LAFARGE CEMENT

eco 45% reduction in CO_2

MaxCem® Mill Test Report

Month of Issue: March 2022

Plant:	**Seattle, Washington**
Product:	**MaxCem® - Type IT(L11)(S30)MS**
Shipped:	**February 2022**
Mill Test Report Number:	**SEA_MAXCEM_MARCH2022**

ASTM C 595 and AASHTO M 240 Standard Requirements

CHEMICAL ANALYSIS

Item	Spec limit	Test Result
Rapid Method, X-Ray *(C 114)*		
SiO2 (%)	---	24.2
Al2O3 (%)	---	7.7
Fe2O3 (%)	---	2.6
CaO (%)	---	55.5
MgO (%)	---	2.4
Sulphate as SO3 (%)	3.0 max*	3.4
Sulfide Sulfur (S) (%)	2.0 max	0.24
Loss on ignition (%)	10.0 max	2.6
Total Alkalis (Type IL)	---	0.52
Slag addition (%)		30
Richmond Type IL (%)		70

PHYSICAL ANALYSIS

Item	Spec limit	Test Result
Air content of mortar (%) *(C 185)*	12 max	5
Blaine Fineness (m2/kg) *(C 204)*	---	459
Fineness, Residue retained on a 45 um sieve (%)	---	2.9
Autoclave expansion (%) *(C 151)*	0.80 max -0.20 min	-0.01
Compressive strength (MPa, [PSI]) *(C 109)*		
3 days	13.0 [1890] min	23.0 [3330]
7 days	20.0 [2900] min	31.9 [4620]
28 days Previous Month	25.0 [3620] min	46.8 [6790]
Time of setting (minutes)		
Vicat Initial *(C 191)*	45 - 420	115
C-1038 Expansion 14-day (%) (C 1038)*	0.020	0.001

*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:

Daniel Waldron - QC Laboratory Supervisor

March 14, 2022

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