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To: ICC-ES Evaluation Committee
From: Michael Beaton, P.E.
Date: September 29, 2009
Subject: Proposed Revisions to the Acceptance Criteria for Adhesive Attachment of Concrete or Clay Roofing Tiles, Subject AC152-1009-R1 (MB/CA)

MEMO

Proposed revisions to the subject criteria were outlined in the staff letter dated September 1, 2009. Two responses were received, one from PRI Construction Materials Technologies, dated September 16, 2009, and one from Polyfoam Products, Inc., undated but received on September 24, 2009. After reviewing the responses, staff has the following comments:

1. Comments raised by PRI pertain to sections of the criteria that were not part of the proposed revisions. Staff will consider these comments for a future meeting. It would be helpful to receive proposed revisions to the criteria that will address the points raised by PRI, and a comparison of the two standards TAS 100-95 and PA 100-95.
2. Staff agrees with PRI that Section 4.2.2.4 should refer to heat lamps, not UV lamps, and proposes to leave the wording as is currently written in the approved criteria dated May 2008.
3. Polyfoam Products, Inc., disagrees with the Dow proposal to delete water vapor transmission and closed cell content, indicating that lower closed cell content increases the possibility of higher water absorption, potentially weakening the uplift resistance. Please note that the criteria has a maximum limit for water absorption of 10 percent. Polyfoam also indicates that a higher closed cell content will result in higher tensile strength. Again, Table 1 of the criteria requires a minimum tensile strength of 15 psi after exposure for 120 days at 180°F and 65 percent relative humidity. Provided the foam plastic adhesive meets the minimum performance requirements of the criteria for water absorption and tensile adhesion, and since closed cell content is a physical property and not a measure of performance, staff requests additional comments on this issue.