

## TYPICAL CEMENT CERTIFICATE

Cement type

**CompactCem**

Physical tests

Time of Set Vicat (minutes)  
*Initial*..... 110  
*Final*..... 255

Fineness  
*Specific surface*  
*Blaine (m<sup>2</sup>/kg)*..... 553  
*Retained on 45 µm*  
*sieve (%)*..... 4

Autoclave  
*expansion (%)*..... 0.04

Compressive strength (MPa)  
*3 days*..... 26.3  
*7 days*..... 33.3  
*28 days*..... 45.2

Expansion of mortars bars  
*at 14 days (%)*..... 0.009

Chemical Analysis (%)

*SiO<sub>2</sub>* ..... 23.0  
*Al<sub>2</sub>O<sub>3</sub>* ..... 4.5  
*Fe<sub>2</sub>O<sub>3</sub>* ..... 3.4  
*CaO* ..... 54.7  
*Free Lime*..... 1.4  
*MgO* ..... 2.3  
*SO<sub>3</sub>*..... 4.1  
*Loss on ignition* ..... 3.1  
*Total alkali*  
*(equivalent Na<sub>2</sub>O)* ..... 0.97

Silica Fume addition  
*(% by mass)*..... 7.9

**We hereby certify that the cement delivered complies with the  
 CSA Standard A3000-13 requirements section A3001-13.**

For any information regarding this certificate, please contact our technical service at (418) 329-2100, ext. 3276.

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 Chemist Engineer