



# MaxCem 50 Mill Test Report

Month of Issue: NOVEMBER 2021

<b>Plant:</b>	Seattle, Washington
<b>Product:</b>	Type IT(L8)(S50)
<b>Shipped:</b>	OCTOBER 2021
<b>Mill Test Report Number:</b>	SEA_MAXCEM50_NOVEMBER2021

### 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>					
SiO <sub>2</sub> (%)	---	25.4	Air content of mortar (%) (C 185)	12 max	6
Al <sub>2</sub> O <sub>3</sub> (%)	---	8.5	Blaine Fineness (m <sup>2</sup> /kg) (C 204)	---	465
Fe <sub>2</sub> O <sub>3</sub> (%)	---	2.6	Fineness, Residue retained on a 45 um sieve (%)	---	2.8
CaO (%)	---	55.4	Autoclave expansion (%) (C 151)	0.80 max -0.20 min	-0.01
MgO (%)	---	3.4	Compressive strength (MPa, [PSI]) (C 109)		
Sulphate as SO <sub>3</sub> (%)	3.0 max*	4.8	7 days	20.0 [2900] min	4370 [30.1]
Sulfide Sulfur (S) (%)	2.0 max	0.33	28 days	25.0 [3620] min	6330 [43.7]
Loss on ignition (%)	10.0 max	3.2	Time of setting (minutes)		
Total Alkalis (Type IL)	---	0.55	Vicat Initial (C 191)	45 - 420	131
Rich Mill Cert #R-TIL-21-10			False Set (%)	---	87.0
Slag addition (%)		50			
Richmond Type I (%)		50			

\*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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November 15, 2021