



# CERTIFICATE OF QUALITY

## EcoSure® Type GP Cement

NZS3122:2009 (Bulk & Bag Dispatch)



Issued to: National Sales Manager

Test Report No: 26#33

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			Slump	Concrete					
							3 days	7 days	28 days		3 days	7 days				28 days
Mean		384	29.1	164	3:57	1	35.7	49.3	64.4	100	27.4	36.7	47.0	1.4	0.55	2.32
Standard Deviation		10	0.1	10	0:07	0.3	1.2	1.3	1.5	10	2.4	2.8	2.9	0.1	0.01	0.05
Min		365	28.9	150	3:45	0	33.5	45.9	61.8	80	24.0	33.5	43.0	1.1	0.53	2.24
Max		400	29.3	180	4:15	2	38.0	51.8	68.1	110	31.5	43.0	54.5	1.6	0.57	2.47
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	%	%	%
260226-351-GP	26/02/26	385	29.1	180	4:00	1	35.5	49.3		110	29.5			1.4	0.54	2.32
260221-349-GP	21/02/26	400	29.1	180	4:00	1	35.2	49.3						1.3	0.55	2.32
260218-877-GP	18/02/26	385	29.1	165	3:45	1	37.7	50.9						1.3	0.55	2.26
260216-875-GP	16/02/26	385	29.1	180	4:00	2	35.8	48.2		110	27.0	37.0		1.2	0.55	2.27
260211-612-GP	11/02/26	390	29.1	165	3:45	1	37.1	51.8						1.2	0.54	2.24
260209-611-GP	09/02/26	385	29.1	165	3:45	1	35.6	49.5		110	29.5	41.0		1.2	0.54	2.32
260206-219-GP	06/02/26	395	29.1	165	3:45	1	37.1	50.1	64.2					1.4	0.53	2.36
260203-217-GP	03/02/26	400	29.1	165	4:00	1	37.8	50.1	64.4	90	31.5	43.0		1.3	0.54	2.34
260130-056-GP	30/01/26	390	29.1	150	3:45	1	35.9	49.2	64.3	90	31.5	40.0	54.5	1.6	0.53	2.25
260126-017-GP	26/01/26	400	29.1	165	4:00	1	36.2	50.1	63.6					1.2	0.55	2.31
260122-852-GP	22/01/26	395	29.1	165	4:00	1	35.8	49.5	64.6	90	29.0	37.5	47.5	1.4	0.55	2.32
260113-675-GP	13/01/26	385	29.1	165	3:45	1	35.0	47.5	62.9					1.6	0.54	2.30
260109-670-GP	09/01/26	380	29.1	180	4:00	1	34.4	50.9	61.8	90	26.5	33.5	47.5	1.4	0.54	2.31
260104-291-GP	04/01/26	390	29.1	165	4:00	1	35.0	47.8	63.7	90	25.5	36.5	48.0	1.6	0.56	2.36
251231-871-GP	31/12/25	385	29.1	165	4:15	1	33.5	45.9	62.2	110	24.0	34.0	43.0	1.6	0.53	2.35
251224-615-GP	24/12/25	385	29.1	165	4:00	1	35.7	47.9	65.0	100	24.0	33.5	46.5	1.4	0.53	2.33
251218-347-GP	18/12/25	375	29.1	165	4:00	1	34.1	49.1	66.1	110	27.5	35.5	47.0	1.3	0.56	2.38
251208-043-GP	08/12/25	385	29.1	165	4:00	1	38.0	51.1	65.5	110	28.5	37.0	47.0	1.1	0.56	2.47
251206-704-GP	06/12/25	380	28.9	150	4:00	1	36.8	50.1	64.1	100	25.5	35.0	45.0	1.3	0.56	2.31
251201-702-GP	01/12/25	375	29.1	165	4:00	2	34.5	47.9	63.1					1.4	0.56	2.31
251127-325-GP	27/11/25	365	29.2	150	4:00	0	36.0	50.2	68.1	100	24.5	34.5	44.0	1.3	0.55	2.25
251124-323-GP	24/11/25	365	29.2	150	4:00	1	34.4	48.8	65.1					1.4	0.57	2.33
251118-951-GP	18/11/25	380	29.2	150	4:00	1	35.3	49.2	66.3					1.4	0.56	2.28
251116-946-GP	16/11/25	380	29.3	150	4:00	1	35.7	49.1	65.6	80	28.0	38.0	45.0	1.4	0.57	2.28
251110-636-GP	10/11/25	370	29.1	165	4:00	1	35.5	48.4	63.7	110	26.0	35.0	49.0	1.2	0.55	2.33

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.

