



CERTIFICATE OF QUALITY

EcoSure® Type GP Cement

NZS3122:2009 (Bulk & Bag Dispatch)



Issued to: National Sales Manager

Test Report No: 25#65

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		376	29.7	164	3:57	1	35.7	48.5	64.5	88	30.2	40.5	51.1	1.5	0.54	2.32
Standard Deviation		12	0.1	10	0:10	0.4	1.0	1.2	1.2	9	2.9	4.0	3.1	0.2	0.02	0.04
Min		360	29.5	135	3:30	0	33.3	45.9	62.5	80	25.0	32.5	46.5	1.1	0.51	2.25
Max		405	29.8	180	4:15	2	37.3	51.1	66.8	110	34.0	45.5	56.5	2.1	0.58	2.44
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	%	%	%
250512-934-GP	12/05/25	405	29.7	180	4:15	1	34.6	45.9		80	33.0			1.5	0.53	2.32
250510-936-GP	10/05/25	390	29.8	180	4:00	1	36.3	49.3						1.5	0.55	2.28
250506-807-GP	06/05/25	365	29.8	165	4:00	1	34.9	49.2						1.5	0.54	2.30
250504-805-GP	04/05/25	400	29.7	165	4:00	2	34.7	47.5		110	25.0	32.5		2.1	0.54	2.36
250501-528-GP	01/05/25	375	29.8	165	3:45	1	33.3	46.7						2.0	0.55	2.25
250427-406-GP	27/04/25	380	29.8	165	3:45	1	33.7	46.4		90	28.5	39.0		1.9	0.56	2.25
250423-116-GP	23/04/25	390	29.8	165	4:00	1	36.4	49.1	64.3	80	34.0	45.0		1.4	0.56	2.32
250419-958-GP	19/04/25	380	29.7	150	4:00	1	36.8	49.2	65.0	90	32.5	45.5	53.5	1.6	0.58	2.30
250407-515-GP	07/04/25	370	29.7	165	4:00	1	35.7	47.4	65.2	80	30.5	41.5	49.0	1.6	0.56	2.29
250404-340-GP	04/04/25	375	29.7	165	3:45	2	37.1	49.9	64.6					1.5	0.57	2.35
250331-214-GP	31/03/25	380	29.8	165	4:00	1	36.7	48.5	62.8	80	34.0	43.5	56.5	1.5	0.56	2.31
250327-922-GP	27/03/25	365	29.7	180	4:15	1	36.2	49.5	66.8					1.3	0.57	2.31
250323-924-GP	23/03/25	385	29.8	165	4:00	1	36.0	49.5	64.6	100	29.0	41.0	49.0	1.3	0.57	2.33
250319-584-GP	19/03/25	370	29.8	165	3:45	0	37.3	48.7	65.3					1.3	0.56	2.44
250316-582-GP	16/03/25	360	29.7	165	4:15	1	36.3	48.4	63.7	80	30.0	43.5	50.5	1.5	0.55	2.30
250312-330-GP	12/03/25	360	29.8	135	3:30	1	35.9	51.1	66.6					1.3	0.54	2.37
250308-321-GP	08/03/25	365	29.7	150	3:45	1	36.4	48.7	64.8	90	33.5	43.0	53.5	1.3	0.54	2.36
250305-953-GP	05/03/25	365	29.5	150	4:00	2	35.0	48.9	64.9	80	26.0	36.5	46.5	1.3	0.54	2.31
250301-730-GP	01/03/25	360	29.7	165	4:00	1	36.0	46.4	63.1	80	32.0	44.0	55.0	1.1	0.52	2.32
250224-728-GP	24/02/25	375	29.7	165	4:00	2	36.4	49.1	64.9					1.2	0.53	2.34
250222-388-GP	22/02/25	370	29.6	165	4:00	1	35.6	48.5	62.7					1.4	0.52	2.28
250218-221-GP	18/02/25	375	29.5	165	4:00	1	36.6	49.1	63.7	100	27.0	36.5	49.5	1.3	0.52	2.32
250214-917-GP	14/02/25	380	29.6	165	4:00	1	36.1	49.2	65.8					1.4	0.52	2.32
250211-914-GP	11/02/25	385	29.5	165	4:00	1	35.5	49.1	64.8	90	29.0	35.0	49.0	1.3	0.51	2.30
250207-556-GP	07/02/25	380	29.5	180	4:00	1	34.3	47.9	62.5	90	29.5	41.0	50.0	1.3	0.53	2.32

