



Cement Mill Test Report

Date of Issue: February 12, 2025

Plant: Exshaw AB
 Product: Portland Cement Type IL (12) VCM Only
 Mill Test Report Number: ESW_Type IL12 2025-01-VCM
 Manufactured during the month of: January 2025

CHEMICAL ANALYSIS

Item	Spec limit	Test Result
Rapid Method, X-Ray (XRF) (C114)		
SiO2 (%)	---	17.1
Al2O3 (%)	---	3.6
Fe2O3 (%)	---	2.9
CaO (%)	---	59.7
MgO (%)	---	4.4
SO3 (%) **	3.0 max	3.6
Loss on ignition @ 950 (%)	10.0 max	6.7
Loss on ignition @ 550(%)		1.2
Insoluble residue (%)*	1.5 max	0.6
Limestone Addition		13.2
Specific Gravity (For Information Purposes Only)		3.12

PHYSICAL ANALYSIS

Item	Spec limit	Test Result
Blaine Fineness (m2/kg)	---	568
Retained 45 um (%)	24 max	0.2
Air Content (%) (C186)	12 max	6
Compressive Strength MPa [psi] C109		
		MPa psi
1 Day		19.8 [2,871]
3 Day	13.0 [1890] min	31.4 [4,553]
7 Day	20.0 [2900] min	36.3 [5,264]
28 Day	(Previous Month's Result) 25.0 [3620] min	41.8 [6,061]
Time of setting (minutes)		
Vicat Initial	45 min	103
Vicat Final	420 max	193
Mortar Bar Expansion (%) (C1038)	0.020 max	0.010
Colour (For Information Purposes Only)		36

Other Chemical Information:

Na2Oeq (%) Weekly Averages	Week 1	Week 2	Week 3	Week 4
	0.55			0.49

* 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

Lafarge Canada Inc. - Exshaw Plant
 P.O. Box 160, Highway 1A, Exshaw AB T0L 2C0
 Phone: 403-673-3815

Certified By:

John W Blair
 Quality Manager