



Capitol Cement
 11551 Nacogdoches Rd.
 San Antonio, TX 78217

ECO-MENT SPEC Type I L (10)

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
SiO ₂ (%)		<u>19.3</u>	Air Content of Mortar (volume %)	<i>12 max</i>	<u>8.7</u>
Al ₂ O ₃ (%)		<u>5.4</u>			
Fe ₂ O ₃ (%)		<u>1.8</u>	Blaine Fineness (m ² /kg)	<i>A</i>	<u>435</u>
CaO (%)		<u>67</u>			
MgO (%)		<u>1.0</u>	ASTM C1038	<i>0.020%</i>	<u>0.000</u>
SO ₃ (%)	<i>3.0% max (b)</i>	<u>4.3</u>	Density		<u>3.03</u>
Na ₂ O (%)	<i>A</i>	<u>0.10</u>			
K ₂ O (%)	<i>A</i>	<u>0.51</u>	Time of Setting (minutes)		
Equivalent alkalis (%)		<u>0.43</u>	Vicat, Initial	<i>Not less than 45</i>	<u>88</u>
	<i>minimum</i>	<u>0.37</u>	Vicat, Final	<i>Not more than 420</i>	<u>235</u>
	<i>maximum</i>	<u>0.57</u>			
Ignition Loss (%)	<i>10% max</i>	<u>6.6</u>	Compressive Strength		
Class F Fly Ash (%)		<u> </u>	1 Day (psi)	<i>A</i>	<u>2,100</u>
CaO % in Ash	<i>A</i>	<u> </u>	3 Day (psi)	<i>minimum (1890)</i>	<u>4,010</u>
Limestone (%)	<i>10% +/- 2.5%</i>	<u>10.70</u>	7 Day (psi)	<i>minimum (2900)</i>	<u>4,990</u>
CO ₂ (%)		<u>4.55</u>	28 Day (psi) (Jul)	<i>minimum (3620)</i>	<u>6,320</u>
CaCO ₃ in Limestone (%)		<u>78</u>			

(A) Not Applicable; (b) It is permissible to exceed the limit for SO₃, provided it has been demonstrated by Test Method C-1038 that the cement will not develop expansion exceeding 0.020% at 14 days.

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, C 227 specifications. The above data represents the averages of representative samples from production.

Douglas Conroy, Chief Chemist