



Heidelberg Materials UK  
 Second Floor, Arena Court, Crown Lane  
 Maidenhead, Berkshire, SL6 8QZ  
 Ribblesdale Works  
 1333-CPR-00248



## Cement Test Report

Heidelberg Materials  
 UK  
 Ketton  
 Stamford  
 PE9 3SX  
 Tel: 0330 123 2074  
 Fax: 01780 727008

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 18-Feb-24 (Week No. 2024-7 )  
 and during week ending 28-Jan-24 (Week No. 2024-4 ) 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> ) |               |   |                       |
| 12-Feb-24 | 475  | 120                               | 6                              | 38.0                              | 51.5                           |                                 | 0.07          | 0.59  | 0.03                  |
| 16-Feb-24 | 480  | 125                               |                                | 39.0                              | 50.5                           |                                 |               |   |                       |
| Average   | 480  | 125                               | 3                              | 38.5                              | 51.0                           |                                 | 0.06          |   | 0.03                  |
| 22-Jan-24 | 455  | 200                               | 0                              | 32.5                              | 51.5                           | 60.5                            | 0.06          | 0.60  | 0.04                  |
| 26-Jan-24 | 450  | 195                               | 0                              | 29.5                              | 46.0                           | 55.5                            | 0.06          | 0.60  | 0.04                  |
| Average   | 455  | 200                               |                                | 31.0                              | 49.0                           | 58.0                            | 0.06          |   | 0.04                  |

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, MICT  
 National Technical Manager  
 Heidelberg Materials UK

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