



# CERTIFICATE OF QUALITY

## EcoSure® Type GP Cement

NZS3122:2009 (Bulk & Bag Dispatch)



Issued to: National Sales Manager

Test Report No: 25#159

info@goldenbay.co.nz

| Code                          | Week<br>Ending /<br>Voyage | Specific<br>Surface<br>Area | Normal<br>Consistency | Initial<br>Set | Final<br>Set | Sound-<br>ness | Compressive Strength |             |             |          |        |        |         | Free<br>Lime | Sodium<br>Equivalent<br>(NaEq) | Sulphur<br>Trioxide<br>(SO <sub>3</sub> ) |
|-------------------------------|----------------------------|-----------------------------|-----------------------|----------------|--------------|----------------|----------------------|-------------|-------------|----------|--------|--------|---------|--------------|--------------------------------|-------------------------------------------|
|                               |                            |                             |                       |                |              |                | ISOCEN               |             |             | Concrete |        |        |         |              |                                |                                           |
|                               |                            |                             |                       |                |              |                | 3 days               | 7 days      | 28 days     | Slump    | 3 days | 7 days | 28 days |              |                                |                                           |
| Mean                          |                            | 382                         | 29.0                  | 158            | 3:58         | 1              | 35.1                 | 48.2        | 63.9        | 95       | 27.8   | 37.9   | 48.7    | 1.5          | 0.55                           | 2.31                                      |
| Standard Deviation            |                            | 10                          | 0.2                   | 8              | 0:10         | 0.5            | 0.9                  | 0.9         | 1.6         | 10       | 1.9    | 2.4    | 2.7     | 0.1          | 0.02                           | 0.04                                      |
| Min                           |                            | 365                         | 28.3                  | 150            | 3:45         | 0              | 33.8                 | 46.6        | 61.7        | 80       | 24.0   | 33.5   | 44.5    | 1.3          | 0.51                           | 2.22                                      |
| Max                           |                            | 400                         | 29.5                  | 165            | 4:30         | 2              | 37.1                 | 49.8        | 66.6        | 110      | 31.0   | 43.0   | 53.0    | 1.8          | 0.58                           | 2.39                                      |
| NZS 3122:2009<br>Requirements |                            |                             |                       | 45<br>min      | 6:00<br>max  | 5<br>max       |                      | 35.0<br>min | 45.0<br>min |          |        |        |         |              | 0.6<br>max                     | 3.5<br>max                                |
| Units                         |                            | m <sup>2</sup> /kg          | %                     | minutes        | hrs:mins     | mm             | MPa                  | MPa         | MPa         | mm       | MPa    | MPa    | MPa     | %            | %                              | %                                         |
| 251004-986-GP                 | 04/10/25                   | 375                         | 28.3                  | 165            | 4:00         | 1              | 34.8                 |             |             | 110      | 26.0   |        |         | 1.3          | 0.57                           | 2.26                                      |
| 251001-825-GP                 | 01/10/25                   | 385                         | 29.1                  | 150            | 3:45         | 1              | 34.3                 | 48.2        |             |          |        |        |         | 1.5          | 0.58                           | 2.32                                      |
| 250928-815-GP                 | 28/09/25                   | 395                         | 29.2                  | 165            | 4:00         | 1              | 35.2                 | 47.8        |             | 110      | 28.5   | 37.0   |         | 1.4          | 0.58                           | 2.30                                      |
| 250924-676-GP                 | 24/09/25                   | 375                         | 29.1                  | 165            | 4:00         | 1              | 34.7                 | 48.3        |             | 80       | 26.0   | 37.0   |         | 1.3          | 0.58                           | 2.27                                      |
| 250920-413-GP                 | 20/09/25                   | 370                         | 29.1                  | 165            | 4:00         | 1              | 34.2                 | 48.3        |             | 110      | 24.0   | 35.5   |         | 1.4          | 0.58                           | 2.22                                      |
| 250918-411-GP                 | 18/09/25                   | 385                         | 29.1                  | 150            | 4:00         | 2              | 33.8                 | 47.9        |             |          |        |        |         | 1.8          | 0.56                           | 2.36                                      |
| 250913-136-GP                 | 13/09/25                   | 380                         | 29.5                  | 165            | 3:45         | 1              | 34.2                 | 48.1        | 66.6        |          |        |        |         | 1.7          | 0.58                           | 2.31                                      |
| 250908-933-GP                 | 08/09/25                   | 390                         | 29.2                  | 150            | 4:00         | 0              | 34.7                 | 48.4        | 65.2        | 90       | 31.0   | 39.5   |         | 1.4          | 0.58                           | 2.30                                      |
