



Capitol Cement
 11551 Nacogdoches Rd.
 San Antonio, TX 78217

ECO-MENT Endure - Type IP (25) (HS) Cement

Date: September 9, 2024

Production Period:

Beginning August 1, 2024

Ending August 31, 2024

CHEMICAL			PHYSICAL		
Item	Spec. Limit	Test Result	Item	Spec. Limit	Test Result
SiO2 (%)	A	<u>30.4</u>	Air Content of Mortar (volume %)	12 max	<u>4.6</u>
Al2O3 (%)	A	<u>9.0</u>	Blaine Fineness (m2/kg)	A	<u>400</u>
Fe2O3 (%)	A	<u>2.3</u>	ASTM C1038		
CaO (%)	A	<u>52</u>	Density		<u>2.85</u>
MgO (%)	6.0% max	<u>1.0</u>	Time of Setting (minutes)		
SO3 (%)	4.0% max	<u>3.0</u>	Vicat, Initial	Not less than 45	<u>87</u>
Na2O (%)	A	<u>0.52</u>	Vicat, Final	Not more than 420	<u>240</u>
K2O (%)	A	<u>0.86</u>	Compressive Strength		
Equivalent alkalis (%)	A	<u>1.09</u>	1 Day (psi)	A	<u>1,930</u>
	minimum	<u>1.01</u>	3 Day (psi)	minimum (1890)	<u>3,120</u>
	maximum	<u>1.25</u>	7 Day (psi)	minimum (2900)	<u>4,120</u>
Ignition Loss (%)	5.0%	<u>2.3</u>	28 Day (psi) (Jul)	minimum (3620)	<u>5,940</u>
Class F Fly Ash (%)		<u>21.83</u>			
CaO % in Ash		<u>1.47</u>			
Limestone (%)					
CO2 (%)					
CaCO3 in Limestone (%)					

(A) Not Applicable

We certify that the above cement, at the time of shipment meets the chemical and physical requirements of the current ASTM C 595, C 1012, specifications. The above data represents the averages of representative samples from production.

Douglas Conroy, Chief Chemist