

TYPICAL CEMENT CERTIFICATE

Portland Cement type

II

Physical tests

Time of Set Vicat (minutes)

Initial..... 120
Final..... 245

Fineness

Specific surface (Blaine) (m²/kg)..... 386
Retained on 45 µm sieve (%)..... 4

False set (%) 67

Autoclave expansion (%)..... 0.12

Air content (%)..... 7

Compressive strength (MPa [psi])

3 days..... 26.2 [3800]
7 days..... 30.7 [4450]
28 days..... 37.5 [5440]

Expansion of mortar bars

at 14 days (%) 0.014

Chemical analysis (%)

SiO₂..... 19.1
Al₂O₃ 4.9
Fe₂O₃..... 3.7
CaO 60.5
Free calcium oxide..... 1.4
MgO..... 2.6
SO₃ 3.8
Loss on ignition 1.9
Insoluble residue..... 0.4
Alkalies (Na₂O equivalent) 0.92
Carbon dioxide (CO₂)..... 1.7
Limestone 4.5

Calcium carbonate (CaCO₃) in limestone..... 84

Mineralogical Composition (Potential)

C₃S 48
C₂S 17
C₃A 7
C₄AF..... 11

Sum C₃S + 4.75 C₃A..... 79

We hereby certify that the cement delivered complies with the ASTM Standard C 150 and AASHTO M 85, Type II.

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

*Michel Chabot, Eng.
 Chemist Engineer*