| 250902-653-GP                 | 02/09/25                   | 365                         | 29.1                  | 165            | 4:00         | 1              | 36.7                 | 48.9        | 62.7        | 100      | 27.5   | 38.0   | 48.0    | 1.6          | 0.55                           | 2.31                                      |
| 250829-421-GP                 | 29/08/25                   | 385                         | 29.1                  | 150            | 4:00         | 1              | 36.0                 | 48.9        | 64.2        |          |        |        |         | 1.4          | 0.56                           | 2.32                                      |
| 250825-419-GP                 | 25/08/25                   | 395                         | 29.1                  | 150            | 4:00         | 1              | 34.6                 | 46.7        |             | 90       | 27.0   | 39.0   | 51.5    | 1.5          | 0.55                           | 2.32                                      |
| 250816-019-GP                 | 16/08/25                   | 385                         | 29.1                  | 165            | 4:00         | 2              | 35.4                 | 47.4        | 61.7        | 90       | 28.0   | 38.5   | 53.0    | 1.5          | 0.55                           | 2.38                                      |
| 250812-711-GP                 | 12/08/25                   | 370                         | 29.1                  | 150            | 3:45         | 1              | 37.1                 | 49.3        | 66.0        | 90       | 29.5   | 41.5   | 49.5    | 1.3          | 0.55                           | 2.33                                      |
| 250810-880-GP                 | 10/08/25                   | 370                         | 29.1                  | 150            | 3:45         | 1              | 36.4                 | 49.6        | 63.0        |          |        |        |         | 1.6          | 0.56                           | 2.32                                      |
| 250807-535-GP                 | 07/08/25                   | 375                         | 29.1                  | 165            | 4:15         | 1              | 36.5                 | 49.8        | 65.9        |          |        |        |         | 1.6          | 0.55                           | 2.28                                      |
| 250803-472-GP                 | 03/08/25                   | 375                         | 29.1                  | 150            | 4:30         | 1              | 34.7                 | 47.8        | 64.3        | 90       | 27.0   | 37.0   | 47.0    | 1.4          | 0.55                           | 2.28                                      |
| 250731-291-GP                 | 31/07/25                   | 370                         | 29.1                  | 150            | 3:45         | 1              | 35.4                 | 48.8        | 65.6        | 100      | 28.0   | 37.5   | 44.5    | 1.5          | 0.54                           | 2.26                                      |
| 250724-893-GP                 | 24/07/25                   | 400                         | 29.1                  | 150            | 4:00         | 0              | 34.7                 | 47.6        | 63.6        | 90       | 30.0   | 37.0   | 49.0    | 1.5          | 0.53                           | 2.33                                      |
| 250719-722-GP                 | 19/07/25                   | 395                         | 29.1                  | 165            | 4:00         | 0              | 34.4                 | 46.7        | 62.0        | 100      | 30.5   | 43.0   | 52.0    | 1.4          | 0.52                           | 2.30                                      |
| 250717-639-GP                 | 17/07/25                   | 390                         | 29.1                  | 165            | 4:00         | 0              | 34.9                 | 49.0        | 65.9        |          |        |        |         | 1.5          | 0.54                           | 2.26                                      |
| 250710-325-GP                 | 10/07/25                   | 390                         | 29.1                  | 165            | 4:00         | 0              | 34.5                 | 48.0        | 63.2        |          |        |        |         | 1.6          | 0.54                           | 2.31                                      |
| 250706-286-GP                 | 06/07/25                   | 390                         | 29.1                  | 165            | 4:00         | 0              | 35.4                 | 46.6        | 62.5        | 90       | 27.0   | 35.0   | 48.0    | 1.6          | 0.52                           | 2.34                                      |
| 250702-068-GP                 | 02/07/25                   | 385                         | 28.8                  | 165            | 4:00         | 1              | 35.2                 | 48.8        | 63.4        | 80       | 28.5   | 39.0   | 48.0    | 1.5          | 0.51                           | 2.31                                      |
| 250628-016-GP                 | 28/06/25                   | 375                         | 28.7                  | 165            | 3:45         | 1              | 35.1                 | 47.4        | 61.7        |          |        |        |         | 1.4          | 0.54                           | 2.33                                      |
| 250624-707-GP                 | 24/06/25                   | 390                         | 28.8                  | 150            | 4:15         | 1              | 35.9                 | 48.3        | 63.5        | 100      | 26.0   | 33.5   | 45.0    | 1.5          | 0.54                           | 2.39                                      |

The above samples were tested as received in accordance with the current terms of accreditation and methods stated in NZS 3122:2009 with the exception of:  
Chemical composition to ASTM C114-23

All concrete testing conducted in accordance with NZS 3112:1986.

