



CERTIFICATE OF QUALITY

EcoSure® Type GP Cement

NZS3122:2009 (Bulk & Bag Dispatch)



Issued to: National Sales Manager

Test Report No:

26#138

info@goldenbay.co.nz

Code	Week Ending / Voyage	Specific Surface Area	Normal Consistency	Initial Set	Final Set	Sound-ness	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		385	29.9	156	3:51	1	36.3	50.0	66.5	87	27.1	36.1	47.1	1.5	0.54	2.32
Standard Deviation		9	0.5	13	0:12	0.2	0.7	0.9	1.0	6	1.7	1.6	1.5	0.2	0.01	0.02
Min		370	28.8	120	3:30	0	35.1	48.0	64.2	80	24.5	34.0	45.0	0.9	0.52	2.26
Max		400	30.5	180	4:15	1	38.2	52.0	68.2	100	29.5	39.0	49.0	1.9	0.56	2.37
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	%	%	%
260903-759-GP	03/09/26	370	29.5	120	3:30	1	35.7	48.0		80	28.0			1.9	0.52	2.34
260827-756-GP	27/08/26	380	29.3	135	3:30	1	36.7	50.2						1.5	0.52	2.32
260821-477-GP	21/08/26	385	29.7	150	3:45	1	37.5	52.0						1.2	0.53	2.26
260815-247-GP	15/08/26	375	29.8	150	3:45	1	37.5	50.5		90	28.0	34.0		1.5	0.53	2.37
260813-249-GP	13/08/26	380	29.6	150	3:45	1	35.9	50.4						1.5	0.54	2.33
260811-860-GP	11/08/26	385	29.0	165	3:45	1	36.1	49.8	66.7	90	29.5	36.0		1.3	0.52	2.35
260809-862-GP	09/08/26	380	29.7	165	3:30	1	36.5	50.8	66.5					0.9	0.54	2.32
260805-539-GP	05/08/26	375	30.3	165	4:00	1	36.1	49.2	66.3	90	29.5	39.0	49.0	1.4	0.53	2.33
260803-541-GP	03/08/26	370	30.1	165	3:45	1	36.3	49.9	67.3					1.3	0.52	2.34
260726-243-GP	28/07/26	395	30.2	165	4:00	1	36.2	50.3	66.2					1.6	0.55	2.32
260726-238-GP	26/07/26	395	30.3	165	4:00	1	36.4	50.5	66.3	90	28.5	35.0	45.5	1.5	0.54	2.33
260722-898-GP	22/07/26	390	30.4	165	4:00	1	36.3	51.1	68.2	90	26.0	37.0	45.0	1.3	0.53	2.28
260720-904-GP	20/07/26	380	29.9	150	4:15	1	36.1	49.8	67.4					1.5	0.54	2.33
260718-589-GP	18/07/26	390	30.2	150	4:00	1	38.2	50.5	65.9	100	26.5	35.0	46.0	1.6	0.54	2.31
260711-585-GP	11/07/26	375	30.5	165	4:15	1	36.8	50.2	67.4					1.5	0.54	2.31
260709-587-GP	09/07/26	395	30.5	165	3:45	1	36.1	50.3	67.7					1.5	0.53	2.31
260703-260-GP	03/07/26	375	30.0	165	4:00	1	36.6	51.3	67.7					1.5	0.54	2.35
260630-926-GP	30/06/26	400	30.3	180	4:00	0	36.3	50.5	67.6					1.4	0.55	2.30
260628-924-GP	28/06/26	380	30.2	165	3:45	1	36.6	49.4	65.7	80	26.5	35.5	48.5	1.7	0.54	2.32
260624-576-GP	24/06/26	385	29.3	150	3:45	1	36.1	49.0	65.4	90	24.5	36.0	47.5	1.9	0.54	2.32
260616-274-GP	16/06/26	400	29.8	135	3:30	1	36.4	49.5	66.2					1.6	0.55	2.32
260610-998-GP	10/06/26	390	29.8	150	4:00	1	35.4	49.0	65.2	80	25.0	35.0	46.5	1.6	0.54	2.31
260608-144-GP	08/06/26	395	30.2	150	3:45	1	35.5	49.3	66.9					1.8	0.53	2.37
260604-661-GP	04/06/26	380	28.8	150	4:00	1	36.2	49.1	65.8					1.7	0.55	2.35
260602-618-GP	02/06/26	390	30.3	165	4:00	1	35.1	49.2	64.2	80	26.0	38.5	48.5	1.7	0.56	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.

