



## Cement Mill Test Report

Date of Issue: December 8, 2025

Plant: Exshaw AB  
Product: Portland Cement Type IL (12)  
Mill Test Report Number: ESW\_Type IL12 2025-11  
Manufactured during the month of: November 2025

### CHEMICAL ANALYSIS

### PHYSICAL ANALYSIS

Item	Spec limit	Test Result
Rapid Method, X-Ray (XRF) (C114)		
SiO <sub>2</sub> (%)	---	17.5
Al <sub>2</sub> O <sub>3</sub> (%)	---	3.7
Fe <sub>2</sub> O <sub>3</sub> (%)	---	3.1
CaO (%)	---	59.8
MgO (%)	---	4.6
SO <sub>3</sub> (%) **	3.0 max	3.5
Loss on ignition @ 950 (%)	10.0 max	5.7
Loss on ignition @ 550(%)		1.0
Insoluble residue (%)*	1.5 max	0.6
Limestone Addition		11.1
Specific Gravity (For Information Purposes Only)		3.11
Phase Composition (For Information Purposes Only)		
C3A (Bogue)		4.7

Item	Spec limit	Test Result
Blaine Fineness (m <sup>2</sup> /kg)	---	521
Retained 45 um (%)	24 max	0.4
Air Content (%) (C186)	12 max	6
Compressive Strength MPa [psi] C109		
1 Day	20.4	[2,960]
3 Day	13.0 [1890] min	31.5 [4,561]
7 Day	20.0 [2900] min	36.4 [5,276]
28 Day (Previous Month's Result)	25.0 [3620] min	43.4 [6,299]
Time of setting (minutes)		
Vicat Initial	45 min	91
Vicat Final	420 max	176
Mortar Bar Expansion (%) (C1038)	0.020 max	0.010
Colour (For Information Purposes Only)		35

#### Other Chemical Information:

Na<sub>2</sub>Oeq (%) Weekly Averages      Week 1   0.54      Week 2   0.55      Week 3   0.53      Week 4   0.51

\* 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.

We certify that the above described cement, at the time of shipment, meets the chemical and physical requirements of ASTM C595/C595M-24 & AASHTO M 240-24 STANDARD SPECIFICATIONS FOR TYPE IL (13).

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



Certified to  
NSF/ANSI/CAN 61



AASHTO  
ACCREDITED

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Certified By:

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