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 Ribblesdale Works  
 1333-CPR-00248



## Cement Test Report

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Results of tests made at the laboratories of the company on samples of Ribblesdale PLC 52,5N, BS EN 197-1:2011 - CEM II/A-LL 52,5N

Dispatched from Ribblesdale during week ending 12-Nov-23 (Week No. 2023-45 )  
 and during week ending 22-Oct-23 (Week No. 2023-42 ) for 28 day results

| Date      | Fineness<br>Specific Surface<br>(m <sup>2</sup> /kg) | Setting Time<br>Initial<br>(mins) | Soundness<br>Expansion<br>(mm) | Compressive Strength              |                                |                                 | Chloride<br>% | Alkali  |                       |
|-----------|--|-----------------------------------|--------------------------------|-----------------------------------|--------------------------------|---------------------------------|---------------|---|-----------------------|
|           |  |                                   |                                | 40mm x 40mm x 160mm Mortar prisms |                                |                                 |               | Certified<br>Average Alkali<br>% Na <sub>2</sub> O eq | Standard<br>Deviation |
|           |  |                                   |                                | 2 Days<br>(N/mm <sup>2</sup> )    | 7 Days<br>(N/mm <sup>2</sup> ) | 28 Days<br>(N/mm <sup>2</sup> ) |               |   |                       |
| 08-Nov-23 | 470  | 185                               | 0                              | 32.5                              | 44.5                           |                                 | 0.06          | 0.64  | 0.06                  |
| 10-Nov-23 | 445  | 195                               | 1                              | 31.5                              | 45.5                           |                                 | 0.06          | 0.64  | 0.05                  |
| Average   | 460  | 190                               | 1                              | 32.0                              | 45.0                           |                                 | 0.06          |   | 0.06                  |
| 16-Oct-23 | 450  | 170                               | 0                              | 34.5                              | 48.5                           | 61.0                            | 0.06          | 0.62  | 0.06                  |
| 20-Oct-23 | 430  | 155                               | 1                              | 34.0                              | 46.5                           | 58.0                            | 0.06          | 0.63  | 0.06                  |
| Average   | 440  | 165                               | 1                              | 34.5                              | 47.5                           | 59.5                            | 0.06          |   | 0.06                  |

**Product Declaration:**

Declared Mean Alkali (%) = 0.75 (Max)

Declared Chloride content (%) = 0.07 (Max)

For and on behalf of  
 HEIDELBERG MATERIALS UK

Dr Nina Cardinal, Dipl.Ing., CEng, MiMMM  
 National Technical Manager  
 Heidelberg Materials UK

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