

# ICS Performance Guarantee Architectural Window Films Warranty

The ICS Performance Guarantee combines our films with other qualified components to form a system which is guaranteed to be compatible and provide superior performance. You know exactly what to expect from your finished Architectural Window Films as they have already withstood rigorous scientific testing and met a very stringent set of physical performance specifications.





### **Avery Dennison brand**

- Interior and Exterior product table
- Additional information on warranty period

### **Hanita brand**

- Interior and Exterior product table
- Additional information on warranty period

# Avery Dennison

## Interior

Performance	Film Finish	Products	Warranted durability period in years (Vertical)
Solar Films	Reflective	R Silver 20i	12
		R Silver 35i	12
		R Silver 50i	12
	Dual Reflective	DR Grey 05i	12
		DR Grey 15i	12
	Spectrally Selective	SS Natural 45i****	10
SS Natural 70i****		10	
Safety Films	Clear	SF Clear 4 mil i / SF Clear 4 mil i EC	12
		SF Clear 7 mil i	12
		SF Clear 8 mil i	12
		SF Clear 12 mil i	12
Anti Graffiti	Clear	AG Universal 4 mil ix	10
		AG Universal 6 mil ix	10
Speciality Films	Clear	DS Matte i	12
		DS UV Filter i	12

## Exterior\*\*\*\*

Performance	Film Finish	Products	Warranted durability period in years		
			Vertical <sup>†</sup>	Horizontal/ Sloped	
Solar Films	Reflective	R Silver 20X	7	4	
		R Silver 35X	7	4	
		R Silver 50X	4	3	
		DS Bronze 20X	4	2.5	
		R Silver 20X Poly	4	3	
	Dual Reflective / Spectrally Selective	DR Grey 10X	5**	3	
		DR Grey 20X	5**	3	
		DR Grey 35X	5**	3	
		DR Grey 50X	4	2	
		SS Natural 45X	7	3	
		SS Natural 70X	7	3	
	XTRM Series <sup>†</sup>	Clear	R Silver 20 XTRM PRO	Up to 15 <sup>†</sup>	5
			Skylite 20 XTRM PRO****		Up to 10 <sup>†</sup>
			Skylite 20 XTRM PRO Poly****		10
			DR Grey 10 XTRM PRO	8 <sup>†</sup> (Up to 10)	4 <sup>†</sup>
			DR Grey 35 XTRM PRO	8 <sup>†</sup> (Up to 10)	4 <sup>†</sup>
Safety Films	Clear	SF Clear 4 mil X	5		
		SF Clear 7 mil X	5		
Anti Graffiti	Clear	AG Universal 4 mil ix	2	2	
		AG Universal 6 mil ix	2	2	
Speciality Films	Poly Films	Poly Clear 4 mil X	4	3	
		Poly Clear 6 mil X	4	3	
		Avery Dennison Edge Sealing Tape	Up to 12	5	

\* Vertical exposure, European climatic conditions

\*\* 5th year prorated to 30% film value

\*\*\* Edge Sealing required within a distance of 10 miles/16 km from the sea. Use Dow Corning 795 or 1199 (clear), Max 5000 by GE or equivalent neutral silicone seal agent, Avery Dennison Edge Sealing Tape can be used as well. No edge sealing required on such locations in case of fixed/stationary/immovable windows that are not exposed to environment.

\*\*\*\* All exterior films require sealing! Use a neutral silicone edge sealant for external use such as Dow Corning 995 or 885, GE Max 5000, or an equivalent neutral silicone sealing agent for extremely long-term (12-15 years) external application on all four sides of the film. Make sure that the silicone sealant is applied according to the sealant manufacturer instructions.

\*\*\*\*\* No need to edge seal unless water pooling on edges.

## Additional information on warranty period

### Definition of warranty period and potential warranty period reductions

The warranty period which may be applicable to Avery Dennison Architectural Window Films are defined as the expected performance life of the Avery Dennison Architectural Window Films within the European region in outdoor vertical exposure conditions. The warranty period is defined such that the films will not deteriorate excessively.

The actual performance life will depend on a variety of factors, including selection and preparation of substrate, angle and direction of exposure, application methods, environmental conditions and cleaning/maintenance of the films. In case of films used in areas of high temperatures or humidity, high altitudes, industrially polluted areas or the warranty period might be further reduced below levels stated in this ICS Performance Guarantee document.

