



Cement Mill Test Report

Date of Issue: September 9, 2026

Plant: Exshaw AB
Product: Portland Cement Type I/II
Mill Test Report Number: ESW_Type I-II 2026-08
Manufactured during the month of: August 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 (%)	---	19.3		12 max	7
Al ₂ O ₃ (%)	6.0 max	4.1	Blaine Fineness (m ² /kg) (C204)		
Fe ₂ O ₃ (%)	6.0 max	3.6		260 min	412
CaO (%)	---	61.9	Passing 45 µm (%) (C430)		
MgO (%)	6.0 max	4.5		---	98.9
SO ₃ (%)*	3.0 max *	3.4	Compressive strength (MPa, [psi]) (C 109)		
Loss on Ignition (%)	3.5 max	2.6	3 days	12.0 [1740] min	28.4 [4,118]
Insoluble Residue (%)	1.5 max	0.3	7 days	19.0 [2760] min	37.1 [5,378]
CO ₂ (%)	---	1.7	28 days (Previous Month's Result)		43.9 [6,360]
Limestone (%)	5.0 max	4.0	Time of setting (minutes)		
CaCO ₃ in Limestone (%)	70 min	88	Vicat Initial (C191)	45 - 375	112
Inorganic Process Addition (Cement Kiln Dust)	5.0 max	--	Mortar Bar Expansion (%) (C1038)**		
Adjusted Potential Phase Composition (C50)				0.020 max	0.010
C ₃ S (%)	---	56	Specific Gravity (For Information Purposes Only)		
C ₂ S (%)	---	13			3.15
C ₃ A (%)	8 max	5	ASTM C 150-17 and AASHTO M 85-17 Optional Requirements:		
C ₄ AF (%)	---	11	Na ₂ Oeq	0.60 max	0.54
C ₃ S+4.75*C ₃ A (%)	100 max	78	False set (%) (C451)		
				50 min	83

* 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 (%)	4.0	--
SiO ₂ (%)	2.0	15.5
Al ₂ O ₃ (%)	0.5	3.6
Fe ₂ O ₃ (%)	0.3	2.5
CaO (%)	49.1	54.9
SO ₃ (%)	0.2	2.4
CO ₂ (%)	42.5	n/a

Base Cement Phase Composition

Item	Test Result
C ₃ S (%)	58
C ₂ S (%)	14
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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