



Pilkington **AviSafe™**
Glass designed to protect birds

Pilkington **AviSafe**™

Pilkington **AviSafe**™ is an innovative glass solution, developed to greatly reduce the number of bird collisions. The unique patterned UV enhanced coating disrupts the reflection on the glass, so the bird can see a barrier.

The reflection of vegetation, the sky, and other buildings are deceptive and can result in bird collisions. Birds in flight are unable to use visual signals such as window frames to distinguish the location of the glass, as a human would.

Unlike humans, birds can see light in the ultraviolet spectrum. Therefore, the coating on Pilkington **AviSafe**™ makes the glass more visible to birds while remaining aesthetically appealing on the exterior surface. From the inside however, it's barely visible to the human eye, unlike other solutions.

When installed in an Insulating Glass Unit (IGU), the coating is located on surface #1, the external face of the outer pane. This enables the product to be as effective as possible at disrupting the reflection so the bird can only see a barrier.



Glass - A Triple Threat to Birds

- Reflections of vegetation or landscape attract birds to collide with glass.
- Green habitat inside buildings such as glass atriums, with clear glass can lead to collisions.
- Glass corners or narrow passages can allow birds to see through to habitat on the other side of a building, encouraging them to try to fly through.

Features and Benefits

- Could potentially save billions of birds each year.
- Passes the WIN test, a measure of bird impacts from reflection.
- Maintains high transparency.
- Aesthetically appealing externally.
- Internally it's barely visible to the human eye, unlike other solutions.
- Available in the following sizes:
 - In Europe sizes up to 6000 mm × 3210 mm
 - Outside Europe up to 5100 mm × 3210 mm.
- Highly durable surface #1 coating.
- Can be combined with many other Pilkington glass products for additional benefits, for example thermal insulation, solar control, safety & security, and noise control.



Passed the WIN test with flying colours

Pilkington **AviSafe™** was put through its paces by Martin Rössler at Hohenau bird ringing station in Austria and successfully passed the WIN test – a rigorous process that measures the behaviour of birds flying towards reflections in glass.

Award-winning success

Pilkington **AviSafe™** won the British Glass Focus 'Innovative Solutions' award in 2018.

Alternative solutions for bird strikes

As well as bird collisions caused by reflection, another well-known cause is transparency. Birds try to fly to something they see through the glass, either inside or on the other side of a building, e.g. trees or sky.

These 'fly-through' strikes are the cause of impact on some buildings and most noise barriers and bus shelters.

Whilst Pilkington **AviSafe™** can reduce the number of reflection collisions, a frit-based solution may be more suitable if the main cause of collisions on a building is 'fly-through'. We have expertise and test evidence in this area – please contact your local NSG Group representative for more information.



This publication provides only a general description of the products. Further, more detailed, information may be obtained from your local supplier of Pilkington products. It is the responsibility of the user to ensure that the use of these products is appropriate for any particular application and that such use complies with all relevant legislation, standards, codes of practice and other requirements. To the fullest extent permitted by applicable laws, Nippon Sheet Glass Co. Ltd. and its subsidiary companies disclaim all liability for any error in or omission from this publication and for all consequences of relying on it. Pilkington and "AviSafe" are trademarks owned by Nippon Sheet Glass Co. Ltd, or a subsidiary thereof.



CE marking confirms that a product complies with its relevant harmonised European Norm.
The Declaration of Performance for each product, including declared values, can be found at www.pilkington.com/CE



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