



# BIRD PROTECTION ON POINT

## ■ ECONOMIC & SUSTAINABLE BIRD PROTECTION

Every year, several hundred million birds die after colliding with glass surfaces. The reflective and transparent properties of glass make windows and facades dangerous for birds, because they do not recognise them as an obstacle in good time.

With ORNILUX® design dots, ISOLAR® has launched the latest generation of bird protection glass, which demonstrably and reliably reduces bird strike. At the same time, it enables a modern façade look with its metallic, semi-transparent coating with a coated surface proportion of less than 1%. Thanks to optimised contrast ratios in both reflection and transmission, birds perceive the glass pane at an early stage and can fly around it. Furthermore, the scratch- and UV-resistant markings allow the application on level 1.

Thanks to the seamless design of ORNILUX® design dots there is no additional waste, and the further processing of the glass is not restricted in any way. Furthermore, the bird-friendly glass does not necessarily have to be produced as laminated safety glass, as the protective effect is applied to the glass itself and not to a film. Of course, our ORNILUX® design products have been tested for their effectiveness in numerous tests.

We are happy to support you in the planning and implementation of your bird-friendly building project and also take geographical, architectural and vegetative aspects into account. Benefit from our many years of experience with bird-friendly glass at an early design stage of your project.

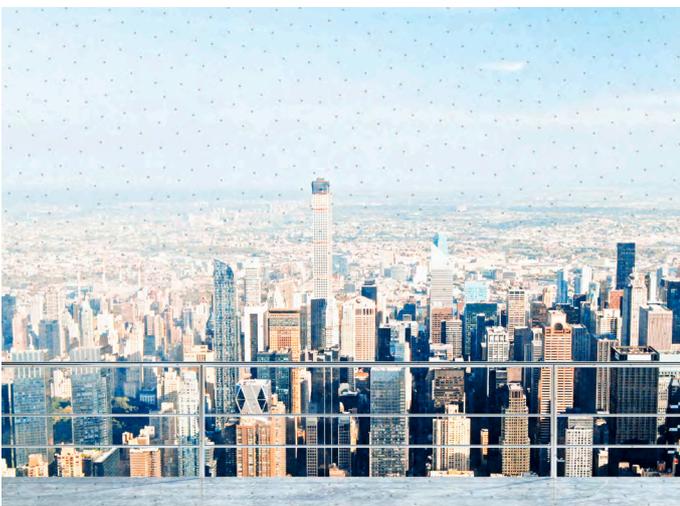
### KEY BENEFITS FOR FABRICATORS & ARCHITECTS:

- Innovative, semi-transparent coating with coated area < 1% ensures an undisturbed view
- Proven effectiveness
- No additional waste thanks to seamless design
- Uncomplicated further processing without restrictions
- Available as float glass – laminated safety glass not mandatory
- Scratch- and UV-resistant markings allow application on level 1

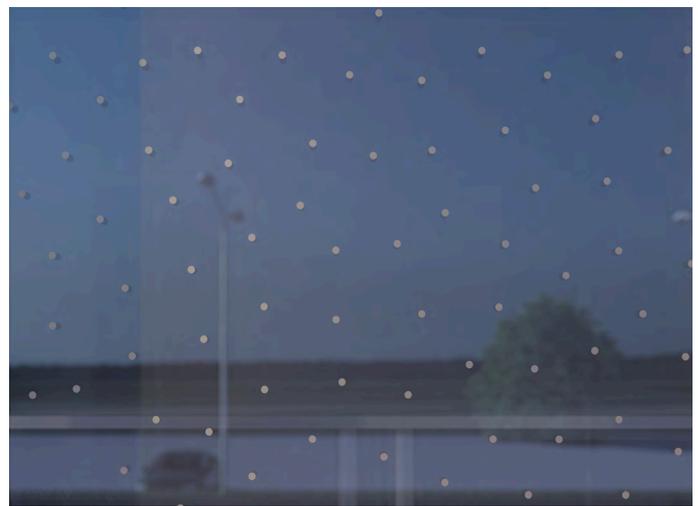


### AVAILABILITY AND COMBINATIONS:

- Available on basic float, fully toughened glass, heat strengthened glass and laminated safety glass
- All constructions available as alarm glass
- Can be combined with all ISOLAR® functional glasses
- Support for planning issues



Interior view: The semi-transparent markings of ORNILUX® design dots are barely noticeable when seen through.



Exterior view: The markings of the seamless pattern look modern and simple from the outside.

## TECHNICAL DETAILS AT A GLANCE

Product name	Glass construction Outer/Cavity/Mid/Cavity/Inner	EN 673	EN 410					EN ISO 717-1	Thick-ness mm	Weight kg/m <sup>2</sup>
		U <sub>g</sub> -Value	Light Transmission	g-Value	Light Reflection external	Light Reflection internal	Colour Rendering Index R <sub>a</sub>	Sound insulation R <sub>w</sub> / C / C <sub>r</sub>		
		W/(m <sup>2</sup> K)	%	%	%	%		dB		
ORNILUX® design dots / <sup>1)</sup>	:6	5,7	89	85	8	8	99	-	6	15
ORNILUX® design dots /	6:6.2	5,4	87	85	8	8	98	37	13	30
ORNILUX® design dots advance //	:4 / 16 / :4	1,1	81	64	12	12	98	32	24	20
ORNILUX® design dots A71 //	4:4.2: / 16 / 4	1,0	69	36	12	14	96	-	33	30
ORNILUX® design dots advance /// <sup>2)</sup>	:4 / 14 / :4 / 14 / :4	0,6	74	55	15	14	97	32 / -1 / -4	40	30

<sup>1)</sup> These ORNILUX® design dots was successfully tested in the flight tunnel test in Hohenau-Ringelsdorf/Austria with markings on level 1. Further information on request. <sup>2)</sup> Middle pane with additional low-e coating is thermally toughened (toughened safety glass). | Other glass constructions and combinations on request. The glass thickness can be varied. Double glazing: additional low-e coating advance on level 3; triple glazing: additional low-e coatings advance on level 3 and 5.

### WE'RE HERE TO HELP.

ISOLAR Glas Beratung GmbH is your competent partner when it comes to glass. We turn your wishes into clear solutions. Ask us.

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