



Cement Mill Test Report

Month of Issue: MAY 2023

Plant: Product: Mill Test Report # Manufactured: Richmond, British Columbia Portland Cement Type GU C-GU-23-04

MARCH 2023

CSA A3001-18 Standard Requirements

CHEMICAL ANALYSIS			PHYSICAL ANALYSIS		
Item	Spec limit	Test Result	ltem	Spec limit	Test Result
Rapid Method, X-Ray			Air content of mortar (%) (C 185)		-
SiO2 (%)		19.9			
AI2O3 (%)		3.9	Blaine Fineness (m2/kg)		397
Fe2O3 (%)		3.5			
CaO (%)		62.3	Passing 45 um (%) (C 430)	72 min	99.2
MgO (%)	5.0 max	5.0			
SO3 (%)	3.0 max*	2.8			
Loss on ignition @ 950 (%)	3.5 max	2.7			
Loss on ignition @ 550 (%)	3.0 max	0.8	Compressive strength (Mpa)		
Insoluble residue (%)	1.5 Max	-			
			3 days	14.5 min	28.5
			7 days	20.0 min	34.2
			28 days (Reflects previous month's data)	26.5 min	40.4
Potential Phase Composition					
			Time of setting (minutes)		
C3S (%)		63	Vicat Initial (C 191)	45 - 375	123
C2S (%)		10			
C3A (%)	8	4			
C4AF (%)		11	Colour (L*)		
			Mortar Bar Expansion C5 (%) **	0.020 max	-
			Mortar Bar Resistence C6 (%) **	0.050 max	-

CSA A3001-18 Optimal Chemical Requirements NaEq (Alkali) (%) 0.60 max

 (Alkali) (%)
 0.60 max
 0.55

 * May exceed 3.0% SO3 maximum based on our A3004-C5 results of <0.02% expansion at 14 days</td>

We certify that the above described cement, at the time of shipment, meets the chemical and physical requirements of applicable specifications for Type GU

CSA A3001-18 STANDARD SPECIFICATIONS FOR TYPE GU CEMENT.

Western BU - Richmond 7611 No 9 Rd Richmond, BC 604 244 4300 Questions or enquiries can be directed to Matt Dalkie

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Certified By:

Robyn van Zutphen Quality Supervisor 5/3/2023