

Mill Test Report Number: SEA\_NEWCEM\_November\_2025

YEAR: 2025 DUCTION: October

MONTH OF PRODUCTION: October PLANT: Seattle

**CEMENT TYPE: NewCem Grade 100** 

Reference Cement				
Fineness by Air Permeability (m²/kg; ASTM C204)	440			
Fineness by 45 µm (No. 325) Sieve (% retain; ASTM C430)	3.8			
Compressive Strength (ASTM C109/C109 M) 7-day 28-day	<b>psi</b> 5,250 6,180	Min Limit - 5,000		
Total Alkalies (Na₂O + 0.658 K₂O) (%, ASTM C114)	<u>Actual</u> 0.84	<u>Limits</u> 0.6-0.9		

Slag	
CHEMICAL ANALYSIS	Percent
Silica Dioxide (SiO <sub>2;</sub> ASTM C114)	31.4
Ferric Oxide (Fe <sub>2</sub> O <sub>3;</sub> AS I M C114)	0.8
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> ; ASTM C114)	12.8
Calcium Oxide (CaO; ASTM C114)	40
Sulfur I rioxide (SO <sub>3</sub> ; AS I M C114)	4.1
Magnesium Oxide (MgO; ASTM C114)	4.8
Loss on Ignition (L.O.I.; ASTM C114)	1.15
Total Alkalies	0.56
Inorganic Process Addition	4

	Slag	
Fineness by Air Permeability (m²/kg; ASTM C204)	450	
Fineness by 45 µm (No. 325) Sieve (% retain; ASTM C430)	3.7	
Compressive Strength		
(ASTM C109/C109 M)	SAI	SAI Limit <u>Min</u>
28-day (Previous Month)	101	95
Specific Gravity (Mg/m³; ASTM C188)	2.89	
,	<u>Actual</u>	Max Limit
Air Content of Mortar (%, ASTM C185)	7	12
Sulfide Sulfur (% S, ASTM C114)	0.8	2.5
Sulfate Ion	3.3	А
(% as SO3, ASTM C114)	0.004	0.020
Sulfate Expansion (% Expansion, ASTM C1038, CSA C5)	0.001	0.020
Color Value L*	77.0	

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.



Certified by:

Rob Shogren Technical Director

November 5, 2025

A. D. Shoopen

A Not Applicable.