



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: 21#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 (SO3) |
|----------------------------|----------------------|-----------------------|--------------------|-------------|-----------|-----------|----------------------|----------|----------|----------|--------|--------|---------|-----------|--------------------------|------------------------|
| | | | | | | | ISOCEN | | | Concrete | | | | | | |
| | | | | | | | 3 days | 7 days | 28 days | Slump | 3 days | 7 days | 28 days | | | |
| Mean | | 342 | 29.4 | 126 | 3:24 | 1 | 31.0 | 43.3 | 65.1 | 95 | 23.5 | 32.5 | 45.1 | 2.3 | 0.55 | 2.3 |
| Standard Deviation | | 10 | 0.1 | 10 | 0:12 | 0 | 0.7 | 0.8 | 0.9 | 5 | 1.6 | 2.1 | 1.5 | 0.3 | 0.01 | 0.06 |
| Min | | 320 | 29.2 | 105 | 3:00 | 0 | 29.8 | 42.0 | 63.6 | 90 | 21.5 | 29.0 | 43.4 | 1.9 | 0.53 | 2.2 |
| Max | | 360 | 29.7 | 135 | 3:45 | 2 | 32.5 | 44.6 | 66.8 | 100 | 27.1 | 36.1 | 47.8 | 3.0 | 0.57 | 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 | % | % | % |
| 210716-927-GP | 16/07/21 | 340 | 29.4 | 120 | 3:30 | 0 | 30.6 | | | | | | | 2.2 | 0.56 | 2.2 |
| 210713-718-GP | 13/07/21 | 335 | 29.4 | 120 | 3:30 | 1 | 30.8 | | | 90 | 25.7 | | | 2.1 | 0.56 | 2.2 |
| 210708-408-GP | 08/07/21 | 335 | 29.3 | 135 | 3:45 | 1 | 30.9 | 44.2 | | 90 | 23.1 | 34.8 | | 2.2 | 0.57 | 2.2 |
| 210701-292-GP | 01/07/21 | 335 | 29.2 | 120 | 3:30 | 1 | 31.2 | 44.4 | | 90 | 23.5 | 31.6 | | 2.3 | 0.57 | 2.3 |
| 210628-294-GP | 28/06/21 | 330 | 29.3 | 120 | 3:15 | 1 | 30.5 | 44.6 | | | | | | 2.4 | 0.57 | 2.2 |
| 210623-681-GP | 23/06/21 | 325 | 29.4 | 135 | 3:45 | 1 | 31.8 | 42.2 | | 90 | 21.5 | 30.8 | | 2.3 | 0.53 | 2.2 |
| 210620-683-GP | 20/06/21 | 330 | 29.4 | 135 | 3:30 | 1 | 31.6 | 42.1 | | | | | | 2.7 | 0.54 | 2.2 |
| 210617-377-GP | 17/06/21 | 360 | 29.5 | 120 | 3:15 | 2 | 29.8 | 42.0 | 63.6 | | | | | 3.0 | 0.54 | 2.3 |
| 210614-374-GP | 14/06/21 | 355 | 29.4 | 120 | 3:30 | 2 | 30.3 | 43.4 | 64.4 | 100 | 22.9 | 29.5 | 43.4 | 2.6 | 0.54 | 2.2 |
| 210612-062-GP | 12/06/21 | 345 | 29.3 | 135 | 3:30 | 1 | 31.3 | 43.4 | 66.3 | | | | | 2.2 | 0.55 | 2.3 |
| 210609-060-GP | 09/06/21 | 350 | 29.4 | 135 | 3:30 | 2 | 31.3 | 44.1 | 65.9 | 100 | 25.2 | 33.7 | 46.7 | 2.2 | 0.54 | 2.2 |
| 210601-655-GP | 01/06/21 | 340 | 29.3 | 135 | 3:15 | 2 | 30.3 | 44.5 | 66.8 | 90 | 23.6 | 33.6 | 45.3 | 2.0 | 0.55 | 2.2 |
| 210530-657-GP | 30/05/21 | 350 | 29.3 | 135 | 3:30 | 2 | 30.3 | 44.3 | 64.7 | | | | | 2.1 | 0.54 | 2.2 |
| 210528-291-GP | 28/05/21 | 345 | 29.4 | 105 | 3:00 | 1 | 31.6 | 43.7 | 64.1 | | | | | 2.3 | 0.56 | 2.4 |
| 210524-289-GP | 24/05/21 | 335 | 29.3 | 120 | 3:15 | 2 | 31.5 | 43.6 | 66.3 | 90 | 23.6 | 33.9 | 47.8 | 2.3 | 0.55 | 2.4 |
| 210521-984-GP | 21/05/21 | 340 | 29.3 | 135 | 3:30 | 1 | 31.1 | 42.6 | 65.2 | | | | | 2.2 | *0.51 | *2.5 |
| 210518-982-GP | 18/05/21 | 350 | 29.5 | 135 | 3:45 | 1 | 30.8 | 42.6 | 65.8 | 100 | 22.4 | 30.9 | 44.3 | 2.5 | *0.49 | *2.5 |
| 210513-647-GP | 13/05/21 | 345 | 29.5 | 135 | 3:30 | 0 | 30.1 | 43.1 | 64.7 | | | | | 2.2 | *0.5 | *2.5 |
| 210510-645-GP | 10/05/21 | 345 | 29.6 | 120 | 3:15 | 2 | 30.3 | 42.3 | 64.7 | 100 | 22.1 | 33.3 | 46.2 | 2.5 | *0.51 | *2.5 |
| 210506-320-GP | 06/05/21 | 320 | 29.7 | 120 | 3:15 | 2 | 30.5 | 43.3 | 64.2 | | | | | 2.4 | *0.51 | *2.4 |
| 210502-318-GP | 02/05/21 | 330 | 29.7 | 120 | 3:30 | 1 | 30.8 | 43.5 | 64.2 | 100 | 22.5 | 29.0 | 43.4 | 2.0 | *0.52 | *2.5 |
| 210427-023-GP | 27/04/21 | 340 | 29.4 | 120 | 3:15 | 2 | 31.0 | 43.8 | 65.5 | | | | | 1.9 | *0.47 | *2.5 |
| 210424-021-GP | 24/04/21 | 350 | 29.5 | 135 | 3:30 | 1 | 30.5 | 43.1 | 64.6 | 100 | 22.1 | 32.8 | 43.8 | 2.4 | *0.52 | *2.5 |
| 210420-700-GP | 20/04/21 | 355 | 29.5 | 135 | 3:15 | 1 | 32.5 | 42.5 | 65.5 | 90 | 27.1 | 36.1 | 45.4 | 1.9 | *0.53 | *2.5 |
| 210418-702-GP | 18/04/21 | 355 | 29.5 | 105 | 3:00 | 2 | 32.3 | 43.3 | 65.1 | | | | | 2.1 | *0.49 | *2.5 |

