CERTIFICATE OF QUALITY

EcoFast® Type HE Cement

NZS 3122:2009

Issued to: National Sales Manager

Test Report No: 26#170

info@goldenbay.co.nz

Code	Week Ending	Specific Surface Area	Normal Consistency	Initial Set	Final Set	Sound-ness	Compressive Strength									Free Lime	Sodium Equivalent (NaEq)	Sulphur Trioxide (SO_3)
							ISO-CEN				Concrete							
							1 day	3 days	7 days	28 days	Slump	1 day	3 days	7 days	28 days			
Mean		522	32.4	127	3:09	1	22.9	42.6	54.7	68.3	86.0	15.0	38.1	46.1	56.5	1.4	0.56	2.39
Standard Deviation		14	0.4	14	0:11	0.4	0.9	1.4	1.1	0.9	9.6	1.3	3.1	3.3	2.8	0.4	0.01	0.04
Min		500	32.1	105	2:45	0	21.3	39.4	52.0	66.4	70.0	12.0	32.0	41.0	52.5	0.6	0.54	2.31
Max		555	33.4	150	3:30	2	24.9	45.6	56.7	70.1	100.0	17.5	44.5	54.0	63.0	2.1	0.59	2.46
NZS 3122:2009 Requirements				45 min	6:00 max	5 max		25.0 min	40.0 min								0.6 max	3.5 max
Units		m^2/kg	%	minutes	hrs:mins	mm	Mpa	MPa	MPa	MPa	mm	Mpa	MPa	MPa	MPa	%	%	%
261019-877-HE	19/10/26	520	32.9	135	3:00	1	22.6	42.6	55.0		70	14.0	34.5	42.5		2.1	0.57	2.36
261002-009-HE	02/10/26	525	33.3	120	3:00	1	24.1	44.9	55.3		80	16.5	40.5	45.0		1.8	0.57	2.44
260918-401-HE	18/09/26	530	32.3	105	3:00	1	23.0	43.2	54.3	68.5	80	14.5	35.5	42.5	54.5	2.0	0.57	2.37
260904-761-HE	04/09/26	540	32.3	120	3:15	1	21.8	42.6	53.8	69.2	80	14.5	35.5	42.5	55.5	1.6	0.55	2.39
260821-251-HE	21/08/26	510	32.5	135	3:15	1	22.9	44.2	55.9	68.7	80	14.5	36.5	41.0	55.0	1.7	0.56	2.41
260806-538-HE	06/08/26	510	32.8	120	3:00	1	22.9	44.3	54.8	68.1	90	15.0	35.5	46.5	54.0	1.5	0.55	2.39
260723-900-HE	23/07/26	515	32.2	120	3:15	1	24.3	44.2	54.5	68.7	90	17.5	39.0	48.5	58.5	1.3	0.54	2.46
260709-259-HE	09/07/26	510	32.5	120	2:45	1	23.2	42.0	52.0	66.7	90	16.5	38.0	45.5	54.5	2.0	0.56	2.42
260616-580-HE	16/06/26	515	32.3	135	3:15	1	22.6	40.5	53.5	69.4	90	15.0	32.0	41.5	56.0	1.6	0.54	2.46
260615-139-HE	15/06/26	525	32.1	105	3:00	1	23.0	41.0	53.9	68.7	70	12.0	34.0	43.0	55.0	1.7	0.55	2.36
260515-033-HE	15/05/26	535	32.4	150	3:30	0	24.5	45.6	56.7	69.3	80	17.0	41.5	45.5	60.0	1.3	0.55	2.46
260425-432-HE	25/04/26	505	32.1	135	3:15	1	23.5	43.6	54.8	68.2	100	16.5	38.0	47.0	54.5	0.9	0.57	2.42
260421-430-HE	21/04/26	515	32.1	150	3:30	1	22.9	41.8	54.2	69.8	100	14.5	38.0	46.0	56.5	1.2	0.55	2.36
260327-665-HE	27/03/26	530	32.1	135	3:15	1	21.5	41.8	54.5	68.7	80	15.5	41.5	48.5	54.5	1.0	0.57	2.39
260313-400-HE	13/03/26	500	32.1	135	3:15	0	21.5	42.6	53.4	66.4	90	16.0	41.0	51.0	59.0	1.2	0.56	2.35
260306-691-HE	06/03/26	510	32.1	150	3:30	1	22.5	42.2	56.3	68.3	80	15.5	44.5	54.0	63.0	1.0	0.55	2.31
260213-879-HE	13/02/26	510	32.1	135	3:15	1	22.5	42.2	54.8	67.6	100	15.5	41.5	49.5	55.5	0.6	0.55	2.31
260205-222-HE	05/02/26	550	32.8	135	3:15	0	24.9	44.3	56.1	67.9	100	13.5	42.0	48.0	59.5	1.3	0.55	2.37
260123-853-HE	23/01/26	545	32.1	120	3:00	2	21.9	42.7	54.9	67.4	80	15.5	43.0	51.5	62.5	1.6	0.59	2.36
260109-297-HE	09/01/26	520	32.1	120	3:00	2	21.3	41.9	54.4	67.0	80	14.5	38.0	47.5	58.0	1.8	0.57	2.36
251224-617-HE	24/12/25	510	32.1	120	3:00	1	21.9	39.4	52.8	68.3	90	13.5	34.5	43.5	54.0	1.6	0.57	2.41
251214-159-HE	14/12/25	555	33.3	120	3:00	1	22.5	41.0	54.5	68.3	100	13.5	37.0	46.5	57.0	1.1	0.56	2.35
251127-327-HE	27/11/25	520	33.4	105	3:00	0	22.9	42.0	55.8	68.4	70	15.0	36.5	44.5	55.5	1.3	0.58	2.40
251110-639-HE	10/11/25	525	32.2	105	3:00	1	22.7	42.2	54.6	67.7	90	14.5	38.0	45.5	53.5	1.3	0.58	2.38
251102-112-HE	02/11/25	515	32.7	135	3:15	1	24.0	42.9	55.6	70.1	90	13.5	37.5	44.5	52.5	1.4	0.56	2.43

