



# CERTIFICATE OF QUALITY

## EverFast™ Type HE Cement

NZS 3122:2009



Our  
NZ made  
cement is  
**genuine**  
NZ grade  
cement.

Issued to: *Technical Sales Manager*

Test Report No: 21#55

info@goldenbay.co.nz

| Code                       | Week Ending | Specific Surface Area | Normal Consistency | Initial Set | Final Set | Soundness | Compressive Strength |          |          |         |          |       |        |        | Free Lime | Sodium Equivalent (NaEq) | Sulphur Trioxide (SO3) |         |
|----------------------------|-------------|-----------------------|--------------------|-------------|-----------|-----------|----------------------|----------|----------|---------|----------|-------|--------|--------|-----------|--------------------------|------------------------|---------|
|                            |             |                       |                    |             |           |           | ISO-CEN              |          |          |         | Concrete |       |        |        |           |                          |                        |         |
|                            |             |                       |                    |             |           |           | 1 Day                | 3 days   | 7 days   | 28 days | Slump    | 1 Day | 3 days | 7 days |           |                          |                        | 28 days |
| Mean                       |             | 517                   | 33.3               | 113         | 2:57      | 1         | 22.1                 | 40.0     | 49.8     | 66.2    | 81.6     | 17.1  | 33.3   | 40.0   | 51.9      | 1.8                      | 0.56                   | 2.4     |
| Standard Deviation         |             | 19                    | 0.2                | 13          | 0:20      | 0.6       | 1.3                  | 2.1      | 2.1      | 1.9     | 5.5      | 1.9   | 1.7    | 1.9    | 1.7       | 0.3                      | 0.02                   | 0.06    |
| Min                        |             | 490                   | 32.8               | 90          | 2:00      | 0         | 20.2                 | 35.7     | 46.6     | 63.4    | 75.0     | 13.4  | 29.7   | 36.3   | 48.7      | 0.9                      | 0.51                   | 2.3     |
| Max                        |             | 565                   | 33.8               | 135         | 3:30      | 2         | 24.9                 | 44.1     | 54.8     | 70.5    | 95.0     | 21.3  | 37.8   | 43.9   | 55.1      | 2.3                      | 0.59                   | 2.6     |
| NZS 3122:2009 Requirements |             |                       |                    | 45 min      | 6:00 max  | 5 max     |                      | 25.0 min | 40.0 min |         |          |       |        |        |           |                          | 0.6 max                | 3.5 max |
| Units                      |             | m2/kg                 | %                  | minutes     | hrs:mins  | mm        | Mpa                  | MPa      | MPa      | MPa     | mm       | Mpa   | MPa    | MPa    | MPa       | %                        | %                      | %       |
| 210308-448-HE              | 08/03/21    | 530                   | 33.4               | 120         | 3:15      | 2         | 24.6                 | 40.2     |          |         | 80       | 20.4  | 37.8   |        |           | 1.8                      | 0.57                   | 2.6     |
| 210225-719-HE              | 25/02/21    | 505                   | 33.5               | 120         | 3:00      | 2         | 24.3                 | 41.2     | 53.5     |         | 80       | 21.3  | 36.3   | 42.3   |           | 1.7                      | 0.54                   | 2.4     |
| 210211-958-HE              | 11/02/21    | 520                   | 33.5               | 120         | 3:15      | 1         | 22.4                 | 43.6     | 54.8     | 68.0    | 85       | 19.1  | 36.4   | 42.3   | 50.4      | 1.4                      | 0.57                   | 2.3     |
| 210128-470-HE              | 28/01/21    | 490                   | 33.5               | 135         | 3:30      | 1         | 22.9                 | 44.1     | 53.5     | 70.5    | 90       | 15.7  | 32.7   | 39.9   | 48.7      | 1.7                      | 0.56                   | 2.4     |
| 210113-181-HE              | 13/01/21    | 520                   | 33.7               | 120         | 3:00      | 1         | 20.8                 | 40.7     | 50.4     | 65.2    | 80       | 16.8  | 34.5   | 40.4   | 51.4      | 1.8                      | 0.55                   | 2.4     |
| 201230-567-HE              | 30/12/20    | 500                   | 33.8               | 120         | 3:15      | 2         | 22.8                 | 39.0     | 50.2     | 66.5    | 80       | 15.9  | 32.5   | 38.7   | 54.6      | 1.9                      | 0.57                   | 2.4     |
| 201217-856-HE              | 17/12/20    | 540                   | 33.7               | 90          | 2:30      | 2         | 22.4                 | 36.4     | 48.7     | 67.2    | 80       | 15.1  | 32.7   | 41.8   | 54.1      | 1.9                      | 0.55                   | 2.4     |
