



MaxCem 50 Mill Test Report

Month of Issue: APRIL 2020

Plant:	Seattle, Washington
Product:	Type IT(L8)(S50)
Shipped:	MARCH 2021
Mill Test Report Number:	SEA_MAXCEM50_APRIL2021

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 ₂ (%)	---	26.8	Air content of mortar (%) (C 185)	12 max	6
Al ₂ O ₃ (%)	---	9.5	Blaine Fineness (m ² /kg) (C 204)	---	480
Fe ₂ O ₃ (%)	---	2.1	Fineness, Residue retained on a 45 um sieve (%)	---	4.8
CaO (%)	---	52.7	Autoclave expansion (%) (C 151)	0.80 max -0.20 min	-0.03
MgO (%)	---	3.4	Compressive strength (MPa, [PSI]) (C 109)		
Sulphate as SO ₃ (%)	3.0 max*	3.6	7 days	20.0 [2900] min	3640 [25.1]
Sulfide Sulfur (S) (%)	2.0 max	0.33	28 days Previous Month	25.0 [3620] min	5010 [34.6]
Loss on ignition (%)	10.0 max	0.9	Time of setting (minutes)		
Total Alkalis (Type IL)	---	0.52	Vicat Initial (C 191)	45 - 420	130
Rich Mill Cert #R-TIL-21-04					
Slag addition (%)		50			
Richmond Type IL (%)		50			

*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.

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Certified By:

Daniel Waldron - QC Laboratory Supervisor

April 14, 2021