



CERTIFICATE OF QUALITY

EverSure™ Type GP Cement

NZS3122:2009 (Bulk Despatch)



Our
NZ made
cement is
genuine
NZ grade
cement.

Issued to: National Sales Manager

Test Report No: 22#28

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 (SO3) |
|----------------------------|----------------------|-----------------------|--------------------|-------------|-----------|-----------|----------------------|----------|----------|----------|--------|--------|---------|-----------|--------------------------|------------------------|
| | | | | | | | ISOCEN | | | Concrete | | | | | | |
| | | | | | | | 3 days | 7 days | 28 days | Slump | 3 days | 7 days | 28 days | | | |
| Mean | | 334 | 28.9 | 137 | 3:40 | 1 | 31.1 | 43.0 | 64.7 | 93 | 22.8 | 33.1 | 46.7 | 1.7 | 0.56 | 2.3 |
| Standard Deviation | | 9 | 0.5 | 10 | 0:17 | 0 | 0.9 | 1.1 | 1.1 | 7 | 2.4 | 3.4 | 3.5 | 0.2 | 0.01 | 0.07 |
| Min | | 310 | 28.2 | 120 | 3:15 | 1 | 28.8 | 40.1 | 63.4 | 80 | 20.2 | 26.5 | 42.0 | 1.4 | 0.54 | 2.2 |
| Max | | 350 | 30.4 | 150 | 4:15 | 2 | 32.7 | 44.8 | 66.7 | 100 | 26.5 | 39.7 | 51.7 | 2.3 | 0.58 | 2.4 |
| NZS 3122:2009 Requirements | | | | 45 min | 6:00 max | 5 max | | 35.0 min | 45.0 min | | | | | | 0.6 max | 3.5 max |
| Units | | m2/kg | % | minutes | hrs:mins | mm | MPa | MPa | MPa | mm | MPa | MPa | MPa | % | % | % |
| 220317-660-GP | 17/03/22 | 335 | 28.9 | 150 | 3:45 | 2 | 30.4 | | | 90 | 25.6 | | | 1.9 | 0.56 | 2.2 |
| 220310-136-GP | 10/03/22 | 340 | 30.0 | 150 | 4:15 | 1 | 32.4 | 44.4 | | | | | | 2.3 | 0.57 | 2.3 |
| 220306-133-GP | 06/03/22 | 330 | 29.3 | 150 | 4:15 | 1 | 30.6 | 41.8 | | 80 | 24.3 | 35.9 | | 2.1 | 0.57 | 2.3 |
| 220228-856-GP | 28/02/22 | 350 | 29.0 | 150 | 3:30 | 1 | 29.8 | 43.1 | | 90 | 25.6 | 39.7 | | 1.6 | 0.57 | 2.3 |
| 220226-646-GP | 26/02/22 | 345 | 29.1 | 135 | 3:30 | 2 | 31.3 | 43.3 | | 100 | 22.4 | 30.8 | | 1.4 | 0.56 | 2.4 |
| 220221-648-GP | 21/02/22 | 335 | 29.0 | 135 | 3:30 | 1 | 31.5 | 44.8 | | 100 | 21.9 | 31.2 | | 1.6 | 0.57 | 2.2 |
| 220217-261-GP | 17/02/22 | 330 | 29.6 | 135 | 4:15 | 2 | 31.4 | 41.8 | 65.8 | 90 | 26.5 | 36.3 | 51.7 | 1.5 | 0.56 | 2.3 |
