

The 4BIRD®-designs shown here are reduced 1:2

tested 4BIRD®-designs

Bird-stickers are finally passé!

4BIRD V3048 / cat. A
stripe width: 6 mm
spacing: 90 mm

4BIRD V3064 / cat. A
stripe width: 28 mm
spacing: 108 mm

4BIRD V3066 / cat. A
stripe width: 18 mm
spacing: 100 mm

4BIRD V3067 / cat. A
stripe width: 18 mm
spacing: 100 mm

4BIRD V3063 / cat. B
stripe width: 12,5 mm
spacing: 87,5 mm

The proven results from Flight tunnel II are categorised as follows:

| category | effectiveness | choice tests flights against marked sheet |
|------------|---------------------|---|
| category A | very effective | ≤ 10 % |
| category B | limited suitability | 10 – 20 % |
| category C | little suitability | 20 – 45 % |
| category D | ineffective | > 45 % |

Since animals have different perception as humans, the logical analogies for us are not relevant for birds. The complex correlation of geometry, colour reflections and their interactions have only been proven with 4BIRD®.

Derivative solutions are not permitted and must be tested.



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4BIRD®

Effective bird protection in glass architecture.





4BIRD® – discreet but effective

ECKELT designed the internationally protected 4BIRD®-designs for maximum transparency. Up to 94% of the glass surface can remain transparent but still retain their maximum effectiveness. All designs fulfil Category A and are therefore „very effective“.

Cost comparisons with adhesive bird stickers shows that the longevity of the 4BIRD® designs is an economic solution.

4BIRD® is a permanent marking with proven designs and harmonised colours on SECURIT-H. The known characteristics of Tempered Safety Glass allow the use in any construction application and with a combination into a laminated safety glass it also provides safety against falling.

Austria sets benchmarks

The Austrian environmental ministry has supported research in recent years to achieve meaningful and reproducible test methods.

Environmental protection in Austria has a high priority. This is proven by the legislation currently being composed – ON Regulation 191040 – Bird protection glass – testing of effectiveness. The scientific foundation has been established by the test methods provided by the Biological Station Hohenau-Ringelsdorf with its Flight Tunnel II. This reproducible method is suitable for reliable evaluation of collision risk. The birds are not harmed – they are used for one test and then immediately let free.

International recognition has been found in the USA – similar facilities are currently being built.

The Hohenauer experiments clearly indicate that only high effectiveness (9:1) as recommended by Rössler & Laube 2008, can be seen as the target level of protection. This is possible today by using intelligent products.

Bird protection is our responsibility

Every year, hundreds of millions of birds die in Europe as a result of collision with transparent glass. Environmental protectionists and ornithologists are concerned that it is a serious problem of nature conservation and on the population dynamic of birds

A significant factor is the increased amount of construction over the last decades, which has made a drastic impact on the activity spaces of birds. The often used birds of prey stickers have proven to be completely ineffective and cannot prevent bird collision.

Since humans and birds share the same space, it is our responsibility to confront this issue.

Bird-friendly design

Now is the time to consider bird protection measures in construction design. Particular attention needs to be paid to the transparent surfaces which allow free vision to the sky, plants or natural landscape such as conservatories and wintergardens, lobbies, lift enclosures and glass facades.

Extreme danger for birds is posed by construction in open landscape areas or along transport routes such as noise-protection barriers, waiting rooms or bus/train shelters.

Even reflective surfaces can cause problems for birds, since the reflections cannot be discerned from actual trees and branches as well as the sky. Reflective glass is from a bird-protection perspective to be treated the same as transparent glass.

Sustainable design.
Bird-friendly building.
We all carry responsibility.

