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 Ribblesdale Works  
 1333-CPR-00127



## Cement Test Report

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Results of tests made at the laboratories of the company on samples of Ribblesdale PC, BS EN 197-1:2011 - CEM I 52,5N

Dispatched from Ribblesdale during week ending  
 and during week ending

03-Mar-24 (Week No. 2024-9 )  
 11-Feb-24 (Week No. 2024-6 ) 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> ) |               |   |                       |
| 26-Feb-24 | 415  | 150                               | 2                              | 32.5                              | 45.5                           |                                 | 0.05          | 0.68  | 0.03                  |
| 27-Feb-24 | 400  | 160                               | 1                              | 32.5                              | 45.0                           |                                 | 0.05          | 0.68  | 0.02                  |
| 28-Feb-24 | 400  | 155                               | 1                              | 32.5                              | 45.0                           |                                 | 0.05          | 0.68  | 0.02                  |
| 29-Feb-24 | 395  | 140                               | 1                              | 32.5                              | 49.0                           |                                 | 0.05          | 0.68  | 0.02                  |
| 01-Mar-24 | 400  | 135                               | 2                              | 32.0                              | 47.0                           |                                 | 0.05          | 0.68  | 0.02                  |
| Average   | 400  | 150                               | 1                              | 32.5                              | 46.5                           |                                 | 0.05          |   | 0.02                  |
| 05-Feb-24 | 405  | 155                               | 1                              | 31.0                              | 46.0                           | 55.5                            | 0.05          | 0.69  | 0.02                  |
| 06-Feb-24 | 385  | 160                               | 0                              | 31.0                              | 47.5                           | 59.5                            | 0.05          | 0.69  | 0.02                  |
| 07-Feb-24 | 390  | 145                               | 1                              | 30.5                              | 46.0                           | 57.5                            | 0.05          | 0.69  | 0.02                  |
| 08-Feb-24 | 385  | 155                               | 1                              | 31.5                              | 46.0                           | 59.0                            | 0.05          | 0.69  | 0.02                  |
| 09-Feb-24 | 405  | 130                               | 1                              | 32.5                              | 45.0                           | 56.5                            | 0.05          | 0.69  | 0.02                  |
| Average   | 395  | 150                               | 1                              | 31.5                              | 46.0                           | 57.5                            | 0.05          |   | 0.02                  |

**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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