

# TYPICAL ANALYSIS CERTIFICATE

**General Use cement type**

**GU**

**Physical tests**

**Time of Set Vicat (minutes)**

<i>Initial</i> .....	115
<i>Final</i> .....	245

**Fineness**

<i>Specific surface</i>	
(Blaine) ( $m^2/kg$ ) .....	393
<i>Retained on 45 µm sieve (%)</i> .....	5
<i>False set (%)</i> .....	63

**Autoclave**

<i>expansion (%)</i> .....	0.10
<i>Air content (%)</i> .....	6

**Compressive strength (MPa)**

<i>3 days</i> .....	26.4
<i>7 days</i> .....	30.9
<i>28 days</i> .....	37.8

**Expansion of mortar bars**

<i>at 14 days (%)</i> .....	0.008
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**Chemical analysis (%)**

<i>SiO<sub>2</sub></i> .....	19.1
<i>Al<sub>2</sub>O<sub>3</sub></i> .....	4.8
<i>Fe<sub>2</sub>O<sub>3</sub></i> .....	3.6
<i>CaO</i> .....	60.2
<i>Free Lime</i> .....	1.5
<i>MgO</i> .....	2.6
<i>SO<sub>3</sub></i> .....	3.8
<i>Loss on ignition</i> .....	1.9
<i>Insoluble residue</i> .....	0.5
<i>Total alkali</i> .....	
(Na <sub>2</sub> O equivalent) .....	0.92

**Mineralogical composition**

<i>C<sub>3</sub>S</i> .....	51.2
<i>C<sub>2</sub>S</i> .....	16.2
<i>C<sub>3</sub>A</i> .....	6.7
<i>C<sub>4</sub>AF</i> .....	11.0

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

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

*Michel Chabot, Eng.  
Chemist Engineer*