-22

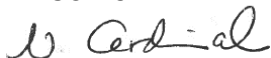
Week No. 2022-36

| Compound                       | %      |
|--------------------------------|--------|
| SiO <sub>2</sub>               | 21.76  |
| Al <sub>2</sub> O <sub>3</sub> | 4.68   |
| Fe <sub>2</sub> O <sub>3</sub> | 2.49   |
| CaO                            | 65.80  |
| MgO                            | 2.66   |
| SO <sub>3</sub>                | 3.25   |
| K <sub>2</sub> O               | 0.62   |
| Na <sub>2</sub> O              | 0.25   |
| Cl                             | 0.07   |
| Loss on Ignition               | n/a    |
| Not Detected                   | -1.55  |
| Total                          | 101.55 |

|  | %     |
|--|-------|
| Insol Residue  | n/a   |
| Free CaO   | 1.3   |
| Certified<br>Average Alkali<br>Na <sub>2</sub> O (Equiv) | 0.68  |
| LSF (x 100)  | 93.22 |

| Clinker compounds by<br>Rietveld analysis |      |
|---|------|
| C <sub>3</sub> S                          | 57.5 |
| C <sub>2</sub> S                          | 16.4 |
| C <sub>3</sub> A                          | 5.4  |
| C <sub>4</sub> AF                         | 6.0  |

For and on behalf of  
HANSON CEMENT



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

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