

Bird Friendly Solar Control Insulated Glazing

→ *Version with outer laminated pane*

Insulated glazing unit with highly sophisticated UV coating – which is barely visible to the human eye and is primarily visible in the ultraviolet spectrum – in combination with highly effective solar control coatings for optimal visible light transmission providing maximum energy efficiency.

The design of the bird friendly coating has to be of a spiderweb-like structure to ensure an overall uniform appearance, particularly between the individual insulated glazing units in the facade.

A certificate from the American Bird Conservancy (www.abcbirds.org) confirming a test result of a threat factor (TF) of ≤ 25 for the bird friendly glass in combination with the solar control coating is mandatory. The statement provided has to define the build up of the insulated glazing unit, including glass thicknesses, glass substrates, and cavity.

The bird friendly coating as well as the solar control coating must be available for and compatible with float glass, laminated glass, heat-strengthened glass, and tempered glass.

The bird friendly as coating as well as the solar control coating has to be bendable (convex and concave).

- Low-emissivity factory applied coating complying with ASTM C1376 and resulting in a stable, uniform, nearly invisible coating.
- Heat-strengthened glass complying with ASTM C1048, Kind HS.
- Fully tempered glass complying with ASTM C1048, FT and also conform to ANSI Z97.1-2015. All fully tempered glass shall be heat soaked. Submit certification that tempered glass intended for use on the project has been heat soaked tested in accordance with EN 14179.

Minimum IG unit build-up

- OUTER: 10.76 mm / 3/7" laminated float clear
(consisting of 4mm / 5/32" float clear with ORNILUX mikado oHT #2 and 6mm / 1/4" float clear with solar control A41 HT #4; 0.76mm / 0.030 PVB)
- CAVITY: 13 mm / 1/2" spacer
- INNER: 4 mm / 5/32" float clear

Change of glass substrate, glass thickness, and/or build-up and the consequent deviating technical values require a separate calculation and must be shared with the customer. This also pertains the above mentioned certificate from the American Bird Conservancy (ABC).

Glass composition and thicknesses identified are minimum requirement. Where glass manufacturer cannot assure adequate structural performance of insulating glass units – based upon combination of inner/outer lite – assume outer lite alone must satisfy structural requirements.

**TENDER SPECIFICATION
ORNILUX mikado oHT A41 (double IGU)**



(Page 2 - Version with outer laminated pane)

<u>Glass Values:</u>	Glass Substrate	
	Mid-iron / Float Extra	Low-iron
Visible Light Transmisson (VLT)	42 %	42 %
Visible Light Reflection (external)	17 %	17 %
Visible Light Reflection (internal)	12 %	12 %
U-value (winter)	0.24 (BTU/ft2hF)	0.24 (BTU/ft2hF)
Solar Heat Gain Coefficient (SHGC)	22 %	22 %

Tendered bird friendly glass: arcon ORNILUX mikado oHT

Tendered solar control glass: arcon sunbelt A41 HT

Alternate bird friendly glass quoted: _____

Alternate Low-E glass quoted: _____