

Condensation Resistance of Commercial Fenestration Systems

Condensation Resistance of fenestration systems is important comfort and durability issue. Typically more thermally insulating fenestration products will have better resistance to the occurrence of condensation. Until recently, condensation resistance was evaluated only using physical measurements of surface temperatures on indoor side of a fenestration product. New generation of computer tools (i.e., THERM and WINDOW) incorporate advanced algorithms for simulating thermal behavior of fenestration products including determining accurate temperature field on indoor surfaces. However, there are questions how these models can deal with specific features of commercial fenestration systems. This forum will attempt to provide some answers as well as directions for future research work that is needed to improve the accuracy of determining surface temperatures for commercial fenestration systems.