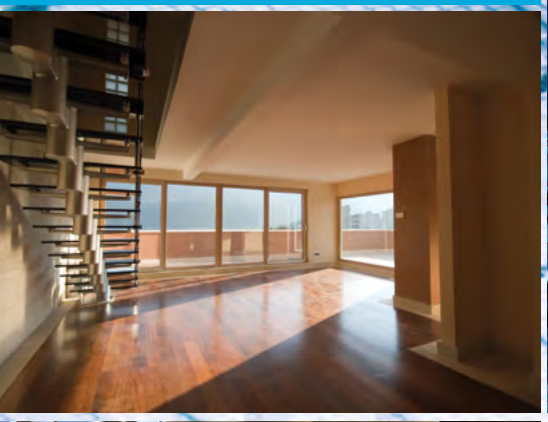
UV PROTECTION

HEAT REJECTION

SKYFOL HEAT PROTECTION, SAFETY AND PRIVACY PROTECTION WINDOW FILMS

VISIBLE LIGHT

The wavelength range of electromagnetic radiation that can be perceived by the human eye. It ranges from 390 to 750 nm

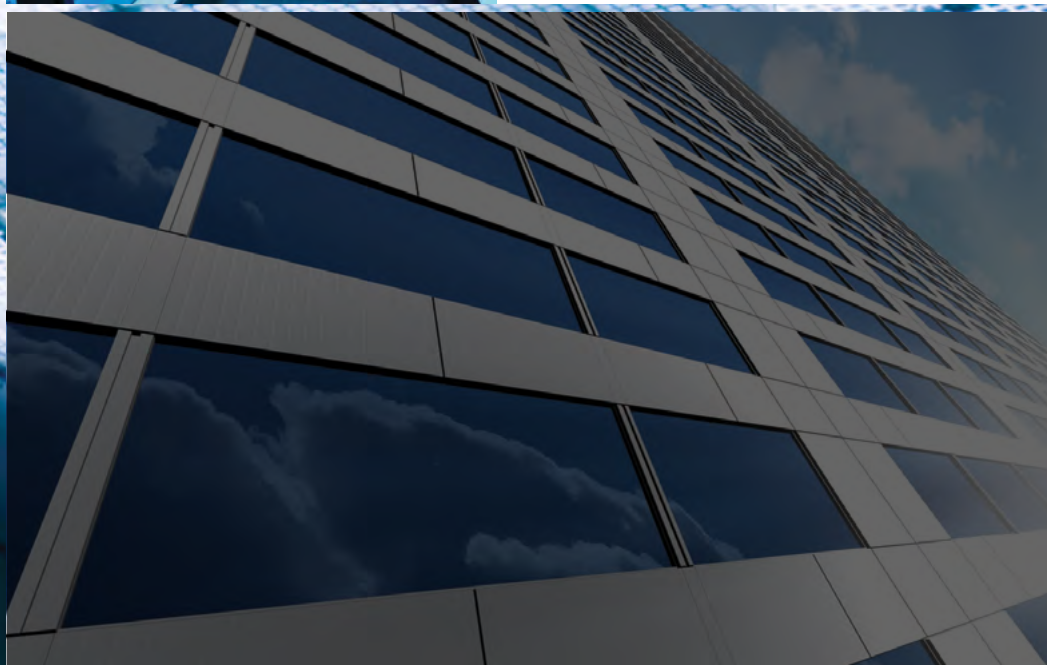


SOLAR SPECTRUM

It ranges from infrared through visible light to ultraviolet

GLASS

Amorphous material with certain characteristics similar to liquids. It is formed from a melt by cooling to rigidity without crystallization



WHO IS SKYFOL

Skyfol is a forward-thinking brand delivering premium architectural window films to trusted partners. Our roots reach back to 1982, when our founders began building deep expertise in the window film industry—experience that places Skyfol among Europe's most established names.

Innovation, quality, and partnership define everything we do. With an exceptionally broad product portfolio, we offer solutions for virtually any architectural glazing challenge. Our films are manufactured in world-leading facilities and selected to ensure full compatibility with European glazing systems. Today, Skyfol is trusted across numerous European markets—proof of the long-term performance and reliability behind every series.

