



CERTIFICATE OF QUALITY

EcoSure® Type GP Cement

NZS3122:2009 (Bulk & Bag Dispatch)



Issued to: National Sales Manager

Test Report No: 25#08

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		369	29.5	167	3:57	1	33.8	46.0	64.2	93	26.2	35.9	47.7	1.5	0.55	2.30
Standard Deviation		7	0.3	8	0:12	0.5	0.9	1.2	1.0	8	3.0	3.9	1.9	0.2	0.02	0.05
Min		355	29.1	150	3:45	0	32.1	44.0	61.5	80	22.0	30.5	44.5	1.1	0.51	2.13
Max		380	30.3	180	4:30	2	35.4	47.9	65.8	100	29.0	45.0	49.5	1.8	0.57	2.35
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	%	%	%
250114-606-GP	14/01/25	365	29.6	165	4:00	1	33.8			80	27.5			1.3	0.55	2.27
250110-371-GP	10/01/25	375	29.6	165	3:45	1	33.7			80	33.5	45.0		1.1	0.57	2.33
250101-082-GP	01/01/25	380	29.1	165	3:45	1	32.8	45.3		100	22.0	31.0		1.6	0.54	2.29
241223-438-GP	23/12/24	370	29.1	180	4:15	1	32.1	44.4		100	22.0	30.5		1.4	0.55	2.30
241220-143-GP	20/12/24	365	29.1	180	4:30	2	33.7	46.2						1.5	0.54	2.30
241216-141-GP	16/12/24	380	29.1	165	3:45	0	32.2	44.0		90	24.0	34.0		1.7	0.54	2.28
241210-928-GP	10/12/24	380	29.6	150	3:45	1	33.4	45.3	65.8					1.8	0.55	2.30
241208-926-GP	08/12/24	380	29.4	165	3:45	2	34.5	46.7	61.5	100	27.0	34.5	47.0	1.4	0.56	2.34
241204-785-GP	04/12/24	365	29.1	165	4:15	1	34.0	46.0	64.4	90	29.0	39.5	49.5	1.2	0.55	2.13
241203-787-GP	03/12/24	370	29.1	165	3:45	1	34.7	47.3	65.0					1.3	0.55	2.30
241130-597-GP	30/11/24	355	29.9	180	4:15	1	33.6	46.4	64.7					1.3	0.53	2.24
241124-357-GP	24/11/24	375	30.3	165	4:00	1	35.4	44.3	64.4	100	24.0	33.5	46.5	1.3	0.51	2.24
241120-143-GP	20/11/24	375	30.0	165	4:00	0	33.7	45.5	64.5	90	27.0	35.5	49.5	1.4	0.54	2.35
241115-766-GP	15/11/24	365	29.9	165	4:00	1	32.8	44.6	63.3					1.5	0.53	2.31
241112-753-GP	12/11/24	375	29.9	180	4:00	1	33.6	45.2	63.4	100	26.5	34.5	45.0	1.8	0.57	2.35
241107-409-GP	07/11/24	360	29.8	165	3:45	1	34.6	47.2	64.1					1.5	0.56	2.35
241103-407-GP	03/11/24	360	29.9	165	3:45	2	34.7	47.9	64.6	100	23.5	34.0	44.5	1.4	0.55	2.29
241030-149-GP	30/10/24	370	29.7	150	3:45	1	35.2	47.7	64.3	100	25.0	34.0	48.0	1.6	0.56	2.34
241025-850-GP	25/10/24	370	29.6	180	4:00	1	33.3	45.8	63.6					1.5	0.56	2.34
241020-848-GP	20/10/24	365	29.6	165	4:00	1	35.4	46.6	64.3	90	28.0	38.0	48.0	1.6	0.56	2.35
241016-521-GP	16/10/24	365	29.6	165	4:15	1	33.1	47.3	64.5	80	28.0	41.0	49.5	1.3	0.55	2.34
241014-519-GP	14/10/24	370	29.6	165	3:45	1	32.6	44.8	63.8					1.6	0.57	2.33
241010-227-GP	10/10/24	365	29.5	165	4:00	0	34.1	47.1	65.6					1.4	0.55	2.30
241007-225-GP	07/10/24	365	29.4	165	4:00	1	34.5	47.5	64.7	100	25.5	37.5	49.0	1.6	0.56	2.31
241002-082-GP	02/10/24	370	29.4	180	4:00	0	34.7	45.1	63.3					1.8	0.53	2.33

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 C114-24

All concrete testing conducted in accordance with NZS 3112:1986.

