



# MaxCem® Mill Test Report

## Month of Issue: January 2023

<b>Plant:</b>	Seattle, Washington
<b>Product:</b>	MaxCem® - Type IT(L11)(S30)MS
<b>Month of Production:</b>	December of 2022
<b>Mill Test Report Number:</b>	SEA_MAXCEM_January2023

### 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>			<i>Air content of mortar (%) (C 185)</i>		
SiO2 (%)	---	23.7		12 max	6
Al2O3 (%)	---	7.4	<i>Blaine Fineness (m2/kg) (C 204)</i>		
Fe2O3 (%)	---	2.5		---	490
CaO (%)	---	60.2	<i>Fineness, Residue retained on a 45 um sieve (%)</i>		
MgO (%)	---	2.2		---	3.0
Sulphate as SO3 (%)	3.0 max*	3.4	<i>Autoclave expansion (%) (C 151)</i>		
Loss on ignition (%)	10.0 max	3.4		0.80 max	0.00
Total Alkalis (Type IL)	---	0.5		-0.20 min	
Slag addition (%)		30	<i>Compressive strength ([PSI]) (C 109)</i>		
Richmond Type IL (%)		70		1890 min	3120
				2900 min	4030
				3620 min	6440
			<i>Time of setting (minutes)</i>		
				45 - 420	125
			<i>Vicat Initial (C 191)</i>		
				0.020	0.002
			<i>C-1038 Expansion 14-day (%) (C 1038)*</i>		

\*Table 1 chemical requirements states that SO3 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:

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January 3, 2023