



# BIRD PROTECTION ON POINT

## ■ ECONOMIC & SUSTAINABLE BIRD PROTECTION

Every year, several hundred million birds die when colliding with windows and glass façades. Because of its reflective and transparent properties glass is extremely dangerous to birds as they do not recognize it as being an obstacle in their flight path.

With ORNILUX® design dots, arcon has launched the latest generation of an ORNILUX® bird protection glass, proven to effectively reducing bird collisions with glass. The coating of ORNILUX® design dots covers less than 1% of the glass surface which – in addition to the metallic and semi-transparent properties of the coating – allows for a versatile use in different applications in modern façade design. Because of the optimized contrast ratio in reflection and transmission of ORNILUX® design dots, birds perceive the glass as an obstacle and avoid collision.

Even though ORNILUX® design dots has a random design, it meets all the rules and regulations for bird-friendly glass. In addition and because of not having an aligned pattern, ORNILUX® design dots tremendously reduces waste in production.

ORNILUX® design products have been tested for their effectiveness in numerous tests and have been certified by non-profit organizations. The glass can be used in laminated applications as well as a monolithic solution, since the scratch- and UV-resistant markings allow an application on surface 1.

### KEY BENEFITS FOR FABRICATORS & ARCHITECTS:

- Innovative, semi-transparent coating with coated area < 1%
- Proven to effectively reducing bird collisions with glass
- Reduces waste in production because of non-aligned pattern
- Available on clear or low iron glass – laminated safety glass not mandatory
- Scratch- and UV-resistant markings allow application on level 1



## WHAT WE PROVIDE

- ORNILUX® design dots 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.)



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 Buildup                 | Transmission  |              |              | Reflectance   |               |              | Absorbance   | U-Value     |        | Shading Coefficient | Solar Heat Gain Coefficient | Threat Factor (TF) acc. ABC Guidelines |
|--|-------------------------------|---------------|--------------|--------------|---------------|---------------|--------------|--------------|-------------|--------|---------------------|-----------------------------|--|
|  | Outer/Spacer/Mid/Spacer/Inner | Visible Light | Ultra-violet | Solar Energy | Visible Light | Visible Light | Solar Energy | Solar Energy | Winter      | Summer |                     |                             |  |
|  |                               | %             | %            | %            | Out %         | In %          | %            | %            | BTU/(ft²hF) |        |                     |                             |  |
| ORNILUX® design dots oHT / <sup>1)</sup> | :6                            | 89            | 72           | 83           | 8             | 8             | 8            | 9            | 1.02        | 0.92   | 0.99                | 0.86                        | 12*                                    |
| ORNILUX® design dots oHT /               | :66.2                         | 88            | 0            | 72           | 8             | 8             | 7            | 21           | 0.97        | 0.88   | 0.90                | 0.79                        | 12*                                    |
| ORNILUX® design dots oHT N34 //          | :4 / 13 / :4                  | 82            | 32           | 56           | 12            | 12            | 30           | 8            | 0.25        | 0.23   | 0.71                | 0.61                        | 12*                                    |
| ORNILUX® design dots oHT A71 //          | :46.2: / 13 / 4               | 69            | 0            | 31           | 13            | 14            | 30           | 38           | 0.24        | 0.21   | 0.39                | 0.34                        | 12*                                    |
| ORNILUX® design dots oHT A61 ///         | :46.2: / 13 / 4               | 61            | 0            | 27           | 13            | 12            | 28           | 44           | 0.24        | 0.21   | 0.35                | 0.30                        | 12*                                    |
| ORNILUX® design dots oHT A51 ///         | :46.2: / 13 / 4               | 52            | 0            | 22           | 15            | 11            | 29           | 48           | 0.24        | 0.21   | 0.30                | 0.26                        | 12*                                    |
| ORNILUX® design dots oHT A41 ///         | :46.2: / 13 / 4               | 42            | 0            | 18           | 16            | 12            | 27           | 54           | 0.24        | 0.21   | 0.26                | 0.22                        | 12*                                    |

<sup>1)</sup> These ORNILUX® design dots are certified for face 1 and 2 by American Bird Conservancy (ABC) | Other glass buildups and combinations on request. The glass thickness can be varied. \*Remark: TF = 12 applies for application of ORNILUX® design dots oHT on face 1. Application of ORNILUX® dots oHT on face 2 is TF = 20.

## 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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