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Marley Korach-Salt

Marley Korach-Salt
Chemical Technician



Portland Works, Portland, Whangarei 0178

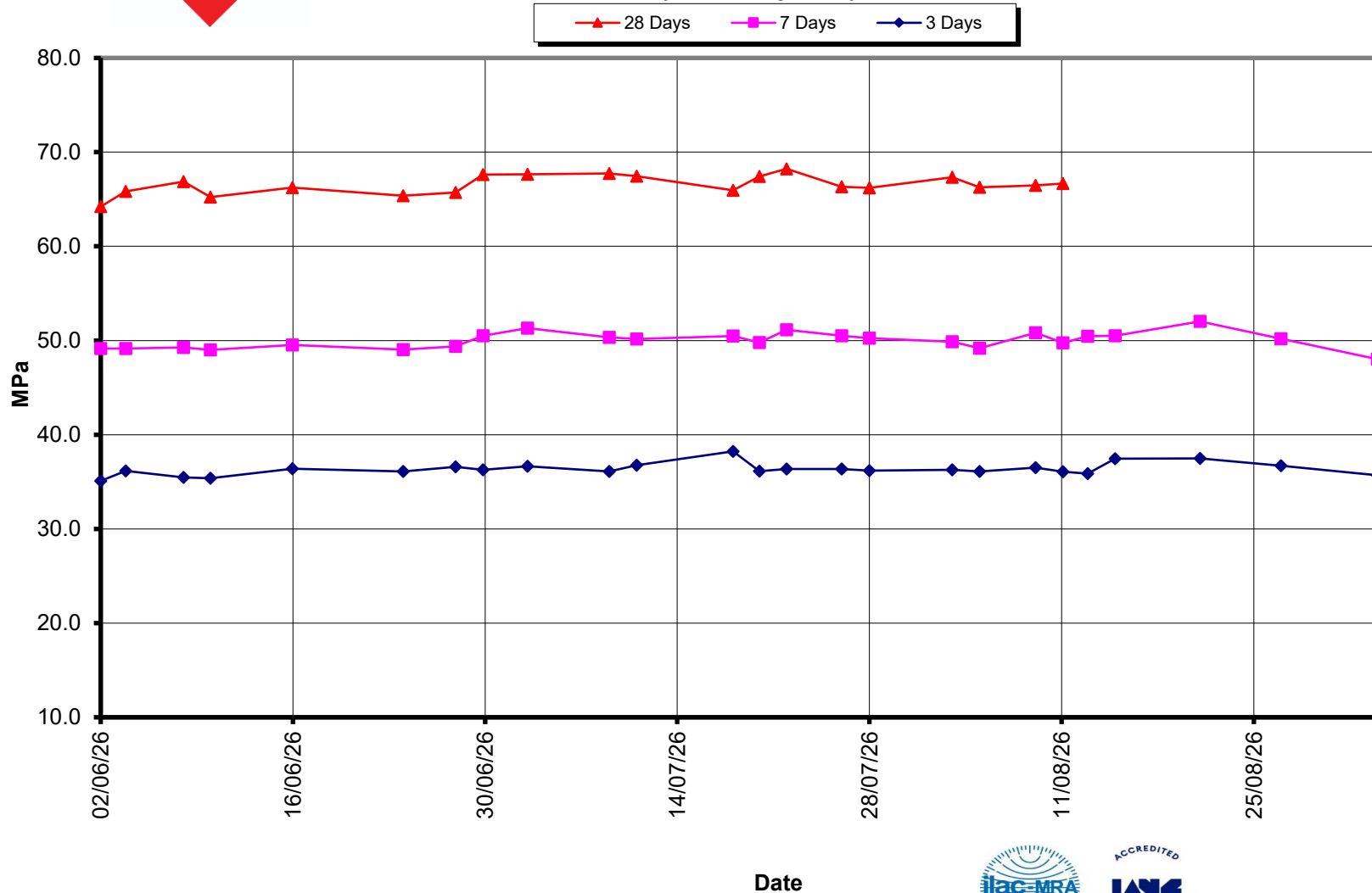
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EcoSure® Type GP Cement

Compressive Strength ISO-CEN Mortar
(Bulk Dispatch)





EcoSure® Type GP Cement

Compressive Strength Concrete (Bulk Dispatch)

