

<b>REPORT OF MORTAR MIX DESIGN</b>
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**MORTAR TYPE:** M Property

**MIX DESIGNATION:** TCC BOM 101320, 101456

**RECOMMENDED LOCATION:** Exterior, At or Below Grade

**BUILDING SEGMENT:** Refer to ASTM C 270

**MATERIALS:**

Portland Cement	ASTM C 150, TYPE I
Hydrated Lime	ASTM C 207, TYPE S
Natural Sand	ASTM C 144

<b>MORTAR PROPERTIES:</b>		<b>ASTM C 270 Requirements:</b>
Compressive Strength	3750 psi	2,500 psi average at 28 days
Water Retention	88%	75% minimum
Air Content	4.70%	12% maximum
Aggregate Ratio	2.88	2¼ to 3½

**TESTING FACILITY:** Cemstone Companies Materials Laboratory

Date: 8-Jan-09

LAB ID: T081209D

- NOTES:**
- This mortar meets the property requirements for Type M masonry mortar as defined in Specification C 270.
  - Field sampling and testing of mortar is conducted under Test Method C 780 and is used to verify consistency of the materials and procedures, not mortar strength. ACI 530.1 - 92/ASCE 6-92/TMS 602-92

*Reviewed By:*

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*Kevin A. MacDonald, Ph.D., P.E.*