



CERTIFICATE OF QUALITY

EcoSure® Type GP Cement

NZS3122:2009 (Bulk & Bag Dispatch)



Issued to: National Sales Manager

Test Report No: 25#179

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		379	29.1	160	4:00	1	35.0	48.3	64.1	97	27.0	37.2	46.8	1.5	0.56	2.31
Standard Deviation		10	0.2	7	0:11	0.3	0.9	0.8	1.6	11	1.9	2.4	3.4	0.1	0.02	0.03
Min		360	28.3	150	3:45	0	33.8	46.7	61.3	80	24.0	32.0	41.5	1.2	0.52	2.22
Max		395	29.5	165	4:30	2	37.1	49.8	66.6	110	31.0	41.5	53.0	1.8	0.58	2.38
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	%	%	%
251110-636-GP	10/11/25	370	29.1	165	4:00	1	35.5			110	26.0			1.2	0.55	2.33
251106-406-GP	06/11/25	380	29.1	165	4:15	1	34.5	47.8						1.4	0.54	2.33
251102-255-GP	02/11/25	380	29.1	165	4:00	1	34.7	46.9		90	24.5	34.5		1.6	0.55	2.32
251029-929-GP	29/10/25	380	29.1	165	4:00	1	34.9	48.3		80	28.5	39.5		1.8	0.55	2.32
251023-786-GP	23/10/25	395	29.1	165	4:00	1	34.9	48.6		110	26.5	36.0		1.6	0.52	2.32
251020-784-GP	20/10/25	385	29.2	165	4:00	1	35.3	48.8						1.4	0.53	2.30
251016-271-GP	16/10/25	360	29.2	165	4:15	1	33.9	48.6	64.8					1.6	0.56	2.35
251013-253-GP	13/10/25	370	29.2	165	4:15	1	33.8	46.8	62.9	100	24.0	32.0	41.5	1.5	0.56	2.31
251004-986-GP	04/10/25	375	28.3	165	4:00	1	34.8	48.8	66.0	110	26.0	35.0	44.5	1.3	0.57	2.26
251001-825-GP	01/10/25	385	29.1	150	3:45	1	34.3	48.2	62.4					1.5	0.58	2.32
250928-815-GP	28/09/25	395	29.2	165	4:00	1	35.2	47.8	63.4	110	28.5	37.0	46.0	1.4	0.58	2.30
250924-676-GP	24/09/25	375	29.1	165	4:00	1	34.7	48.3	63.9	80	26.0	37.0	44.0	1.3	0.58	2.27
250920-413-GP	20/09/25	370	29.1	165	4:00	1	34.2	48.3	65.0	110	24.0	35.5	44.0	1.4	0.58	2.22
250918-411-GP	18/09/25	385	29.1	150	4:00	2	33.8	47.9	63.3					1.8	0.56	2.36
250913-136-GP	13/09/25	380	29.5	165	3:45	1	34.2	48.1	66.6					1.7	0.58	2.31
250908-933-GP	08/09/25	390	29.2	150	4:00	0	34.7	48.4	65.2	90	31.0	39.5	48.0	1.4	0.58	2.30
250902-653-GP	02/09/25	365	29.1	165	4:00	1	36.7	48.9	62.7	100	27.5	38.0	48.0	1.6	0.55	2.31
250829-421-GP	29/08/25	385	29.1	150	4:00	1	36.0	48.9	64.2					1.4	0.56	2.32
250825-419-GP	25/08/25	395	29.1	150	4:00	1	34.6	46.7	61.3	90	27.0	39.0	51.5	1.5	0.55	2.32
250816-019-GP	16/08/25	385	29.1	165	4:00	2	35.4	47.4	61.7	90	28.0	38.5	53.0	1.5	0.55	2.38
250812-711-GP	12/08/25	370	29.1	150	3:45	1	37.1	49.3	66.0	90	29.5	41.5	49.5	1.3	0.55	2.33
250810-880-GP	10/08/25	370	29.1	150	3:45	1	36.4	49.6	63.0					1.6	0.56	2.32
250807-535-GP	07/08/25	375	29.1	165	4:15	1	36.5	49.8	65.9					1.6	0.55	2.28
250803-472-GP	03/08/25	375	29.1	150	4:30	1	34.7	47.8	64.3	90	27.0	37.0	47.0	1.4	0.55	2.28
250731-291-GP	31/07/25	370	29.1	150	3:45	1	35.4	48.8	65.6	100	28.0	37.5	44.5	1.5	0.54	2.26