CONTENTS

1982
The founders of Skyfol begin importing window film products to Central and Eastern Europe

1990
K&R Trading Co. is founded, offering window films from the very beginning

1998
K&R Trading Co. becomes the sole representative of the American Sun-Gard brand in Hungary

2008
K&R Trading Co. launches its own brand, Skyfol

2010
Skyfol XTS series launch

2016
Skyfol developed Film Viewer

2018
Skyfol created the Energy Calculator

2023
Skyfol is present in 34 countries

2025
2025 Skyfol launched XTPC film for polycarbonate surfaces

ADVANTAGES OF SKYFOL

INTERNATIONAL SUPPLIERS

Skyfol films are sourced from world-leading manufacturers.

A UNIQUE PRODUCT RANGE

We carefully select our manufacturing partners to ensure our window films are fully compatible with European glazing systems. This allows us to offer a comprehensive range—providing a solution for every type of glass surface and requirement.

NEARLY 45 YEARS OF PROFESSIONAL EXPERIENCE

The founders of Skyfol first introduced window films to Central and Eastern Europe in 1982. Much has changed since then, but our focus remains the same: we continue to work with window films today—and we are committed to doing so for the next 45 years as well.

NETWORK OF CONTRACTED INSTALLERS

Over the years, we have built a trusted network of contracted installers to ensure consistently high-quality service across multiple locations. Premium window films require professional installation—this is essential for a flawless result and long-term performance.

MANUFACTURER WARRANTIES

The warranty we provide is always supported by the manufacturers' warranties—without exception. We have consistently stood behind the quality of our products, and we will continue to do so.

FAST AVAILABILITY & RELIABLE LOGISTICS

With efficient supply planning and dependable delivery, Skyfol helps keep projects on schedule—minimising lead times and ensuring smooth execution, even for larger orders.

THE WORKING PRINCIPLE OF WINDOW FILMS

SOLAR RADIATION

Solar radiation is electromagnetic energy emitted by the Sun. Fortunately, the Earth's atmosphere absorbs and filters most of the most dangerous wavelengths, meaning the radiation that reaches the surface does not typically include the truly life-threatening ranges. Due to its material structure, glass also blocks part of the spectrum. The wavelengths that pass through glazing largely follow the solar spectrum, approximately 280–2,500 nm. The purpose of window films is to further reduce the unwanted portion of radiation entering through the glass.

ULTRAVIOLET (UV) RADIATION

The UV range transmitted through glass typically falls between 280–400 nm, which can be divided into UV-B (280–315 nm) and UV-A (315–400 nm). From an energy perspective, UV radiation is relatively low, yet its biological impact can be significant: it contributes to skin aging, can cause clouding/greying of the eye lens, and in extreme cases may lead to skin cancer. All Skyfol architectural window films filter 99% of UV radiation.

VISIBLE LIGHT (VL)

Visible light lies between 400–750 nm. Around 47% of the energy reaching the glass surface is within the visible range, making it an important contributor energetically. Because visible light also has a meaningful biological and comfort effect, it is generally advisable not to reduce it excessively. Visible light reflection is another key parameter, indicating how reflective the film appears.

INFRARED (IR) RADIATION

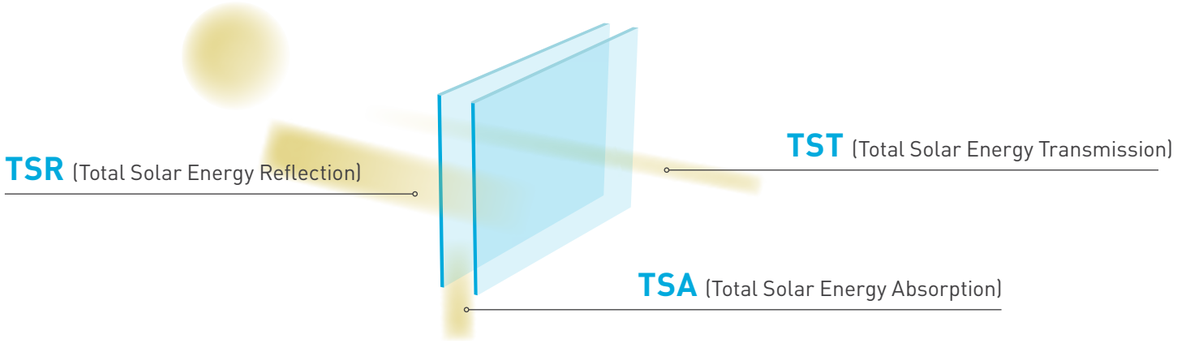
In the solar spectrum, infrared radiation spans approximately 750–2,500 nm. This is the most significant segment in terms of heat load, accounting for roughly 53% of the total energy reaching the surface. Effective IR filtration is therefore essential for thermal comfort and heat protection.