| 201204-132-HE              | 04/12/20    | 495                   | 33.0               | 105         | 3:00      | 1         | 21.1                 | 38.7     | 49.7     | 65.2    | 80       | 16.9  | 34.2   | 39.8   | 51.5      | 2.0                      | 0.57                   | 2.4     |
| 201117-404-HE              | 17/11/20    | 510                   | 33.1               | 90          | 2:45      | 1         | 21.7                 | 38.5     | 48.5     | 67.5    | 75       | 17.8  | 32.8   | 37.5   | 50.1      | 1.7                      | 0.56                   | 2.4     |
| 201104-524-HE              | 04/11/20    | 540                   | 33.1               | 90          | 2:30      | 1         | 21.5                 | 40.6     | 51.1     | 65.7    | 80       | 17.0  | 33.8   | 40.2   | 51.2      | 1.8                      | 0.56                   | 2.4     |
| 201020-029-HE              | 20/10/20    | 500                   | 33.2               | 90          | 2:30      | 2         | 20.8                 | 37.2     | 47.1     | 66.2    | 75       | 16.0  | 32.2   | 37.7   | 54.7      | 2.0                      | 0.59                   | 2.4     |
| 201006-126-HE              | 06/10/20    | 500                   | 33.2               | 120         | 3:15      | 1         | 21.1                 | 38.3     | 48.5     | 66.5    | 75       | 16.4  | 31.7   | 39.2   | 52.9      | 2.3                      | 0.58                   | 2.3     |
| 200925-331-HE              | 25/09/20    | 500                   | 33.2               | 105         | 2:45      | 2         | 21.1                 | 35.7     | 50.5     | 69.3    | 80       | 15.7  | 33.6   | 40.6   | 52.8      | 1.6                      | 0.55                   | 2.4     |
| 200909-852-HE              | 09/09/20    | 500                   | 33.3               | 105         | 2:00      | 1         | 20.9                 | 40.1     | 48.3     | 68.6    | 80       | 13.4  | 29.7   | 36.3   | 51.1      | 2.0                      | 0.59                   | 2.4     |
| 200827-153-HE              | 27/08/20    | 510                   | 33.3               | 135         | 3:15      | 1         | 20.2                 | 37.6     | 46.6     | 63.9    | 75       | 15.8  | 33.4   | 42.7   | 51.2      | 2.1                      | 0.59                   | 2.3     |
| 200817-662-HE              | 17/08/20    | 510                   | 33.4               | 105         | 3:00      | 2         | 20.7                 | 41.6     | 49.4     | 66.7    | 75       | 19.3  | 32.8   | 40.7   | 52.0      | 1.5                      | 0.52                   | 2.3     |
| 200717-316-HE              | 17/07/20    | 550                   | 33.1               | 120         | 2:45      | 1         | 21.7                 | 41.4     | 51.5     | 67.5    | 85       | 18.3  | 32.5   | 38.0   | 51.6      | 2.0                      | 0.54                   | 2.3     |
| 200708-615-HE              | 08/07/20    | 510                   | 33.1               | 120         | 3:00      | 1         | 20.9                 | 38.5     | 47.6     | 63.9    | 80       | 16.2  | 33.0   | 40.3   | 55.1      | 2.1                      | 0.51                   | 2.4     |
| 200625-903-HE              | 25/06/20    | 530                   | 33.1               | 120         | 3:00      | 2         | 22.8                 | 40.3     | 47.4     | 64.9    | 80       | 16.8  | 33.2   | 38.7   | 51.6      | 1.8                      | 0.56                   | 2.4     |
| 200611-206-HE              | 11/06/20    | 515                   | 33.0               | 105         | 2:45      | 2         | 22.5                 | 40.7     | 49.3     | 64.6    | 90       | 20.2  | 33.3   | 42.5   | 51.2      | 1.5                      | 0.55                   | 2.4     |
| 200517-029-HE              | 17/05/20    | 510                   | 33.0               | 120         | 2:45      | 2         | 22.0                 | 39.7     | 48.4     | 64.7    | 80       | 14.5  | 32.2   | 39.7   | 49.2      | 2.0                      | 0.55                   | 2.4     |
| 200430-036-HE              | 30/04/20    | 535                   | 33.2               | 120         | 3:30      | 1         | 23.3                 | 42.9     | 52.2     | 66.7    | 80       | 18.4  | 34.6   | 43.9   | 51.5      | 1.9                      | 0.53                   | 2.4     |
| 200317-594-HE              | 17/03/20    | 525                   | 32.8               | 120         | 3:15      | 0         | 22.1                 | 39.6     | 48.5     | 63.6    | 95       | 15.8  | 31.2   | 38.5   | 51.4      | 1.6                      | 0.52                   | 2.4     |
| 200305-833-HE              | 05/03/20    | 525                   | 33.2               | 105         | 3:00      | 1         | 22.0                 | 40.7     | 50.2     | 63.4    | 90       | 16.3  | 33.3   | 39.9   | 54.2      | 1.3                      | 0.55                   | 2.3     |
| 200216-042-HE              | 16/02/20    | 565                   | 33.4               | 120         | 3:00      | 1         | 24.9                 | 42.6     | 49.9     | 65.8    | 90       | 17.8  | 32.2   | 38.7   | 50.3      | 0.9                      | 0.58                   | 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 Analysis to ASTM C114-18
- Concrete Compressive Strength test results outside the scope of accreditation

