



CERTIFICATE OF QUALITY

EcoSure® Type GP Cement

NZS3122:2009 (Bulk & Bag Dispatch)



Issued to: National Sales Manager

Test Report No: 25#92

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		383	29.3	164	3:58	1	35.5	48.4	64.1	89	30.1	41.0	51.5	1.5	0.55	2.31
Standard Deviation		13	0.6	9	0:12	0.4	1.1	1.2	1.3	10	3.1	3.9	4.4	0.2	0.01	0.05
Min		360	27.8	150	3:45	0	33.3	45.9	61.5	80	25.0	32.5	44.5	1.1	0.53	2.23
Max		405	29.8	180	4:30	2	37.3	50.8	66.8	110	34.0	47.0	57.0	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	%	%	%
250624-707-GP	24/06/25	390	28.8	150	4:15	1	35.9			100	26.0			1.5	0.54	2.39
250621-499-GP	21/06/25	375	27.8	150	3:45	1	34.0	47.7		100	27.5	39.0		1.3	0.54	2.29
250612-189-GP	12/06/25	375	29.0	165	3:45	1	35.8	49.3						1.5	0.55	2.31
250608-041-GP	08/06/25	390	29.0	165	3:45	1	34.8	46.9		80	30.5	41.0		1.5	0.55	2.35
250605-917-GP	05/06/25	385	28.8	150	4:30	1	36.4	50.8						1.4	0.54	2.23
250601-735-GP	01/06/25	395	28.5	150	4:00	1	35.5	49.2		80	35.0	47.0		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		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
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

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

Vincent Lane
Works Chemist



Portland Works, Portland, Whangarei 0178

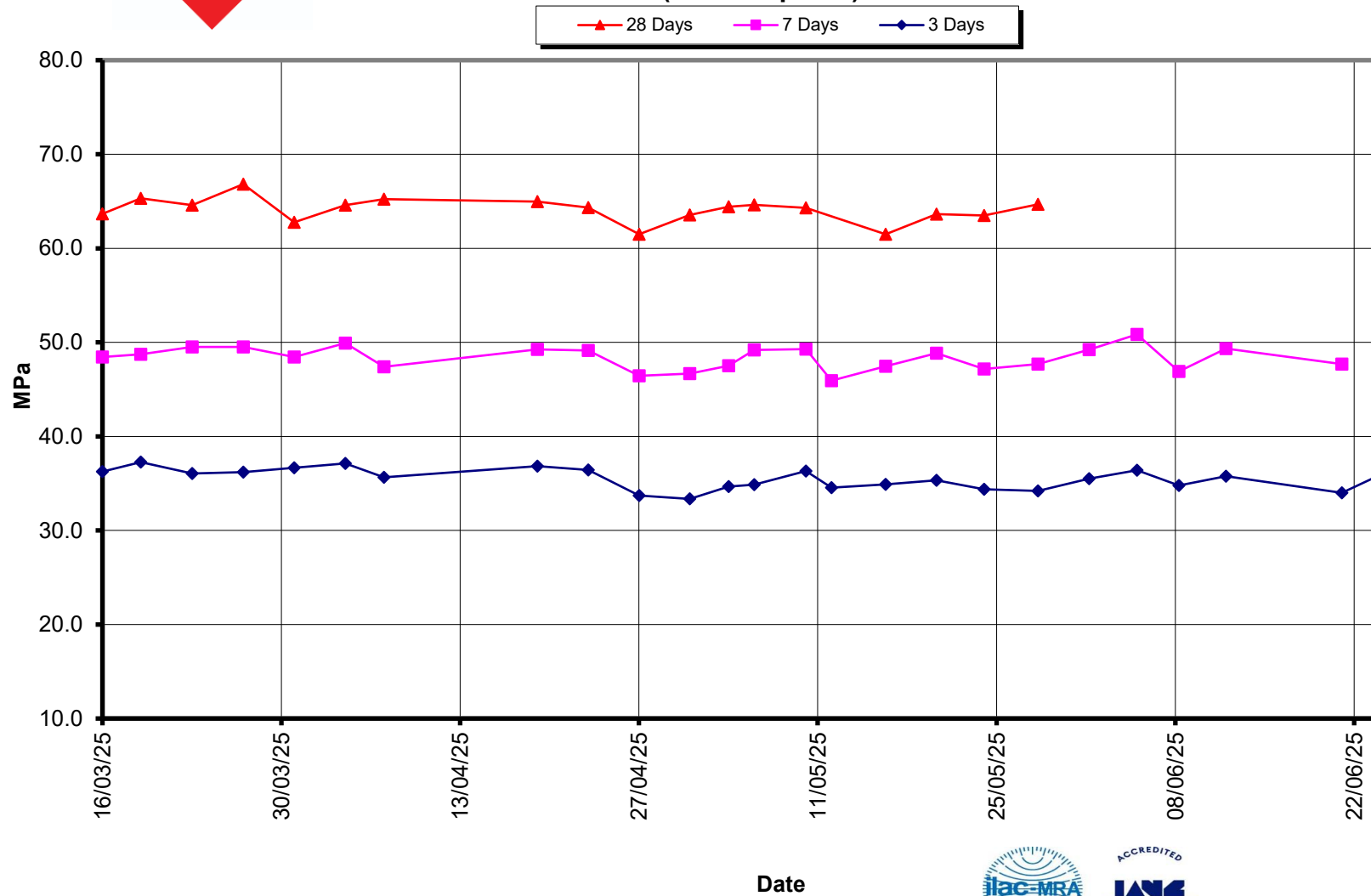
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EcoSure® Type GP Cement

Compressive Strength ISO-CEN Mortar (Bulk Dispatch)





EcoSure® Type GP Cement

Compressive Strength Concrete (Bulk Dispatch)