WHAT ARE WINDOW FILMS?

Window films are based on polyester—a highly stable, durable, and crystal-clear material. One of its key advantages is that it can be easily processed in different ways, including dyeing, metallizing, and sputtering, allowing a wide range of functional film types.

A typical window film is constructed from multiple layers, bonded together with a laminating adhesive. For installation, every film includes a thicker, solvent-based, transparent adhesive layer that secures the film to the glass. This pressure-sensitive adhesive is protected by a thin release liner, which is removed just before application. On the opposite side, the film surface is protected by an anti-scratch top coating, helping to prevent damage and maintain a clean appearance during everyday use.

HEAT PROTECTION AND ENERGY SAVING



The primary purpose of applying an architectural window film is to improve heat protection and support summer energy savings. The solar radiation reaching a glass surface can be described through three components. The portion reflected back to the outside by the filmed glazing is referred to as Total Solar Energy Reflection (TSR). Total Solar Energy Transmission (TST) indicates the part of the energy that passes through the window and enters the interior. The third component is Total Solar Absorption (TSA), which is absorbed by the glazing system and later re-radiated to the environment at a different wavelength.

Total Solar Energy Rejected (TSER) combines these factors, and is therefore the most reliable overall indicator of a window film's heat-protective performance.

WHAT GLAZING SYSTEM IS USED FOR MEASUREMENTS?

Solar energy absorption depends strongly on the glazing system used. To illustrate this, we can compare films using different technologies installed on the same type of glass. On single-pane glass, Skyfol P35, Skyfol SI35 and Skyfol N35 show the following parameters.

Data measured on single-pane glass	TSER	TST	TSR	TSA
P35	71%	19%	42%	39%
SI35	68%	22%	43%	35%
N35	50%	38%	16%	46%

However, the very same films can produce completely different results when installed on dual-pane low-e glass.

Data measured on dual-pane low-e glass	TSER	TST	TSR	TSA
P35	67%	15%	49%	36%
SI35	55%	19%	44%	36%
N35	38%	27%	18%	55%

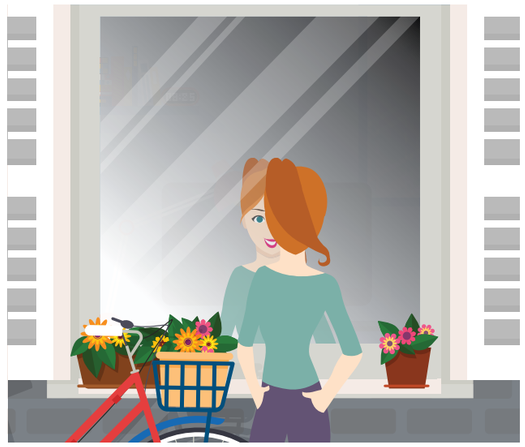
For this reason, selecting a window film that matches the specific glazing system is essential. With advanced glazing types, we recommend using only films with low heat absorption.

SPECTRALLY SELECTIVE WINDOW FILMS

Spectrally selective films provide strong infrared (IR) reflection while maintaining high visible light transmission. This technology delivers effective heat protection without significantly reducing natural daylight. Skyfol offers the following spectrally selective films: Skyfol P70, Skyfol XT67CV and Skyfol XT47CV, Skyfol Executor70.

PRIVACY PROTECTION

SILVER REFLECTIVE FILM DURING THE DAY



SILVER REFLECTIVE FILM AT NIGHT

Reflective films provide daytime privacy, helping to reduce unwanted views into the interior while maintaining outward visibility. A common misunderstanding is that reflective films also prevent visibility at night. It is important to note that reflection works toward the brighter side of the glass—meaning the "mirror effect" appears on the side where the light source is stronger.
In practice, with a silver reflective film, if it is dark outside (for example in winter) and the lights are switched on indoors, the glass may become more transparent from the outside—so people can look in—while visibility from the inside becomes more limited. The level of interior reflection is listed on each data sheet. If you wish to reduce this effect, choose a dual reflective film, which is less reflective toward the interior. However, even with dual reflective films, if the interior is brighter than the exterior at night, it can still be possible to see through the window. Under daylight conditions, reflective films provide effective privacy protection.

