



CERTIFICATE OF QUALITY

EcoSure® Type GP Cement

NZS3122:2009 (Bulk & Bag Dispatch)



Issued to: National Sales Manager

Test Report No: 25#109

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		387	29.1	164	3:57	1	35.1	48.0	64.0	89	29.6	39.6	51.5	1.5	0.54	2.31
Standard Deviation		11	0.6	9	0:11	0.4	0.9	1.2	1.3	10	3.0	4.4	4.2	0.2	0.02	0.04
Min		365	27.8	150	3:45	0	33.3	45.9	61.5	80	25.0	32.5	44.5	1.1	0.51	2.23
Max		405	29.8	180	4:30	2	36.8	50.8	66.4	110	35.0	47.0	57.0	2.1	0.58	2.39
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	%	%	%
250719-722-GP	19/07/25	395	29.1	165	4:00	0	34.4			100	30.5			1.4	0.52	2.30
250717-639-GP	17/07/25	390	29.1	165	4:00	0	34.9							1.5	0.54	2.26
250710-325-GP	10/07/25	390	29.1	165	4:00	0	34.5	48.0						1.6	0.54	2.31
250706-286-GP	06/07/25	390	29.1	165	4:00	0	35.4	46.6		90	27.0	35.0		1.6	0.52	2.34
250702-068-GP	02/07/25	385	28.8	165	4:00	1	35.2	48.8		80	28.5	39.0		1.5	0.51	2.31
250628-016-GP	28/06/25	375	28.7	165	3:45	1	35.1	47.4						1.4	0.54	2.33
250624-707-GP	24/06/25	390	28.8	150	4:15	1	35.9	48.3		100	26.0	33.5		1.5	0.54	2.39
250621-499-GP	21/06/25	375	27.8	150	3:45	1	34.0	47.7	63.0	100	27.5	39.0	49.5	1.3	0.54	2.29
250612-189-GP	12/06/25	375	29.0	165	3:45	1	35.8	49.3	65.0					1.5	0.55	2.31
250608-041-GP	08/06/25	390	29.0	165	3:45	1	34.8	46.9	62.2	80	30.5	41.0	52.0	1.5	0.55	2.35
250605-917-GP	05/06/25	385	28.8	150	4:30	1	36.4	50.8	66.4					1.4	0.54	2.23
250601-735-GP	01/06/25	395	28.5	150	4:00	1	35.5	49.2	63.9	80	35.0	47.0	54.5	1.4	0.54	2.32
250528-481-GP	28/05/25	380	28.5	165	4:00	1	34.2	47.7	64.7	90	27.5	37.0	45.0	1.5	0.54	2.33
250524-179-GP	24/05/25	400	28.5	165	3:45	1	34.4	47.2	63.5					1.1	0.55	2.34
250520-086-GP	20/05/25	390	28.5	180	4:00	0	35.3	48.8	63.6	90	28.5	37.0	50.5	1.6	0.55	2.25
250516-090-GP	16/05/25	405	28.7	165	3:45	1	34.9	47.5	61.5					1.6	0.54	2.32
250512-934-GP	12/05/25	405	29.7	180	4:15	1	34.6	45.9	65.3	80	33.0	42.0	55.0	1.5	0.53	2.32
250510-936-GP	10/05/25	390	29.8	180	4:00	1	36.3	49.3	64.3					1.5	0.55	2.28
250506-807-GP	06/05/25	365	29.8	165	4:00	1	34.9	49.2	64.6					1.5	0.54	2.30
250504-805-GP	04/05/25	400	29.7	165	4:00	2	34.7	47.5	64.4	110	25.0	32.5	44.5	2.1	0.54	2.36
250501-528-GP	01/05/25	375	29.8	165	3:45	1	33.3	46.7	63.5					2.0	0.55	2.25
250427-406-GP	27/04/25	380	29.8	165	3:45	1	33.7	46.4	61.5	90	28.5	39.0	56.0	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	57.0	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

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.

