



# CERTIFICATE OF QUALITY

## EcoSure® Type GP Cement

NZS3122:2009 (Bulk & Bag Dispatch)



Issued to: National Sales Manager

Test Report No: 25#148

info@goldenbay.co.nz

| Code                       | Week Ending / Voyage | Specific Surface Area | Normal Consistency | Initial Set | Final Set | Soundness | Compressive Strength |          |          |          |        |        |         | Free Lime | Sodium Equivalent (NaEq) | Sulphur Trioxide (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         | 35.2                 | 48.3     | 63.9     | 94       | 27.7   | 38.4   | 48.9    | 1.5       | 0.55                     | 2.31                                |
| Standard Deviation         |                      | 10                    | 0.3                | 8           | 0:12      | 0.4       | 0.9                  | 1.1      | 1.6      | 8        | 2.0    | 2.6    | 2.8     | 0.1       | 0.02                     | 0.04                                |
| Min                        |                      | 365                   | 27.8               | 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                 | 50.8     | 66.4     | 110      | 30.5   | 43.0   | 53.0    | 1.8       | 0.58                     | 2.39                                |
| NZS 3122:2009 Requirements |                      |                       |                    | 45 min      | 6:00 max  | 5 max     |                      | 35.0 min | 45.0 min |          |        |        |         |           | 0.6 max                  | 3.5 max                             |
| Units                      |                      | m <sup>2</sup> /kg    | %                  | minutes     | hrs:mins  | mm        | MPa                  | MPa      | MPa      | mm       | MPa    | MPa    | MPa     | %         | %                        | %                                   |
| 250920-413-GP              | 20/09/25             | 370                   | 29.1               | 165         | 4:00      | 1         | 34.2                 |          |          | 110      | 24.0   |        |         | 1.4       | 0.58                     | 2.22                                |
| 250918-411-GP              | 18/09/25             | 385                   | 29.1               | 150         | 4:00      | 2         | 33.8                 |          |          |          |        |        |         | 1.8       | 0.56                     | 2.36                                |
| 250913-136-GP              | 13/09/25             | 380                   | 29.5               | 165         | 3:45      | 1         | 34.2                 | 48.1     |          |          |        |        |         | 1.7       | 0.58                     | 2.31                                |
| 250908-933-GP              | 08/09/25             | 390                   | 29.2               | 150         | 4:00      | 0         | 34.7                 | 48.4     |          | 100      | 24.5   |        |         | 1.4       | 0.58                     | 2.30                                |
| 250902-653-GP              | 02/09/25             | 365                   | 29.1               | 165         | 4:00      | 1         | 36.7                 | 48.9     |          | 100      | 27.5   | 38.0   |         | 1.6       | 0.55                     | 2.31                                |
| 250829-421-GP              | 29/08/25             | 385                   | 29.1               | 150         | 4:00      | 1         | 36.0                 | 48.9     |          |          |        |        |         | 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   |         | 1.5       | 0.55                     | 2.32                                |
| 250816-019-GP              | 16/08/25             | 385                   | 29.1               | 165         | 4:00      | 2         | 35.4                 | 47.4     |          | 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                                |
| 250621-499-GP              | 21/06/25             | 375                   | 27.8               | 150         | 3:45      | 1         | 34.0                 | 47.7     | 63.0     | 100      | 27.5   | 39.0   | 49.5    | 1.3       | 0.54                     | 2.29                                |
| 250612-189-GP              | 12/06/25             | 375                   | 29.0               | 165         | 3:45      | 1         | 35.8                 | 49.3     | 65.0     |          |        |        |         | 1.5       | 0.55                     | 2.31                                |
| 250608-041-GP              | 08/06/25             | 390                   | 29.0               | 165         | 3:45      | 1         | 34.8                 | 46.9     | 62.2     | 80       | 30.5   | 41.0   | 52.0    | 1.5       | 0.55                     | 2.35                                |
| 250605-917-GP              | 05/06/25             | 385                   | 28.8               | 150         | 4:30      | 1         | 36.4                 | 50.8     | 66.4     |          |        |        |         | 1.4       | 0.54                     | 2.23                                |