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

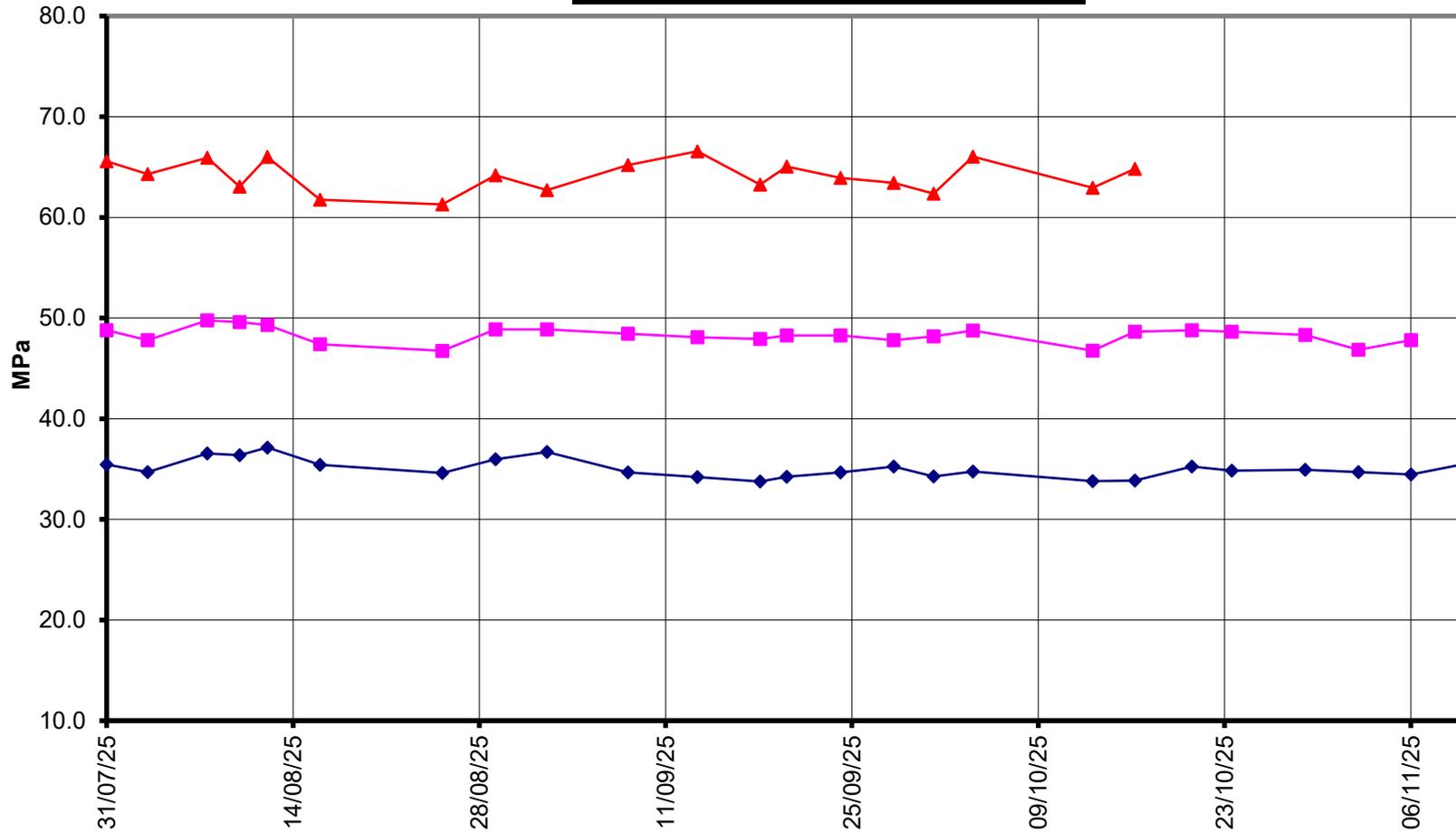
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EcoSure® Type GP Cement

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

