



CERTIFICATE OF QUALITY

EcoSure® Type GP Cement

NZS3122:2009 (Bulk & Bag Dispatch)



Issued to: National Sales Manager

Test Report No: 25#170

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 ₃) |
|----------------------------|----------------------|-----------------------|--------------------|-------------|-----------|-----------|----------------------|----------|----------|----------|--------|--------|---------|-----------|--------------------------|-------------------------------------|
| | | | | | | | ISOCEN | | | Concrete | | | | | | |
| | | | | | | | 3 days | 7 days | 28 days | Slump | 3 days | 7 days | 28 days | | | |
| Mean | | 381 | 29.1 | 159 | 4:00 | 1 | 35.0 | 48.3 | 64.1 | 96 | 27.6 | 37.6 | 48.0 | 1.5 | 0.55 | 2.31 |
| Standard Deviation | | 11 | 0.2 | 8 | 0:10 | 0.4 | 0.9 | 0.8 | 1.5 | 10 | 2.1 | 2.6 | 3.3 | 0.1 | 0.02 | 0.03 |
| Min | | 360 | 28.3 | 150 | 3:45 | 0 | 33.8 | 46.7 | 61.7 | 80 | 24.0 | 32.0 | 44.0 | 1.3 | 0.52 | 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 | 2.38 |
| 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 ² /kg | % | minutes | hrs:mins | mm | MPa | MPa | MPa | mm | MPa | MPa | MPa | % | % | % |
| 251029-929-GP | 29/10/25 | 380 | 29.1 | 165 | 4:00 | 1 | 34.9 | | | 80 | 28.5 | | | 1.8 | 0.55 | 2.32 |
| 251023-786-GP | 23/10/25 | 395 | 29.1 | 165 | 4:00 | 1 | 34.9 | 48.6 | | 110 | 26.5 | 36.0 | | 1.6 | 0.52 | 2.32 |
| 251020-784-GP | 20/10/25 | 385 | 29.2 | 165 | 4:00 | 1 | 35.3 | 48.8 | | | | | | 1.4 | 0.53 | 2.30 |
| 251016-271-GP | 16/10/25 | 360 | 29.2 | 165 | 4:15 | 1 | 33.9 | 48.6 | | | | | | 1.6 | 0.56 | 2.35 |
| 251013-253-GP | 13/10/25 | 370 | 29.2 | 165 | 4:15 | 1 | 33.8 | 46.8 | | 100 | 24.0 | 32.0 | | 1.5 | 0.56 | 2.31 |
| 251004-986-GP | 04/10/25 | 375 | 28.3 | 165 | 4:00 | 1 | 34.8 | 48.8 | | 110 | 26.0 | 35.0 | | 1.3 | 0.57 | 2.26 |
| 251001-825-GP | 01/10/25 | 385 | 29.1 | 150 | 3:45 | 1 | 34.3 | 48.2 | 62.4 | | | | | 1.5 | 0.58 | 2.32 |
| 250928-815-GP | 28/09/25 | 395 | 29.2 | 165 | 4:00 | 1 | 35.2 | 47.8 | 63.4 | 110 | 28.5 | 37.0 | 46.0 | 1.4 | 0.58 | 2.30 |
| 250924-676-GP | 24/09/25 | 375 | 29.1 | 165 | 4:00 | 1 | 34.7 | 48.3 | 63.9 | 80 | 26.0 | 37.0 | 44.0 | 1.3 | 0.58 | 2.27 |
| 250920-413-GP | 20/09/25 | 370 | 29.1 | 165 | 4:00 | 1 | 34.2 | 48.3 | 65.0 | 110 | 24.0 | 35.5 | 44.0 | 1.4 | 0.58 | 2.22 |
| 250918-411-GP | 18/09/25 | 385 | 29.1 | 150 | 4:00 | 2 | 33.8 | 47.9 | 63.3 | | | | | 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 |

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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Vincent Lane
Works Chemist