If you need permanent, two-way privacy (e.g., warehouses, showers, or changing rooms), we recommend the Skyfol M2 film with a frosted effect. It reduces light transmission only to a limited extent, while reliably blocking visibility in both directions.

APPEARANCE

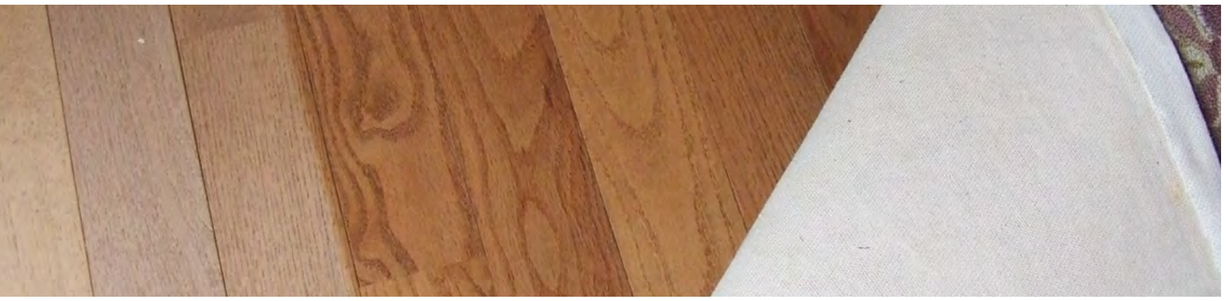
With window films, you can give a building a distinctly modern look. Reflective surfaces create a contemporary appearance and deliver a more uniform façade—regardless of what is visible behind each individual pane. In contrast, oxidised metallic coatings can often become a visual issue, as they may make the building appear worn or neglected. In many projects, Skyfol architectural window films have provided a reliable solution, restoring a clean, modern and consistent appearance.

UV AND GLARE REDUCTION

Excessive exposure to UV radiation may lead to sunburn and increases the risk of certain types of skin cancer, and it can also cause acute or long-term damage to the skin, eyes and the immune system. The most serious mutation, malignant melanoma, is primarily linked to direct DNA damage. Ultraviolet photons can harm the DNA of living organisms through several mechanisms. UVA, UVB and UVC are all capable of damaging collagen tissues, accelerating visible skin aging. UVA and UVB can also break down vitamin A in the skin, which may contribute to further skin damage.

High-intensity UV exposure can be hazardous for the eyes as well, and may lead to conditions such as photokeratitis, cataract, pterygium and pinguecula. Skyfol films provide effective filtration across the full UV range thanks to their special Ultraviolet Absorbers. Because these absorbers are integrated into the polyester structure, their performance does not decrease during the warranty period.

PROTECTION AGAINST FADING



Fading is typically caused by three primary factors: UV radiation, heat, and visible light. A second group of influences includes humidity, fabric type (drapery), colour fixing agents, and other material characteristics. UV radiation is the most significant contributor (approximately 40%), while visible light and IR radiation account for around 25% each. For this reason, UV filtration alone is not sufficient—ideally, a film should also perform well in the IR range and moderately reduce visible light where appropriate.

It is also important not to assume that the absence of direct sunshine through a window means interiors are protected. Even without direct sun, objects can still be exposed to the harmful parts of the electromagnetic spectrum. The best-performing window films offer 99% UV rejection, which means UV radiation is almost completely eliminated.

At the same time, claims that a window film will entirely prevent sun-related damage should be treated with caution—this is not realistic. The only complete solution would be to eliminate windows, which is clearly not an option. Architectural window films are, however, an effective way to significantly reduce sun-related damage, helping to preserve interiors and lower replacement costs over time.

SKYFOL ENERGY CALCULATOR

Scan the code and unlock the numbers behind smarter energy savings.

WOULD YOU LIKE TO KNOW HOW QUICKLY YOUR INVESTMENT CAN PAY OFF?

