



MaxCem® Mill Test Report

Month of Issue: April 2022

Plant:	Seattle, Washington
Product:	MaxCem® - Type IT(L11)(S30)MS
Month of Production:	March of 2022
Mill Test Report Number:	SEA_MAXCEM_April2022

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 (%)	---	24.2		12 max	5
Al2O3 (%)	---	7.7	<i>Blaine Fineness (m2/kg) (C 204)</i>		
Fe2O3 (%)	---	2.6		---	459
CaO (%)	---	55.5	<i>Fineness, Residue retained on a 45 um sieve (%)</i>		
MgO (%)	---	2.4		---	2.9
Sulphate as SO3 (%)	3.0 max*	3.4	<i>Autoclave expansion (%) (C 151)</i>		
Sulfide Sulfur (S) (%)	2.0 max	0.24		0.80 max	-0.01
Loss on ignition (%)	10.0 max	2.6		-0.20 min	
Total Alkalis (Type IL)	---	0.52	<i>Compressive strength (MPa, [PSI]) (C 109)</i>		
Slag addition (%)		30			
Richmond Type IL (%)		70			
			<i>3 days</i>		
				13.0 [1890] min	20.1 [2920]
			<i>7 days</i>		
				20.0 [2900] min	29.9 [4340]
			<i>28 days Previous Month</i>		
				25.0 [3620] min	42.9 [6220]
			<i>Time of setting (minutes)</i>		
			<i>Vicat Initial (C 191)</i>		
				45 - 420	115
			<i>C-1038 Expansion 14-day (%) (C 1038)*</i>		
				0.020	0.001

*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.

Lafarge PNW, Inc - Seattle Plant
 5400 W. Marginal Way SW, Seattle, WA 98106
 Phone: 206-937-8025

Certified By:

Rob Shogren - Technical Director

April 6, 2022