



Figure 4: The WUFI-ORNL/IBP 5.3 database predicted the R-value of polyisocyanurate.



Figure 5: BSCI tested and imported polyisocyanurate roof material into WUFI-ORNL/IBP to predict annual energy heat loss. Note the contradicting information from WUFI versus third-party tested data. Underestimation of the heat loss and condensation hours can be detrimental to building assemblies.

a system. In turning lab test theories into understandable or real project situations, a well-known hygrothermal modeling software program, called WUFI®-ORNL/IBP,¹⁰ now can assess the combined heat and moisture transfer in building components based on building type and local interior and exterior environments. In WUFI-ORNL/IBP, a user generates personalized assembly constructions from a wide range of default materials, climates and conditions to predict their in-situ performance.

Sometimes, though, data associated with generic or default materials can be inaccurate, assumed, estimated or missing completely. This is the case with one of the generic polyisocyanurate materials located in the WUFI-ORNL/IBP database for North America (see "Figures 4 and 5," above). "Figure 4" references the generic default material located in the North American database, whereas "Figure 5" is derived from out-of-scope testing and resembles actual in-situ temperatures. The two graphs show a discrepancy between the temperature versus R-value for the default value, as well as the actual tested value for a similar insulation material type.

The objective of this comparison is not to discredit the software program, but to educate users on encouraging manufacturers to input actual test data into the software database. Product manufacturers must take responsibility in providing accurate hygrothermal

data to building professionals to ensure designs are as realistic as possible. Refer to "Figure 6" (see below) for a realistic thermal prediction of an ASHRAE-compliant wall with the use of three common continuous insulation materials.

Thermal Conductivity and Building Durability

How can R-value affect the durability of a building assembly? Primarily, it does so based on the condensation potential of the condensing plane (e.g., in the case of "Figure 6," the sheathing board). A higher potential for condensation can occur when low temperatures, high humidity and low-permeable materials are present within a building assembly.

Air leakage, which ex-filtrates from the interior to exterior, also has a negative impact on interstitial condensation. This is especially true if non-permeable components are used. Predicted maximum temperature swings for extruded polystyrene and mineral wool insulation types are 7°F (46°F and 39°F), whereas polyisocyanurate insulation has a maximum fluctuation of 11°F (43°F and 32°F).

When calculating the potential condensation hours for a given time period, utilize temperature-



Figure 6: This code-compliant wall is modeled for the Chicago climate. Note: Insulation depicted is comprised of mineral wool R7.5 continuous sheathing board and R14 batt.

Nibs Intakes For 2015

M Lipman



Nibs Intakes For 2015:

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