The **Skyfol Energy Calculator** has been developed to **help you clearly understand the financial benefits of professional window film solutions**. This practical tool shows how much solar energy a selected film can reject, helping to highlight its impact on indoor comfort, cooling efficiency, and overall energy performance.

Using the data provided by the Skyfol Energy Calculator, it becomes much **easier to estimate the potential savings and calculate the expected payback period of your investment**. During a personal consultation, these results can support informed decision-making and demonstrate the long-term value of choosing the right window film solution for your project.

HOW TO SELECT A WINDOW FILM?

It is no coincidence that manufacturers offer a wide variety of film series. Before selecting an architectural window film, the first step is to clearly define the purpose of the installation—what performance you expect and what problem you want to solve.

1. SHOULD I CHOOSE AN INTERIOR OR EXTERIOR WINDOW FILM?

This topic is explained in detail on pages 18–21, but it is useful to know from the start that window films are available for interior and exterior installation. Interior films are applied from the inside, while exterior films are installed on the outside of the glass.

Exterior window films are typically recommended when you need an effective heat-protection solution for advanced glazing systems (such as dual-pane low-e or triple-pane windows), or when the glass surface is accessible only from the outside (for example, skylights in industrial halls). Exterior films are generally much thinner, but their durability is usually shorter compared to interior films.

For a detailed comparison, please turn to page 18—this is a key decision that is best made at the beginning.

2. HOW REFLECTIVE CAN THE WINDOW FILM BE?

Window films are typically reflective, as effective heat protection requires keeping heat absorption as low as possible. For this reason, dark, non-reflective films are generally best avoided: they tend to absorb more heat, which reduces performance and, in extreme cases, may even increase the risk of glass breakage.

If you are looking for a solution with low exterior reflectivity, an exterior film is often the best choice, because with these products heat absorption is less critical. There are also interior films that combine low reflectivity with good heat protection, but these options are usually lighter in shade.

3. HOW DARK SHOULD THE FILM BE?

Today, oversized glass surfaces are increasingly common, as they enhance the sense of space far more than solid walls. As a result, daylight is often abundant—so reducing light transmission is usually less of a compromise than it may seem. In addition, the human eye adapts to lower light levels: as the pupils dilate, more light reaches the eye, which makes light reduction feel less dramatic. The table below illustrates this effect well.

Visible light transmission of the window	80%	60%	40%	15%
Perceived light	90%	82%	74%	50%

As a general guideline, with visible light transmission above 50%, the film is only slightly noticeable. Above 70%, most people cannot tell the difference between a filmed and an unfilmed glass surface—even when they are placed next to each other.

4. WHAT ARE THE FINANCIAL LIMITS?

Pricing varies significantly between film series. Films produced with simpler technologies typically include aluminium, while more advanced solutions may use silver or even gold. The recommended installation price for each series is listed on our website, making it easy to identify the most suitable option within your budget.

Window film

Skyfol SI series

ARE YOU LOOKING FOR A LONG-LASTING AND COST-EFFECTIVE SOLUTION THAT OFFERS A HIGH LEVEL OF HEAT PROTECTION?

Skyfol SI series products are aluminium-metallized solar control window films and represent the most cost-effective heat-protection solutions within the Skyfol range. Thanks to their low heat absorption, these films efficiently reduce radiant energy, which can result in a short payback period.
Dyed versions are recommended when the goal is to add colour to façade glazing at the same time. Please note that the performance and durability of dyed films are typically lower compared to metallized options.
This series is primarily recommended for heat protection in industrial and office buildings.

Interior/exterior
Interior

Adhesive
Pressure sensitive

Sizes available
0,91×30 m, 1,22×30 m
1,52×30 m, 1,82×30 m

Thickness
38 microns

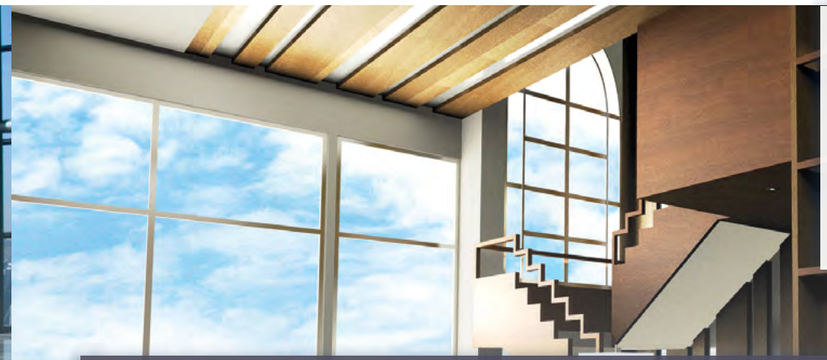
Scratch resistant coating
2nd generation

