



CERTIFICATE OF QUALITY

EcoFast® Type HE Cement

NZS 3122:2009



Issued to: National Sales Manager

Test Report No: 24#126

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 (SO ₂)	
							ISO-CEN				Slump	Concrete						
							1 day	3 days	7 days	28 days		1 day	3 days	7 days				28 days
Mean		520	33.1	127	3:11	1	24.1	41.7	52.0	66.5	87.2	14.8	35.2	43.3	52.9	1.5	0.56	2.38
Standard Deviation		15	0.5	13	0:19	0.4	1.1	1.9	2.1	1.8	9.8	1.5	2.9	2.2	3.0	0.2	0.02	0.05
Min		500	31.6	105	2:30	0	22.7	37.2	48.0	64.0	70.0	11.5	29.5	38.0	48.0	1.1	0.52	2.29
Max		565	34.0	150	3:45	2	27.4	44.3	56.3	71.2	100.0	18.5	42.5	47.0	61.0	1.9	0.60	2.48
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	%	%	%
240925-558-HE	25/09/24	500	32.9	135	3:30	0	25.3	38.8			80	14.5	32.5			1.3	0.57	2.42
240909-114-HE	09/09/24	535	32.7	135	3:15	1	22.8	38.9	49.4		90	11.5	32.5	42.5		1.7	0.55	2.36
240825-361-HE	25/08/24	525	32.9	135	3:15	0	23.6	40.7	50.5	65.2	90	15.5	35.0	42.0	52.5	1.5	0.55	2.41
240814-686-HE	14/08/24	510	32.8	150	3:30	1	23.4	41.1	49.0	64.9	100	12.5	33.0	42.0	49.5	1.6	0.53	2.29
240729-144-HE	29/07/24	505	33.1	150	3:45	1	24.7	42.2	50.3	65.7	80	15.5	39.0	44.5	56.0	1.6	0.59	2.48
240716-575-HE	16/07/24	530	31.6	150	3:45	1	22.8	40.0	50.1	65.2	90	15.5	35.0	42.5	49.0	1.6	0.53	2.30
240621-277-HE	21/06/24	515	33.3	135	3:00	1	23.2	37.2	48.0	64.0	100	14.0	30.0	38.0	50.5	1.3	0.53	2.38
240605-539-HE	05/06/24	510	33.4	120	3:00	1	24.3	41.7	50.0	64.8	80	18.5	38.5	46.0	53.0	1.6	0.54	2.39
240523-038-HE	23/05/24	505	33.2	135	3:45	1	23.5	42.2	54.8	64.7	100	15.0	35.5	43.0	53.0	1.4	0.53	2.42
240429-362-HE	29/04/24	550	33.3	135	3:00	1	23.2	43.0	51.1	64.2	90	15.0	37.5	46.5	56.0	1.5	0.56	2.43
240421-987-HE	21/04/24	520	33.7	120	3:15	2	22.7	43.7	50.3	67.2	100	16.0	35.5	44.5	53.5	1.5	0.57	2.42
240409-388-HE	09/04/24	530	33.8	105	3:15	1	24.9	43.2	51.8	66.7	100	15.0	29.5	40.5	48.0	1.4	0.56	2.39
240318-418-HE	18/03/24	520	34.0	135	3:30	1	24.1	43.1	52.6	66.4	70	17.0	42.5	47.0	61.0	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	70.3	90	15.0	35.0	43.5	54.0	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	120	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

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 3122:1986.

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Vincent Lane
Works Chemist



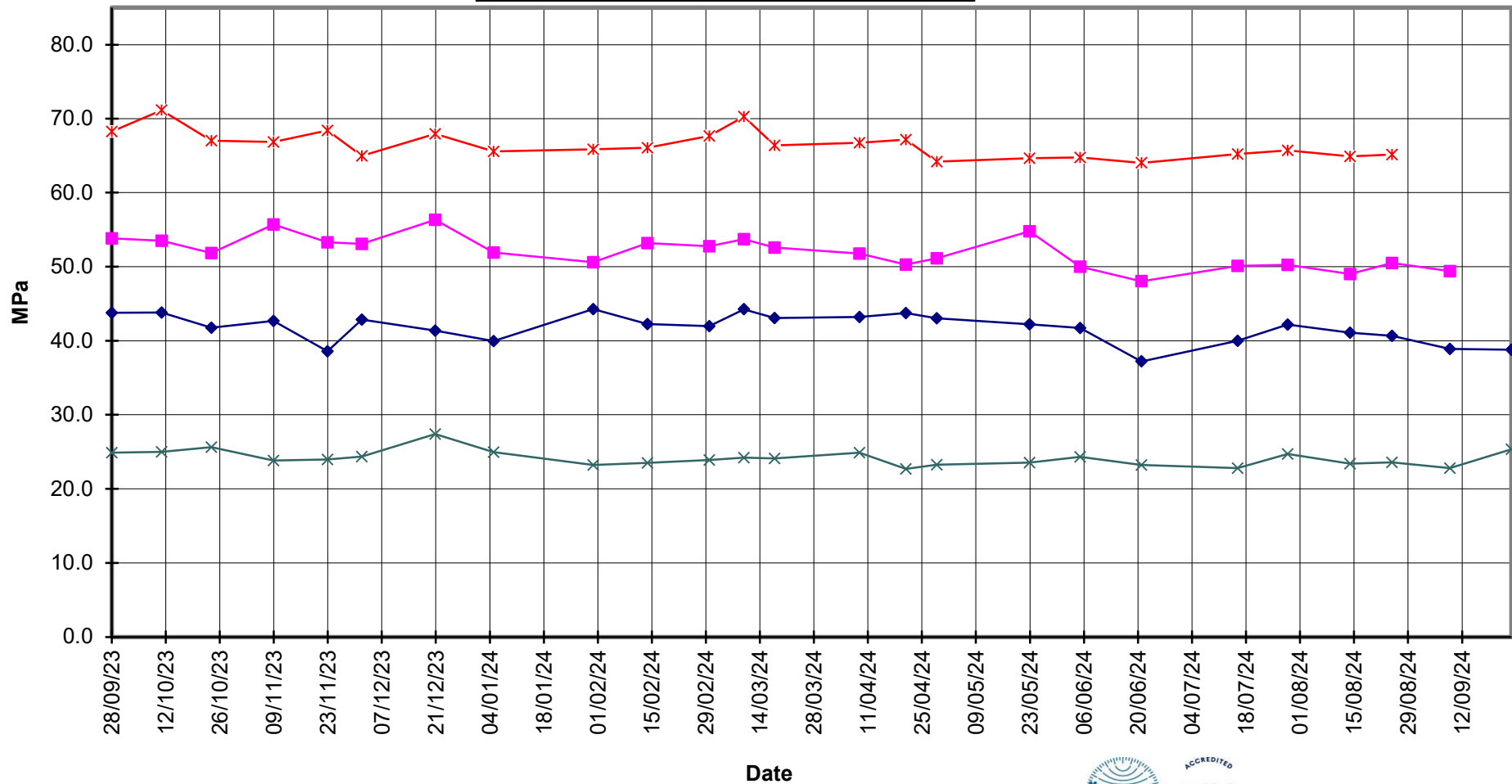
Portland Works, Portland, Whangarei 0178

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**EcoFast®
Type HE Cement
Compressive Strength ISO-CEN Mortar**





EcoFast®
Type HE Cement



Compressive Strength Concrete