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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Vincent Lane
Works Chemist



Portland Works, Portland, Whangarei 0178

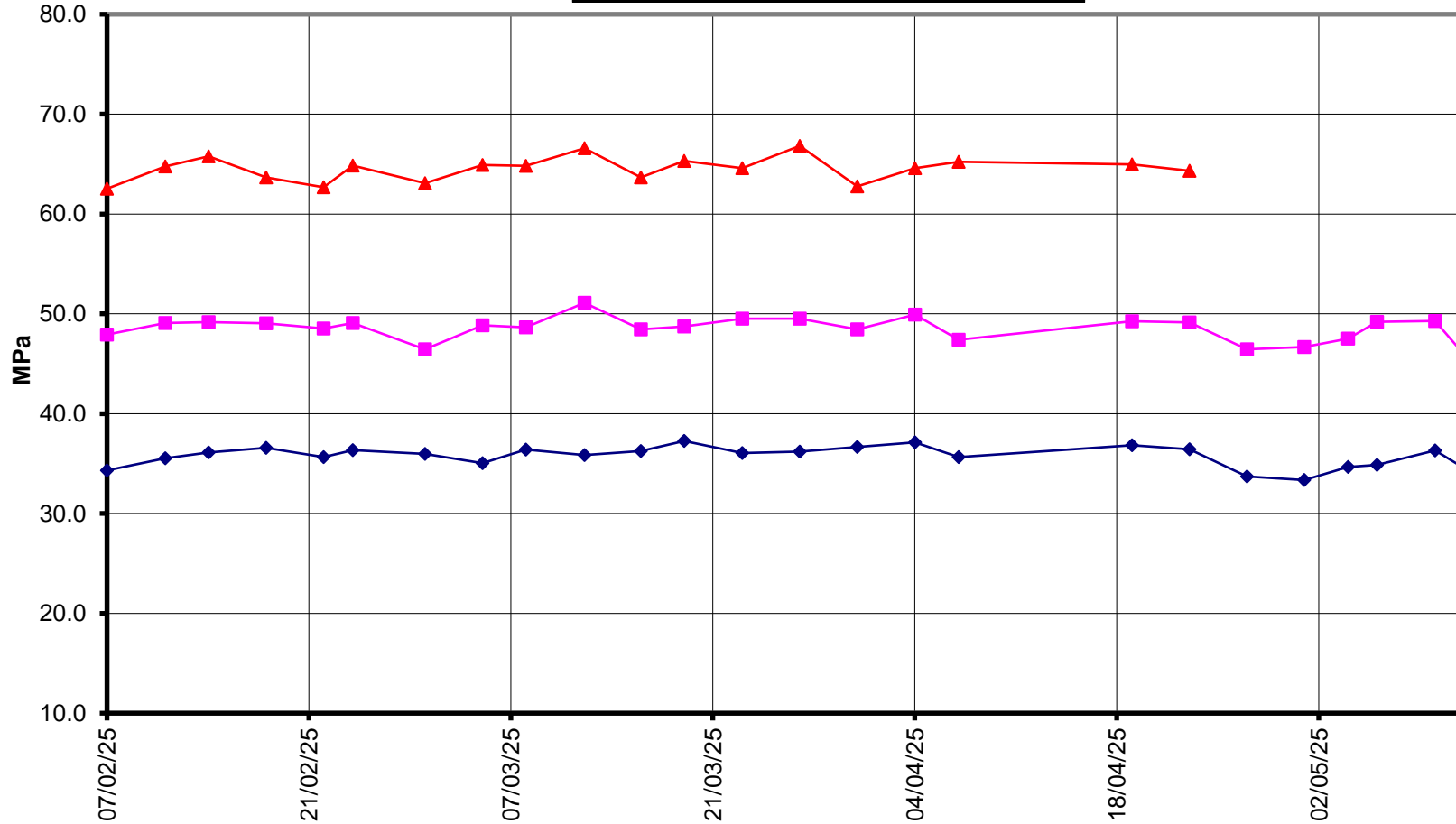
Date issued: 27/05/2025

Page 1 of 3



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