### Definition of warranty period and potential warranty period reductions for Avery Dennison XTRM & XTRM PRO Series<sup>1</sup>

#### Warranty up to 15 years as follows on R Silver 20 XTRM, R Silver 20 XTRM PRO

Central Europe (above 40 N latitude)	Between 15N-40N Latitude
12 years full coverage	11 years full coverage
13 years - 50% coverage	12 years - 70% coverage
14 years - 30% coverage	13 years - 50% coverage
15 years - 20% coverage	14 years - 30% coverage
	15 years - 20% coverage

#### R Silver 35 XTRM PRO

Central Europe (above 40 N Latitude)	Between 15 N-40 N Latitude
10 years (V) / 5 years (H)	9 years (V) / 4 years (H)

#### SkyLite XTRM PRO

Central Europe (above 40 N Latitude)	Between 15 N-40 N Latitude
10 years (H)	8 years (H)

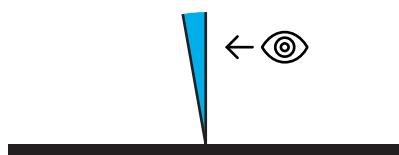
#### DR Grey XTRM PRO Series

Central Europe (above 40 N Latitude)	Between 15 N-40 N Latitude
8 years (V) / 4 years (H)	7 years (V) / 3 years (H)

Up to 10 years per specific project based on written approval from Avery Dennison

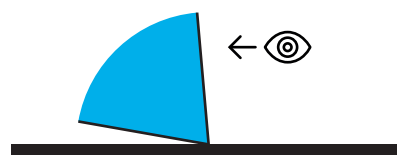
### Angle and direction of exposure

#### Vertical



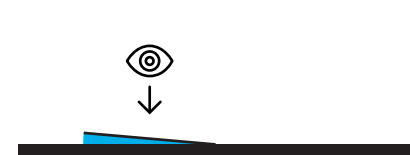
The face of the graphic is up to 10° from vertical

#### Non-vertical



The face of the graphic is between 10° and 85° from vertical

#### Horizontal



The face of the graphic is between 85° and 90° from vertical.

**High elevations:** In mountain areas UV damage is increased over exposures at sea level. This is due to the air being thinner and therefore damage of UV radiation increases significantly.

**Congested urban or industrial areas:** Due to increased smog, pollutants and particulates in the atmosphere, applications have reduced durability expectations. Also horizontal application traps chemicals on the surface of the material, increasing the impact of UV exposure and reducing durability.

# Hanita Coatings

## Interior

Performance	Film Finish	Products	Warranted durability period in years	
			Vertical	Horizontal/ Sloped
Solar	Reflective	Silver 20 Silver 35 Silver 50	12 years	
	Dual Reflective	Titan Duo 05 Titan Duo 15	12 years	
		OptiTune 05 OptiTune 15 OptiTune 22 OptiTune 30 OptiTune 40	12 years	
		Neutral	PerLite 20 PerLite 35 PerLite 50 PerLite 70	12 years
	Spectrally Selective	e-Lite 45*** e-Lite 70***	10 years	
	Specialty	Matte Translucent, 2 mil UV Filter, 2 mil Black Out White Out	12 years 12 years 5 years 5 years	
Safety	Clear	Clear 4 mil Clear 7 mil Clear 8 mil Clear 12 mil Clear 15 mil	12 years	
	Anti Graffiti	4 mil Universal 6 mil Universal	10 years 10 years	
	Specialty	Matte 5 mil Matte 12 mil	12 years	
	Surface Protection	PolyZone 4 mil Clear	5 years	
Solar Safety	Reflective	Silver 20 4 mil Silver 20 9 mil Silver 20 12 mil	12 years	
	Spectrally Selective	8 mil e-Lite 70	10 years	
	Neutral	6 mil PerLite 35 6 mil PerLite 50 10 mil PerLite 35 10 mil PerLite 50	12 years	

