

# Cement Mill Test Report

Date of Issue: April 9, 2026

Plant: Exshaw AB  
 Product: Portland Cement Type IL (12)  
 Mill Test Report Number: ESW\_Type IL12 2026-03  
 Manufactured during the month of: March 2026

CHEMICAL ANALYSIS			PHYSICAL ANALYSIS		
Item	Spec limit	Test Result	Item	Spec limit	Test Result
Rapid Method, X-Ray (XRF) (C114)			Blaine Fineness (m2/kg)		
SiO2 (%)	---	17.4		---	536
Al2O3 (%)	---	3.6	Retained 45 um (%)	24 max	0.6
Fe2O3 (%)	---	3.0	Air Content (%) (C186)	12 max	7
CaO (%)	---	60.4	Compressive Strength MPa [psi] C109		
MgO (%)	---	4.5	1 Day		MPa      psi
SO3 (%) **	3.0 max	3.5	3 Day	13.0 [1890] min	20.2 [2,922]
Loss on ignition @ 950 (%)	10.0 max	6.2	7 Day	20.0 [2900] min	31.7 [4,594]
Loss on ignition @ 550(%)		0.9	28 Day (Previous Month's Result)	25.0 [3620] min	36.6 [5,307]
Insoluble residue (%)*	1.5 max	0.5			43.0 [6,235]
Limestone Addition		12.5	Time of setting (minutes)		
Methylene Blue (D1)	1.2 Max	0.1	Vicat Initial	45 min	107
CaO Content (Limestone)		50	Vicat Final	420 max	284
CaCO <sub>3</sub> Content (Limestone)	75 Min	89	Mortar Bar Expansion (%) (C1038)		
CO <sub>2</sub> (%)		43		0.020 max	0.010
Inorganic Process Addition (Cement Kiln Dust)	5.0 max	0.5	Expansion Exposed to Sulphate (%) (C452) ***		
Phase Composition (For Information Purposes Only)				0.04 max	0.029
C3A (Bogue Calculation)		4.5	Specific Gravity (For Information Purposes Only)		
					3.11
			Colour (For Information Purposes Only)		
					35

Other Chemical Information:

Na<sub>2</sub>Oeq (%) Weekly Averages      Week 1   0.53      Week 2   0.52      Week 3   0.53      Week 4   0.54

\* Previous Month's Results

\*\* May exceed 3.0% SO<sub>3</sub> maximum based on ASTM C1038 results of <0.020% expansion at 14 days.

\*\*\* C452 Maximum limit pertains to Type HS no limit specified for Blended Hydraulic Cements

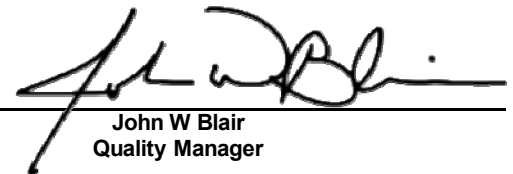
We certify that the above described cement, at the time of shipment, meets the chemical and physical requirements of  
 ASTM C595/C595M-25 & AASHTO M 240-24 STANDARD SPECIFICATIONS FOR TYPE IL (12).

Exceptions: ASTM C430 is not within the current Scope of Accrediation.

Western 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.