# Certificate of Conformity Summary

## Teesside SF - January 2024

Combinations of Regen GGBS supplied from Heidelberg Materials UK in combination with the CEM I Portland Cements and CEM II Portland Limestone Cements (PLC) listed below conform with the requirements of BS 8500-2:2023 over the indicated range of proportions. The compressive strength results are for tests carried out in accordance with BS EN 197-1 with 50% Regen GGBS in combination with the indicated cement. The combination of cement sources in bold text have been evaluated for conformity for less than six months.

In order to establish the designation of the combination as per Table 1 of BS 8500-2:2023, the user requires to know the limestone content of the cement. For cements supplied by Heidelberg Materials UK, this is shown in brackets in the table below. For cements of other sources the user should refer to the supplier for this information.

Composite samples for Heidelberg Materials UK cements and GGBS are obtained by blending not less than 8 spot samples of similar mass, taken at regular intervals throughout the relevant period. For information on composite samples of other cement sources, the user should refer to the supplier.

| Cement Source | | Compressive Strength N/mm2 | | Regen GGBS Percentage Range | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 42.5L | | 32.5L | | 22.5 | |
| **Company** | **Source** | **7 day** | **28 day** | **Min** | **Max** | **Min** | **Max** | **Min** | **Max** |
| HEIDELBERG MATERIALS | RIBBLESDALE (3-5%) | 34.1 | 53.7 | 7 | 61 | 52 | 73 | 68 | 81 |
| HEIDELBERG MATERIALS | KETTON (3-5%) | 35.0 | 53.7 | 6 | 60 | 51 | 72 | 66 | 81 |
| LAFARGE | CAULDON 52.5N | 33.4 | 51.5 | 6 | 60 | 52 | 71 | 66 | 81 |
| HEIDELBERG MATERIALS | PADESWOOD (3-5%) | 33.7 | 51.9 | 6 | 63 | 47 | 76 | 71 | 83 |
| TARMAC | TUNSTEAD | 30.7 | 54.3 | 17 | 61 | 53 | 74 | 68 | 83 |
| CEMEX | RUGBY | 34.8 | 50.8 | 6 | 62 | 52 | 74 | 69 | 82 |
| LAFARGE | GLASGOW LAGERDORF | No | Sample | n/a | n/a | n/a | n/a | n/a | n/a |
| TARMAC | DUNBAR | 25.3 | 51.1 | 29 | 65 | 47 | 80 | 75 | 88 |
| SOUTHERN-PREMIER | PLATIN | 31.7 | 51.3 | 6 | 61 | 49 | 75 | 70 | 83 |
| LAFARGE | COOKSTOWN | No | Sample | n/a | n/a | n/a | n/a | n/a | n/a |
| CIMPOR | ALHANDRA 52.5R | No | Sample | n/a | n/a | n/a | n/a | n/a | n/a |
| BREEDON | HOPE | 31.8 | 53.7 | 6 | 61 | 51 | 73 | 68 | 82 |
| CEMEX (LEITH) | ALCANAR | 30.0 | 53.2 | 23 | 63 | 53 | 75 | 70 | 84 |
| TILLICOULTRY | LAGAN | No | Sample | n/a | n/a | n/a | n/a | n/a | n/a |
| SECIL | OUTAO | No | Sample | n/a | n/a | n/a | n/a | n/a | n/a |
| HEIDELBERG MATERIALS | RIBBLESDALE PLC (9-13%) | 36.2 | 54.8 | 6 | 62 | 52 | 73 | 68 | 81 |
| HEIDELBERG MATERIALS | PADESWOOD PLC (8-12%) | 32.4 | 52.1 | 6 | 58 | 50 | 71 | 65 | 80 |
| BREEDON | HOPE PLC | 33.7 | 54.0 | 6 | 64 | 53 | 75 | 70 | 83 |
| ELLESMERE | OGGAZ | 34.2 | 54.5 | 34 | 70 | 62 | 78 | 75 | 85 |

The Regen GGBS contained no additional materials others than those permitted according to BS EN 15167-1.

Heidelber Materials UK 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 Heidelberg Materials UK for any loss, damage, cost or expense arising from any inaccuracy, whether due to negligence or otherwise.

Signed:

Dr Nina Cardinal, Dipl.Ing., CEng, MICT National Technical Manager