Warranty
10 years

	Single pane				Dual pane				Dual pane low-e				Triple pane low-e			
	SI05	SI20	SI30	SI50	SI05	SI20	SI30	SI50	SI05	SI20	SI30	SI50	SI05	SI20	SI30	SI50
Total Solar Energy Rejected	87%	76%	71%	43%	75%	67%	63%	45%	71%	62%	57%	49%	73%	64%	61%	52%
Visible Light Transmitted	5%	18%	25%	58%	7%	20%	25%	46%	7%	20%	25%	44%	6%	18%	23%	40%
Visible Light Reflected Exterior	60%	56%	48%	14%	59%	56%	51%	29%	59%	56%	51%	25%	58%	56%	51%	30%
Visible Light Reflected Interior	60%	54%	45%	12%	61%	56%	50%	25%	61%	56%	50%	24%	61%	56%	50%	26%
Total Solar Energy Reflected	62%	52%	46%	12%	58%	50%	46%	25%	58%	50%	46%	37%	52%	45%	42%	35%
Total Solar Energy Absorbed	34%	34%	35%	43%	36%	36%	36%	41%	36%	36%	36%	34%	43%	43%	43%	40%
Total Solar Energy Transmitted	4%	15%	20%	45%	6%	14%	17%	34%	6%	14%	17%	29%	5%	13%	16%	25%
SHGC	0,13	0.27	0.32	0.66	0,25	0.33	0.37	0.55	0,29	0.39	0.44	0.52	0.27	0.36	0.39	0.48
UV Rejection	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%
U-Value	5,10	5.351	5.38	5.41	2,58	2.622	2.629	2.70	1,42	1.435	1.438	1.41	1,14	1.154	1.155	1.19
Emissivity	0.84	0.84	0.84	0.81	0.84	0.84	0.84	0.81	0.84	0.84	0.84	0.81	0.84	0.84	0.84	0.81
Compatibility	Compatible				Compatible				Compatible				Conditionally			

Window film

Skyfol DR series



DOES LIGHT SHINE ON THE INNER SIDE OF THE WINDOW, SO ITS REFLECTIVITY COULD BE TROUBLESOME?

The Skyfol DR series features a metallic layer engineered to be reflective toward the outside while remaining visually neutral from the inside—resulting in markedly lower interior reflectivity than exterior reflectivity. In its lighter shades, the DR series maintains a clean, non-mirrored appearance, making it a highly suitable light-filtering option when a reflective façade effect is not permitted or desired.

These films are recommended primarily for offices and restaurants, and they are also commonly applied in residential buildings.

