

LEHIGH

HEIDELBERG CEMENT Group

Mill Test Certificate Report

Type: Masonry S

Test Period: 13-Jan-2012
To: 25-Dec-2012

Certification

This certifies that the described cement, at the time of shipment, meets chemical and physical requirements of the current applicable specification for ASTM C 91 for Type N. We are not responsible for improper use or workmanship.

General Information

Supplier: Lehigh Cement Company LLC
Address: 675 Quaker Hill Rd.
Union Bridge, Md. 21791
Telephone: (800)462-9071

Source Location: Union Bridge

Contact: Customer Service

Tests Data on ASTM "Standard" Physical Requirements

Item	Limit (%)	Result (%)	Item	Limit	Result
Fineness:			Compressive Strength:		
residue on 45 µm (No. 325) Sieve (%)	24 Max	1.39	7 Day (MPa)	9 Min	15.2
Autoclave Expansion (%)	1.0 Max	0.06	28 Day (MPa)	14.5 Min	19.3
Gillmore Setting Time:			Air Content of Mortar (%)	8 min / 19 max	15.86
Initial Set (minutes)	Not less than 90	282	Water Retention Value (% of original flow)	70 min	74
Final Set (minutes)	Not more than 1440	417			

Notes

01/04/13

Date



Quality Control Manager: Jeffrey D. Hook