



CERTIFICATE OF QUALITY

EcoSure® Type GP Cement

NZS3122:2009 (Bulk & Bag Dispatch)



Issued to: National Sales Manager

Test Report No: 26#01

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		378	29.1	161	4:01	1	34.9	48.5	64.3	101	26.0	35.7	45.0	1.4	0.56	2.32
Standard Deviation		9	0.2	7	0:07	0.3	1.0	1.0	1.6	12	1.8	1.8	2.0	0.2	0.02	0.05
Min		360	28.3	150	3:45	0	33.5	46.8	62.2	80	24.0	32.0	41.5	1.1	0.52	2.22
Max		395	29.5	165	4:15	2	38.0	51.1	68.1	110	28.5	39.5	49.0	1.8	0.58	2.47
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	%	%	%
251231-871-GP	31/12/25	385	29.1	165	4:15	1	33.5			110	24.0			1.6	0.53	2.35
251224-615-GP	24/12/25	385	29.1	165	4:00	1	35.7	47.9		100	24.0	33.5		1.4	0.53	2.33
251218-347-GP	18/12/25	375	29.1	165	4:00	1	34.1	49.1		110	27.5	35.5		1.3	0.56	2.38
251208-043-GP	08/12/25	385	29.1	165	4:00	1	38.0	51.1		110	28.5	37.0		1.1	0.56	2.47
251206-704-GP	06/12/25	380	28.9	150	4:00	1	36.8	50.1	64.1	100	25.5	35.0	45.0	1.3	0.56	2.31
251201-702-GP	01/12/25	375	29.1	165	4:00	2	34.5	47.9	63.1					1.4	0.56	2.31
251127-325-GP	27/11/25	365	29.2	150	4:00	0	36.0	50.2	68.1	100	24.5	34.5	44.0	1.3	0.55	2.25
251124-323-GP	24/11/25	365	29.2	150	4:00	1	34.4	48.8	65.1					1.4	0.57	2.33
251118-951-GP	18/11/25	380	29.2	150	4:00	1	35.3	49.2	66.3					1.4	0.56	2.28
251116-946-GP	16/11/25	380	29.3	150	4:00	1	35.7	49.1	65.6	80	28.0	38.0	45.0	1.4	0.57	2.28
251110-636-GP	10/11/25	370	29.1	165	4:00	1	35.5	48.4	63.7	110	26.0	35.0	49.0	1.2	0.55	2.33
251106-406-GP	06/11/25	380	29.1	165	4:15	1	34.5	47.8	62.7					1.4	0.54	2.33
251102-255-GP	02/11/25	380	29.1	165	4:00	1	34.7	46.9	62.7	90	24.5	34.5	45.0	1.6	0.55	2.32
251029-929-GP	29/10/25	380	29.1	165	4:00	1	34.9	48.3	64.4	80	28.5	39.5	48.5	1.8	0.55	2.32
251023-786-GP	23/10/25	395	29.1	165	4:00	1	34.9	48.6	64.5	110	26.5	36.0	44.0	1.6	0.52	2.32
251020-784-GP	20/10/25	385	29.2	165	4:00	1	35.3	48.8	62.2					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

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

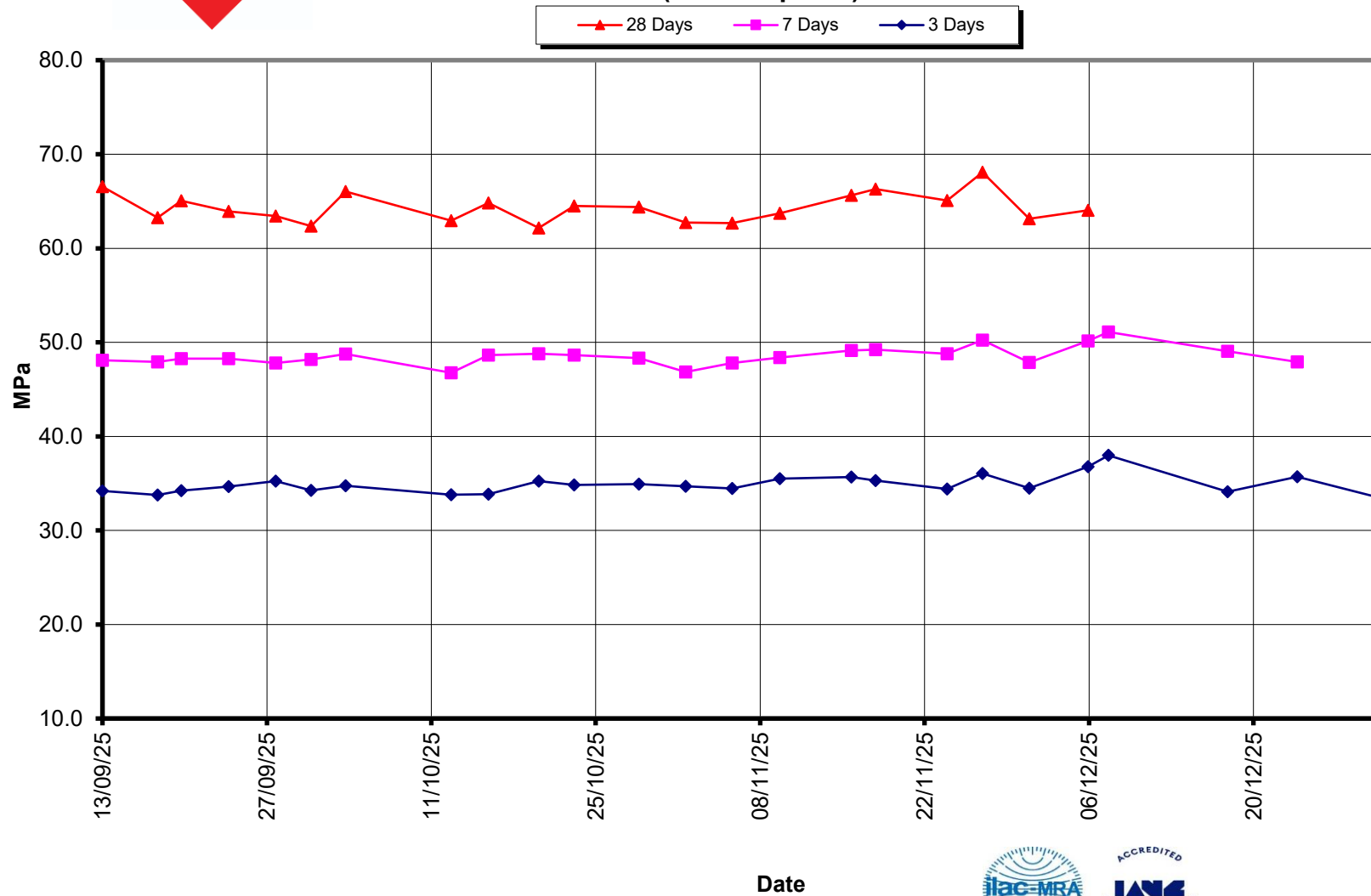
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EcoSure® Type GP Cement

Compressive Strength ISO-CEN Mortar (Bulk Dispatch)





EcoSure® Type GP Cement

Compressive Strength Concrete (Bulk Dispatch)

