



MaxCem® Mill Test Report

Month of Issue: May 2021

Plant: Seattle, Washington
 Product: MaxCem® - Type IT(L11)(S30)MS
 Shipped: April 2021
 Mill Test Report Number: SEA_MAXCEM_MAY2021

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 (%)	---	24.1		12 max	7
Al ₂ O ₃ (%)	---	7.1	<i>Blaine Fineness (m²/kg) (C 204)</i>		
Fe ₂ O ₃ (%)	---	2.6		---	450
CaO (%)	---	57.2	<i>Fineness, Residue retained on a 45 um sieve (%)</i>		
MgO (%)	---	4.0		---	3.3
Sulphate as SO ₃ (%)	3.0 max*	3.6	<i>Autoclave expansion (%) (C 151)</i>		
Sulfide Sulfur (S) (%)	2.0 max	0.24		0.80 max	0.03
Loss on ignition (%)	10.0 max	2.2		-0.20 min	
Total Alkalis (Type IL)	---	0.52	<i>Compressive strength (MPa, [PSI]) (C 109)</i>		
Slag addition (%)		30	3 days	13.0 [1890] min	23.0 [3300]
Richmond Type IL (%)		70	7 days	20.0 [2900] min	30.1 [4360]
			28 days, Previous Month	25.0 [3620] min	41.6 [6030]
			<i>Time of setting (minutes)</i>		
			<i>Vicat Initial (C 191)</i>		
				45 - 420	138
			<i>C-1038 Expansion 14-day (%) (C 1038)*</i>		
				0.020	0.006

*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.

US West BU - Seattle Plant
 5400 W. Marginal Way SW, Seattle, WA 98106
 Phone: 206-937-8025

Certified By:

Daniel Waldron - QC Laboratory Supervisor

May 10, 2021