## Exterior\*\*\*\*

Performance	Film Finish	Products	Warranted durability period in years	
			Vertical <sup>†</sup>	Horizontal/ Sloped
Solar	Reflective	Silver 20 Xtra	7	4
		Silver 35 Xtra	7	4
		Silver 50 Xtra	4	3
		PolyZone Silver 20 Xtra	4	3
		Silver Matte 20 Xtra	5	3
		Solar Bronze 20 Xtra	4	2.5
		XTRM Silver 20 PRO	Up to 15 <sup>1</sup>	5
	Dual Reflective	XTRM SkyLite 20 PRO****	NA	Up to 10 <sup>1</sup>
		XTRM PolyZone SkyLite 20 PRO****	NA	10
		Titan 07 Xtra	5**	3
		Titan 20 Xtra	5**	3
		Titan 35 Xtra	5**	3
Spectrally Selective	Titan 50 Xtra	4	2	
	XTRM Titan 07 PRO	8 <sup>1</sup> (Up to 10)	4 <sup>1</sup>	
	XTRM Titan 35 PRO	8 <sup>1</sup> (Up to 10)	4 <sup>1</sup>	
Safety	Clear	e-Lite 45 Xtra	7	3
		XTRM e-Lite 70	12	6
	e-Lite 70 Xtra	7	3	
	OptiLite75 Xtra	5	3	
Surface Protection	Clear 4 mil Xtra	5	3	
	Clear 7 mil Xtra	5	3	
	PolyZone 4 mil Clear Xtra	4	3	
Anti Graffiti	PolyZone 6 mil Clear Xtra	4	3	
	4 mil Universal	2	2	
Solar Safety	Reflective	6 mil Universal	2	2
		5 mil Silver 20 Xtra	7	5
		Avery Dennison Edge Sealing Tape	Up to 12	5

## Additional information on warranty period

### Definition and potential exclusions for the warranty period

Expected performance life within the European region (in outdoor vertical exposure conditions) is the basis of the warranted durability applicable to Hanita Coatings Architectural Window Films.

Actual performance life varies depending on several factors. These include the type of substrate and how it is prepared; the angle and direction of exposure; how the films are applied; environmental conditions; and how films are cleaned and maintained. Exposure to high temperatures or humidity, or industrial pollution, or installation at high altitudes, can reduce the warranty period below the level stated in this Performance Guarantee document.

### Definition of warranty period and potential warranty period reductions for Hanita Coatings XTRM Series and XTRM PRO Series<sup>1</sup>

#### SolarZoneXTRM Silver 20 PRO

Central Europe (above 40 N Latitude)	Between 15 N-40 N Latitude
12 years full coverage	11 years full coverage
13 years - 50% coverage	12 years - 70% coverage
14 years - 30% coverage	13 years - 50% coverage
15 years - 20% coverage	14 years - 30% coverage
	15 years - 20% coverage

#### SolarZoneXTRM Silver 35 PRO

Central Europe (above 40 N Latitude)	Between 15 N-40 N Latitude
10 years (V) / 5 years (H)	9 years (V) / 4 years (H)

#### SolarZoneXTRM SkyLite 20 PRO

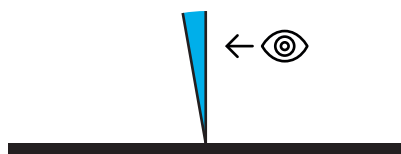
Central Europe (above 40 N Latitude)	Between 15 N-40 N Latitude
10 years (H)	8 years (H)

#### SolarZoneXTRM Titan PRO series

Central Europe (above 40 N Latitude)	Between 15 N-40 N Latitude
8 years (V) / 4 years (H)	7 years (V) / 3 years (H)
Up to 10 years per specific project based on written approval from Hanita Coatings	

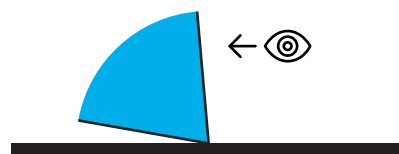
### Angle and direction of exposure

#### Vertical



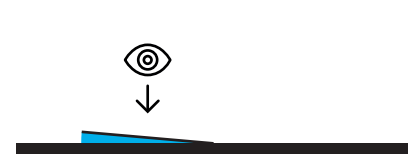
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\* Vertical exposure, European climatic conditions

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2025-05\_33067 EN



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