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Marley Korach-Salt  
Chemical Technician



Portland Works, Portland, Whangarei 0178

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Page 1 of 3

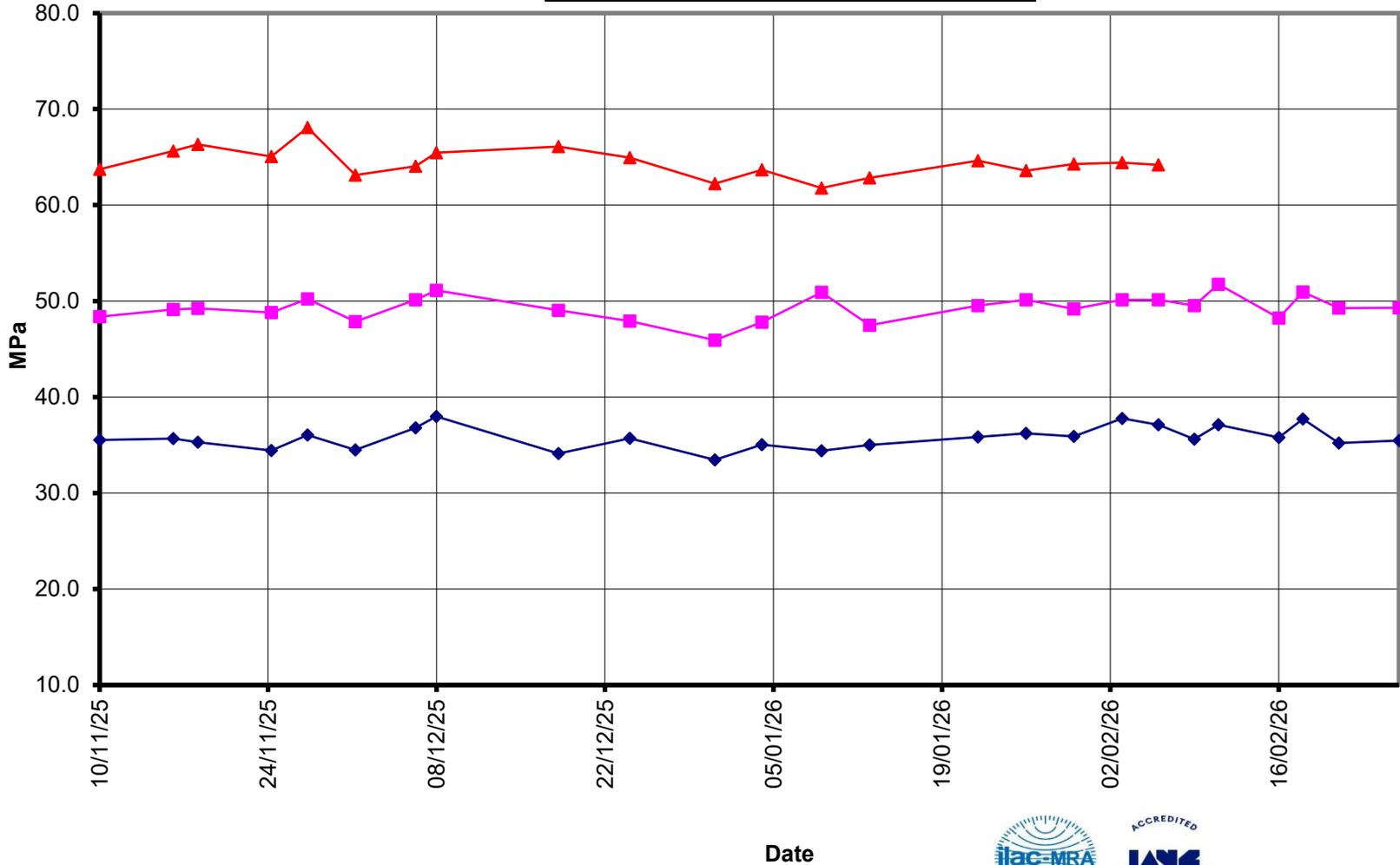


EcoSure® Type GP Cement

Compressive Strength ISO-CEN Mortar  
(Bulk Dispatch)



28 Days 7 Days 3 Days





### EcoSure® Type GP Cement

### Compressive Strength Concrete (Bulk Dispatch)



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