Portland Works, Portland, Whangarei 0178

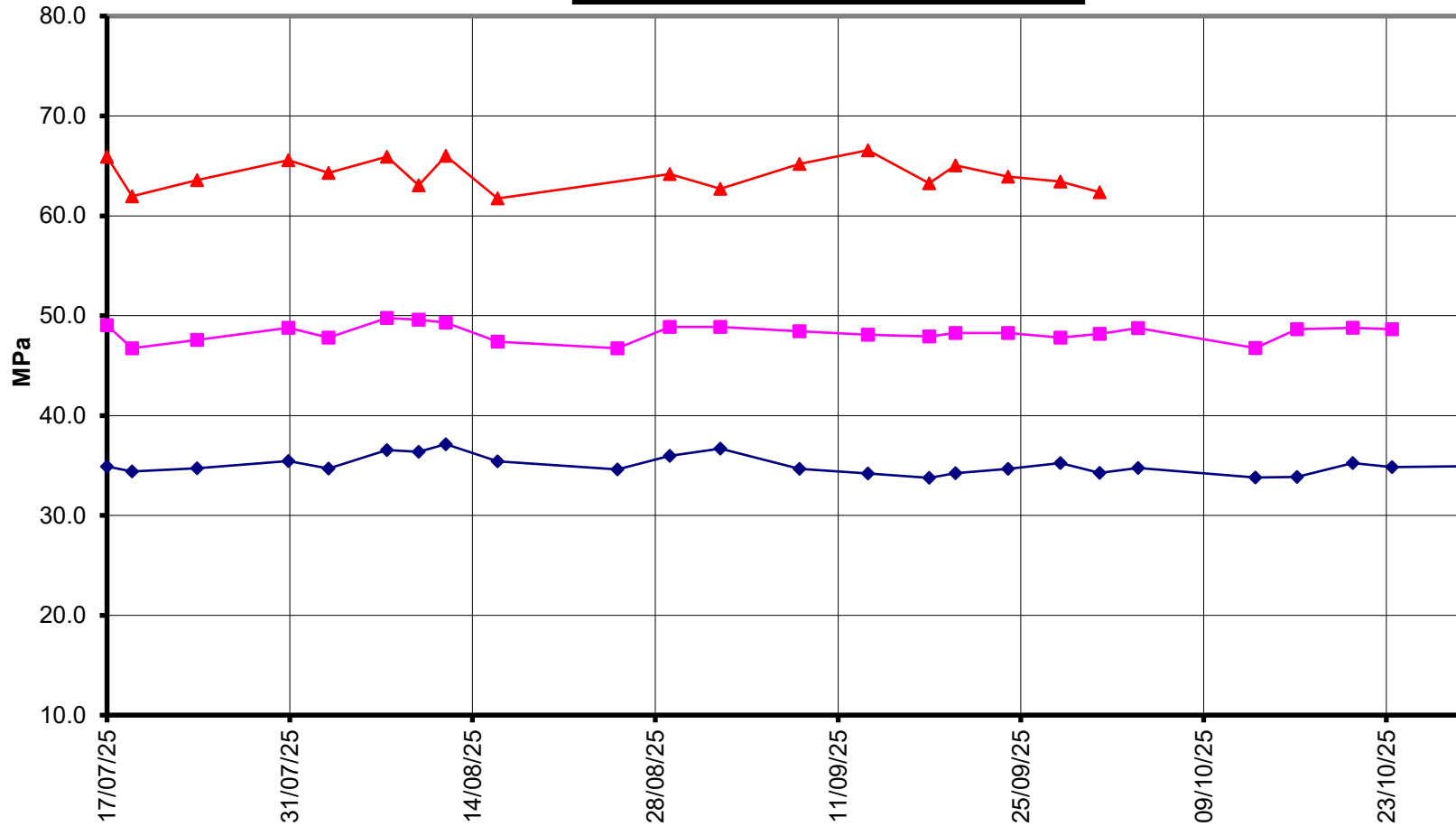
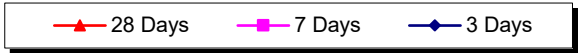
Date issued: 7/11/2025

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EcoSure® Type GP Cement

Compressive Strength ISO-CEN Mortar (Bulk Dispatch)





EcoSure® Type GP Cement

Compressive Strength Concrete (Bulk Dispatch)



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

