

Cement Mill Test Report

Date of Issue: April 9, 2026

Plant: Exshaw, AB
 Product: Portland Cement Type III
 Mill Test Report Number: ESW_Type III 2026-03
 Manufactured during the month of: March 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 (XRF) (C114)			Air content of mortar (%) (C185)		
SiO ₂ (%)	---	19.2		12 max	7
Al ₂ O ₃ (%)	---	4.0	Blaine Fineness (m ² /kg) (C204)		
Fe ₂ O ₃ (%)	---	3.4		---	529
CaO (%)	---	62.0	Passing 45 μm (%) (C430)		
MgO (%)	6.0 max	4.6		---	99.3
SO ₃ (%) **	3.5 max	3.5	Compressive strength (MPa, [psi]) (C109)		
Loss on Ignition (%)	3.5 max	2.3	1 day	12.0 [1740] min	25.2 [3,647]
Insoluble Residue (%)	1.5 max	0.3	3 days	24.0 [3480] min	35.9 [5,200]
CO ₂ (%)	---	1.7	28 days	(Previous Month's Result)	52.3 [7,578]
Limestone (%)	5.0 max	3.9	Time of setting (minutes)		
CaCO ₃ in Limestone (%)	70 min	89	Vicat Initial (C191)		
Inorganic Process Addition (Cement Kiln Dust)	5.0 max	--		45 - 375	84
Adjusted Potential Phase Composition (C150)			Mortar Bar Expansion (%) (C1038)		
C ₃ S (%)	---	57		0.020 max	0.011
C ₂ S (%)	---	12	Specific Gravity (For Information Purposes Only)		
C ₃ A (%)	15 max	5			3.15
C ₄ AF (%)	---	10			

ASTM C 150-24 and AASHTO M 85-24 Optional Chemical Requirements:

Na₂Oeq (%) Weekly Averages: Week 1 0.57 Week 2 0.56 Week 3 0.58 Week 4 0.57 Max 0.60

** May exceed 3.0% SO₃ maximum based on C1038 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 TYPE III CEMENT; and
 ASTM C 150-24 & AASHTO M 85-24 OPTIONAL CHEMICAL REQUIREMENTS FOR TYPE III LOW ALKALI CEMENT.

Exceptions: C430 is excluded from the scope of the AASHTO 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 (%)		--
SiO ₂ (%)	1.6	14.6
Al ₂ O ₃ (%)	0.5	3.5
Fe ₂ O ₃ (%)	0.2	2.3
CaO (%)	50.0	52.1
SO ₃ (%)	0.2	2.7
CO ₂ (%)	42.6	n/a

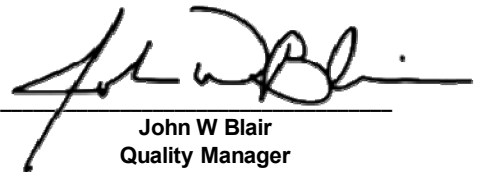
Base Cement Phase Composition

Item	Test Result
C ₃ S (%)	59
C ₂ S (%)	12
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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