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

This Report must not be reproduced except in full

Vincent Lane  
Works Chemist



Portland Works, Portland, Whangarei 0178

Date issued: 26/09/2025

Page 1 of 3

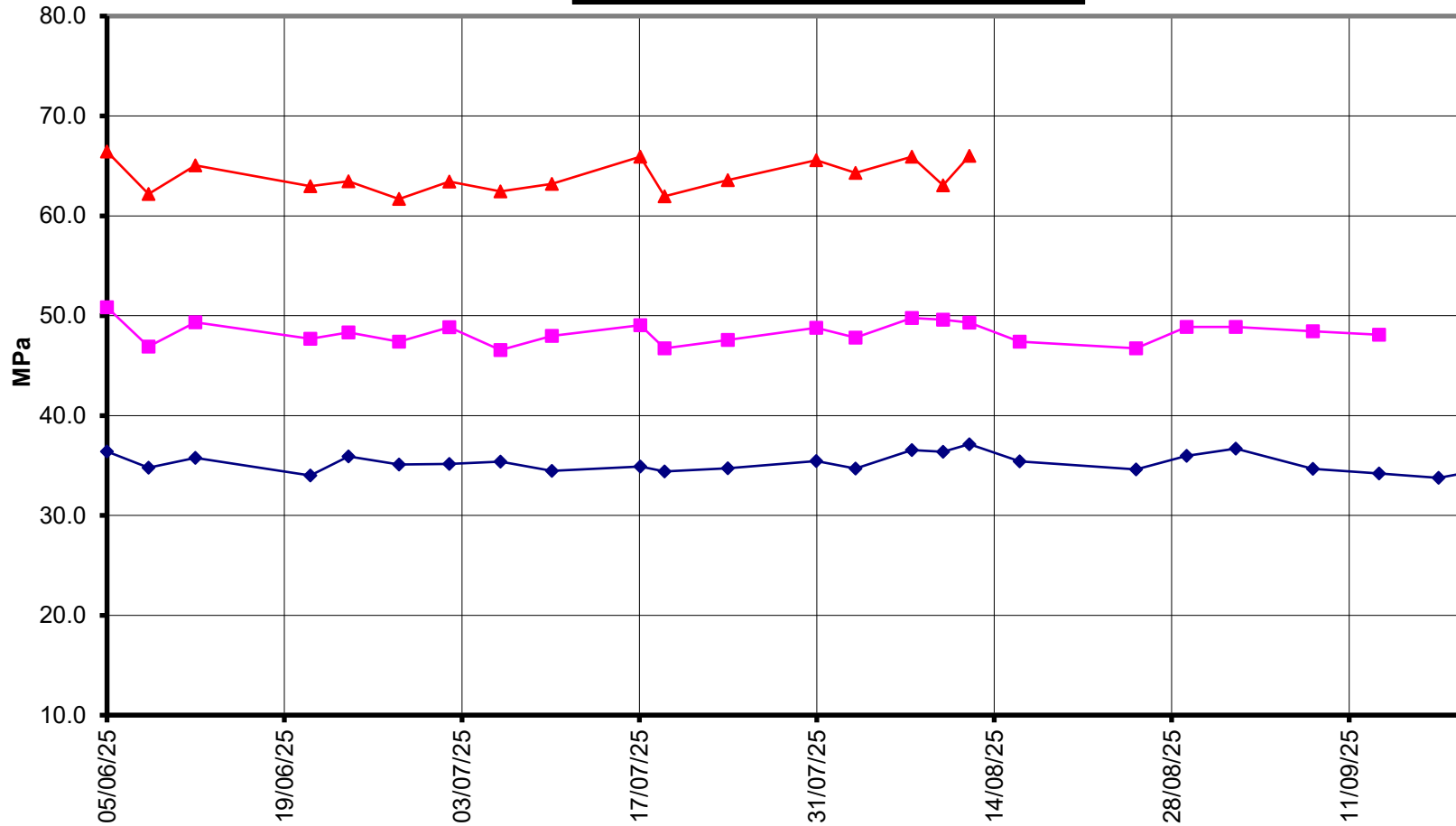


# EcoSure® Type GP Cement

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



28 Days    7 Days    3 Days



Date





# EcoSure® Type GP Cement

## Compressive Strength Concrete (Bulk Dispatch)



—x— 28 Days    —■— 7 Days    —◆— 3 Days    —x— Slump