Re-test

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Vincent Lane
Works Chemist



Portland Works, Portland, Whangarei 0178

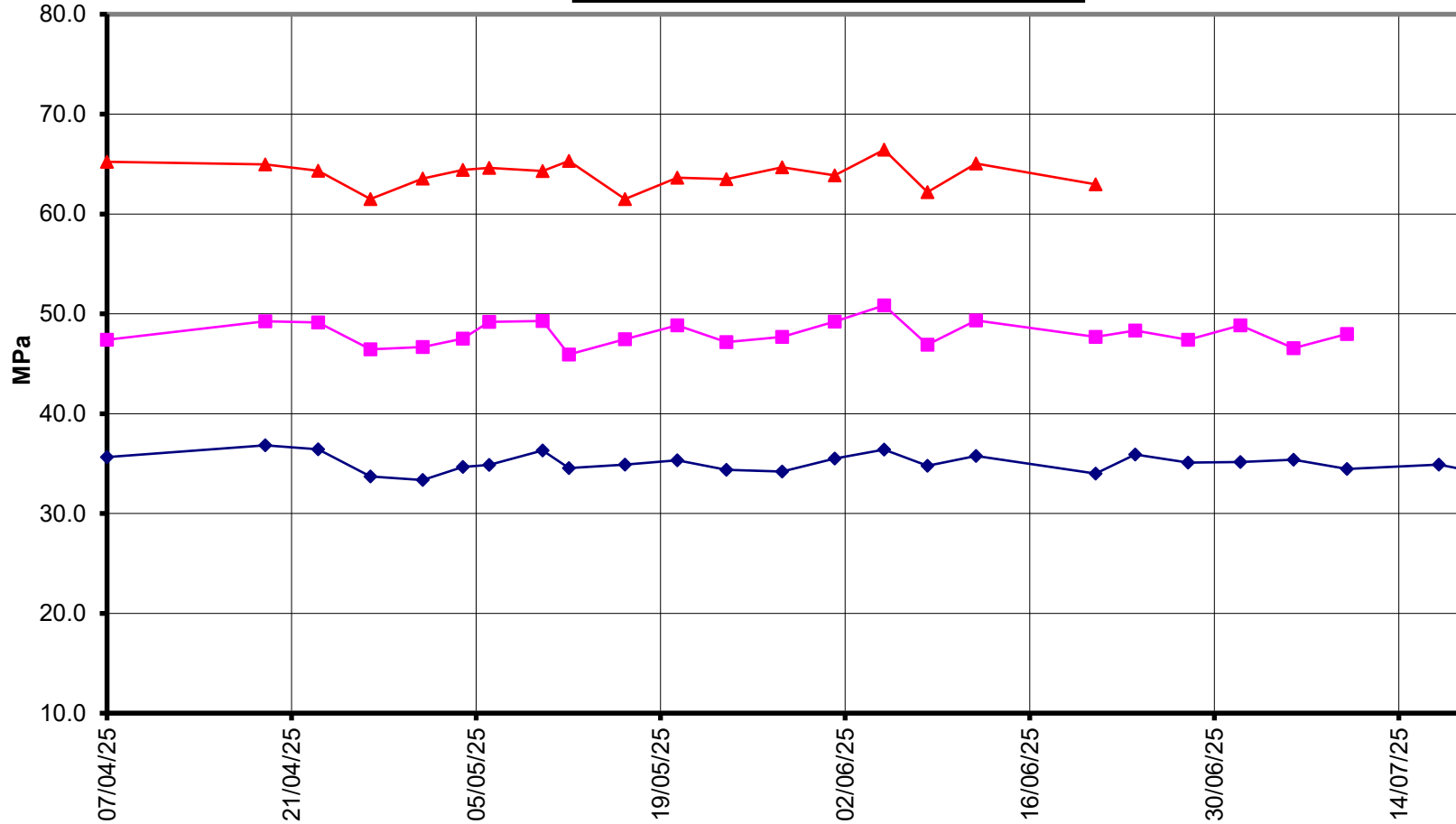
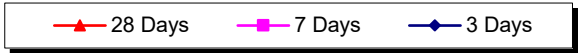
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EcoSure® Type GP Cement

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

