

## **Cement Mill Test Report**

Date of Issue: June 05, 2025

Plant:

Product:

Mill Test Report Number:

Manufactured during the month of:

Exshaw AB

Portland Cement Type IL (13)

ESW\_Type IL13 2025-05

May 2025

CHEMICAL ANALYSIS				PHYSICAL ANALYSIS			
Item	Spec limit	Test Result	Item		Spec limit	Test Result	
Rapid Method, X-Ray (XRF) (	C114)						
SiO2 (%)		17.2	Blaine Fi	neness (m2/kg)			542
Al2O3 (%)		3.6					
Fe2O3 (%)		3.1	Retained 45 um (%)		24 max		0.3
CaO (%)		59.9					
MgO (%)		4.6	Air Content (%) (C186)		12 max		6
SO3 (%) **	3.0 max	3.4					
Loss on ignition @ 950 (%)	10.0 max	6.7	Compressive Strength MPa [psi] C109			MPa	psi
Loss on ignition @ 550(%)		0.6	1 Day			19.7	[2,857]
Insoluble residue (%)*	1.5 max	0.6	3 Day		13.0 [1890] min	30.0	[4,350]
			7 Day		20.0 [2900] min	33.9	[4,916]
Limestone Addition		13.5	28 Day	(Previous Month's Result)	25.0 [3620] min	41.9	[6,076]
Specific Gravity (For Information Purposes Only) 3.11		3.11	Time of s	etting (minutes)			
			Vic	at Initial	45 min		88
Phase Composition (For Information Purposes Only)			Vicat Final		420 max		143
C3A (Bogue)		5.0					
			Mortar Ba	ar Expansion (%) (C1038)	0.020 max		0.018
			Colour (I	For Information Purposes Only	)		35

Other Chemical Information:

Na<sub>2</sub>Oeq (%) Weekly Averages Week 1 0.51 Week 2 0.51 Week 3 0.51 Week 4 0.5

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 Accrediation.

Lafarge Canada Inc. - Exshaw Plant P.O. Box 160, Highway 1A, Exshaw AB TOL 2C0

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Certified By:

John W Blair Quality Manager

<sup>\*</sup> Previous Month's Results

 $<sup>^{\</sup>star\star}$  May exceed 3.0% SO3 maximum based on ASTM C1038 results of <0.020% expansion at 14 days.