

CERTIFICATE OF QUALITY

EcoFast® Type HE Cement

NZS 3122:2009



Issued to: **National Sales Manager**

Test Report No: **24#38**

info@goldenbay.co.nz

Code	Week Ending	Specific Surface Area	Normal Consistency	Initial Set	Final Set	Soundness	Compressive Strength								Free Lime	Sodium Equivalent (NaEq)	Sulphur Trioxide (SO3)	
							ISO-CEN				Slump	Concrete						
							1 day	3 days	7 days	28 days		1 day	3 days	7 days				28 days
Mean		517	33.4	116	3:00	1	24.0	42.1	52.7	67.6	83.2	14.9	36.7	44.5	54.9	1.5	0.57	2.37
Standard Deviation		13	0.5	12	0:18	0.4	1.5	1.9	1.9	1.7	11.1	1.8	3.3	3.0	3.2	0.3	0.02	0.05
Min		500	31.9	90	2:30	0	21.2	38.5	48.7	65.0	70.0	11.5	31.5	39.5	50.0	1.0	0.52	2.31
Max		565	34.1	135	3:30	2	27.4	45.3	56.3	71.2	110.0	18.5	45.0	51.0	60.5	1.9	0.60	2.49
NZS 3122:2009 Requirements				45 min	6:00 max	5 max		25.0 min	40.0 min								0.6 max	3.5 max
Units		m2/kg	%	minutes	hrs:mins	mm	Mpa	MPa	MPa	MPa	mm	Mpa	MPa	MPa	MPa	%	%	%
240318-418-HE	18/03/24	520	34.0	135	3:30	1	24.1	43.1			70	17.0	42.5			1.8	0.57	2.44
240310-055-HE	10/03/24	505	33.1	120	3:15	1	24.2	44.3	53.7		90	15.0	35.0	43.5		1.1	0.58	2.37
240301-396-HE	01/03/24	520	32.8	120	3:00	1	23.9	42.0	52.8	67.7	90	14.0	34.5	45.5	55.5	1.6	0.56	2.36
240214-666-HE	14/02/24	515	32.9	120	3:00	2	23.5	42.3	53.2	66.0	70	16.0	37.0	45.5	54.5	1.3	0.57	2.38
240131-050-HE	31/01/24	565	33.0	120	3:15	1	23.2	44.3	50.6	65.9	90	15.0	36.5	43.5	52.5	1.7	0.56	2.40
240105-173-HE	05/01/24	510	33.1	120	2:45	1	24.9	40.0	51.9	65.6	70	15.0	38.0	44.0	50.0	1.8	0.56	2.38
231221-463-HE	21/12/23	530	33.0	135	3:15	1	27.4	41.4	56.3	67.9	80	15.0	35.5	44.0	51.0	1.1	0.56	2.33
231202-748-HE	02/12/23	520	31.9	105	3:00	1	24.3	42.9	53.1	65.0	80	14.0	31.5	40.0	52.0	1.9	0.60	2.32
231123-052-HE	23/11/23	525	32.5	135	3:15	0	24.0	38.6	53.3	68.4	90	15.0	36.5	42.5	54.5	1.8	0.58	2.31
231109-562-HE	09/11/23	505	33.3	120	3:00	1	23.8	42.7	55.7	66.8	80	15.5	36.5	46.0	56.5	1.3	0.58	2.34
231024-980-HE	24/10/23	525	33.6	105	2:30	1	25.6	41.8	51.8	67.0	100	14.5	35.5	42.0	50.5	1.7	0.54	2.43
231011-416-HE	11/10/23	515	33.6	105	2:45	1	25.0	43.8	53.5	71.2	90	12.0	34.0	41.0	52.5	1.7	0.52	2.44
230928-726-HE	28/09/23	520	33.7	120	3:00	0	24.9	43.8	53.8	68.2	80	13.0	32.5	42.0	50.5	1.5	0.58	2.42
230915-076-HE	15/09/23	515	33.7	90	3:15	1	26.4	45.3	56.1	69.3	80	18.5	45.0	51.0	59.5	1.1	0.55	2.35
230829-365-HE	29/08/23	500	33.5	105	2:45	1	24.6	41.9	48.7	68.7	90	17.0	34.5	46.0	58.0	1.2	0.54	2.39
230818-643-HE	18/08/23	535	33.5	105	2:45	1	25.1	42.0	52.2	66.8	80	14.0	36.5	45.5	56.0	1.3	0.57	2.35
230731-091-HE	31/07/23	505	33.6	105	2:30	1	24.1	42.6	52.3	68.7	80	14.5	35.0	42.0	51.5	1.4	0.57	2.45
230719-439-HE	19/07/23	510	33.8	105	2:45	1	25.3	44.7	54.7	67.1	70	14.0	41.0	49.0	57.5	1.5	0.56	2.35
230704-729-HE	04/07/23	520	33.6	105	2:30	0	22.9	43.8	53.1	68.5	70	16.0	35.0	45.0	60.5	1.7	0.58	2.38
230617-001-HE	17/06/23	510	33.6	120	3:00	1	22.0	38.5	52.7	70.4	90	15.5	38.0	47.0	54.5	1.9	0.56	2.33
230515-608-HE	15/05/23	510	34.1	135	3:30	1	22.2	40.9	51.7	70.7	100	11.5	33.0	42.5	57.5	1.3	0.57	2.36
230502-180-HE	02/05/23	505	33.8	105	3:00	1	21.2	39.1	52.3	65.7	110	18.5	40.0	48.5	59.5	1.6	0.54	2.32
230421-499-HE	21/04/23	520	33.7	120	3:30	0	21.4	39.2	49.9	66.8	90	12.5	33.5	39.5	53.5	1.4	0.60	2.32
230402-983-HE	02/04/23	505	33.6	135	3:15	1	22.4	40.8	50.6	65.6	70	13.0	39.5	44.0	56.5	1.0	0.58	2.31
230323-333-HE	23/03/23	510	34.0	120	3:00	1	24.2	43.1	51.1	66.6	70	17.0	41.0	49.5	59.0	1.5	0.58	2.49