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Vincent Lane
Works Chemist



Portland Works, Portland, Whangarei 0178

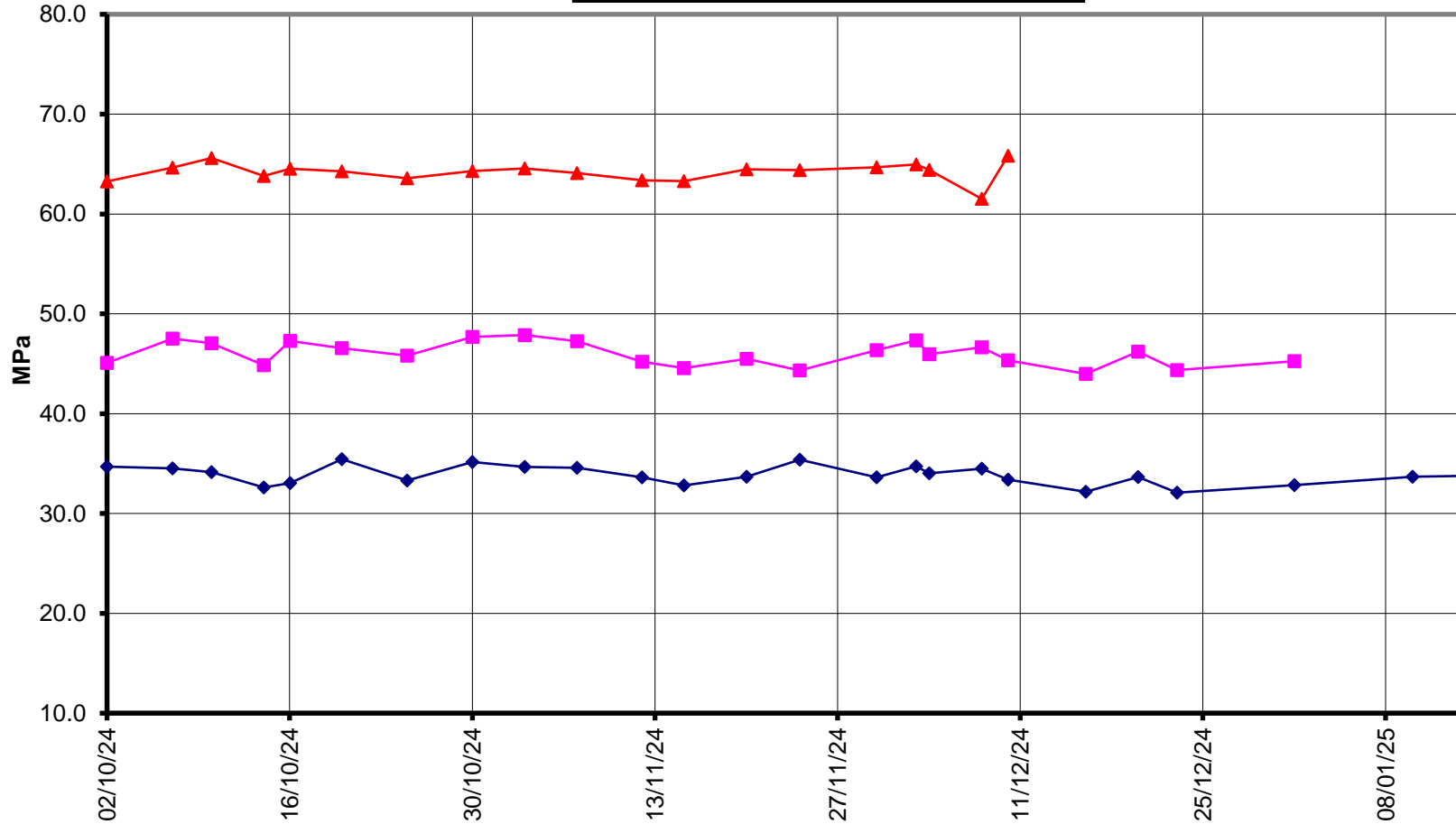
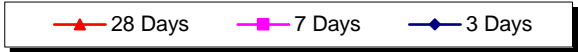
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EcoSure® Type GP Cement

Compressive Strength ISO-CEN Mortar (Bulk Dispatch)



Date





EcoSure® Type GP Cement

Compressive Strength Concrete (Bulk Dispatch)



—x— 28 Days —■— 7 Days —◆— 3 Days —x— Slump

