



CERTIFICATE OF QUALITY

EcoSure® Type GP Cement

NZS3122:2009 (Bulk & Bag Dispatch)



Issued to: National Sales Manager

Test Report No: 25#19

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		370	29.5	167	3:58	1	34.2	46.4	64.1	93	26.7	36.0	47.8	1.4	0.54	2.29
Standard Deviation		9	0.3	8	0:12	0.4	1.1	1.4	1.3	7	3.1	3.8	3.3	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	44.0	1.1	0.51	2.13
Max		385	30.3	180	4:30	2	36.1	48.6	66.0	100	33.5	45.0	55.0	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	%	%	%
250214-917-GP	14/02/25	380	29.6	165	4:00	1	36.1							1.4	0.52	2.32
250211-914-GP	11/02/25	385	29.5	165	4:00	1	35.5			90	29.0			1.3	0.51	2.30
250207-556-GP	07/02/25	380	29.5	180	4:00	1	34.3	47.9		90	29.5	41.0		1.3	0.53	2.32
250201-373-GP	01/02/25	365	29.4	165	4:00	1	35.5	48.5						1.1	0.53	2.27
250130-232-GP	30/01/25	355	29.4	165	4:15	1	36.1	48.6		90	28.5	38.0		1.1	0.54	2.26
250125-065-GP	25/01/25	355	29.5	180	4:00	1	33.6	46.3						1.1	0.56	2.26
250121-895-GP	21/01/25	355	29.5	165	4:00	1	34.5	47.4		90	29.0	37.5		1.1	0.57	2.24
250114-606-GP	14/01/25	365	29.6	165	4:00	1	33.8	47.3	62.0	80	27.5	38.0	52.5	1.3	0.55	2.27
250110-371-GP	10/01/25	375	29.6	165	3:45	1	33.7	47.1	62.2	80	33.5	45.0	55.0	1.1	0.57	2.33
250101-082-GP	01/01/25	380	29.1	165	3:45	1	32.8	45.3	63.5	100	22.0	31.0	44.0	1.6	0.54	2.29
241223-438-GP	23/12/24	370	29.1	180	4:15	1	32.1	44.4	66.0	100	22.0	30.5	45.0	1.4	0.55	2.30
241220-143-GP	20/12/24	365	29.1	180	4:30	2	33.7	46.2	65.6					1.5	0.54	2.30
241216-141-GP	16/12/24	380	29.1	165	3:45	0	32.2	44.0	64.0	90	24.0	34.0	47.5	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

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.

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Vincent Lane
Works Chemist



Portland Works, Portland, Whangarei 0178

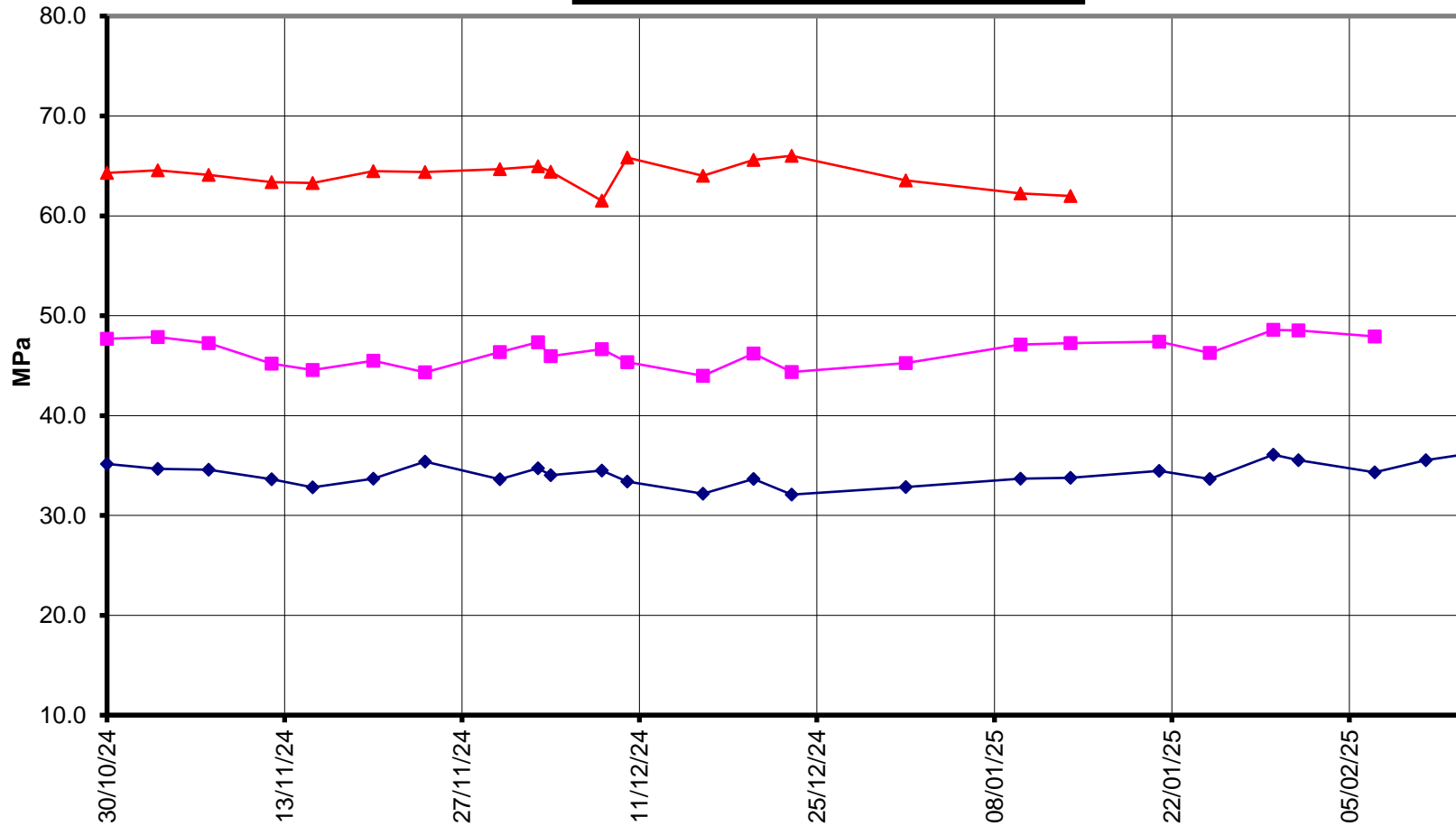
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EcoSure® Type GP Cement

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

