



Cement Mill Test Report

Date of Issue: May 11, 2026

Plant: Exshaw, AB
 Product: Portland Cement Type III
 Mill Test Report Number: ESW_Type III 2026-04
 Manufactured during the month of: April 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 (%)	---	19.0		12 max	8
Al ₂ O ₃ (%)	---	4.1	Blaine Fineness (m²/kg) (C204)		
Fe ₂ O ₃ (%)	---	3.4		---	533
CaO (%)	---	61.7	Passing 45 μm (%) (C430)		
MgO (%)	6.0 max	4.6		---	99.3
SO ₃ (%) **	3.5 max	3.4	Compressive strength (MPa, [psi]) (C109)		
Loss on Ignition (%)	3.5 max	2.5	1 day	12.0 [1740] min	24.1 [3,501]
Insoluble Residue (%)	1.5 max	0.3	3 days	24.0 [3480] min	35.1 [5,091]
CO ₂ (%)	---	1.8	28 days	<u>(Previous Month's Result)</u>	51.0 [7,388]
Limestone (%)	5.0 max	4.3	Time of setting (minutes)		
CaCO ₃ in Limestone (%)	70 min	86	Vicat Initial (C191)	45 - 375	80
Inorganic Process Addition (Cement Kiln Dust)	5.0 max	--	Mortar Bar Expansion (%) (C1038)		
Adjusted Potential Phase Composition (C150)				0.020 max	0.012
C ₃ S (%)	---	57	Specific Gravity (For Information Purposes Only)		
C ₂ S (%)	---	11			3.15
C ₃ A (%)	15 max	5			
C ₄ AF (%)	---	10			

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

Na₂Oeq (%) Weekly Averages:	Week 1	0.53	Week 2	0.52	Week 3	0.51	Week 4		Max	0.60
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** 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
 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 (%)	1.7	14.5
Al ₂ O ₃ (%)	0.5	3.4
Fe ₂ O ₃ (%)	0.2	2.3
CaO (%)	48.4	52.3
SO ₃ (%)	0.3	2.9
CO ₂ (%)	42.6	n/a

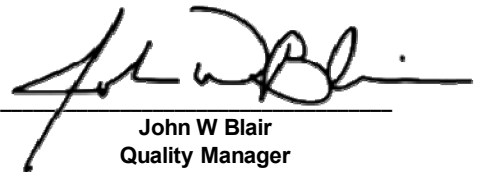
Base Cement Phase Composition

Item	Test Result
C ₃ S (%)	60
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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Quality Manager