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## **MPS No. 1003**

Subject: R-Value and Long Term R-Value - Polyisocyanurate Insulation

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Manufacturers of Polyisocyanurate insulation are promoting the use of the long term R-value techniques in ASTM C13O3 and CAN/ULC S77O. The Polyisocyanurate Insulation Manufacturers Association, PIMA, is promoting using some form of time weighted average over 15 years! Their literature states that "using techniques in ASTM C13O3, CAN/ULC S77O" provides the following long term R-values for some Polyisocyanurate insulations.

Average LTTR Values for	
Polyiso with Hydrocarbon	
Blowing Agents <sup>1</sup>	
POLYISO	LTTR
THICKNESS	R-VALUE
(inches)	
1	6.0
2	12.1
3	18.5
	10.0

The exact variations from the standard test methods are not described. As is well known, deviations from standard test methods make the results unreliable for comparison.

Although this is a step forward for the Polyisocyanurate insulation industry to recognize that estimates of long term R-value, the use of their 'modified' test method only allows for Polyisocyanurate insulation manufacturers to compare performance among Polyisocyanurate insulations. The use of the modified PIMA method DOES NOT provide for determination of a long term R-value, such as after 50 years. The PIMA method only provides for the determination of the R-value after 5 years.

The R-value published by polyisocyanurate insulation manufacturers is ONLY for 5 years.

The long term R-value for polyisocyanurate insulations is LOWER than that represented by the PIMA published information.

<sup>1</sup> Refer to Polyiso Performs - PIMA (Polyisocryanurate Insulation Manufacturers Association) - 2002



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