LAFARGE CEMENT

45% reduction in CO_2

MaxCem® Mill Test Report

Month of Issue: May 2022

Plant:	**Seattle, Washington**
Product:	**MaxCem® - Type IT(L11)(S30)MS**
Produced:	**April 2022**
Mill Test Report Number:	**SEA_MAXCEM_May2022**

ASTM C 595 and AASHTO M 240 Standard Requirements

CHEMICAL ANALYSIS

Item	Spec limit	Test Result
Rapid Method, X-Ray *(C 114)*		
SiO2 (%)	---	23.7
Al2O3 (%)	---	6.8
Fe2O3 (%)	---	2.6
CaO (%)	---	56.4
MgO (%)	---	4.8
Sulphate as SO3 (%)	3.0 max*	3.7
Sulfide Sulfur (S) (%)	2.0 max	0.80
Loss on ignition (%)	10.0 max	3.1
Total Alkalis (Type IL)	---	0.41
Slag addition (%)		30
Richmond Type IL (%)		70

PHYSICAL ANALYSIS

Item	Spec limit	Test Result
Air content of mortar (%) *(C 185)*	12 max	4
Blaine Fineness (m2/kg) *(C 204)*	---	330
Fineness, Residue retained on a 45 um sieve (%)	---	2.0
Autoclave expansion (%) *(C 151)*	0.80 max -0.20 min	0.03
Compressive strength (PSI) *(C 109)*		
3 days	1890 min	3580
7 days	2900 min	4890
28 days Previous Month	3620 min	6220
Time of setting (minutes)		
Vicat Initial *(C 191)*	45 - 420	120
C-1038 Expansion 14-day (%) (C 1038)*	0.020	0.009

*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: Robert S. Shogren

Rob Shogren - Technical Director

May 2, 2022

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