



CERTIFICATE OF QUALITY

EcoSure® Type GP Cement

NZS3122:2009 (Bulk & Bag Dispatch)



Issued to: National Sales Manager

Test Report No: 25#124

info@goldenbay.co.nz

Code	Week Ending / Voyage	Specific Surface Area	Normal Consistency	Initial Set	Final Set	Sound-ness	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		385	28.9	161	3:58	1	35.3	48.2	63.7	90	29.2	38.8	50.0	1.5	0.54	2.31
Standard Deviation		12	0.4	10	0:13	0.4	0.8	1.2	1.4	8	2.5	3.6	3.5	0.1	0.01	0.04
Min		365	27.8	150	3:45	0	34.0	45.9	61.5	80	26.0	33.5	45.0	1.1	0.51	2.23
Max		405	29.8	180	4:30	1	37.1	50.8	66.4	100	35.0	47.0	55.0	1.6	0.56	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	%	%	%
250812-711-GP	12/08/25	370	29.1	150	3:45	1	37.1			90	29.5			1.3	0.55	2.33
250810-880-GP	10/08/25	370	29.1	150	3:45	1	36.4							1.6	0.56	2.32
250807-535-GP	07/08/25	375	29.1	165	4:15	1	36.5	49.8						1.6	0.55	2.28
250803-472-GP	03/08/25	375	29.1	150	4:30	1	34.7	47.8		90	27.0	37.0		1.4	0.55	2.28
250731-291-GP	31/07/25	370	29.1	150	3:45	1	35.4	48.8		100	28.0	37.5		1.5	0.54	2.26
250724-893-GP	24/07/25	400	29.1	150	4:00	0	34.7	47.6		90	30.0	37.0		1.5	0.53	2.33
250719-722-GP	19/07/25	395	29.1	165	4:00	0	34.4	46.7	62.0	100	30.5	43.0	52.0	1.4	0.52	2.30
250717-639-GP	17/07/25	390	29.1	165	4:00	0	34.9	49.0	65.9					1.5	0.54	2.26
250710-325-GP	10/07/25	390	29.1	165	4:00	0	34.5	48.0	63.2					1.6	0.54	2.31
250706-286-GP	06/07/25	390	29.1	165	4:00	0	35.4	46.6	62.5	90	27.0	35.0	48.0	1.6	0.52	2.34
250702-068-GP	02/07/25	385	28.8	165	4:00	1	35.2	48.8	63.4	80	28.5	39.0	48.0	1.5	0.51	2.31
250628-016-GP	28/06/25	375	28.7	165	3:45	1	35.1	47.4	61.7					1.4	0.54	2.33
250624-707-GP	24/06/25	390	28.8	150	4:15	1	35.9	48.3	63.5	100	26.0	33.5	45.0	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

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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V. Lane

Vincent Lane
Works Chemist



Portland Works, Portland, Whangarei 0178

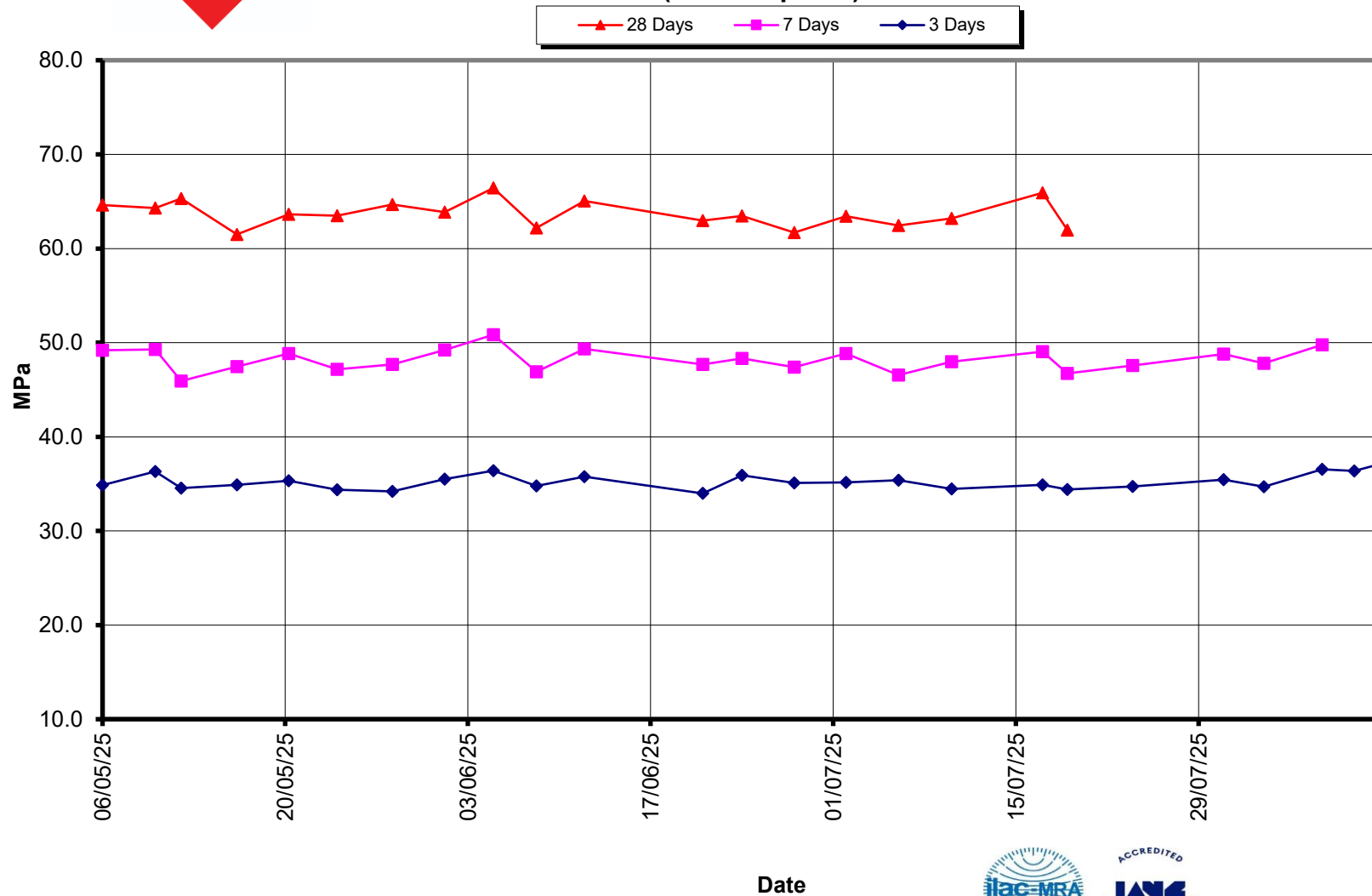
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EcoSure® Type GP Cement

Compressive Strength ISO-CEN Mortar (Bulk Dispatch)





EcoSure® Type GP Cement

Compressive Strength Concrete (Bulk Dispatch)

