



CERTIFICATE OF QUALITY

EcoSure® Type GP Cement

NZS3122:2009 (Bulk & Bag Dispatch)



Issued to: National Sales Manager

Test Report No:

26#117

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		389	29.6	162	4:00	1	36.2	50.3	67.3	92	27.6	37.9	48.9	1.4	0.54	2.31
Standard Deviation		8	0.6	11	0:11	0.2	0.8	1.0	2.1	13	2.4	2.3	2.0	0.2	0.01	0.02
Min		375	28.8	135	3:30	0	34.6	49.0	64.2	80	24.5	35.0	46.5	1.0	0.53	2.25
Max		400	30.5	180	4:15	1	38.2	52.1	71.2	120	31.5	41.5	53.0	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	%	%	%
260722-898-GP	22/07/26	390	30.4	165	4:00	1	36.3	51.1		90	26.0			1.3	0.53	2.28
260720-904-GP	20/07/26	380	29.9	150	4:15	1	36.1	49.8						1.5	0.54	2.33
260718-589-GP	18/07/26	390	30.2	150	4:00	1	38.2	50.5		100	26.5			1.6	0.54	2.31
260711-585-GP	11/07/26	375	30.5	165	4:15	1	36.8	50.2						1.5	0.54	2.31
260709-587-GP	09/07/26	395	30.5	165	3:45	1	36.1	50.3						1.5	0.53	2.31
260703-260-GP	03/07/26	375	30.0	165	4:00	1	36.6	51.3						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
260526-276-GP	26/05/26	395	29.0	165	4:15	1	36.6	51.5	70.5	90	27.0	37.0	47.5	1.4	0.55	2.29
260523-118-GP	23/05/26	385	29.0	165	4:15	1	36.2	50.4	69.2	80	28.0	36.5	49.5	1.6	0.54	2.32
260518-879-GP	18/05/26	395	28.9	165	4:00	1	34.6	49.1	66.5					1.3	0.54	2.30
260515-738-GP	15/05/26	400	29.1	165	4:00	1	35.7	51.0	66.0					1.3	0.53	2.32
260511-736-GP	11/05/26	380	29.1	165	4:15	1	35.0	49.8	68.6	80	31.5	40.5	51.5	1.1	0.53	2.32
260506-597-GP	06/05/26	380	29.0	165	4:15	1	36.3	52.1	71.2					1.1	0.54	2.30
260503-595-GP	03/05/26	395	29.1	180	4:15	1	37.2	51.6	69.6	100	31.0	40.5	48.0	1.0	0.55	2.31
260430-433-GP	30/04/26	390	29.1	165	4:00	1	37.2	52.0	70.3	110	31.0	41.5	53.0	1.1	0.54	2.30
260425-328-GP	25/04/26	395	29.2	165	4:00	1	35.7	50.8	68.8					1.1	0.55	2.25
260421-032-GP	21/04/26	390	29.1	165	4:00	1	36.3	50.3	65.7	120	28.5	37.5	48.0	1.2	0.56	2.29
260419-030-GP	19/04/26	390	29.1	180	4:00	1	35.9	50.1	65.6					1.2	0.55	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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M Korach

Marley Korach-Salt
Chemical Technician



Portland Works, Portland, Whangarei 0178

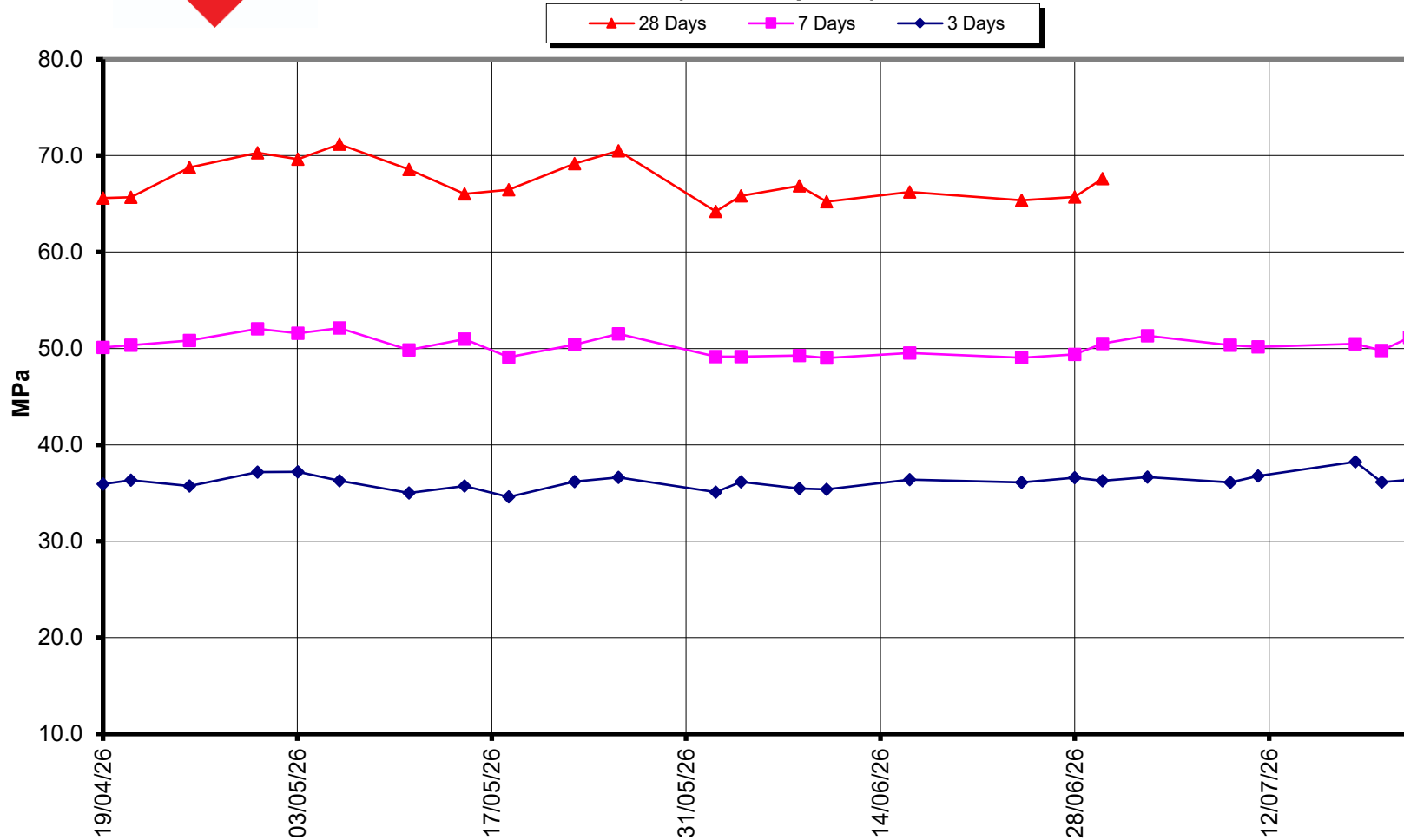
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EcoSure® Type GP Cement

Compressive Strength ISO-CEN Mortar (Bulk Dispatch)





EcoSure® Type GP Cement

Compressive Strength Concrete (Bulk Dispatch)