Re-test

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*Marley Korach-Salt*

Marley Korach-Salt  
Chemical Technician



Portland Works, Portland, Whangarei 0178

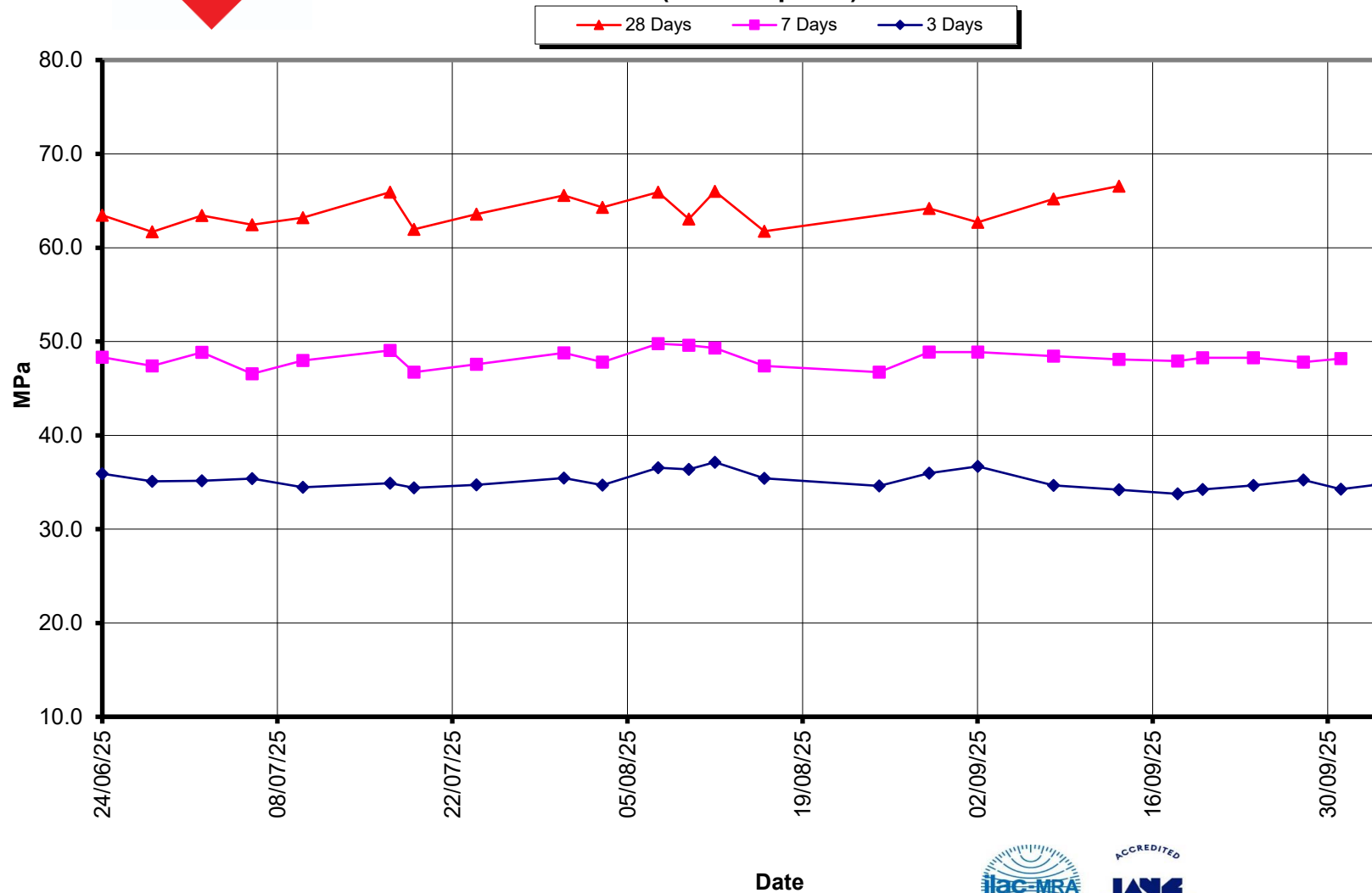
Date issued: 20/10/2025

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## EcoSure® Type GP Cement

### Compressive Strength ISO-CEN Mortar (Bulk Dispatch)





## EcoSure® Type GP Cement

### Compressive Strength Concrete (Bulk Dispatch)

