

After a detailed analysis of the new ISO15099 THERM/WINDOW modeling assumptions (used just prior to Utah), we have concluded that revisions to these modeling assumptions are necessary. One of the modeling changes was partially redundant with another modeling change (the use of partially ventilated cavities on interior surfaces with the radiation model) and a second change (the use of glass convective film coefficients on frames) was not consistent with how test results would be standardized nor necessarily what we would recommend without future research. Thus, the changes we are recommending to the current procedure are:

- 1) eliminate the use of partially ventilated cavities on interior surfaces
- 2) Use updated list of convective film coefficients on frame surfaces
 - a. Wood/Vinyl: $hc=2.44 \text{ W}/(\text{m}^2\text{K})$
 - b. T/B Al: $hc=3.00$
 - c. T/I Al: $hc=3.12$
 - d. Al: $hc=3.29$

Where: T/B is thermally-broken Aluminum frame
T/I is thermally-improved Aluminum frame

A new bc.lib file is attached.

We are in the process of incorporating these changes into the THERM libraries and the Sim Manual for review by APC, TIPC. This will be presented in July in Chicago.