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 C114-18

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

Data reported as per requirements of NZS 3112:1986 & ASTM C114-18

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Vincent Lane

Vincent Lane
Works Chemist



Portland Works, Portland, Whangarei 0178

Date issued: 08/04/24

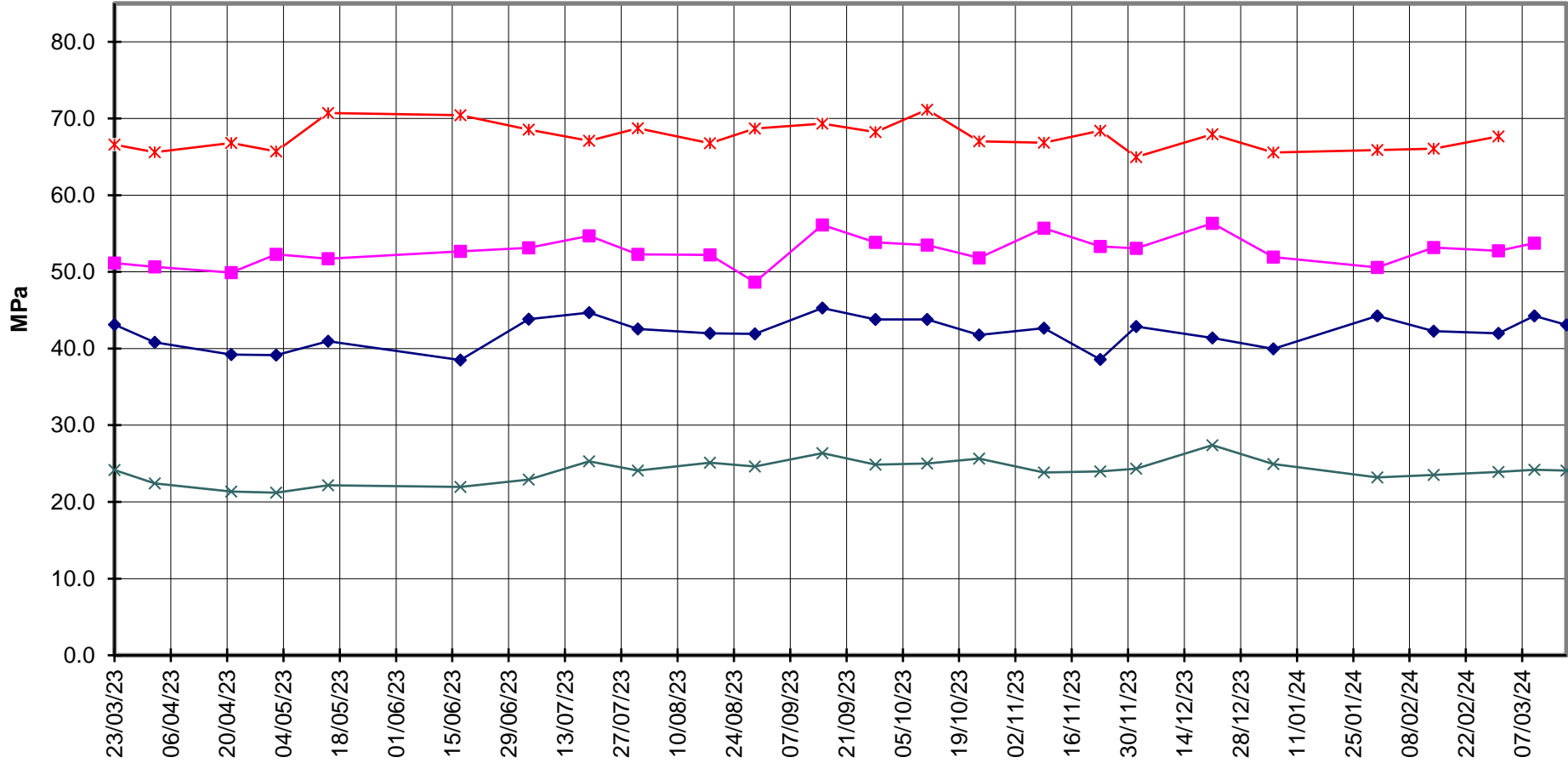
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EcoFast®
Type HE Cement
Compressive Strength ISO-CEN Mortar



—x— 28 Days —■— 7 Days —◆— 3 Days —x— 1 Day





EcoFast[®] Type HE Cement



Compressive Strength Concrete

—x— 28 Days —■— 7 Days —◆— 3 Days —x— 1 Day —*— Slump

