

Cement Mill Test Report

Date of Issue: December 17, 2024

Plant: Product: Mill Test Report Number: Manufactured during the month of: Exshaw AB Portland Cement Type IL (12) VCM Only ESW_Type IL12 2024-11-VCM November 2024

CHEMICAL ANALYSIS			PHYSICAL ANALYSIS		
Item	Spec limit	Test Result	Item Spec limit To	est Result	
Rapid Method, X-Ray (XRF) (C114)				
SiO2 (%)		17.2	Blaine Fineness (m2/kg)	552	
Al2O3 (%)		3.6			
Fe2O3 (%)		3.1	Retained 45 um (%) 24 max	0.2	
CaO (%)		59.9			
MgO (%)		4.4	Air Content (%) (C186) 12 max	7	
SO3 (%) **	3.0 max	3.5			
Loss on ignition @ 950 (%)	10.0 max	6.7	Compressive Strength MPa [psi] C109 MI	Pa psi	
Loss on ignition @ 550(%)		1.1	1 Day 18	8.8 [2,726]	
Insoluble residue (%)*	1.5 max	0.6	3 Day 13.0 [1890] min 31	1.0 [4,495]	
			7 Day 20.0 [2900] min 36	6.3 [5,264]	
Limestone Addition		13.1	28 Day (Previous Month's Result) 25.0 [3620] min 42	2.1 [6,105]	
Specific Gravity (For Information Purposes Only)		3.12	Time of setting (minutes)		
			Vicat Initial 45 min	89	
			Vicat Final 420 max	176	
			Mortar Bar Expansion (%) (C1038) 0.020 max	. 0.012	
			Colour (For Information Purposes Only)	35	
Other Chemical Information: Na ₂ Oeq (%) Weekly Averages	Wook	1 0.55 Week	0.50 Week 3 0.49 Week 4 0.47		

* 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 Accrediation.

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Quality Manager