



Anna's Hummingbird, In the Light Photography/Shutterstock

STOP BIRDS HITTING WINDOWS

Up to one one billion birds (<https://abcbirds.org/article/up-to-one-billion-birds-may-be-killed-annually-in-building-collisions-new-study-says/>) die *each year* in the United States when they hit glass windows, walls, and other structures, making this threat one of the most costly to bird populations.



But it's also a relatively easy problem to solve. We've made it even easier by evaluating and rounding up a list of products shown to reduce collisions on glass. Please have a look at the options below for homeowners and architects.

We present these products in two categories: (1) Those that have been tunnel tested by ABC (<http://collisions.abcbirds.org/research.html>) and received a score of 70 or higher. These products are denoted with ABC's 'Saves Birds' logo. (2) "Also Recommended" products that were tested using other,

peer-reviewed protocols that we deem sufficient, or which have been shown by experienced monitors to demonstrate a significant reduction in collisions. Learn more about ABC's ratings.

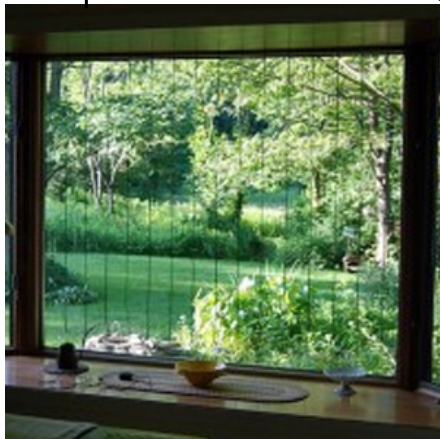
Looking for more do-it-yourself home solutions? Check out our Bird-friendly Windows Flyer (<https://abcbirds.org/wp-content/uploads/2017/04/Save-birds-2017.pdf>). Have more questions? Check out our comprehensive FAQ post (<https://abcbirds.org/blog/truth-about-birds-and-glass-collisions>).

(Note: No window product, including ABC-tested products, can guarantee elimination of window collisions. Results will vary depending on local bird populations, landscape conditions, product used, and building design. In addition, ratings assume that patterns are applied to the outside surface of glass, or that surface reflections do not obscure the pattern.)

Sign up for ABC's eNews to learn how you can
(<https://abcbirds.org/email-sign-up/>) help protect birds!
(<https://abcbirds.org/email-sign-up/>)

HOMEOWNER PRODUCTS

Acopian BirdSavers – (<http://www.birdsavers.com>)



Estimated DIY Cost: \$2 per 24" x 32" window



These "Zen Curtains" are easy to install, long lasting and highly effective. The BirdSavers website gives directions to build your own, or order from them from Acopian BirdSavers. Click to order (<http://www.birdsavers.com>)



Bird Crash Preventer –



(<http://stores.santarosanational.com/>)

Estimated Cost: \$27.95 for 36" width / \$29.95 for 48" width

The Bird Crash Preventer is a ready-to-hang "curtain" of fine nylon monofilament lines.

Brackets and screws included for self installation. Available in white and brown finish, 36" or 48" wide. Height adjusts 0" – 84". Reduces collisions with only minor impact on view. Click to order

(<http://stores.santarosanational.com/>).

Evonik Soundstop Birdguard –



(<http://www.acrylite.net/product/acrylite/en/products/acrylite-soundstop/pages/default.aspx>)

Estimated Cost: \$10 per 24" x 32" window

Soundstop, generally used for noise barriers and handrails in outdoor settings comes in two versions that are good choices for bird-friendly applications. Click to order

(<http://www.acrylite.net/product/acrylite/en/products/acrylite-soundstop/pages/default.aspx>).

Feather Friendly® DIY –



(<http://www.conveniencegroup.com/featherfriendly/feather-friendly/>)

Estimated Cost: \$10 per 24" x 32" window

These adhesive dots applied to the outside of your windows create an effective "frit" pattern. Do-it-yourself or have professionally installed. Click to order (<http://conveniencegroup.com/featherfriendly/feather-friendly/>).

