



CERTIFICATE OF QUALITY

EverPlus™ (Class C Flyash)



Name of Power Station **Huntly**

Testing Laboratory **GBC & Cement Australia**

Source of Sampling **Eastport & Portland Flyash Silos**

Grade of Sample **Grade 1**

Issued to: **National Sales Manager**

Test Report No: **21#90**

Code	Date of Sampling	Moisture %	Loss on Ignition %	Passing 45 Micron %	Sulphate SO3 * %	Available Alkali * %	Total Alkali (Na2O Equiv) %	Relative Density	Relative Water %	Strength Index %	Chloride * %	Chemical Composition (SiO2 + Al2O3 + Fe2O3)
Mean		0.1	0.4	86.3	1.0	1.4	2.29	2.64	89.5	103.8	0.011	65.7
Standard Deviation		0.0	0.2	1.8	0.3	0.4	0.31	0.05	0.9	2.6	0.004	2.2
Min		0.0	0.1	83.8	0.6	1.0	1.84	2.55	88.0	101.2	0.006	61.8
Max		0.1	1.0	90.0	1.4	2.0	3.16	2.67	90.2	106.3	0.014	70.9
AS/NZS 3582.1-2016		<0.5	< 4.0	> 75	< 3.0						<0.1	> 60%
210430-027	30/04/21	0.0	0.3	#	#	#	#	2.60	#	#	#	#
210424-180	24/04/21	0.0	0.3	#	#	#	#	#	#	#	#	#
210418-660	18/04/21	0.0	0.3	85.9	#	#	2.39	#	#	#	#	67.3
210415-332	15/04/21	0.0	0.2	83.9	#	#	2.32	#	#	#	#	65.6
210410-345	10/04/21	0.1	0.3	85.8	#	#	2.34	#	#	#	#	68.8
210404-031	04/04/21	0.0	0.1	85.1	#	#	2.70	#	#	#	#	68.4
210330-630	30/03/21	0.1	0.3	83.8	#	#	2.37	2.65	90.2	#	#	66.8
210325-177	25/03/21	0.1	0.5	85.4	#	#	2.13	#	#	#	#	67.2
210321-864	21/03/21	0.0	0.2	87.2	#	#	2.33	#	#	#	#	67.5
210306-460	06/03/21	0.0	0.2	84.0	#	#	2.38	#	#	#	#	66.2
210228-218	28/02/21	0.0	0.3	84.3	0.6	1.0	1.84	2.55	88.0	106.3	0.006	70.9
210227-050	27/02/21	0.0	0.4	88.4	#	#	2.45	#	#	#	#	61.8
210213-209	13/02/21	0.1	0.2	90.0	#	#	2.43	#	#	#	#	62.5
210206-890	06/02/21	0.1	0.4	85.8	#	#	2.29	#	#	#	#	62.9
210130-672	30/01/21	0.0	0.4	87.4	1.4	2.0	3.16	2.67	89.7	101.2	0.014	64.3
210130-631	30/01/21	0.0	0.5	87.2	#	#	2.02	#	#	#	#	64.6
210123-439	23/01/21	0.0	0.3	89.5	#	#	2.08	#	#	#	#	64.8
210116-250	16/01/21	0.0	0.3	85.3	#	#	1.85	#	#	#	#	65.3
210109-142	09/01/21	0.1	1.0	87.5	#	#	2.44	#	#	#	#	64.2
201230-569	30/12/20	0.1	0.4	85.7	1.0	1.2	2.28	2.67	89.8	106.0	0.010	66.1
201219-119	19/12/20	0.0	0.5	87.3	#	#	1.86	#	#	#	#	63.6
201210-796	10/12/20	0.0	0.3	88.6	#	#	1.85	#	#	#	#	63.6
201205-394	05/12/20	0.0	0.6	85.0	#	#	2.10	#	#	#	#	67.0
201130-055	30/11/20	0.1	0.5	87.3	1.1	1.5	2.62	2.67	90	102	0.014	65.8
201201-002	28/11/20	0.1	0.6	85.4	#	#	2.41	#	#	#	#	66.1

* Cement Australia, Nata Accredited Laboratory Nos: 187 188

The Relative Water & Relative Strength Tests used NZS 3122 Type GP cement in the mortars
The above samples were tested as received in accordance with methods stated in the AS 3583 series.

Total alkali & chemical composition results outside the scope of accreditation.
No result available at time of certificate issue

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Date issued: **06/05/21** Portland Works, Portland, Whangarei 0178

