



# MaxCem® Mill Test Report

Month of Issue: February 2021

<b>Plant:</b>	Seattle, Washington
<b>Product:</b>	MaxCem® - Type IT(L11)(S30)
<b>Shipped:</b>	January 2021
<b>Mill Test Report Number:</b>	SEA_MAXCEM_FEBRUARY2021

## ASTM C 595-17 and AASHTO M 240-17 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 (%)	---	22.6		12 max	5
Al2O3 (%)	---	6.8	<i>Blaine Fineness (m2/kg) (C 204)</i>		
Fe2O3 (%)	---	2.8		---	480
CaO (%)	---	57.4	<i>Fineness, Residue retained on a 45 um sieve (%)</i>		
MgO (%)	---	5.0		---	1.6
Sulphate as SO3 (%)	3.0 max*	3.9	<i>Autoclave expansion (%) (C 151)</i>		
Sulfide Sulfur (S) (%)	2.0 max	0.24		0.80 max	0.05
Loss on ignition (%)	10.0 max	3.5		-0.20 min	
Total Alkalis (Type IL)	---	0.52	<i>Compressive strength (MPa, [PSI]) (C 109)</i>		
Slag addition (%)		30	3 days	13.0 [1890] min	25.6 [3710]
Richmond Type IL (%)		70	7 days	20.0 [2900] min	33.8 [4900]
			28 days, Previous Month	25.0 [3620] min	48.9 [7084]
			<i>Time of setting (minutes)</i>		
			<i>Vicat Initial (C 191)</i>		
				45 - 420	153
			<i>C-1038 Expansion 14-day (%) (C 1038)*</i>		
				0.020	0.010

\*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 C595-17 Standard Requirements and AASHTO M 240-17.

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Certified By:

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February 11, 2021