



# Cement Mill Test Report

Date of Issue: April 4, 2025

Plant: Exshaw AB  
 Product: Portland Cement Type IL (11) VCM Only  
 Mill Test Report Number: ESW\_Type IL11 2025-03-VCM  
 Manufactured during the month of: March 2025

## CHEMICAL ANALYSIS

Item	Spec limit	Test Result
Rapid Method, X-Ray (XRF) (C114)		
SiO2 (%)	---	17.3
Al2O3 (%)	---	3.5
Fe2O3 (%)	---	3.1
CaO (%)	---	60.0
MgO (%)	---	4.5
SO3 (%) **	3.0 max	3.6
Loss on ignition @ 950 (%)	10.0 max	6.6
Loss on ignition @ 550(%)		0.6
Insoluble residue (%)*	1.5 max	0.6
Limestone Addition		13.3
Specific Gravity (For Information Purposes Only)		3.12
Phase Composition (For Information Purposes Only)		
C3A (Bogue)		4.4

## PHYSICAL ANALYSIS

Item	Spec limit	Test Result
Blaine Fineness (m2/kg)	---	568
Retained 45 um (%)	24 max	0.1
Air Content (%) (C186)	12 max	6.4
Compressive Strength MPa [psi] C109		MPa psi
1 Day		20.4 [2,958]
3 Day	13.0 [1890] min	31.3 [4,539]
7 Day	20.0 [2900] min	36.1 [5,235]
28 Day (Previous Month's Result)	25.0 [3620] min	43.0 [6,235]
Time of setting (minutes)		
Vicat Initial	45 min	93
Vicat Final	420 max	174
Mortar Bar Expansion (%) (C1038)	0.020 max	0.013
Colour (For Information Purposes Only)		36

### Other Chemical Information:

Na2Oeq (%) Weekly Averages	Week 1	Week 2	Week 3	Week 4
	0.53	0.52	0.52	0.52

\* Previous Month's Results

\*\* May exceed 3.0% SO3 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 (12).

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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