



Cement Mill Test Report

Date of Issue: June 9, 2026

Plant: Exshaw AB
Product: Portland Cement Type I/II
Mill Test Report Number: ESW_Type I-II 2026-05
Manufactured during the month of: May 2026

ASTM C 150-24 and AASHTO M 85-24 Standard Requirements

CHEMICAL ANALYSIS			PHYSICAL ANALYSIS		
Item	Spec limit	Test Result	Item	Spec limit	Test Result
Rapid Method, X-Ray (C114)			Air content of mortar (%) (C185)		
SiO ₂ (%)	---	19.1		12 max	6
Al ₂ O ₃ (%)	6.0 max	4.1	Blaine Fineness (m ² /kg) (C204)		
Fe ₂ O ₃ (%)	6.0 max	3.5		260 min	407.86
CaO (%)	---	62.1	Passing 45 µm (%) (C430)		
MgO (%)	6.0 max	4.5		---	98.3
SO ₃ (%)*	3.0 max *	3.2	Compressive strength (MPa, [psi]) (C 109)		
Loss on Ignition (%)	3.5 max	2.7	3 days	12.0 [1740] min	28.4 [4,118]
Insoluble Residue (%)	1.5 max	0.3	7 days	19.0 [2760] min	34.2 [4,959]
CO ₂ (%)	---	1.7	28 days (Previous Month's Result)		41.6 [6,028]
Limestone (%)	5.0 max	4.1	Time of setting (minutes)		
CaCO ₃ in Limestone (%)	70 min	88	Vicat Initial (C191)	45 - 375	105
Inorganic Process Addition (Cement Kiln Dust)	5.0 max	--	Mortar Bar Expansion (%) (C1038)**		
Adjusted Potential Phase Composition (C50)				0.020 max	0.012
C ₃ S (%)	---	59	Specific Gravity (For Information Purposes Only)		
C ₂ S (%)	---	10			3.15
C ₃ A (%)	8 max	5			
C ₄ AF (%)	---	11			
C ₃ S+4.75*C ₃ A (%)	100 max	82			
ASTM C 150-17 and AASHTO M 85-17 Optional Requirements:			False set (%) (C451)		
Na ₂ O _{eq}	0.60 max	0.52		50 min	82

* May exceed the SO₃ maximum based on C 1038 results of <0.020% expansion at 14 days.

We certify that the above described cement, at the time of shipment, meets the chemical and physical requirements of:
ASTM C 150-24 & AASHTO M 85-24 STANDARD SPECIFICATIONS FOR TYPES I / II CEMENTS; and
ASTM C 150-24 & AASHTO M 85-24 OPTIONAL CHEMICAL REQUIREMENTS FOR TYPES I / II LOW ALKALI CEMENT.
Exceptions: ASTM C430 is not within the current Scope of Accreditation.

Western Canada BU - Exshaw Plant
P.O. Box 160, Highway 1A, Exshaw AB, T0L 2C0
Phone: 403-673-3815



Certified By:

John W Blair
Quality Manager

Our Exshaw Cement Plant proudly produces cement that qualifies as a Product of Canada, supporting domestic supply.



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Additional Data

Item	Test Result	
	Limestone	Inorganic Process Addition Lafarge Cement Kiln Dust
Amount (%)	4.1	--
SiO ₂ (%)	2.0	14.4
Al ₂ O ₃ (%)	0.5	3.3
Fe ₂ O ₃ (%)	0.2	2.3
CaO (%)	49.1	53.4
SO ₃ (%)	0.2	3.2
CO ₂ (%)	42.4	n/a

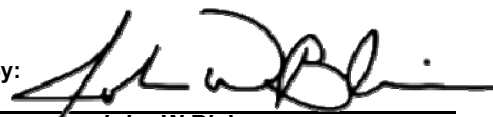
Base Cement Phase Composition

Item	Test Result
C ₃ S (%)	61
C ₂ S (%)	10
C ₃ A (%)	5
C ₄ AF (%)	11

We certify that the data above reflects the materials used in cement manufacture during the production period indicated.

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