

Viracon offers clients a choice of air spacer material to thermally improve insulating glass units (IGUs) where higher levels of humidity must be maintained.

warm edge performance

Traditionally, IGUs with aluminum air spacers and aluminum window frames were challenged in specific applications where the buildings interior humidity was required to be at significantly higher levels. Consequently, thermally improved window frames and glass were necessary to reduce the potential for condensation formation.

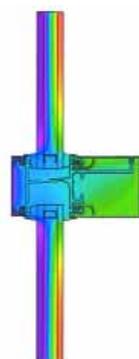
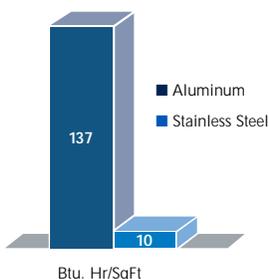
Today, IGUs can provide a solution to condensation concerns by using lower thermal conducting air spacer material referred to as “warm edge” spacers. This material can effectively reduce the difference between the center-of-glass (COG) U-Value and the edge-of-glass (EOG) U-Value of the IGU.

There are several “warm edge” spacer options available in today’s marketplace—each having their own set of inherent characteristics. While some may be lower in thermal conductivity than others, they may not be structurally adequate for large IGUs or for structural glazing applications.

At Viracon, we offer stainless steel spacers as the superior quality warm edge solution. With stainless steel you have one-tenth the thermal conductivity of aluminum along with increased rigidity and the structural integrity necessary for architectural IG construction.

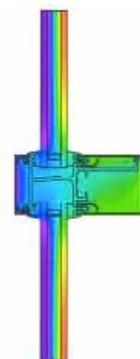
Now you have a choice...

Thermal Conductivity



Aluminum Spacer

U-Value COG : 0.295
 U-Value EOG: 0.476
 U-Value Frame: 1.000
 U-Value Overall
 Opening: 0.390



Stainless Steel Spacer

U-Value COG : 0.295
 U-Value EOG: 0.399
 U-Value Frame: 1.000
 U-Value Overall
 Opening: 0.378

Typical values based on:
 Make-up: 1" VE1-2M #2;
 Size: 48" x 84";
 Frame: 3" Thermally Broken

