



CERTIFICATE OF QUALITY

EcoSure® Type GP Cement

NZS3122:2009 (Bulk & Bag Dispatch)



Issued to: National Sales Manager

Test Report No: 25#191

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	159	4:00	1	34.9	48.3	63.8	97	26.5	36.5	45.9	1.5	0.56	2.31	
Standard Deviation		10	0.2	8	0:06	0.3	0.8	0.8	1.4	12	2.0	2.2	2.8	0.2	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	4:15	2	36.8	50.2	66.6	110	31.0	39.5	51.5	1.8	0.58	2.36	
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	%	%	%	
251206-704-GP	06/12/25	380	28.9	150	4:00	1	36.8			100	25.5			1.3	0.56	2.31	
251201-702-GP	01/12/25	375	29.1	165	4:00	2	34.5							1.4	0.56	2.31	
251127-325-GP	27/11/25	365	29.2	150	4:00	0	36.0	50.2		100	24.5	34.5		1.3	0.55	2.25	
251124-323-GP	24/11/25	365	29.2	150	4:00	1	34.4	48.8						1.4	0.57	2.33	
251118-951-GP	18/11/25	380	29.2	150	4:00	1	35.3	49.2						1.4	0.56	2.28	
251116-946-GP	16/11/25	380	29.3	150	4:00	1	35.7	49.1		80	28.0	38.0		1.4	0.57	2.28	
251110-636-GP	10/11/25	370	29.1	165	4:00	1	35.5	48.4		110	26.0	35.0		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	
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	

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

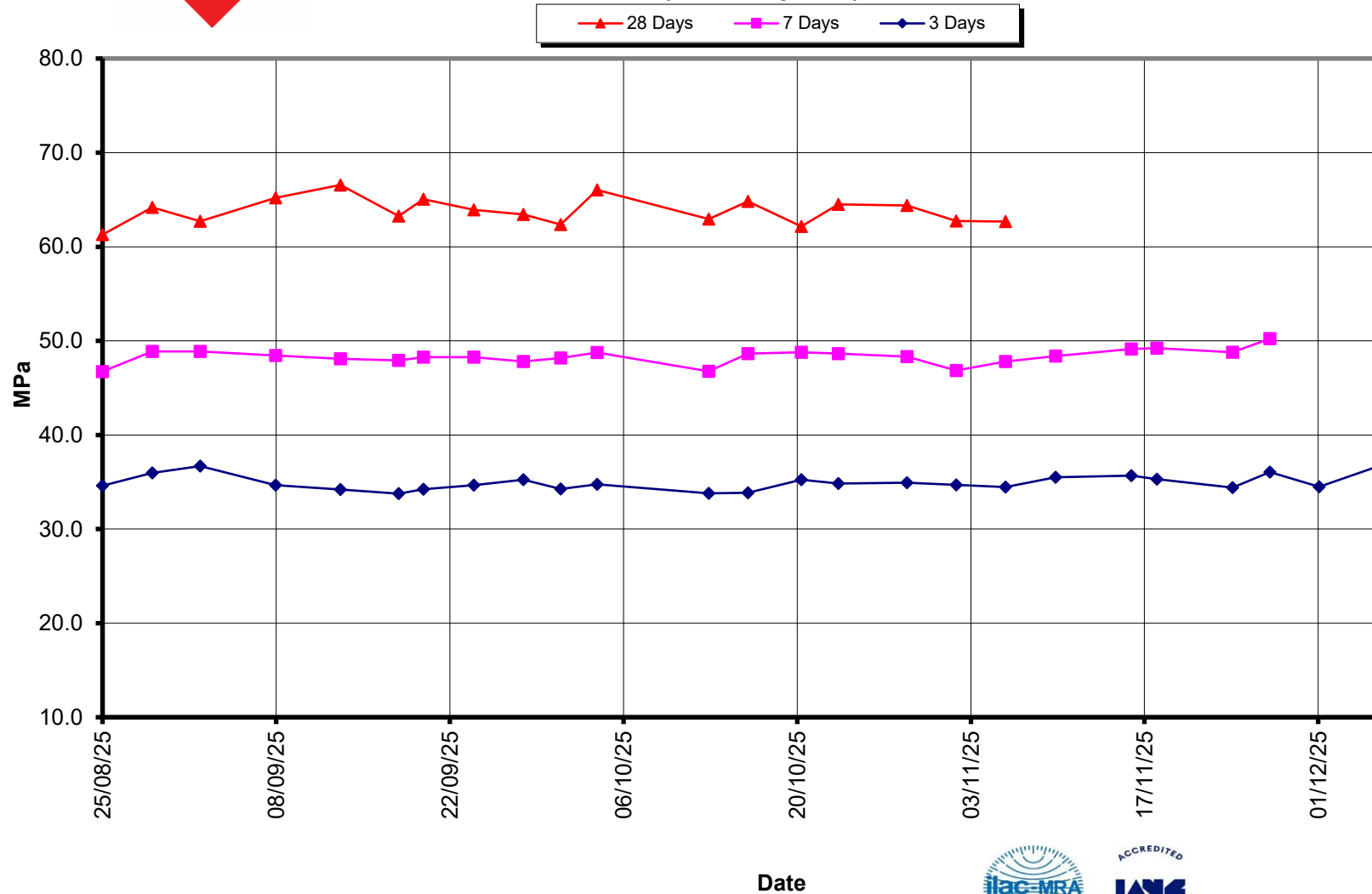
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EcoSure® Type GP Cement

Compressive Strength ISO-CEN Mortar (Bulk Dispatch)





EcoSure® Type GP Cement

Compressive Strength Concrete (Bulk Dispatch)

