



Cement Mill Test Report

Month of Issue: December 2020

Plant: Richmond, BC
 Product: Portland Cement Type GU
 Manufactured: November 2020
 Mill Test Report Number: GU(L25)_December2020

ASTM C-1157 Standard Requirements

CHEMICAL ANALYSIS			PHYSICAL ANALYSIS		
Item	Spec limit	Test Result	Item	Spec limit	Test Result
Rapid Method, X-Ray			Air content of mortar (%)		8
SiO2 (%)		17.8	Blaine Fineness (m2/kg)		725
Al2O3 (%)		4.5	-45 (%)		99.1
Fe2O3 (%)		3.0	Autoclave expansion (%)	0.8 max	0.01
CaO (%)		60.2	Compressive strength (PSI)		
MgO (%)		1.3	3 days	1450 min	4450.0
SO3 (%)		2.3	7 days	2470 min	5440.0
Loss on ignition (%)		10.2	28 days (Previous month's data)		6380.0
Insoluble residue (%)		0.30	Time of setting (minutes)		
Free Lime (%)		1.1	Vicat Initial	45 - 420	88
			Limestone (%)		25.0
NaEq (%)	---	0.46			

We certify that the above described cement, at the time of shipment, meets the chemical and physical requirements of ASTM C-1157 Type GU Cement.

Certified By:

Rob Shogren - Technical Director

February 15, 2021