- Sample tested @ 50 days
- # -No result available at time of certificate issue

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Vincent Lane  
Works Chemist



Portland Works, Portland, Whangarei 0178

Date issued: 19/03/21

Page 1 of 3

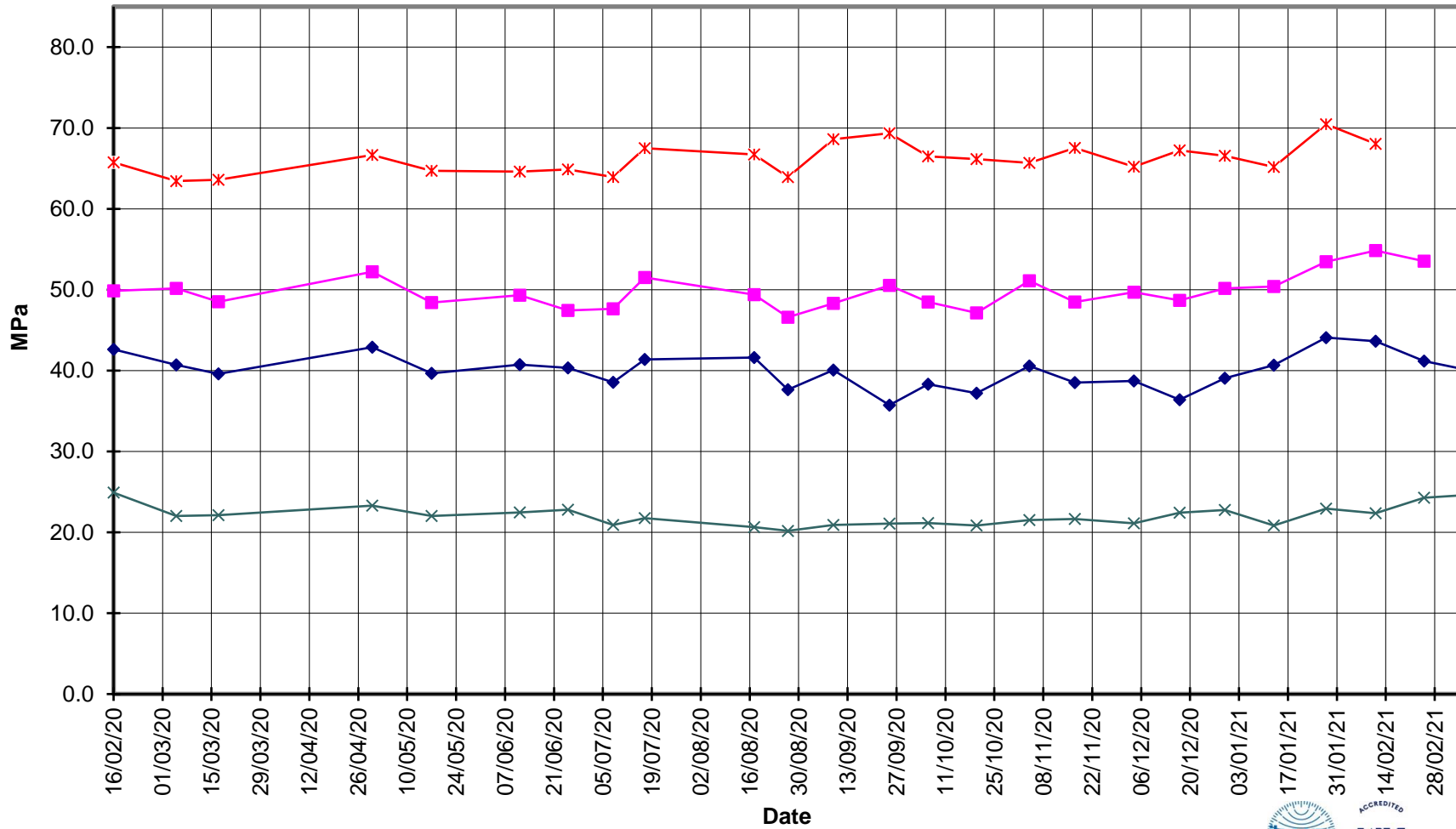


# EverFast™ Type HE Cement



## Compressive Strength ISO-CEN Mortar

—x— 28 Days    —■— 7 Days    —◆— 3 Days    —x— 1 Day





**EverFast™  
Type HE Cement**



**Compressive Strength Concrete**

—x— 28 Days —■— 7 Days —◆— 3 Days —x— 1 Day —\*— Slump

