



CERTIFICATE OF QUALITY

EcoFast® Type HE Cement

NZS 3122:2009



Issued to: National Sales Manager

Test Report No: 23#124

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 (SO3)
							ISO-CEN					Concrete							
							1 Day	3 days	7 days	28 days	Slump	1 Day	3 days	7 days	28 days				
Mean		514	33.5	116	3:02	1	23.1	40.5	51.0	67.4	84.8	13.4	34.8	43.6	55.0	1.5	0.56	2.39	
Standard Deviation		13	0.5	13	0:19	0.4	1.6	3.2	3.2	1.7	11.6	2.8	4.2	3.9	3.3	0.3	0.02	0.06	
Min		470	32.0	90	2:30	0	20.7	32.6	42.8	64.5	70.0	8.5	28.5	35.5	49.5	1.0	0.52	2.28	
Max		535	34.2	150	3:45	2	26.4	45.3	56.1	70.7	110.0	18.5	45.0	51.0	60.5	1.9	0.60	2.53	
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	%	%	%	
231024-980-HE	24/10/23	525	33.6	105	2:30	1	25.6	41.8			100	14.5	35.5			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		90	12.0	34.0	41.0		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	105	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	
230309-656-HE	09/03/23	505	33.7	135	3:00	2	22.7	42.9	52.7	68.0	80	12.5	33.5	44.5	54.5	1.4	0.56	2.35	
230217-807-HE	17/02/23	530	34.0	120	3:00	1	22.9	40.8	49.9	65.3	80	12.0	32.5	40.0	54.0	1.8	0.59	2.43	
230203-221-HE	03/02/23	520	34.2	105	3:15	1	21.8	38.8	49.1	67.2	100	13.0	30.0	42.5	50.5	1.2	0.55	2.28	
221231-210-HE	31/12/22	520	33.3	105	3:00	1	22.3	39.1	52.7	67.7	80	15.5	34.5	45.0		1.5	0.56	2.53	
221223-708-HE	23/12/22	470	33.2	150	3:45	1	22.5	38.0	52.2	68.9	80	10.0	30.0	38.5	51.5	1.6	0.53	2.44	
221202-581-HE	02/12/22	520	33.3	135	3:15	1	21.9	40.1	51.1	68.3	80	13.0	36.5	46.5	55.0	1.6	0.55	2.35	
221126-239-HE	26/11/22	520	33.3	120	3:00	1	22.0	40.3	51.6	65.7	100	9.0	28.5	39.0	50.5	1.9	0.53	2.44	
221109-473-HE	09/11/22	515	32.9	120	3:15	1	20.9	32.6	44.6	66.6	100	8.5	29.5	35.5	49.5	1.9	0.55	2.35	
221027-783-HE	27/10/22	520	32.0	120	3:15	2	20.7	33.8	42.8	64.5	80	8.5	29.0	40.0	54.0	1.5	0.54	2.39	
221008-145-HE	08/10/22	535	32.0	120	3:15	1	21.5	35.8	44.7	65.7	70	11.0	33.0	42.0	56.5	1.5	0.57	2.39	

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

Testing Error-Result Not Available

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V. Lane

Vincent Lane
Works Chemist



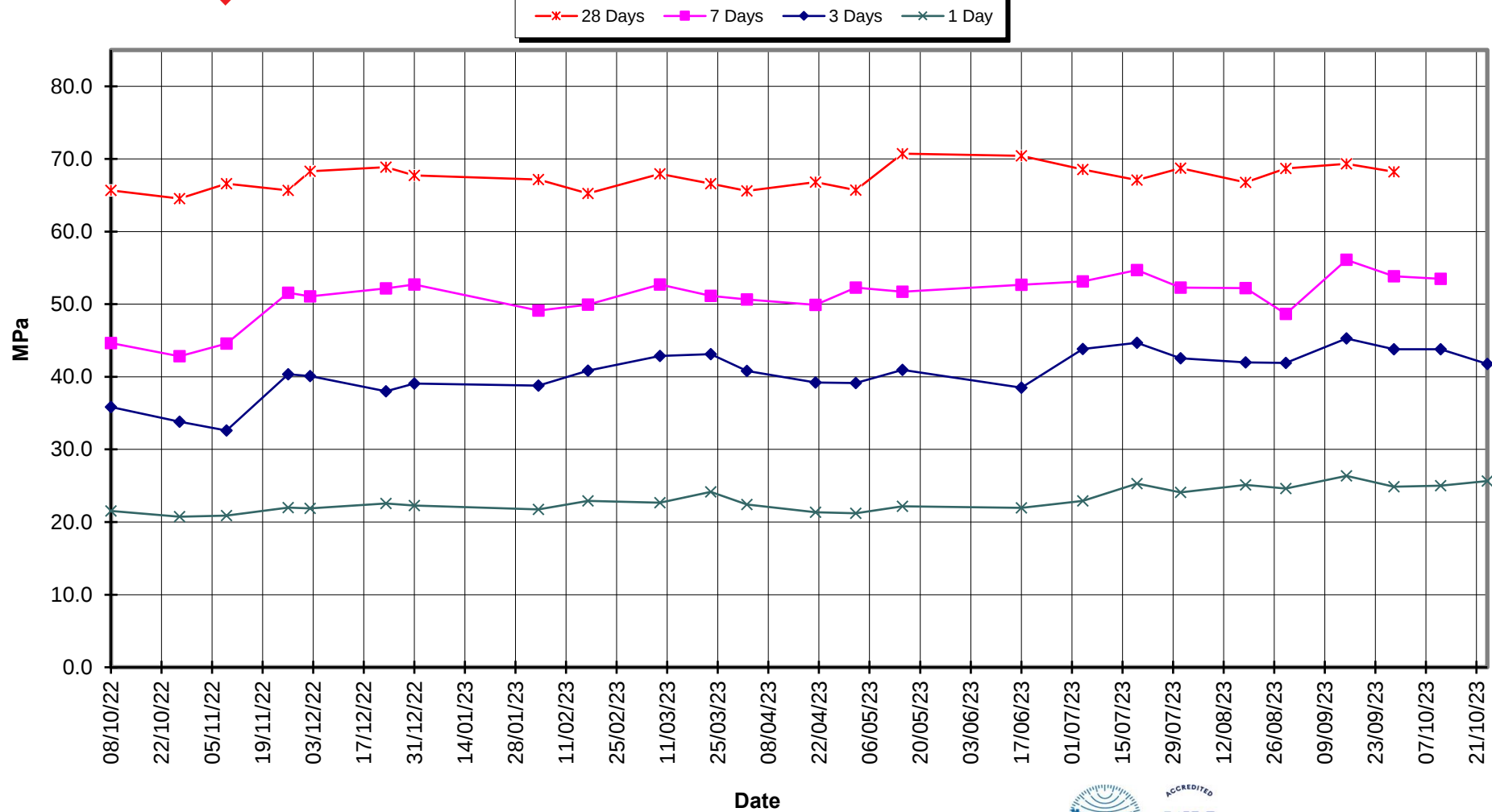
Portland Works, Portland, Whangarei 0178

Date issued: 03/11/23

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EcoFast® Type
HE Cement
Compressive Strength ISO-CEN Mortar





EcoFast® Type HE Cement



Compressive Strength Concrete

