



Capitol Cement
11551 Nacogdoches Rd.
San Antonio, TX 78217

Type I (LA) Cement - C 150/C 150M

Date: March 10, 2023

Production Period:

Beginning February 1, 2023

Ending February 28, 2023

CHEMICAL			PHYSICAL		
Item	Spec. Limit	Test Result	Item	Spec. Limit	Test Result
SiO ₂ (%)	A	<u>20.5</u>	Air Content of Mortar (volume %)	<i>12 maximum</i>	<u>9.0</u>
Al ₂ O ₃ (%)	A	<u>6.0</u>			
Fe ₂ O ₃ (%)	A	<u>1.8</u>	Blaine Fineness (m ² /kg)	<i>260 minimum</i>	<u>408</u>
CaO (%)	A	<u>66</u>			
MgO (%)	<i>6.0 maximum</i>	<u>1.1</u>	Autoclave Expansion (%)		<u> </u>
SO ₃ (%)	<i>3.5 D</i>	<u>3.8</u>	ASTM C1038		<u>0.003</u>
Na ₂ O (%)	A	<u>0.08</u>			
K ₂ O (%)	A	<u>0.56</u>	Time of Setting (minutes)		
Equivalent alkalis (%)		<u>0.44</u>	Vicat, Initial	<i>45</i>	<u>82</u>
	<i>minimum</i>	<u>0.42</u>	Vicat, Final	<i>375</i>	<u>236</u>
	<i>maximum</i>	<u>0.46</u>			
Ignition Loss (%)	<i>3.5 maximum</i>	<u>2.4</u>	Compressive Strength		
Insoluble Residue (%)	<i>1.5 maximum</i>	<u>0.79</u>	1 Day (psi)	A	<u>2,240</u>
Limestone (%)	<i>5.0 maximum</i>	<u>2.43</u>	3 Day (psi)	<i>minimum (1740)</i>	<u>4,110</u>
CO ₂ (%)	A	<u>1.04</u>	7 Day (psi)	<i>minimum (2760)</i>	<u>5,280</u>
CaCO ₃ in Limestone (%)		<u>94</u>	28 Day (psi) (Jan)	A	<u>6,300</u>
C ₃ A (%)	A	<u>13</u>			
C ₃ S (%)	A	<u>59</u>			
C ₂ S (%)	A	<u>14</u>			
C ₄ AF (%)	A	<u>6</u>			

A Not Applicable

D Note D additional information upon request.

We certify that the above cement, at the time of shipment meets the chemical and physical requirements of the current ASTM C 150 and AASHTO M 85 specifications. The above data represents the averages of representative samples from production. This product is made in the U.S.A.

Douglas Conroy, Chief Chemist