



MaxCem® Mill Test Report

Month of Issue: January 2022

Plant: Seattle, Washington
 Product: MaxCem® - Type IT(L11)(S30)MS
 Shipped: December 2021
 Mill Test Report Number: SEA_MAXCEM_JANUARY2022

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>		
SiO ₂ (%)	---	23.3		12 max	5
Al ₂ O ₃ (%)	---	7.3	<i>Blaine Fineness (m²/kg) (C 204)</i>		
Fe ₂ O ₃ (%)	---	2.5		---	448
CaO (%)	---	58.0	<i>Fineness, Residue retained on a 45 um sieve (%)</i>		
MgO (%)	---	1.8		---	2.3
Sulphate as SO ₃ (%)	3.0 max*	3.2	<i>Autoclave expansion (%) (C 151)</i>		
Sulfide Sulfur (S) (%)	2.0 max	0.24		0.80 max	0.00
Loss on ignition (%)	10.0 max	3.7		-0.20 min	
Total Alkalis (Type IL)	---	0.54	<i>Compressive strength (MPa, [PSI]) (C 109)</i>		
Slag addition (%)		30	3 days	13.0 [1890] min	23.0 [3330]
Richmond Type IL (%)		70	7 days	20.0 [2900] min	31.8 [4610]
			28 days	25.0 [3620] min	43.3 [6280]
			<i>Time of setting (minutes)</i>		
			<i>Vicat Initial (C 191)</i>		
				45 - 420	106
			<i>C-1038 Expansion 14-day (%) (C 1038)*</i>		
				0.020	0.007

*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.

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Certified By:

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January 14, 2022