

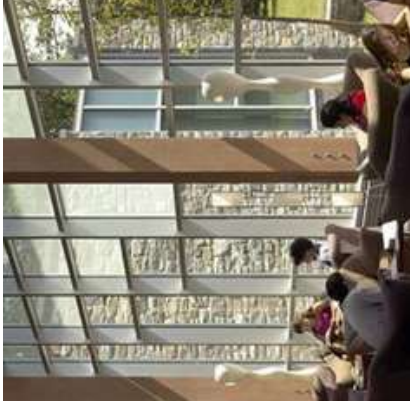
5.2 Bird Safe Design

To minimize adverse effects on native and migratory birds, new construction and major renovations will incorporate design measures to promote bird safety. These measures will help reduce the likelihood of building collision fatalities through façade treatments and light pollution reduction. These measures apply to both residential and non-residential land uses except where specified.

Standards

- Bird Safe Design Requirements.** All new construction, building additions, and/or building alterations shall adhere to the Bird Safe Design standards in this section.
- Façade treatments.** No more than 10% of the surface area of a building's total exterior façade shall have untreated glazing between the ground and 60 feet above ground.³⁵ Examples of bird-friendly glazing treatments include the use of opaque glass, the covering of clear glass surface with patterns, the use of paned glass with fenestration patterns, and the use of external screens over non-reflective glass.³⁶
- Occupancy sensors.** For non-residential development, occupancy sensors or other switch control devices shall be installed on non-emergency lights. These lights should be programmed to shut off during non-work hours and between 10:00 pm and sunrise.
- Funneling of flight paths.** New construction shall avoid the funneling of flight paths along buildings or trees towards a building façade.
- Skyways, walkways, or glass walls.** New construction and building additions shall avoid building glass skyways or walkways, freestanding glass walls, and transparent building corners. New construction and building additions should reduce glass at tops of buildings, especially when incorporating a green roof into the design.
- Exceptions to the bird safe design requirements.** The City may waive or reduce any of this chapter's bird safe design requirements based on analysis by a qualified biologist indicating that proposed construction will not pose a collision hazard to birds.

Guidelines



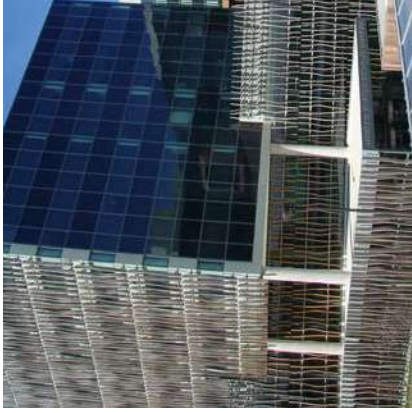
An example of clear glass with bird friendly fritted glass. Rows of closely spaced circles etched in the glass makes the windows more visible to birds.



An example of external screens and stickers of birds of prey silhouettes.

³⁵ The portion of the building most likely to sustain bird strikes is the area between the ground and 60 feet above ground.

³⁶ Bird-friendly glazing treatments must include vertical elements of the window patterns that are at least 1/4 inch wide at a maximum spacing of 4 inches, or have horizontal elements at least 1/8 inch wide at a maximum spacing of 2 inches.



Windows are fronted by a 'brise soleil' or sunshade that makes the glass safe for birds.

1. **Bird collision best management practices.** The following are several voluntary best management practices (BMPs) to promote bird safety.
 - a. **Collision monitoring.** To reduce hazards in high-collision areas, building owners and tenants are encouraged to monitor locations of bird collisions (e.g., based on dead or injured birds or imprints of feathers on windows) and implement "retrofit" measures, such as application of patterns to existing windows or use of internal blinds, where collisions occur.
 - b. **Window coverings.** Building owners and tenants are encouraged to install window coverings above the ground floor.
 - c. **Work station lighting and window coverings.** Businesses are encouraged to turn off lighting at employee work stations and draw office window coverings at the end of the day.
 - d. **Daytime maintenance.** Businesses are encouraged to schedule maintenance during the day or to conclude before 10:00 pm.
2. **Handling of food waste.** Appropriate handling of food waste is encouraged so it is not accessible to, and does not attract, nuisance wildlife such as gulls, crows, jays, skunks, and raccoons. Appropriate handling includes providing adequate waste receptacles with closing lids, emptying them regularly, and ensuring food waste in dumpsters is covered (e.g., with closing lids) to minimize availability to nuisance species.