



# CERTIFICATE OF QUALITY

## EcoSure® Type GP Cement

NZS3122:2009 (Bulk & Bag Dispatch)



Issued to: National Sales Manager

Test Report No:

26#60

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 <sub>3</sub> )	
							ISOCEN			Slump	Concrete					
							3 days	7 days	28 days		3 days	7 days				28 days
Mean		388	29.1	169	3:54	1	36.5	50.2	65.4	102	29.3	39.5	51.0	1.3	0.55	2.31
Standard Deviation		6	0.0	8	0:07	0.3	0.7	0.9	2.0	12	1.8	2.0	3.3	0.1	0.01	0.03
Min		380	29.1	150	3:45	1	35.2	48.2	61.6	80	26.0	37.0	46.0	1.1	0.52	2.24
Max		400	29.1	180	4:00	2	37.8	51.9	69.2	120	32.0	43.0	55.5	1.6	0.57	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 <sup>2</sup> /kg	%	minutes	hrs:mins	mm	MPa	MPa	MPa	mm	MPa	MPa	MPa	%	%	%
260421-032-GP	21/04/26	390	29.1	165	4:00	1	36.3	50.3		120	28.5	37.5		1.2	0.56	2.29
260419-030-GP	19/04/26	390	29.1	180	4:00	1	35.9	50.1						1.2	0.55	2.34
260415-662-GP	15/04/26	390	29.1	165	3:45	2	36.5	49.5						1.1	0.57	2.36
260413-660-GP	13/04/26	390	29.1	165	3:45	1	36.8	50.5		110	30.0	37.0		1.2	0.56	2.30
260409-313-GP	09/04/26	385	29.1	165	4:00	1	36.6	51.1		100	28.5	40.5		1.3	0.56	2.30
260404-192-GP	04/04/26	390	29.1	165	4:00	1	36.7	49.9	66.1	110	26.0	37.0	48.0	1.5	0.57	2.29
260401-190-GP	01/04/26	380	29.1	165	3:45	1	37.1	50.5	67.1					1.5	0.56	2.32
260327-858-GP	27/03/26	380	29.1	165	3:45	1	37.1	51.6	67.9					1.4	0.55	2.30
260322-721-GP	22/03/26	385	29.1	165	4:00	1	36.4	50.4	66.1	110	28.0	39.5	49.0	1.4	0.52	2.26
260318-396-GP	18/03/26	395	29.1	165	4:00	1	37.1	50.9	68.8					1.3	0.52	2.30
260314-394-GP	14/03/26	390	29.1	165	3:45	1	37.0	51.9	69.2	100	28.5	40.5	49.5	1.4	0.52	2.31
260309-033-GP	09/03/26	385	29.1	180	4:00	1	36.2	49.5	63.1					1.4	0.55	2.36
260306-031-GP	06/03/26	380	29.1	180	4:00	1	36.3	50.3	66.4	90	32.0	39.5	53.5	1.2	0.55	2.34
260302-689-GP	02/03/26	380	29.1	180	4:00	1	37.7	51.8	66.4	80	31.0	42.0	49.0	1.3	0.54	2.34
260228-687-GP	28/02/26	385	29.1	180	4:00	1	35.8	49.2	63.8					1.5	0.55	2.33
260226-351-GP	26/02/26	385	29.1	180	4:00	1	35.5	49.3	63.7	110	29.5	39.0	50.5	1.4	0.54	2.32
260221-349-GP	21/02/26	400	29.1	180	4:00	1	35.2	49.3	64.1					1.3	0.55	2.32
260218-877-GP	18/02/26	385	29.1	165	3:45	1	37.7	50.9	65.2					1.3	0.55	2.26
260216-875-GP	16/02/26	385	29.1	180	4:00	2	35.8	48.2	61.6	110	27.0	37.0	46.0	1.2	0.55	2.27
260211-612-GP	11/02/26	390	29.1	165	3:45	1	37.1	51.8	67.4					1.2	0.54	2.24
260209-611-GP	09/02/26	385	29.1	165	3:45	1	35.6	49.5	64.2	110	29.5	41.0	54.5	1.2	0.54	2.32
260206-219-GP	06/02/26	395	29.1	165	3:45	1	37.1	50.1	64.2					1.4	0.53	2.36
260203-217-GP	03/02/26	400	29.1	165	4:00	1	37.8	50.1	64.4	90	31.5	43.0	55.5	1.3	0.54	2.34
260130-056-GP	30/01/26	390	29.1	150	3:45	1	35.9	49.2	64.3	90	31.5	40.0	54.5	1.6	0.53	2.25
260126-017-GP	26/01/26	400	29.1	165	4:00	1	36.2	50.1	63.6					1.2	0.55	2.31

