

ISOLAR ORNILUX® MIKADO – TRANSPARENT GLASS COATING

The following ISOLAR ORNILUX® mikado glass types have been tested in flight tunnel testing and resulted in significantly fewer bird approaches than conventional clear control glass panes (6 mm Float glass). For better comparison of the U_g -values all double glazed glass types are shown with 16 mm spacer and all triple glazed glass types with 2 x 14 mm spacer.

Insulating Glass with Low-E Coating

Product Name	Glass Build up	U_g Value in W/m ² K	LT Value in %	G Value in %
ISOLAR ORNILUX® mikado uno // ✓	6:/16 Ar/:Lam 8	1.0	66	47
ISOLAR ORNILUX® mikado advance 34 // ✓	4:/16 Ar/:Lam 8	1.1	77	61

ORNILUX® mikado advance // is also available in low-iron quality or with premium Low-E coating.

Triple Insulating Glass with Low-E Coating

Product Name	Glass Build up	U_g Value in W/m ² K	LT Value in %	G Value in %
ISOLAR ORNILUX® mikado advance 34 /// ✓	4:/14 Ar/:4/14 Ar/:Lam 8	0.6	70	52

ORNILUX mikado advance /// is also available with premium Low-E coating.

Insulating Glass with Solar Control Coating

Product Name	Glass Build up	U_g Value in W/m ² K	LT Value in %	G Value in %
ISOLAR ORNILUX® mikado A70 // ✓	6:/16 Ar/:Lam 8	1.0	66	36
ISOLAR ORNILUX® mikado A60 //	6:/16 Ar/:Lam 8	1.0	58	32
ISOLAR ORNILUX® mikado A50 // ✓	Lam10:/16 Ar/4	1.0	51	27
ISOLAR ORNILUX® mikado A40 // ✓	Lam10:/16 Ar/4	1.0	41	22

Triple Insulating Glass with Solar Control Coating

Product Name	Glass Build up	U_g Value in W/m ² K	LT Value in %	G Value in %
ISOLAR ORNILUX® mikado A70 /// ✓	6:/14 Ar/:4/14 Ar/:Lam 8	0.6	60	33
ISOLAR ORNILUX® mikado A60 /// ✓	6:/14 Ar/:4/14 Ar/:Lam 8	0.6	53	29
ISOLAR ORNILUX® mikado A50 ///	6:/14 Ar/:4/14 Ar/:Lam 8	0.6	45	25
ISOLAR ORNILUX® mikado A50 ///	Lam12:/14 Ar/4/14 Ar/:4	0.6	46	24

Laminated Glass

Product Name	Glass Build up	U_g Value in W/m ² K	LT Value in %	G Value in %
ISOLAR ORNILUX® mikado mono	36 mm Lam (12:/12:/12)	4.7	76	57
ISOLAR ORNILUX® mikado mono	12 mm Lam (4:/4:/4)	5.3	84	71

Further project specific tested glass types available on request.

The effectiveness of new glass types must be tested in the "flight tunnel". Therefore, variations relative to glass thickness and spacer width may result in a deviation of the bird approach rate achieved with tested glass build-ups.

✓ ORNILUX® glass products have shown in controlled flight tunnel studies to significantly reduce bird collisions (min 70% of birds tested fly towards the control and achieved ABC „EFFECTIVE“ rating). www.birdsmartglass.org

ABC Glass Collisions Program presents a comprehensive resource to help stop birds hitting windows and the flight tunnel ratings are the basis for the LEED Pilot Credit 55 for bird collision deterrence. www.usgbc.org

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