Solyx® Bird-Safety Film –



(<https://www.decorativefilm.com/specialty-bird-safety>)

Estimated Cost: \$31 per 24" x 32" window

Do-it-yourself or have professionally installed. Click to order (<http://www.decorativefilm.com/bird-safety>)



ALSO RECOMMENDED



(<http://www.collidescape.org>) White Collidescape

Estimated Cost: \$36 per 24" x 32" window

This window film creates a solid appearance from the outside, but allows views from the inside and can reduce glare and cooling costs while protecting birds. Do it yourself or have professionally installed. Click to order (<http://collidescape.org>)



(<https://abirdseyeview.com/>) Bird's Eye View Decals (4"x 4" or 6"x 6")

\$2.66 per 24" x 32" window

These decals are intended for application to the inside of windows. They are non-adhesive, easy to apply, and must be spaced appropriately. Field tested by Dr. Daniel Klem, on uncoated window glass. Click to order (<http://www.abirdseyeview.com>)

Want to live a bird-friendly life? Try these six simple steps!
(<https://abcbirds.org/get-involved/bird-friendly-life/>)

ARCHITECTURAL PRODUCTS

Bird-friendly design should not increase project costs if it is considered from the outset of the design process, as outlined in Bird-friendly Building Design (<https://abcbirds.org/program/glass-collisions/learn-more/>).

Legislation and guidelines in over a dozen jurisdictions, with more pending, mandate or encourage bird-friendly design, and the materials listed here satisfy their requirements

(<http://www.usgbc.org/node/4561982?return=/pilotcredits/all/v4>).

They can also assist designs intended to earn the USGBC LEED™ Pilot Credit 55: Bird Collision Deterrence.

Acopian Birdsavers – (<https://www.birdsavers.com/>)



These “Zen Curtains” are easy to install, long lasting and highly effective. The BirdSavers website gives directions to build your own, or order from them from Acopia Savers. Learn more (<https://www.birdsavers.com>)



Arnold Glas: Ornilux Mikado – (<http://www.ornilux.com>)



Ornilux is one of the least-visible product currently on the market that provides some significant bird deterrence. Learn more (<http://ornilux.com>).



Bendheim Channel Glass –

The joints of this modular product create a pattern that deters collisions; it is up to 60 percent recycled; and features low-emissivity coatings. Learn more (https://bendheim.com/glass_type/channel-glas)



Evonik Soundstop BirdGuard –

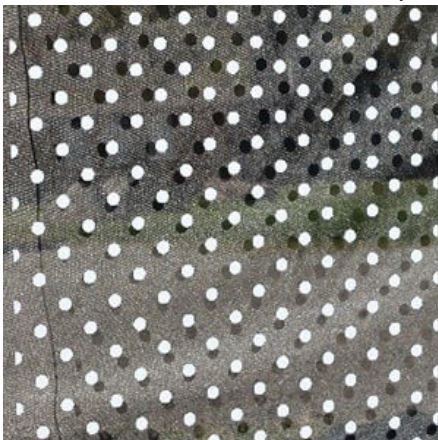


(<http://www.acrylite.net/product/acrylite/en/products/acrylite-soundstop/pages/default.aspx>)

This acrylic plexiglas has embedded polyamide threads for sliver retention and bird protection. Generally used for noise barriers, it is also suitable for use in handrails in outdoor settings. Learn more (<http://www.acrylite.net/product/acrylite/en/products/acrylite-soundstop/pages/default.aspx>).

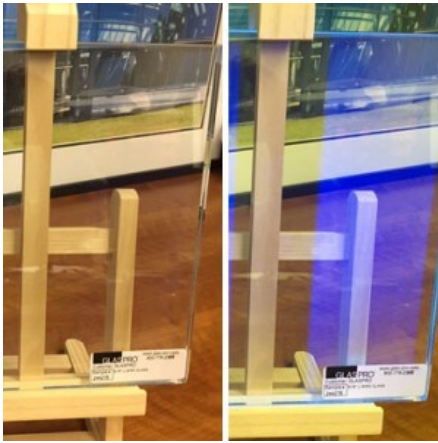


Ferro Dot Pattern – (<https://www.ferro.com/products/product-category/glass-colors/flat-glass-colors/surface-application/s1de-one-lead-free-glass-colors>)



This product comes in etch, green, gray (shown) or blue. Learn more (<https://www.ferro.com/products/product-category/glass-colors/flat-glass-colors/surface-application/s1de-one-lead-free-glass-colors>).





GlasPro Bird Safe Glass –

This product is ideal for buildings and zoos wanting maximum transparency with a maximum deterrent for bird collisions. Inks are for a minimum 30-year lifespan in exterior applications with a lead time of less than 6 weeks. 100% made in USA. Learn more (http://www.glas-pro.com/?page_id=677).



Guardian Glass SunGuard SN68 –



(<https://www.guardian.com/commercial/Products/ProductLineEandSolarControl/index.htm>)

Guardian Glass Bird products include fritted and UV options. Learn more (<https://www.guardianglass.com/us/en/products/glass-type/bird-friendly>).

