



# MaxCem 50 Mill Test Report

Month of Issue: OCTOBER 2021

Plant: Seattle, Washington  
 Product: Type IT(L8)(S50)  
 Shipped: SEPTEMBER 2021  
 Mill Test Report Number: SEA\_MAXCEM50\_OCTOBER2021

## ASTM C 595-17 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>		
SiO <sub>2</sub> (%)	---	24.1		12 max	5
Al <sub>2</sub> O <sub>3</sub> (%)	---	7.5	<i>Blaine Fineness (m<sup>2</sup>/kg) (C 204)</i>		
Fe <sub>2</sub> O <sub>3</sub> (%)	---	2.5		---	465
CaO (%)	---	57.9	<i>Fineness, Residue retained on a 45 um sieve (%)</i>		
MgO (%)	---	2.2		---	4.3
Sulphate as SO <sub>3</sub> (%)	3.0 max*	3.5	<i>Autoclave expansion (%) (C 151)</i>		
Sulfide Sulfur (S) (%)	2.0 max	0.33		0.80 max	-0.05
Loss on ignition (%)	10.0 max	4.0		-0.20 min	
Total Alkalis (Type IL)	---	0.5	<i>Compressive strength (MPa, [PSI]) (C 109)</i>		
Rich Mill Cert #R-TIL-21-09					
Slag addition (%)		50	<i>7 days</i>		
Richmond Type I (%)		50		20.0 [2900] min	3080 [21.2]
			<i>28 days Previous Month</i>		
				25.0 [3620] min	5870 [40.5]
			<i>Time of setting (minutes)</i>		
			<i>Vicat Initial (C 191)</i>		
				45 - 420	141
			<i>False Set (%)</i>		
				---	86.0

\*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.

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Certified By:

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October 15, 2021