

February 21, 2013

Michael Ross
Manager, Technical & Admin Services
Public Works
City Of Overland Park
Overland Park, KS

To Whom It May Concern:

This letter is to certify that **ASH GROVE PRO OPM MORTAR** is made with Type I Portland Cement, Masonry Cement Type N, and Sand. The Portland cements used are in compliance with *ASTM C-150 Standard Specification for Portland Cement* and the Masonry Cement used is in compliance with *ASTM C-91 Standard Specification Masonry Cement..* The sand used is in compliance with *ASTM C-144 Standard Specification for Aggregate for Masonry Mortar.* The Portland, Masonry, Sand are proportionately pre-blended by the manufacturer at the rate of 1 part Portland to 1 part Masonry to 6 parts sand and when mixed with the proper proportion of water, according to the manufacturer's directions, a mix will be produced which is in compliance with the specifications of *ASTM C-270 Standard Specification for Unit Masonry Table 1 Proportion Specification Requirements* for Type **M** Mortar for the project listed below:

Project:

Location:

Architect:

Contractor/Mason:

Colors: Grey

Note for Testing of Mortar: Laboratory testing performed according to *ASTM C 270 Specification for Mortar for Unit Masonry* shall be used to determine compressive strength for mortar. Field testing of mortar performed according to *ASTM C 780 Specification for Pre-Construction and Construction Evaluation of Mortars for Unit Masonry* is not a test for determining compressive strength and shall not be used to determine compressive strength, but shall be used to determine consistency from batch to batch. **ASH GROVE PRO OPM**

MORTAR TYPE M, as manufactured by Ash Grove Packaging, Inc., will achieve a minimum compressive strength of 2500 P.S.I. in 28 days when tested according to *ASTM C 270*.

Signed,

Larry Reimnitz,
Technical Support