



Cement Mill Test Report

Date of Issue: September 10, 2026

Plant: Exshaw AB
Product: Portland Cement Type IL (12) (HS)
Mill Test Report Number: ESW_Type IL12 2026-08
Manufactured during the month of: August 2026

CHEMICAL ANALYSIS

PHYSICAL ANALYSIS

Item	Spec limit	Test Result	Item	Spec limit	Test Result
Rapid Method, X-Ray (XRF) (C114)					
SiO ₂ (%)	---	17.5	Blaine Fineness (m ² /kg)	---	537
Al ₂ O ₃ (%)	---	3.7	Retained 45 um (%)	24 max	0.4
Fe ₂ O ₃ (%)	---	3.2	Air Content (%) (C186)	12 max	7
CaO (%)	---	60.1			
MgO (%)	---	4.3	Compressive Strength MPa [psi] C109	MPa	psi
SO ₃ (%) **	3.0 max	3.5	1 Day	18.9	[2,746]
Loss on ignition @ 950 (%)	10.0 max	6.3	3 Day	13.0 [1890] min	30.9 [4,487]
Loss on ignition @ 550(%)		1.1	7 Day	20.0 [2900] min	36.0 [5,225]
Insoluble residue (%)*	1.5 max	0.6	28 Day (Previous Month's Result)	25.0 [3620] min	42.8 [6,207]
			Time of setting (minutes)		
Limestone Addition		12.2	Vicat Initial	45 min	105
Methylene Blue (D1)	1.2 Max	0.1	Vicat Final	420 max	270
CaO Content (Limestone)		49	Mortar Bar Expansion (%) (C1038)	0.020 max	0.012
CaCO ₃ Content (Limestone)	75 Min	88	Expansion Exposed to Sulphate (%) (C452) ***	0.035 max	0.026
CO ₂ (%)		42	Specific Gravity (For Information Purposes Only)		3.11
Inorganic Process Addition	5.0 max	0.5	Colour (For Information Purposes Only)		35
(Cement Kiln Dust)					
Phase Composition (For Information Purposes Only)					
C3A (Bogue Calculation)		4.3			

Other Chemical Information:

Na ₂ Oeq (%) Weekly Averages	Week 1	0.50	Week 2	0.50	Week 3	0.51	Week 4	0.50
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* Previous Month's Results

** May exceed 3.0% SO₃ 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-26 & AASHTO M 240-24 STANDARD SPECIFICATIONS FOR TYPE IL (12).

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

Western BU - Exshaw Plant
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Certified By:

John W Blair
Quality Manager

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