Interior/exterior
Interior

Adhesive
Pressure sensitive

Sizes available
1,52×30 m

Thickness
38 microns

Scratch resistant coating
2nd generation

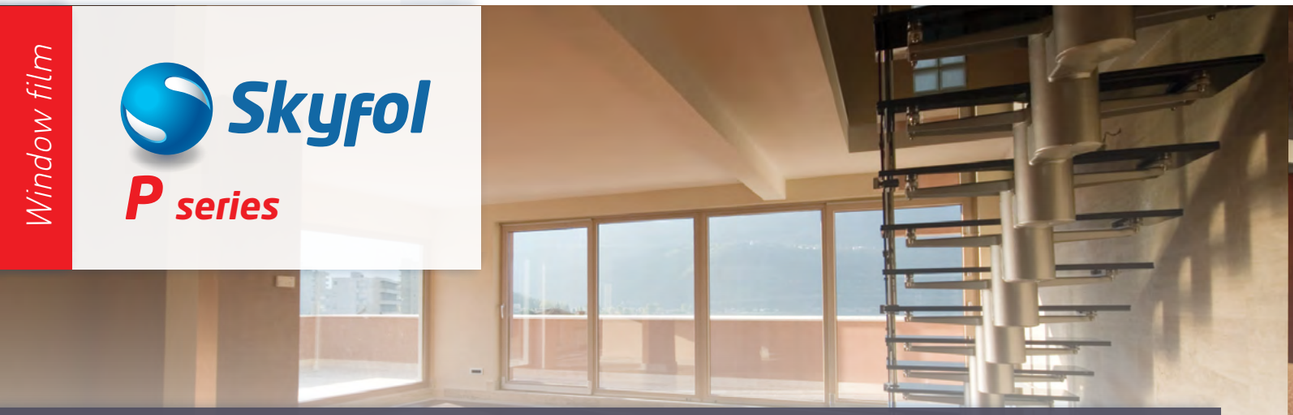
Warranty
10 years

	Single pane		Dual pane		Dual pane low-e		Triple pane low-e	
	DR05	DR15	DR05	DR15	DR05	DR15	DR05	DR15
Total Solar Energy Rejected	84%	79%	73%	70%	66%	64%	67%	66%
Visible Light Transmitted	7%	11%	6%	10%	6%	10%	6%	9%
Visible Light Reflected Exterior	60%	54%	61%	59%	61%	59%	60%	58%
Visible Light Reflected Interior	14%	24%	18%	27%	18%	27%	18%	27%
Total Solar Energy Reflected	53%	50%	54%	52%	53%	52%	50%	46%
Total Solar Energy Absorbed	41%	40%	39%	41%	40%	41%	47%	47%
Total Solar Energy Transmitted	6%	10%	7%	7%	7%	7%	3%	6%
SHGC	0.16	0.21	0.27	0.3	0.34	0.36	0.33	0.34
UV Rejection	99%	99%	99%	99%	99%	99%	99%	99%
U-Value	5.17	5.224	2.57	2.749	1.42	1.481	1.14	1.183
Emissivity	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Compatibility	Compatible		Compatible/ Conditionally		Conditionally		Conditionally / Not compatible	

Window film

Skyfol

P series



ARE YOU LOOKING FOR A HIGHLY HEAT-PROTECTIVE, YET LIGHT FILM FOR ADVANCED GLAZINGS?

The ideal solution is the Skyfol P series. Thanks to its NSN (nickel–silver–nickel) metallization, these films reflect heat very efficiently while keeping heat absorption extremely low. As a result, they can be applied safely on virtually any glazing system, including advanced window constructions.

This series is primarily recommended for residential buildings and high-end office environments.

