## **Bubble Foil Insulation** Still In The News

## The Reflective Insulation Manufacturers Association expresses concerns

Dear Editor.

facturers Association, (RIMA), is writ- from such an application would be the ing in response to an article entitled intrinsic R-value of the bubble pack November 1999 edition of the Radiant range of R-1 to R-2, assuming that the Panel Report. We appreciate the fact bubble pack does not collapse from the that your article calls attention to Re- weight of the concrete - highly unflective Insulation and its many ben-likely. There are also procedures, efits. There are several manufactures (ASTM Cl 77 or ASTM C518), for of these materials and most of them determining the thermal resistance of a market their products for use under bubble pack without an air space. Makconcrete slabs.

we feel are incorrect. They are, "it is test methods. difficult to rate aluminum insulation products because thickness is not a claims an R-10 for their bubble foil factor" and "assigning an R-Value to product when tested using the therlayer foil reflective systems." These ues. In the absence of a standard proce-C976 Calibrated Hot Box. There is priate product applications as well as reflective insulation using the guarded properly applied. or calibrated hot boxes to determine Rvalues.

As explained in your article, re- RIMA flective insulations work best when . installed with an air space on both Reflective Insulation Manufacturers Assoc. sides of the reflective surfaces. Install- 4840 West 15th St., Suite 1000 ing the insulation under a concrete slab Lawrence, KS 66049

limits any chance of an airspace. The The Reflective Insulation Manu- thermal value that one would expect ALUMINUM & BUBBLES, in the alone. This will generally fall in the ing a statement that there are no uni-There are a few things that RIMA versally recognized tests is just not would like to bring to your attention: correct. The FTC, ICBO, BOCA, There are several statements accred- SBCCI and every state or local buildted to a marketer of these products that ing official recognizes these ASTM

In the article, one of your sources aluminum bubble insulation is tenta- mography method. There is no consentive at best" and finally, "no univer- sus test for determining R-values by sally accepted laboratory method has thermography. There is no standard yet been devised to measure and report method or procedure for performing a the resistance to heat flow of multi- thermography test to determine R-valstatements are very misleading. There dure, there is no basis for making a have been two standard ASTM test valid conclusion regarding the R-value methods for testing reflective insula- of a material by thermography. RIMA tion for many years. They are ASTM is concerned that over zealous market-C236 Guarded Hot Box and ASTM ingclaims like this can lead to inapproalso an ASTM document Cl224 that discrediting the industry and value of addresses specifically the testing of reflective insulation products when

Sincerely,

Phone (800) 279-4123,Fax (785) 843-7555



Canadian Home Builders' Association

## Use of Bubble Foil Insulation Under Slabs Addressed

The Canadian Home Builders Association Technical Research Committee has this to say about bubble wrap insulation under concrete floors, "Foil faced bubble wrap type insulation products are designed for use in assemblies that incorporate an air space on the warm side of the insulation. These materials only work as claimed and evaluated by CCMC when used in wall assemblies with the air space on the inside. Unfortunately, over-zealous sales representatives push the products for applications where they will not work as claimed. One such case is using bubble wraps under concrete slabson-grade. Under the slab these bubble wraps do not provide the insulation value claimed."

"If a salesperson makes a pitch for use under slabs, remember that you will not achieve the insulation values claimed. Bubble wrap will offer a stronger moisture barrier than regular 6 mil polyethylene, but nothing else.

## European CEN Standard Under Development

Standardization of surface heating and cooling systems is underway which will probably be based on EN1264 for Floor Heating. A proposal has been made by Dr. Bjarne Olesen, President of EURAY, that a similar ASHRAE standard be developed at the same time.