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 Analysis to ASTM C114-23

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

Re-test

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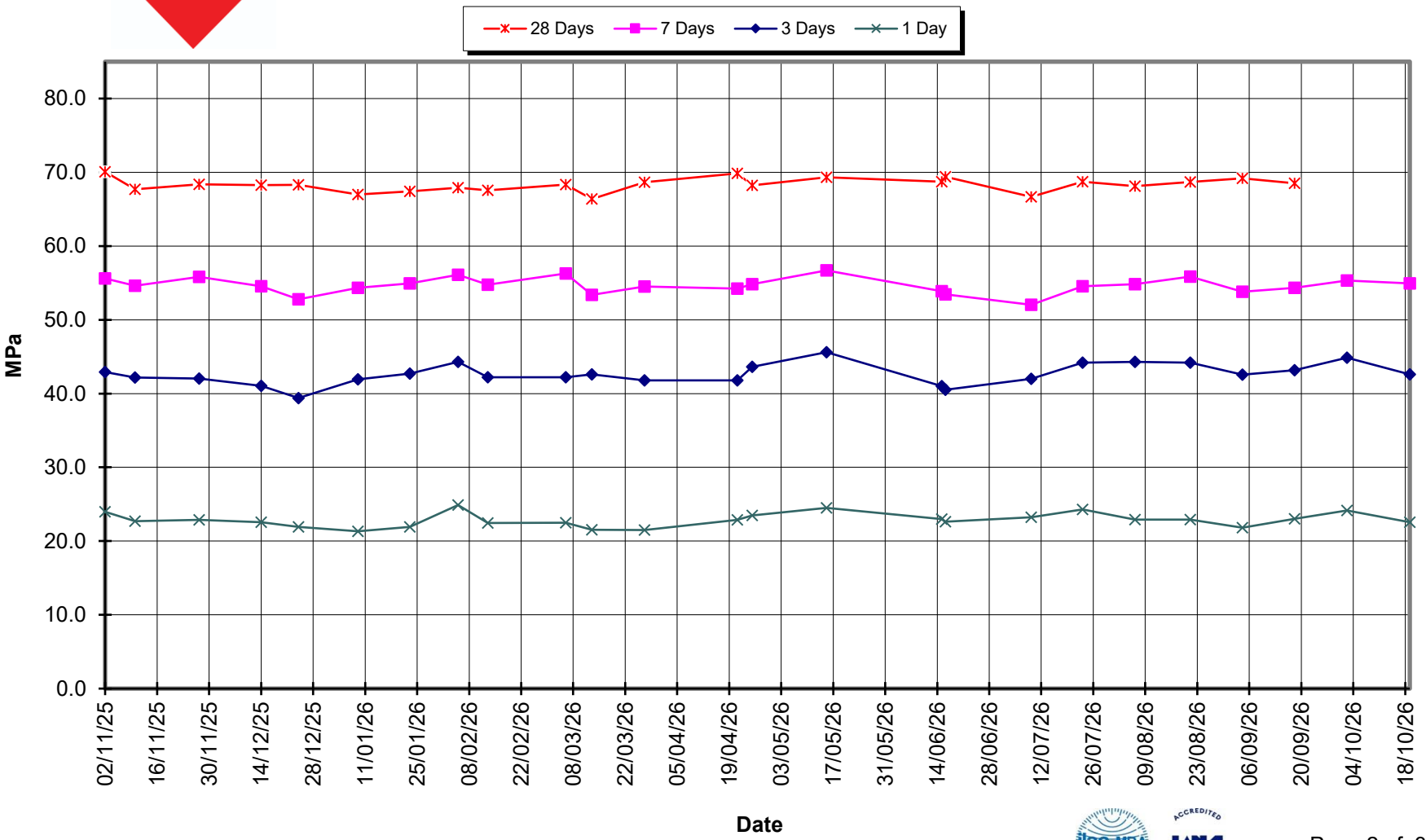
Marley Korach-Salt
Chemical Technician

