



BIRD FRIENDLY GLAZING SOLUTIONS

■ INSULATED GLAZING UNITS

The ORNILUX® product family offers the largest variety of certified bird-friendly solutions for insulated glazing units. The transparent ORNILUX® mikado enable the versatile use in different applications and allow a maximum variability in the design of façades. All of these solutions have been proven to reduce bird collisions with glass.

Almost 20 years of experience and continuous product development of bird-friendly glass products are the reason why today ORNILUX® is the only solution which can be used in more than 1,000 certified buildup variations for insulated glazing units – with all of arcon's solar control Low-E coatings.



ORNILUX® mikado in detail

KEY BENEFITS FOR FABRICATORS & ARCHITECTS:

- ORNILUX® mikado UV coatings are nearly invisible to the human eye
- All combinations with Low-E coatings are certified by the American Bird Conservancy (ABC)
- Combination with arcon's solar control coatings is in accordance with New York City's Local Law 15 and meets the required material threat factor (TF) of ≤ 25
- More than 1,000 certified variations possible for IG-units



WHAT WE PROVIDE

- ORNILUX® mikado oHT is optionally heat treatable
- Can be combined with thermal insulation and solar control coatings
- Stock sheet dimension 3.21 x 2.25 m (126 x 88 in.), 3.21 x 4.50 m (126 x 177 in.), 3.21 x 5.10 m (126 x 200 in.) and 3.21 x 6.00 m (126 x 236 in.)
- Dimensions up to 3.21 x 9.00 m (126 x 354 in.) on request
- Glass thickness available from 4 mm to 12 mm (5/32 - 1/2 in.)
- Available on Low-Carbon glass to reduce CO₂ footprint

TECHNICAL DETAILS AT A GLANCE

ORNILUX® mikado for double glazing units

Product name	Glass Buildup Outer/Cavity/Mid/Cavity/Inner	Transmission			Reflectance			Absorbance	U-Value		Shading Coefficient	Solar Heat Gain Coefficient	Threat Factor (TF) acc. ABC Guidelines
		Visible Light	Ultra-violet	Solar Energy	Visible Light	Visible Light	Solar Energy	Solar Energy	Winter	Summer			
	%	%	%	Out %	In %	%	%	BTU/(ft ² hF)					
ORNILUX® mikado N10 //	6 : / 13 / :44.2	66	0	36	24	25	41	13	0.24	0.21	52	45	26
ORNILUX® mikado N34 //	6 : / 13 / :44.2	77	0	50	15	14	32	8	0.25	0.23	68	59	23
ORNILUX® mikado A71 // inner lami	6 : / 13 / :44.2	66	0	30	15	17	43	24	0.24	0.21	38	33	20
ORNILUX® mikado A71 // outer lami	46.2 : / 13 / 4	67	0	30	14	15	30	39	0.24	0.21	38	33	20
ORNILUX® mikado A61 // inner lami	6 : / 13 / :44.2	58	0	26	14	15	40	32	0.24	0.21	34	30	23
ORNILUX® mikado A61 // outer lami	46.2 : / 13 / 4	59	0	26	14	12	28	45	0.24	0.21	34	30	23
ORNILUX® mikado A51 // ¹⁾	46.2 : / 13 / 4	51	0	21	16	12	29	49	0.24	0.21	29	25	25
ORNILUX® mikado A41 // ¹⁾	46.2 : / 13 / 4	42	0	18	15	12	27	56	0.24	0.21	26	22	25

ORNILUX® mikado for triple glazing units

Product name	Glass Buildup Outer/Cavity/Mid/Cavity/Inner	Transmission			Reflectance			Absorbance	U-Value		Shading Coefficient	Solar Heat Gain Coefficient	Threat Factor (TF) acc. ABC Guidelines
		Visible Light	Ultra-violet	Solar Energy	Visible Light	Visible Light	Solar Energy	Solar Energy	Winter	Summer			
	%	%	%	Out %	In %	%	%	BTU/(ft ² hF)					
ORNILUX® mikado N34 /// ³⁾	4 : / 13 / :4 / 13 / :44.2	70	0	40	17	17	36	12	0.13	0.13	56	49	29
ORNILUX® mikado A71 ///	6 : / 13 / :4 / 13 / :44.2	60	0	26	17	18	41	28	0.12	0.13	35	30	28
ORNILUX® mikado A61 ///	6 : / 13 / :4 / 13 / :44.2	52	0	22	16	17	38	35	0.13	0.13	31	27	30
ORNILUX® mikado A71 eco ///	66.2 : / 13 / 6 / 13 / 6	60	0	26	17	20	30	42	0.18	0.17	35	30	20
ORNILUX® mikado A61 eco ///	66.2 : / 13 / 6 / 13 / 6	53	0	23	16	18	27	48	0.18	0.17	31	27	23
ORNILUX® mikado A51 eco ///	66.2 : / 13 / 6 / 13 / 6	45	0	19	17	17	28	52	0.18	0.17	27	23	25
ORNILUX® mikado A41 eco ///	66.2 : / 13 / 6 / 13 / 6	37	0	15	18	18	26	57	0.18	0.17	23	20	25
ORNILUX® mikado X60 ///	66.2 : / 13 / 6 / 13 / :6	53	0	19	15	16	29	49	0.12	0.12	27	23	18
ORNILUX® supermikado A61 ///	66.2 : / 13 / 6 / 13 / :6	50	0	21	21	17	30	46	0.12	0.12	29	25	12

¹⁾ Tempering of the outer pane is recommended (tempered safety glass resp. heat strengthened). ²⁾ Middle pane with additional Low-E coating; tempering recommended. I oHT: optionally heat-treatable. I All ORNILUX® mikado multi-pane buildups have achieved an approach rate of at least 70% to the control pane in ABC flight tunnel tests („EFFECTIVE“ category). More information at www.birdsmartglass.org. The flight tunnel results form the basis for LEED Credit 55. www.usgbc.org. ORNILUX® is the world's first bird protection glass that has been proven in extensive tests by American Bird Conservancy (ABC) to improve bird perception. It can be used like conventional glass. Other glass buildups and combinations on request. The glass thickness can be varied.

ORNILUX® mikado one coating (zoomed pattern design as tested with ABC in 2020) can be used on surface 1 (bird approach side) in lieu of original mikado coating, that is usually placed to face 2 or 3 within the insulating glass. This is valid for all tested and approved ORNILUX® mikado configurations.

WE'RE HERE TO HELP.

As part of the Arnold Glas Group, arcon® is your competent partner when it comes to flat glass finishing. We turn your wishes into clear solutions. **Ask us!**
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