AMRIZE Cement Test Report

Mill Test Report Number:	**SEA_NEWCEM_August_2025**
YEAR:	**2025**
MONTH OF PRODUCTION:	**July**
PLANT:	**Seattle**
CEMENT TYPE:	**NewCem Grade 100**

Reference Cement

Fineness by Air Permeability (m^2/kg; ASTM C204)	438	
Fineness by 45 µm (No. 325) Sieve (% retain; ASTM C430)	3.8	
Compressive Strength (ASTM C109/C109 M)	**psi**	**Min Limit**
7-day	5,150	-
28-day	6,250	5,000
	Actual	**Limits**
Total Alkalies (Na_2O + 0.658 K_2O) (%, ASTM C114)	0.80	0.6-0.9

Slag

CHEMICAL ANALYSIS	**Percent**
Silica Dioxide (SiO_2; ASTM C114)	29.1
Ferric Oxide (Fe_2O_3; ASTM C114)	1.0
Aluminum Oxide (Al_2O_3; ASTM C114)	11.2
Calcium Oxide (CaO; ASTM C114)	39.6
Sulfur Trioxide (SO_3; ASTM C114)	7.6
Magnesium Oxide (MgO; ASTM C114)	4.4
Loss on Ignition (L.O.I.; ASTM C114)	1.54
Total Alkalies	0.55
Inorganic Process Addition	7.4

Slag

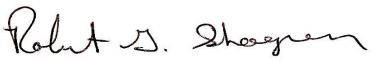
Fineness by Air Permeability (m^2/kg; ASTM C204)	466	
Fineness by 45 µm (No. 325) Sieve (% retain; ASTM C430)	3.9	
Compressive Strength (ASTM C109/C109 M)		**SAI Limit**
	SAI	**Min**
28-day (Previous Month)	97	95
Specific Gravity (Mg/m^3; ASTM C188)	2.87	
	Actual	**Max Limit**
Air Content of Mortar (%, ASTM C185)	7.6	12
Sulfide Sulfur (% S, ASTM C114)	0.8	2.5
Sulfate Ion (% as SO3, ASTM C114)	6.8	A
Sulfate Expansion (% Expansion, ASTM C1038, CSA C5)	0.001	0.020
Color Value L*	77.1	

[A] Not Applicable.

The ground granulated blast furnace slag complies with the current specification of the chemical physical requirement of ASTM C-989, AASHTO M-302 for grade 100 Ground Granulated Blast Furace Slag (GGBFS) and and CSA A3001 Slag.
Slag source is JFE Mineral Company in Kurashiki City, Japan. NewCem is ground and manufactured in Seattle, WA.

NSF Certified to NSF/ANSI/CAN 61

Certified by:



Rob Shogren
Technical Director
August 5, 2025