



Shaping the future for birds

Tunnel Testing Report Guardian Glass Fall 2016

Date: December 1, 2016

Testing dates: September 1 – November 11

Facility: Powdermill

Testing notes

1. Avoidance Index (AI) Scores indicate the fraction of trials in which birds flew towards the unpatterned control glass. When the tunnel test is run with two pieces of unpatterned glass, 50% of birds fly to the left and 50% to the right, so Avoidance Index Scores range from 50- 100.
2. A score of 50 therefore means 'no deterrent effect' for a test material. For this reason, the AI must be understood as an index of how well a material will perform at reducing collisions, relative to other tested materials, when installed on a structure.
3. The AI correlates with performance when the pattern is visible; if the pattern is on an internal surface, reflections on surface one can diminish actual effectiveness when the material is installed on a structure.
4. At least 80 trials were run for each sample.
5. All samples tested *with* background.
6. As of June 2015, Material Threat (MT) Scores are calculated as $(1 - AI) \times 100$. Note that this calculation is determined by the LEED Pilot Credit committee and is subject to change.
7. There were too few low light days in the fall, 2016 season to break down performance under different light levels.

Materials tested:

20% Dots (#2) with SunGuard SNX (#3)
AI Score: 79 Useable Flights: 87 **MT Score: 21**

40% Dots (#2) with SunGuard SNX (#3)
AI Score: 78 Useable Flights: 81 **MT Score: 22**