

LEHIGH

HEIDELBERGCEMENT Group

TECHNICAL SERVICES
SALES & MARKETING
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PLANT LOCATION
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 Redding, CA 96003
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CEMENT TEST REPORT

Cement: Plastic

Report Date: 8/17/2011

Date Shipped: July 2011

STANDARD CHEMICAL REQUIREMENTS	TEST RESULTS	ASTM C 1328 SPECIFICATIONS	
		TYPE S	
Silicon Dioxide (SiO ₂), %	16.8	----	
Aluminum Oxide (Al ₂ O ₃), %	3.9	----	
Ferric Oxide (Fe ₂ O ₃), %	3.3	----	
Calcium Oxide (CaO), %	62.1	----	
Magnesium Oxide (MgO), %	1.5	----	
Sulfur Trioxide (SO ₃), %	2.2	----	
Loss on Ignition (LOI), %	10.1	----	
PHYSICAL REQUIREMENTS			
(ASTM C 204) Blaine Fineness, m ² /gm	415		
(ASTM C 430) -325 Mesh, %	95.7	76 Min	
(ASTM C 266) Time of Setting - Initial (Gillmore)	172	90 Min	
(ASTM C 266) Time of Setting - Final (Gillmore)	280	1440 Max	
(ASTM C 451) False Set, %	78.3	50 Min	
(ASTM C 185) Air Content, %	17	8-20	
(ASTM C 151) Autoclave Expansion, %	0.03	1.0 Max	
(ASTM C 91) Water Retention, % (previous month)	74	70 Min	
(ASTM C 187) Normal Consistency, %	26.9	----	
(ASTM C 109) Compressive Strength, psi (MPa)			
7 Day	3379 (23.3)	1300 (9.0) Min	
28 Day (Previous month)	4390 (30.2)	2100 (14.5) Min	

This cement meets the requirements of specification:

ASTM C1328-97 Type S
 AASHTO Practice R18 accredited laboratory

Albert J. Cornibe
 Quality Manager