



Capitol Cement  
 11551 Nacogdoches Rd.  
 San Antonio, TX 78217

ECO-MENT SPEC Type I L (10)

Date: July 8, 2024

Production Period:

Beginning June 1, 2024

Ending June 30, 2024

CHEMICAL			PHYSICAL		
Item	Spec. Limit	Test Result	Item	Spec. Limit	Test Result
SiO <sub>2</sub> (%)		<u>19.4</u>	Air Content of Mortar (volume %)	<i>12 max</i>	<u>8.7</u>
Al <sub>2</sub> O <sub>3</sub> (%)		<u>5.4</u>	Blaine Fineness (m <sup>2</sup> /kg)	<i>A</i>	<u>427</u>
Fe <sub>2</sub> O <sub>3</sub> (%)		<u>1.9</u>	ASTM C1038	<i>0.020%</i>	<u>0.000</u>
CaO (%)		<u>67</u>	Density		<u>3.03</u>
MgO (%)		<u>1.0</u>	Time of Setting (minutes)		
SO <sub>3</sub> (%)	<i>3.0% max (b)</i>	<u>4.2</u>	Vicat, Initial	<i>Not less than 45</i>	<u>86</u>
Na <sub>2</sub> O (%)	<i>A</i>	<u>0.09</u>	Vicat, Final	<i>Not more than 420</i>	<u>240</u>
K <sub>2</sub> O (%)	<i>A</i>	<u>0.51</u>	Compressive Strength		
Equivalent alkalis (%)		<u>0.43</u>	1 Day (psi)	<i>A</i>	<u>1,930</u>
	<i>minimum</i>	<u>0.39</u>	3 Day (psi)	<i>minimum (1890)</i>	<u>3,870</u>
	<i>maximum</i>	<u>0.53</u>	7 Day (psi)	<i>minimum (2900)</i>	<u>4,770</u>
Ignition Loss (%)	<i>10% max</i>	<u>6.9</u>	28 Day (psi) (May)	<i>minimum (3620)</i>	<u>6,100</u>
Class F Fly Ash (%)		<u>        </u>			
CaO % in Ash	<i>A</i>	<u>        </u>			
Limestone (%)	<i>10% +/- 2.5%</i>	<u>11.64</u>			
CO <sub>2</sub> (%)		<u>4.95</u>			
CaCO <sub>3</sub> in Limestone (%)		<u>87</u>			

(A) Not Applicable; (b) It is permissible to exceed the limit for SO<sub>3</sub>, 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**