| 220215-259-GP | 15/02/22 | 335 | 29.2 | 135 | 4:15 | 1 | 31.8 | 43.3 | 66.5 | | | | | 1.5 | 0.57 | 2.2 |
| 220214-907-GP | 10/02/22 | 340 | 30.4 | 120 | 3:45 | 1 | 32.7 | 44.4 | 66.7 | | | | | 1.7 | 0.55 | 2.4 |
| 220214-906-GP | 08/02/22 | 335 | 29.0 | 120 | 3:30 | 1 | 32.0 | 44.1 | 64.9 | 100 | 20.2 | 31.5 | 47.8 | 1.8 | 0.54 | 2.4 |
| 220206-419-GP | 06/02/22 | 340 | 29.2 | 135 | 3:45 | 1 | 31.8 | 43.4 | 63.4 | | | | | 1.6 | 0.54 | 2.4 |
| 220204-417-GP | 04/02/22 | 335 | 29.1 | 150 | 3:45 | 1 | 30.7 | 43.1 | 63.6 | 80 | 25.6 | 34.6 | 49.4 | 1.6 | 0.56 | 2.4 |
| 220129-097-GP | 29/01/22 | 330 | 29.1 | 135 | 3:45 | 1 | 30.6 | 42.9 | 64.7 | 100 | 20.7 | 26.5 | 43.2 | 1.8 | 0.55 | 2.4 |
| 220126-095-GP | 26/01/22 | 325 | 29.1 | 135 | 3:30 | 1 | 30.8 | 43.4 | 64.1 | | | | | 1.6 | 0.56 | 2.3 |
| 220120-744-GP | 20/01/22 | 335 | 28.6 | 120 | 3:15 | 2 | 30.3 | 43.1 | 64.8 | 90 | 24.3 | 36.0 | 50.8 | 2.1 | *0.53 | *2.3 |
| 220119-742-GP | 19/01/22 | 340 | 28.4 | 120 | 3:30 | 1 | 31.8 | 43.9 | 66.2 | | | | | 1.8 | *0.52 | *2.4 |
| 220114-472-GP | 14/01/22 | 340 | 28.4 | 135 | 3:30 | 2 | 30.7 | 43.3 | 64.9 | 90 | 20.2 | 32.3 | 45.4 | 1.9 | *0.53 | *2.2 |
| 220109-465-GP | 09/01/22 | 350 | 28.3 | 150 | 3:30 | 1 | 30.4 | 41.3 | 64.5 | | | | | 1.7 | *0.55 | *2.3 |
| 220106-870-GP | 06/01/22 | 320 | 28.6 | 150 | 3:30 | 1 | 30.8 | 42.6 | 64.2 | | | | | 1.6 | 0.55 | 2.2 |
| 220102-868-GP | 02/01/22 | 310 | 28.5 | 135 | 3:30 | 1 | 31.3 | 42.5 | 63.7 | | | | | 1.5 | 0.54 | 2.2 |
| 211229-866-GP | 29/12/21 | 340 | 28.4 | 135 | 3:30 | 1 | 31.3 | 42.1 | 63.4 | 100 | 21.1 | 31.1 | 43.2 | 1.6 | 0.56 | 2.2 |
| 211226-864-GP | 26/12/21 | 340 | 28.6 | 135 | 3:30 | 1 | 31.7 | 42.9 | 64.0 | 100 | 20.8 | 31.2 | 42.0 | 1.7 | 0.56 | 2.2 |
| 211221-856-GP | 21/12/21 | 325 | 28.3 | 135 | 3:30 | 1 | 32.6 | 44.8 | 66.0 | | | | | 1.6 | 0.57 | 2.2 |
| 211219-854-GP | 19/12/21 | 325 | 28.4 | 135 | 3:30 | 1 | 31.0 | 42.5 | 63.8 | 90 | 20.5 | 33.4 | 46.5 | 1.6 | 0.55 | 2.2 |
| 211217-592-GP | 17/12/21 | 325 | 28.2 | 150 | 3:45 | 1 | 28.8 | 40.1 | 63.8 | | | | | 2.2 | 0.58 | 2.3 |