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

Sample retested
No result available at time of certificate issue
* Tested by SpectraChem Analytical - Verum Group

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Raki Harding
Technical Manager

Date issued: 23/07/2021



Portland Works, Portland, Whangarei 0178

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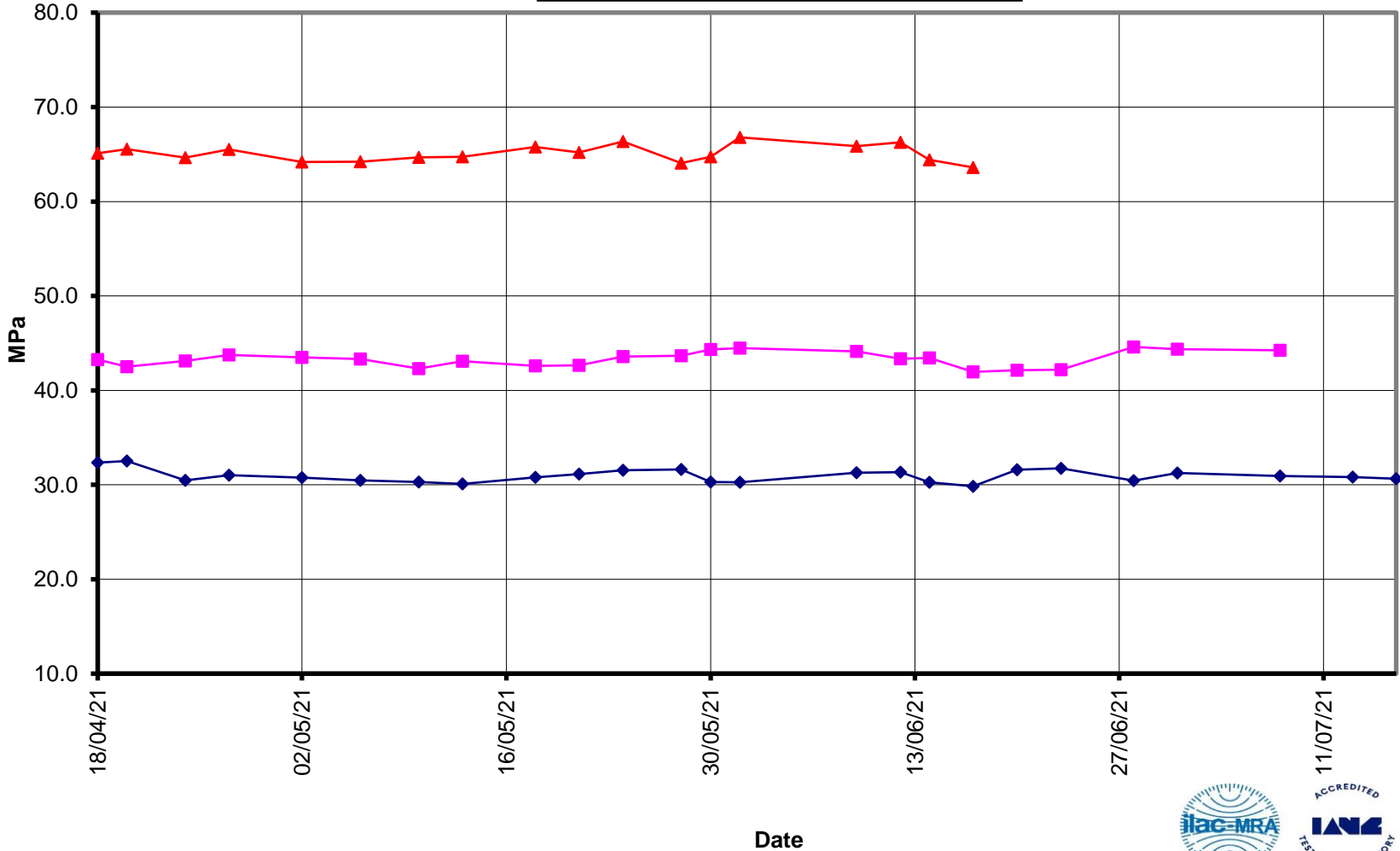


**EverSure™
Type GP Cement**



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

—▲— 28 Days —■— 7 Days —◆— 3 Days





EverSure™ Type GP Cement



Compressive Strength Concrete (Bulk Dispatch)

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

