



... FOR A SAFER WORLD FOR BIRDS 

 **WINGSAFE™**  
BIRD PROTECTION FILM

**Black Dot S35**

## ONE FILM, TWO PROTECTIONS: ADVANCED SOLAR CONTROL AND PROVEN BIRD-STRIKE REDUCTION!

Each year, hundreds of millions of birds die across Europe due to collisions with windows and glass facades. This issue is a serious concern for nature conservation, as it impacts bird populations and biodiversity.

One major factor is the rise in buildings with high percentages of glass in their facades, which has drastically altered birds' natural habitats. Common solutions, such as stickers resembling birds of prey, have proven largely ineffective in reducing both the frequency and risk of these collisions.

Just as Saint-Gobain seeks solutions to incorporate bird protection measures into new glass designs, Solar Gard is focusing on making existing facades and glazing more bird-friendly.

Solar Gard WingSafe™ Black Dot S35 is the first exterior solar protection film with an embedded bird-strike solution and backed by a 10-year warranty. Independently tested at Flugtunnel II in Austria, WingSafe™ Black Dot S35 achieved a TF rating of 13%, confirming its effectiveness in reducing bird collisions.

More than just protection, WingSafe™ Black Dot S35 is a truly sustainable innovation: it helps lower carbon footprints by improving energy efficiency while simultaneously enhancing bird safety. With WingSafe™ Black Dot S35, Solar Gard sets a new benchmark in combining solar performance, durability, and environmental responsibility in one breakthrough product.

### THE FIRST SOLAR CONTROL FILM WITH BUILT-IN BIRD-STRIKE PROTECTION – BACKED BY A 10-YEAR WARRANTY

EFFICIENCY VERIFIED THROUGH INDEPENDENT TESTING

**1-** TF=13% on reflective surface   
(WIN-Tests Flugtunnel II, Austria)

**2-** A multi-layer product including a high quality, sputtered functional layer, integrated bird-strike pattern, protected with Solar Gard's proprietary Outside Weatherable technology. 

**3-** Pattern integrated in the product: unlike solutions with stickers, there is no risk for discoloration, accidental removal or damage of the dots. 

**4-** No edge sealing required on vertical surfaces. Applied like any other outside weatherable window film. 

**5-** 10 year product warranty on vertical surfaces.\*\* 



**6-** Blocking up to 72% solar energy, 62% of the glare and >99% of the harmful UV radiation. 

**7-** Special adhesive allowing removal without leaving traces of adhesive on the glass. 

**8-** No special maintenance required. The pattern (dots) do not interfere with the cleaning. 

**9-** Standard roll length : 30 m. Longer rolls possible on a project basis. 

TF = 13%\*  
THREAT FACTOR

 American Bird  
Conservancy

Enhancing Existing Glass for a Safer World for Birds.

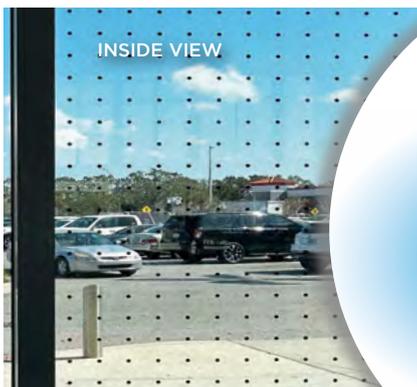
  
SAINT-GOBAIN

# Solar Gard® WingSafe™ Black Dot S35

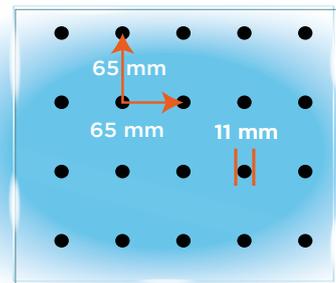
## Where energy efficiency meets bird safety

Solar Gard WingSafe™ Black Dot 35 Solar Gard WingSafe™ Black Dot S35 has been tested at the **Biologischen Station Hohenau-Ringelsdorf, Austria** (WIN-Tests im Flugtunnel II). The **TF obtained under was 13% (sunny conditions) and 16% (clouded conditions)**.

The Threat Factor (TF) of a solution is based on flying at least 80 individual birds down the tunnel and recording whether they fly towards the control or towards the patterned test pane. For example, suppose 100 birds (> 80) flew down the tunnel, with 3 flying towards the control and 97 toward the control. 3% (3/100) of the birds flew towards the test pattern and is then: TF=3. In most cases, anti-bird strike films are tested on clear glass. Yet real-world installations rarely use bare glazing—modern buildings often feature reflective coatings, and older windows are frequently upgraded with solar control films to enhance performance. **Solar Gard WingSafe™ Black Dot S35** is the first—and currently the only—tested solution that delivers both advanced solar protection and reliable bird-strike mitigation in a single product. It's a breakthrough that finally aligns laboratory testing with real-life glazing conditions.



Currently **WingSafe™** comes with 1 pattern: 11 mm black dots at 65 mm distance in an orthogonal grid.



Coverage: 2,2%

Product Performance and physical characteristics on 6 mm clear double glazing		Solar Gard WingSafe™ S35
TF	Threat factor %	13
Visible Light	Transmittance %	31
	Reflectance exterior %	42
	Reflectance interior %	39
	Glare %	62
Ultraviolet Light	UV Blocked @300-380 nm %	>99
Solar Energy	Total solar energy rejected (TSER) %	72
	Total solar energy rejected (TSER) % @60°	77
	IRER (780-2500 nm)	78
	Fading factor (TdW,%)	24
	G-value	0.28
	Solar heat gain reduction %	64
Product Thickness	Nominal thickness	3 mil (75 µm)
Fire Reaction	EN 13823	B-s1, d0
	NF P92-501	M1
Product Code	SF53000035-60100 (100 FT ROLLS)	
	SF53000035-60200 (200 FT ROLLS)	

**Notes**

Performance results are calculated using NFRC methodology and LBNL Window software, and are subject to variations within industry standards and only intended for estimating purposes. This data is provided for informational purposes only and are subject to normal manufacturing variances.

\*\*American Bird Conservatory, USA and TF=13% on reflective surface (WIN-Tests Flugtunnel II, Austria) \*\*For details see the Solar Gard SWT&C on [www.solargard.eu](http://www.solargard.eu).



[solargard.eu/WingSafe](http://solargard.eu/WingSafe)

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