TECHNOTES

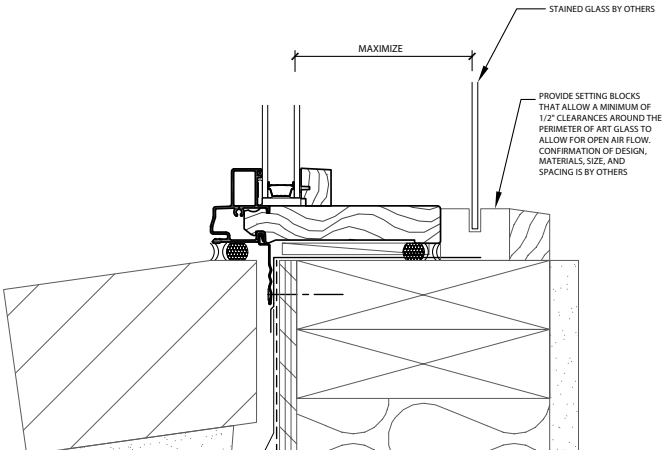
Application of Room Side Art Glass

This Technote provides information on how to address requests to mount art glass by others to the room side of insulating glass in a Pella window. This modification has not been tested by Pella and involves many variables including the amount of heat build-up that can occur between glazing and the amount of ventilation required to dissipate that heat build-up to the interior. It is important to recognize that applying art glass to the room side of a Pella window is considered a modification to that Pella product and any failures that would occur as a result would not be covered by Pella product warranty. Thankfully, this has been done many times over many years without any known reports of failure; however, it is important to consider the various techniques outlined in this Technote when these types of requests are made.

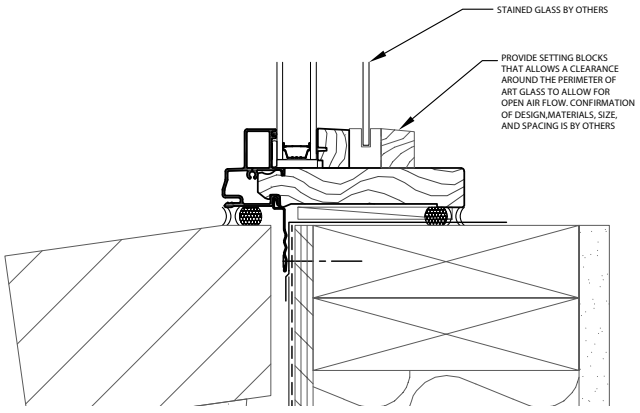
Design considerations:

To provide adequate air space for ventilation between art glass by others and the Pella insulating glass consider the following:

- It is commonly recommended that a minimum of ½" air space be provided around the perimeter of room side art glass being added to allow for air movement. To not allow for adequate air movement could result in condensation and the creation of a condition that has been referred to as "super heating" of the air space, which could result in glazing stress cracks or insulating glass seal failure.
- Low-E glazing is recommended to minimize heat gain between the insulating glass and the room side art glass.
- Consider finishing the wood in the air space along with the art glass glazing blocks in black to limit light diffusion and visibility of the setting blocks from occurring when viewed from the interior.



Detail A
Maximization of ventilation



Detail B
Minimal ventilation

- It has recently been reported that some art glass manufacturers may be incorporating a means of ventilation into the art glass construction itself to address the issue of heat build-up.
- PAS recommends that the General Contractor and Project Architect confirm warranty implications associated with the mounting of room side art glass with the art glass manufacturers product representative.