



CERTIFICATE OF QUALITY

EcoSure® Type GP Cement

NZS3122:2009 (Bulk & Bag Dispatch)



Issued to: National Sales Manager

Test Report No: 25#158

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		382	29.0	158	3:58	1	35.1	48.2	63.7	94	27.8	38.0	48.8	1.5	0.55	2.31
Standard Deviation		10	0.3	8	0:10	0.5	0.9	0.9	1.5	9	1.9	2.4	2.6	0.1	0.02	0.04
Min		365	27.8	150	3:45	0	33.8	46.6	61.7	80	24.0	33.5	44.5	1.3	0.51	2.22
Max		400	29.5	165	4:30	2	37.1	49.8	66.0	110	31.0	43.0	53.0	1.8	0.58	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	%	%	%
251001-825-GP	01/10/25	385	29.1	150	3:45	#	34.3							1.5	0.58	2.32
250928-815-GP	28/09/25	395	29.2	165	4:00	#	35.2			110				1.4	0.58	2.30
250924-676-GP	24/09/25	375	29.1	165	4:00	1	34.7	48.3		80	26.0	37.0		1.3	0.58	2.27
250920-413-GP	20/09/25	370	29.1	165	4:00	1	34.2	48.3		110	24.0	35.5		1.4	0.58	2.22
250918-411-GP	18/09/25	385	29.1	150	4:00	2	33.8	47.9						1.8	0.56	2.36
250913-136-GP	13/09/25	380	29.5	165	3:45	1	34.2	48.1						1.7	0.58	2.31
250908-933-GP	08/09/25	390	29.2	150	4:00	0	34.7	48.4		90	31.0	39.5		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		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
250724-893-GP	24/07/25	400	29.1	150	4:00	0	34.7	47.6	63.6	90	30.0	37.0	49.0	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

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
Result not available

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Vincent Lane

Vincent Lane
Works Chemist



Portland Works, Portland, Whangarei 0178

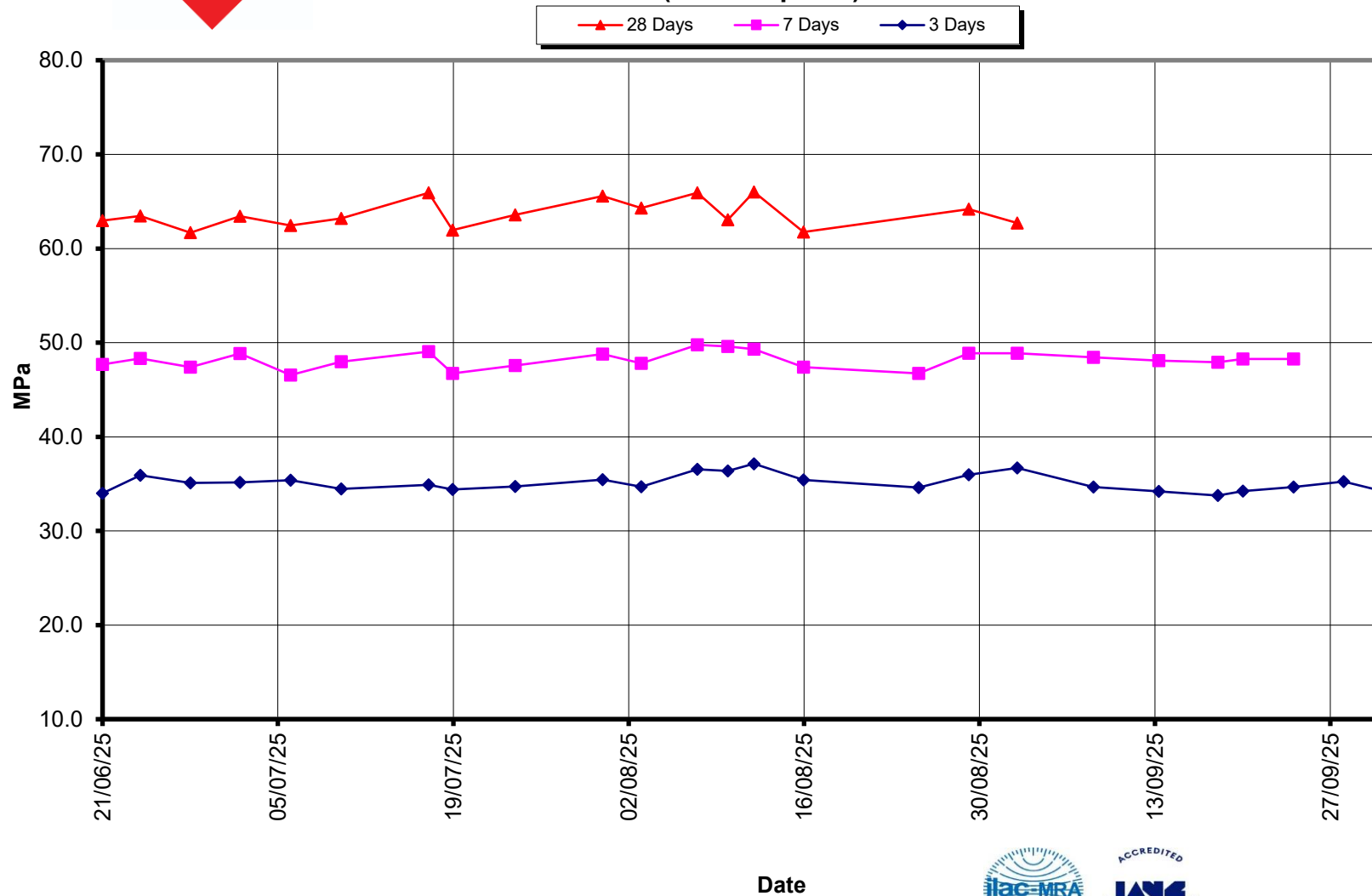
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EcoSure® Type GP Cement

Compressive Strength ISO-CEN Mortar (Bulk Dispatch)





EcoSure® Type GP Cement

Compressive Strength Concrete (Bulk Dispatch)