Portland Works, Portland, Whangarei 0178

Date issued: 30/10/26

EcoFast®
Type HE Cement

Compressive Strength ISO-CEN Mortar

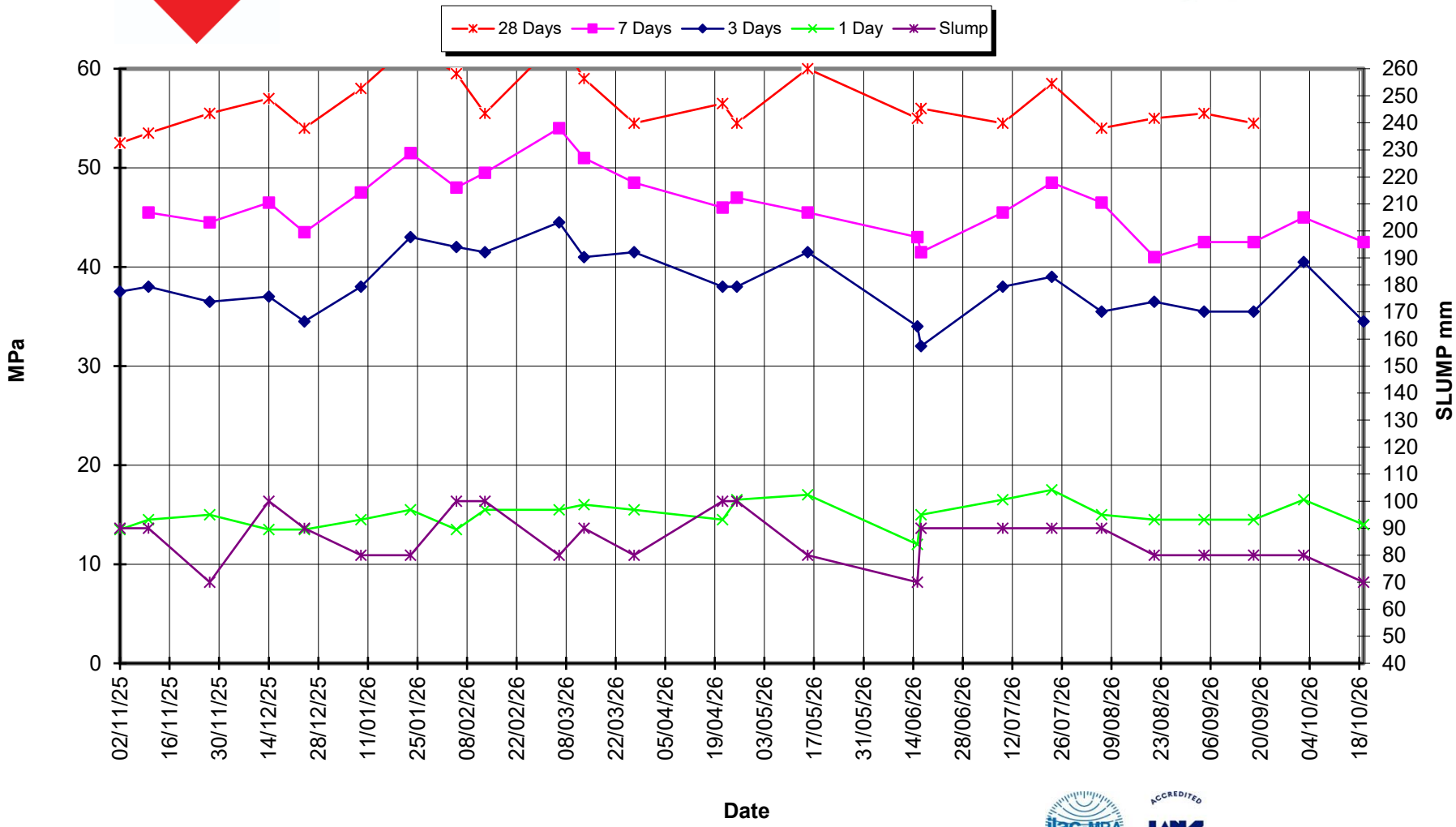


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