



MaxCem® Mill Test Report

Month of Issue: August 2023

Plant:	Seattle, Washington
Product:	MaxCem® - Type IT(L11)(S30)MS
Month of Production:	July 2023
Mill Test Report Number:	SEA_MAXCEM_August2023

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 (%)	---	23.5		12 max	6
Al2O3 (%)	---	7.9	<i>Blaine Fineness (m2/kg) (C 204)</i>		
Fe2O3 (%)	---	2.4		---	456
CaO (%)	---	57.0	<i>Fineness, Residue retained on a 45 um sieve (%)</i>		
MgO (%)	---	2.0		---	2.7
Sulphate as SO3 (%)	3.0 max*	3.2	<i>Autoclave expansion (%) (C 151)</i>		
Loss on ignition (%)	10.0 max	4.5		0.80 max	-0.01
Total Alkalis (Type IL)	---	0.48		-0.20 min	
Slag addition (%)		30	<i>Compressive strength ([PSI]) (C 109)</i>		
Richmond Type IL (%)		70			
			3 days	1890 min	2860
			7 days	2900 min	4030
			28 days Previous Month	3620 min	6250
			<i>Time of setting (minutes)</i>		
			<i>Vicat Initial (C 191)</i>		
				45 - 420	138
			<i>C-1038 Expansion 14-day (%) (C 1038)*</i>		
				0.020	0.002

*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:

Rob Shogren - Technical Director

August 4, 2023