

## Chemical Report

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

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

Dispatched from Ribblesdale

Chemical analysis for week ending 14-Aug-22

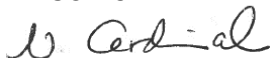
Week No. 2022-32

| Compound                       | %      |
|--------------------------------|--------|
| SiO <sub>2</sub>               | 21.21  |
| Al <sub>2</sub> O <sub>3</sub> | 4.83   |
| Fe <sub>2</sub> O <sub>3</sub> | 2.67   |
| CaO                            | 65.52  |
| MgO                            | 2.39   |
| SO <sub>3</sub>                | 3.22   |
| K <sub>2</sub> O               | 0.66   |
| Na <sub>2</sub> O              | 0.25   |
| Cl                             | 0.06   |
| Loss on Ignition               | n/a    |
| Not Detected                   | -0.79  |
| Total                          | 100.79 |

|  | %     |
|--|-------|
| Insol Residue  | n/a   |
| Free CaO   | 1.1   |
| Certified<br>Average Alkali<br>Na <sub>2</sub> O (Equiv) | 0.69  |
| LSF (x 100)  | 94.56 |

| Clinker compounds by<br>Rietveld analysis |      |
|---|------|
| C <sub>3</sub> S                          | 53.3 |
| C <sub>2</sub> S                          | 17.6 |
| C <sub>3</sub> A                          | 4.4  |
| C <sub>4</sub> AF                         | 6.7  |

For and on behalf of  
HANSON CEMENT



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

Hanson Cement has used all reasonable care to ensure the information herein contained is accurate but to the extent permitted in law, no liability can be accepted by Hanson Cement for any loss, damage, cost or expense arising from any inaccuracy, whether due to negligence or otherwise.