

Glass architecture and bird protection – Not an oxymoron



ORNILUX® bird protection glass at the municipal indoor swimming pool at Plauen (Germany)

The Max-Planck-Institute for Ornithology, by request of Glaswerke Arnold (Licensor for the ISOLAR® Group), has carried out an extensive study of glass recognition by birds at the ornithological station in Radolfzell.

Under the ornithological station's test conditions, **ORNILUX®** premium was identified as a prototype which was better recognizable than conventional glass to a representative sample of Middle European birds.

According to tests undertaken up to now, **ORNILUX®** premium can be recommended for the limitation of bird impact to architects and developers who want to limit bird impact for building objects with large glass surfaces, but who also want to dispense of conventional, from humans discernable methods (i.e. bird of prey silhouettes or stripe patterns fixed on the surface and so discernable to the human eye) from the onset.



Sample pane ORNILUX®



Bird protection glass with experimental proof of effectivity

Bird protection glass can save the lives of millions of birds every year. An improved recognition of glass surfaces can thereby help birds to readily recognize the obstacle and therefore avoid a high speed impact, the so-called bird impact.

Together with the Max-Planck-Institute for Ornithology (ornithological station Radolfzell) a test method was developed which can experimentally prove bird recognition of test glass.

Wild birds were released in a flight tunnel and flew toward two glass panes secured by a net. In doing so they could „decide“ between normal insulating glass as the control glass “K” and test glass “T”. There were a total of approx. 850 approaches with birds from 19 bird species. The test series was scientifically evaluated afterward to discern which glass the birds flew at.

In doing so, **ORNILUX®** premium was identified as an effective prototype. With the use of **ORNILUX®** premium as the test glass, an exceptional number

of the birds flew to the control glass to “avoid“ the recently developed bird protection glass.

These results were confirmed in a second test series.

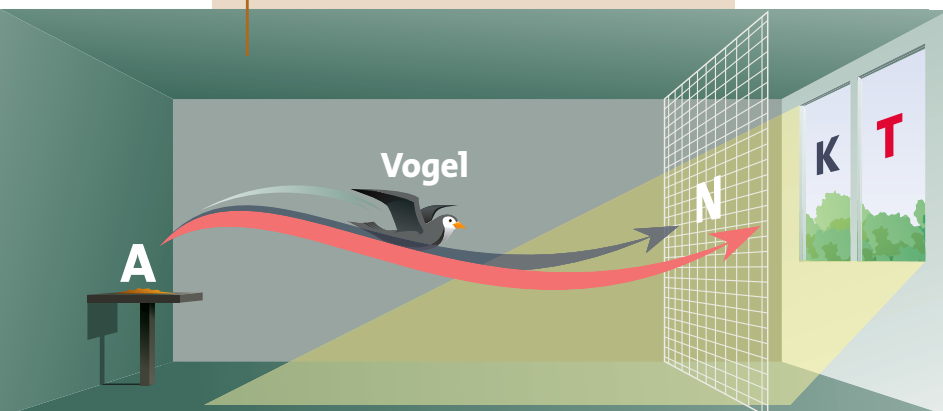
In a further test series the birds in the flight tunnel could “decide“ between the bird

protection glass **ORNILUX®** premium and an opening without glass. This test also confirmed the effectiveness. Actually bird protection also has been confirmed by test series for **ORNILUX®** scandic in combination with sun protecting performances.

ORNILUX® premium is an insulating glass that can be employed in all windows and facades in the way conventional heat insulating glass would be. Further information about our newly developed bird protection glass and all other ISOLAR® products can be obtained from your ISOLAR® partner or from ISOLAR-Glas-Beratung GmbH.



- A: Place of release**
- N: Japanese-net for bird protection**
- K: Control glass – Insulating glass**
- T: Test glass - ORNILUX®**



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