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  
Chemical Technician



Portland Works, Portland, Whangarei 0178

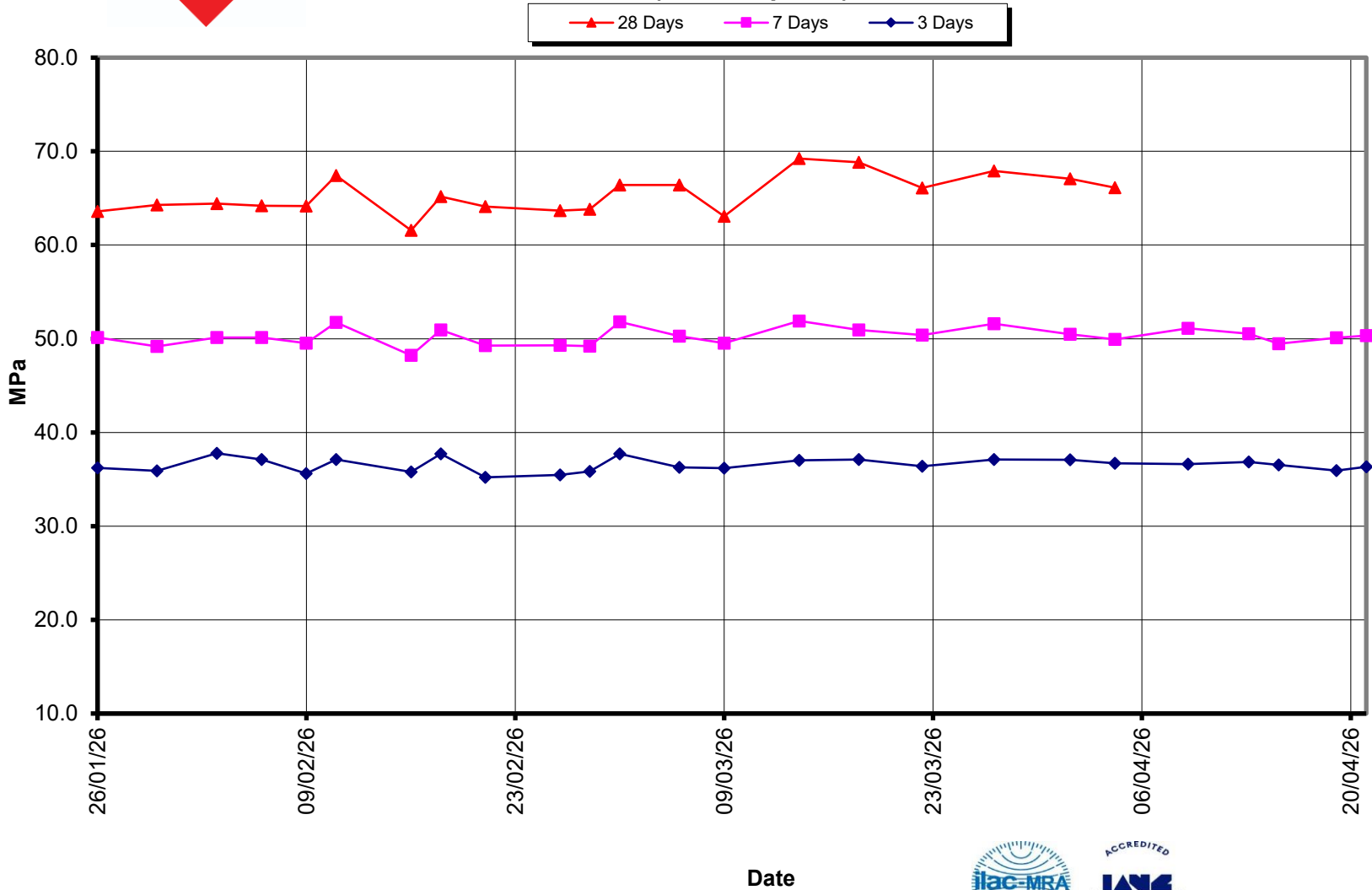
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# EcoSure® Type GP Cement

## Compressive Strength ISO-CEN Mortar (Bulk Dispatch)





# EcoSure® Type GP Cement

## Compressive Strength Concrete (Bulk Dispatch)



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

