



Heidelberg Materials UK
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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 11-Aug-24 (Week No. 2024-32)
 and during week ending 21-Jul-24 (Week No. 2024-29) for 28 day results

| Date | Fineness Specific Surface (m ² /kg) | Setting Time Initial (mins) | Soundness Expansion (mm) | Compressive Strength | | | Chloride % | Alkali | |
|-----------|--|-----------------------------------|--------------------------------|-----------------------------------|--------------------------------|---------------------------------|---------------|---|-----------------------|
| | | | | 40mm x 40mm x 160mm Mortar prisms | | | | Certified Average Alkali % Na ₂ O eq | Standard Deviation |
| | | | | 2 Days (N/mm ²) | 7 Days (N/mm ²) | 28 Days (N/mm ²) | | | |
| 5-Aug-24 | 470 | 185 | 1 | 34.5 | 49.0 | | 0.06 | 0.62 | 0.05 |
| 9-Aug-24 | 445 | 160 | | 35.0 | 45.5 | | 0.06 | 0.62 | 0.05 |
| Average | 460 | 175 | 1 | 35.0 | 47.5 | | 0.06 | | 0.05 |
| 15-Jul-24 | 455 | 195 | 1 | 30.5 | 45.5 | 56.0 | 0.06 | 0.63 | 0.05 |
| 19-Jul-24 | 455 | 175 | | 33.0 | 45.0 | 56.5 | 0.06 | 0.63 | 0.05 |
| Average | 455 | 185 | 1 | 32.0 | 45.5 | 56.5 | 0.06 | | 0.05 |

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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