Solyx[®] Bird-Safety Film – (<http://www.decorativefilm.com/bird-safety>)



Only the horizontal version of this product has been tested by ABC. Learn more (<http://www.decorativefilm.com/bird-safety>)



Viracon – Fritted Glass – (<http://www.viracon.com/page/silksc>



These products have low-emissivity coatings and provide solar control and bird collision deterrence. Learn more (<http://www.viracon.com/page/silkscreen>).



Walker Glass' Aviprotek[®] –



(<http://walkerglass.com/products/aviprotek-bird-friendly-glass/bird-friendly-glass/#.VjENmdKrTIU>)

With acid-etched patterns on surface one Walker Aviprotek[®] line is an elegant and effective solution.

Because the patterns are on surface one, they are likely to obscure reflections than surface two patterns. Learn more (<http://walkerglass.com/products/aviprotek-bird-friendly-glass>).



ALSO RECOMMENDED



(<http://www.conveniencegroup.com/featherfriendly/feather-friendly/>) Feather Friendly Patterns

These external vinyl patterns have proven effective on many buildings in the Toronto area. Users have reported significant reductions in collisions. Learn more. (<http://conveniencegroup.com/featherfriendly/feather-friendly/>)



(<http://www.collidescape.org>) White Collidescape

Estimated Cost: \$36 per 24" x 32" window

This window film creates a solid appearance from the outside, but allows views from the inside and can reduce glare and cooling costs while protecting birds. Do it yourself or have professionally installed. Click to order

(<http://collidescape.org>)

Want to see your product listed here? Contact Dr. Chris Sheppard at csheppard@abcbirds.org (<mailto:csheppard@abcbirds.org>)

ABOUT OUR RATINGS

ABC tests glass products and other deterrents by safely and carefully flying birds through a tunnel, where they are presented with a clear glass pane in one "lane" and the tested product in another. The number of birds that fly to escape the tunnel towards the clear glass provides a score for avoidance of the deterrent. Light netting is placed in front of the glass to prevent injury to the birds, and they are released after one flight.

Visual deterrents or patterns, such as those tested by ABC, can break up reflections and reduce related bird strikes such as those caused by reflected vegetation. However, ABC's tunnel testing is not specifically designed to rate products on their ability to reduce bird mortality caused by reflections. It is designed primarily to test how well visible patterns function to deter birds flying towards glass.

Field applicability will also vary by installation: Relative effectiveness is governed by variable external factors, such as proximity of vegetation, orientation towards the sun, bird feeders, and proximity to other buildings. Realistically, these cannot be measured in statistically reliable tests that would provide broadly applicable results.

Donate (<https://abcbirds.org/donate>) to support ABC's conservation mission! Support our glass collisions program by noting 'collisions' in the designation box.

HOME
([HTTPS://ABCBIRDS.ORG/](https://abcbirds.org/))

DONATE

([HTTPS://ABCBIRDS.ORG/DONATE](https://abcbirds.org/donate))

JOIN / RENEW

([HTTPS://ABCBIRDS.ORG/DONATE/MEMBERSHIP](https://abcbirds.org/donate/membership))

GET E-NEWS

([HTTPS://ABCBIRDS.ORG/EMAIL-SIGN-UP/](https://abcbirds.org/email-sign-up/))

BIRDCALLS BLOG

([HTTPS://ABCBIRDS.ORG/BIRDCALLS/](https://abcbirds.org/birdcalls/))

RESULTS

([HTTPS://ABCBIRDS.ORG/RESULTS/](https://abcbirds.org/results/))

MISSION

([HTTPS://ABCBIRDS.ORG/ABOUT/MISSION-AND-STRATEGY/](https://abcbirds.org/about/mission-and-strategy/))

PRIVACY POLICY

([HTTPS://ABCBIRDS.ORG/ABOUT/PRIVACY-POLICY/](https://abcbirds.org/about/privacy-policy/))

CONTACT

([HTTPS://ABCBIRDS.ORG/ABOUT/CONTACT/](https://abcbirds.org/about/contact/))

TAKE ACTION FOR BIRDS
([HTTPS://ABCBIRDS.ORG/GET-INVOLVED/TAKE-ACTION/](https://abcbirds.org/get-involved/take-action/))

ANNUAL REPORTS
([HTTPS://ABCBIRDS.ORG/RESULTS-AND-REPORTS/](https://abcbirds.org/results-and-reports/))

STAFF LOGIN
([HTTPS://ABCBIRDS.ORG/ADMIN](https://abcbirds.org/admin/))

Copyright 2020 © American Bird Conservancy. All Rights Reserved. American Bird Conservancy is a 501(c)(3) organization. EIN: 52-1501259

SIGN UP FOR UPDATES (<https://abcbirds.org/email-sign-up/>)

