



Capitol Cement
 11551 Nacogdoches Rd.
 San Antonio, TX 78217

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

Date: October 8, 2024

Production Period:

Beginning September 1, 2024

Ending September 30, 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>5.6</u>
Al2O3 (%)	A	<u>9.3</u>			
Fe2O3 (%)	A	<u>2.3</u>	Blaine Fineness (m2/kg)	A	<u>418</u>
CaO (%)	A	<u>51</u>			
MgO (%)	6.0% max	<u>1.0</u>	ASTM C1038		
SO3 (%)	4.0% max	<u>3.2</u>			
			Density		<u>2.85</u>
Na2O (%)	A	<u>0.51</u>			
K2O (%)	A	<u>0.83</u>	Time of Setting (minutes)		
Equivalent alkalis (%)	A	<u>1.05</u>	Vicat, Initial	Not less than 45	<u>88</u>
	minimum	<u>1.00</u>	Vicat, Final	Not more than 420	<u>249</u>
	maximum	<u>1.11</u>			
Ignition Loss (%)	5.0%	<u>2.3</u>	Compressive Strength		
Class F Fly Ash (%)		<u>22.10</u>	1 Day (psi)	A	<u>1,900</u>
CaO % in Ash		<u>1.47</u>	3 Day (psi)	minimum (1890)	<u>3,180</u>
Limestone (%)			7 Day (psi)	minimum (2900)	<u>4,070</u>
CO2 (%)			28 Day (psi) (Aug)	minimum (3620)	<u>5,820</u>
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