



MaxCem® Mill Test Report

Month of Issue: December 2021

Plant: Seattle, Washington

Product: MaxCem® - Type IT(L11)(S30)MS

Shipped: November 2021

Mill Test Report Number: SEA_MAXCEM_DECEMBER2021

ASTM C 595 and AASHTO M 240 Standard Requirements

CHEMICAL ANALYSIS			PHYSICAL ANALYSIS		
Item	Spec limit	Test Result	Item	Spec limit	Test Result
Rapid Method, X-Ray (C 114)					
			Air content of mortar (%) (C 185)	12 max	7
SiO2 (%)		23.2			
			Blaine Fineness (m2/kg) (C 204)		430
Al2O3 (%)		7.5			
			Fineness, Residue retained on a 45 um		2.1
Fe2O3 (%)		2.7	sieve (%)		
CaO (%)		57.3	Autoclave expansion (%) (C 151)	0.80 max	-0.01
()				-0.20 min	
MgO (%)		1.9	Compressive strength (MPa, [PSI]) (C 109)	0.20	
5 ()			3 days	13.0 [1890] min	21.0 [3050]
Sulphate as SO3 (%)	3.0 max*	3.3	7 days	20.0 [2900] min	29.9 [4340]
Sulfide Sulfur (S) (%)	2.0 max	0.24	28 days	25.0 [3620] min	41.9 [6070]
Loss on ignition (%)	10.0 max	3.1	Time of setting (minutes)		
			Vicat Initial <i>(C 191)</i>	45 - 420	120
Total Alkalia (Tyma II)		0.57	C 4039 Evpopoion 44 doy (9/) (C 4039)*	0.020	0.003
Total Alkalis (Type IL)		0.57	C-1038 Expansion 14-day (%) (C 1038)*	0.020	0.003
Slag addition (%)		30			
Richmond Type IL (%)		70			

^{*}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.

Certified By:

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December 13, 2021