

TAKE A MINUTE FOR ... BIRD-FRIENDLY GLASS

Bird friendly glass is used on buildings, railings and other structures to prevent bird collisions. For the glass to be effective, manufacturers and fabricators apply visible patterns to architectural glass in the form of ultraviolet reflective coatings, and acid etched or frit patterns.

There is more than one way to create a bird-friendly building

Selecting a bird-friendly glass solution depends upon the human visual experience that is specified by architects and designers. With an increase in patterns visible to people, the lower the transparency of the glass. The cost increases with the level of transparency.

Ultraviolet Reflective Pattern

Birds can see further into the ultraviolet spectrum of light, a range largely invisible to the human eye. Ultraviolet reflective patterns virtually invisible to us but visible to birds are highly effective solutions for bird-window collision avoidance.

This is where [GlasPro Bird Safe glass](#) with ultraviolet reflective patterns can help prevent bird-window collisions. With an [American Bird Conservancy \(ABC\) Avoidance Index \(AI\)](#) of 79 percent, GlasPro's Bird-Safe glass significantly exceeds the ABC's minimum standard for effective bird collision deterrent materials of 70 percent. Under sunny conditions the product's AI is 84 percent which is considered highly effective. Birds avoid the glass when they see the ultraviolet reflective patterns in GlasPro Bird Safe. The solution is highly-transparent to the human eye which enhances the human visual experience.

Acid Etched Pattern

Acid etched glass has been treated with hydrofluoric acid to give its surface a frosted look. Bird-friendly solutions with acid etched designs on the surface of the glass provide a great chance for birds to identify the glazing surface and avoid collision. This type of solution gives the building's exterior a distinctive look with eye-catching patterns and offers a pleasant visual experience. GlasPro offers Walker AviProtek® solutions with the acid etched designs on the number one surface of the glass. Etched patterns are located on the outside surface making the glass likely to obscure reflections.

Frit Pattern

Ceramic dots, lines and other types of "frits," can be screened or printed on to glass surfaces. This is often done to reduce the transmission of light and heat and can provide design detail. Frit patterns on glass can also prevent bird strikes. Patterns on the outside surface of glass deter collisions most effectively because they are always visible, even with strong reflections. Frit can also be applied to an internal surface of insulated glass. With the right combination of surface reflectivity and frit application, a pattern on an inside surface can be effective but it is not transparent to people.

For more information about bird-friendly glass, please contact GlasPro.



The Richmond Ferry Terminal features GlasPro Bird Safe ultraviolet reflective pattern glass



Acid Etched Pattern



Frit Pattern