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 C114-18

- Concrete Compressive Strength test results outside the scope of accreditation

No result available at time of certificate issue
* Tested by SpectraChem Analyticsl - Verrum Group

This Report must not be reproduced except in full

Raki Harding
Quality Manager

Date issued: 25/03/2022



Portland Works, Portland, Whangarei 0178

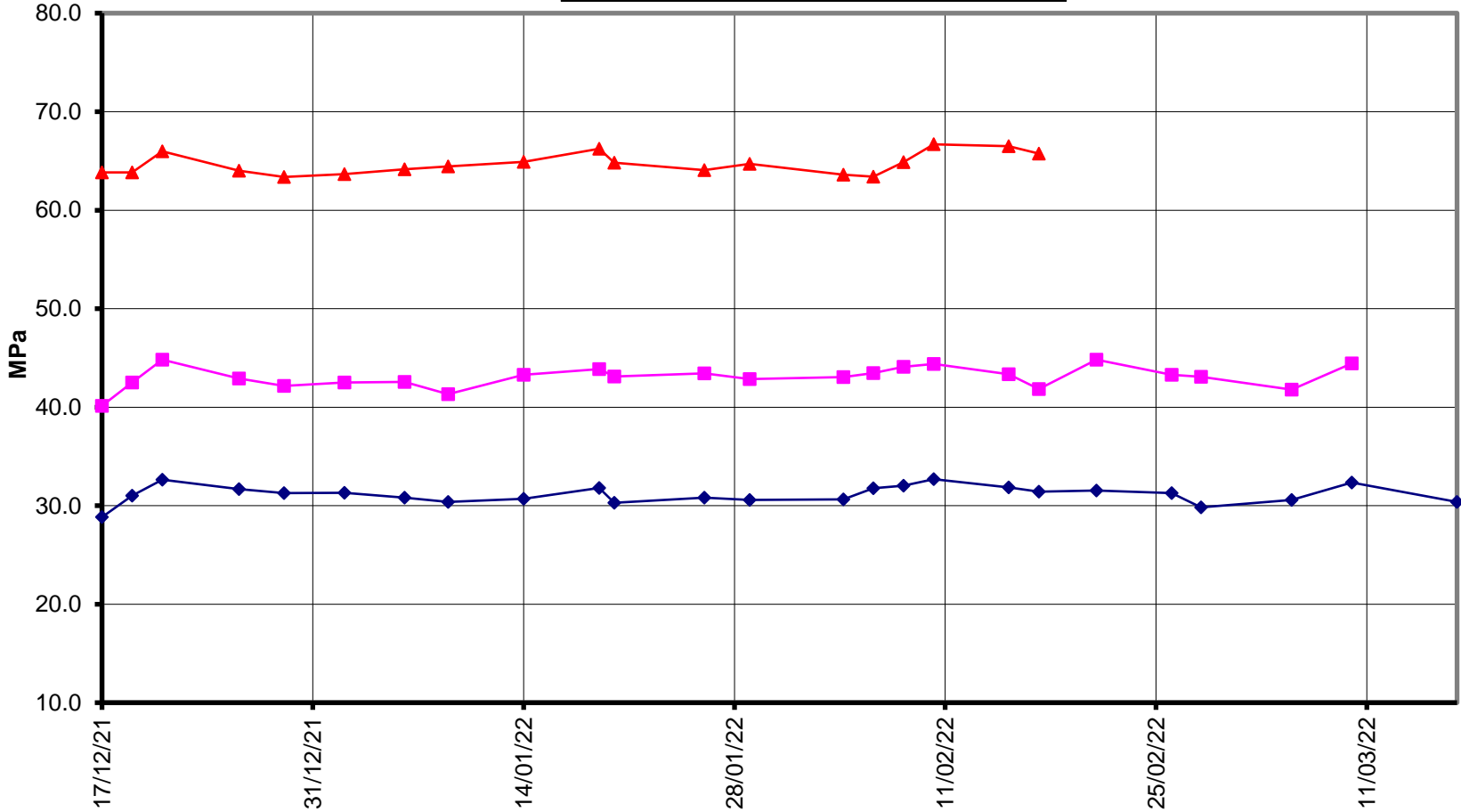
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**EverSure™
Type GP Cement**



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



Date





EverSure™ Type GP Cement



Compressive Strength Concrete (Bulk Dispatch)

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

