



# MaxCem® Mill Test Report

## Month of Issue: May 2024

<b>Plant:</b>	<b>Seattle, Washington</b>
<b>Product:</b>	<b>MaxCem® - Type IT(L11)(S30)MS</b>
<b>Month of Production:</b>	<b>April 2024</b>
<b>Mill Test Report Number:</b>	<b>SEA_MAXCEM_May 2024</b>

### ASTM C 595 and AASHTO M 240 Standard Requirements

CHEMICAL ANALYSIS			PHYSICAL ANALYSIS		
Item	Spec limit	Test Result	Item	Spec limit	Test Result
<i>Rapid Method, X-Ray (C 114)</i>					
SiO <sub>2</sub> (%)	---	22.9	Air content of mortar (%) (C 185)	12 max	6
Al <sub>2</sub> O <sub>3</sub> (%)	---	7.3	Blaine Fineness (m <sup>2</sup> /kg) (C 204)	---	479
Fe <sub>2</sub> O <sub>3</sub> (%)	---	2.5	Fineness, Residue retained on a 45 um sieve (%)	---	2.2
CaO (%)	---	54.4			
MgO (%)	---	2.6	Compressive strength ([PSI]) (C 109)		
Sulphate as SO <sub>3</sub> (%)	3.0 max*	2.8	3 days	1890 min	2870
Loss on ignition (%)	10.0 max	4.6	7 days	2900 min	4410
Total Alkalis (Type IL)	---	0.48	28 days Previous Month	3620 min	6470
Slag addition (%)		30	Time of setting (minutes)		
Richmond Type IL (%)		70	Vicat Initial (C 191)	45 - 420	154
			C-1038 Expansion 14-day (%) (C 1038)*	0.020	0.004

\*Table 1 chemical requirements states that SO<sub>3</sub> content above 3.0 is permissible if the C1038 expansion is below 0.020% at 14 days.

**We certify that the above described cement, at the time of shipment, meets the chemical and physical ASTM C595 Standard Requirements and AASHTO M 240.**

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Certified By:

**Rob Shogren - Technical Director**

May 3, 2024