Interior/exterior
Interior

Adhesive
Pressure sensitive

Sizes available
1,52×30 m

Thickness
38 microns

Scratch resistant coating
2nd generation

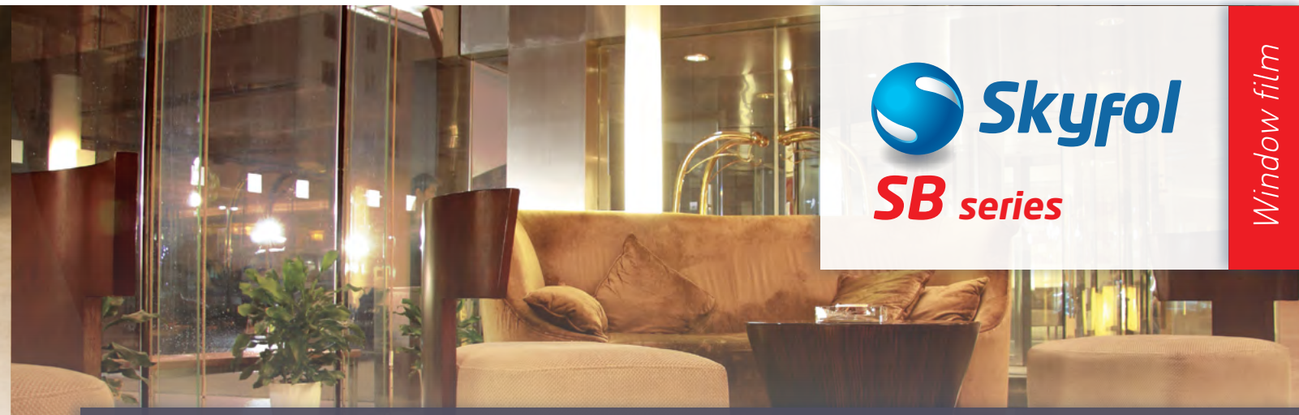
Warranty
10 years

	Single pane				Dual pane				Dual pane low-e				Triple pane low-e			
	P35	P50	P70	P75	P35	P50	P70	P75	P35	P50	P70	P75	P35	P50	P70	P75
Total Solar Energy Rejected	71%	61%	45%	41%	62%	55%	43%	40%	67%	58%	53%	52%	68%	61%	57%	56%
Visible Light Transmitted	32%	50%	68%	73%	30%	46%	62%	66%	29%	45%	58%	61%	27%	42%	53%	56%
Visible Light Reflected Exterior	48%	37%	20%	7%	49%	42%	27%	13%	44%	30%	23%	15%	45%	33%	28%	16%
Visible Light Reflected Interior	46%	35%	20%	7%	51%	42%	26%	12%	50%	32%	25%	13%	51%	34%	27%	15%
Total Solar Energy Reflected	42%	35%	23%	15%	46%	46%	32%	18%	49%	40%	38%	27%	47%	40%	37%	25%
Total Solar Energy Absorbed	39%	34%	31%	35%	37%	26%	26%	37%	36%	36%	30%	39%	40%	38%	34%	44%
Total Solar Energy Transmitted	19%	31%	46%	50%	17%	28%	42%	45%	15%	24%	32%	34%	13%	22%	29%	31%
SHGC	0.29	0.39	0.54	0.58	0.36	0.40	0.55	0.59	0.32	0.40	0.45	0.46	0.32	0.39	0.43	0.44
UV Rejection	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%
U-Value	5.34	5.337	5.394	5.408	2.56	2.581	2.593	2.596	1.4	1.372	1.375	1.376	1.16	1.165	1.168	1.169
Emissivity	0.67	0.68	0.7	0.71	0.67	0.68	0.7	0.71	0.67	0.68	0.7	0.71	0.67	0.68	0.7	0.71
Compatibility	Compatible															

Window film

Skyfol

SB series



ARE YOU LOOKING FOR A WINDOW FILM WITH A BRONZE APPEARANCE?

TThe copper-containing Skyfol SB series delivers a distinctive bronze look. Thanks to its metal content, these films can also be used as signal-shading solutions to help reduce electromagnetic interference.

Similarly to neutral films, this series has a relatively high level of heat absorption, which means it is not recommended for triple-pane glazing. These films are an excellent choice when appearance is a higher priority than maximum energy saving. The Skyfol SB series particularly complements façades with wood and stone exterior surfaces.

Interior/exterior
Interior

Adhesive
Pressure sensitive

Sizes available
1,52×30 m

Thickness
50 microns

Scratch resistant coating
2nd generation

Warranty
10 years

	Single pane		Dual pane		Dual pane low-e		Triple pane low-e	
	SB20	SB35	SB20	SB35	SB20	SB35	SB20	SB35
Total Solar Energy Rejected	81%	70%	72%	62%	66%	58%	65%	60%
Visible Light Transmitted	17%	33%	16%	31%	15%	29%	14%	26%
Visible Light Reflected Exterior	40%	30%	42%	33%	37%	29%	40%	33%
Visible Light Reflected Interior	45%	29%	45%	30%	45%	30%	45%	31%
Total Solar Energy Reflected	53%	44%	53%	45%	52%	46%	46%	41%
Total Solar Energy Absorbed	38%	35%	38%	36%	41%	37%	47%	44%
Total Solar Energy Transmitted	9%	21%	9%	19%	8%	17%	7%	15%
SHGC	0.19	0.3	0.28	0.38	0.35	0.42	0.34	0.4
UV Rejection	99%	99%	99%	99%	99%	99%	99%	99%
U-Value	5.45	5,51	2.59	2.6	1.38	1.38	1.17	1.17
Emissivity	0.69	0.7	0.69	0.7	0.69	0.7	0.69	0.7
Compatibility	Conditionally compatible / Compatible		Conditionally compatible		Conditionally compatible / Not compatible		Conditionally compatible / Not compatible	

A neutral interior heat-rejection series, primarily recommended for projects where the façade must retain its original appearance. As with all neutral films, heat absorption should be carefully considered when specifying this series.

Interior/exterior
Interior

Adhesive
Pressure sensitive

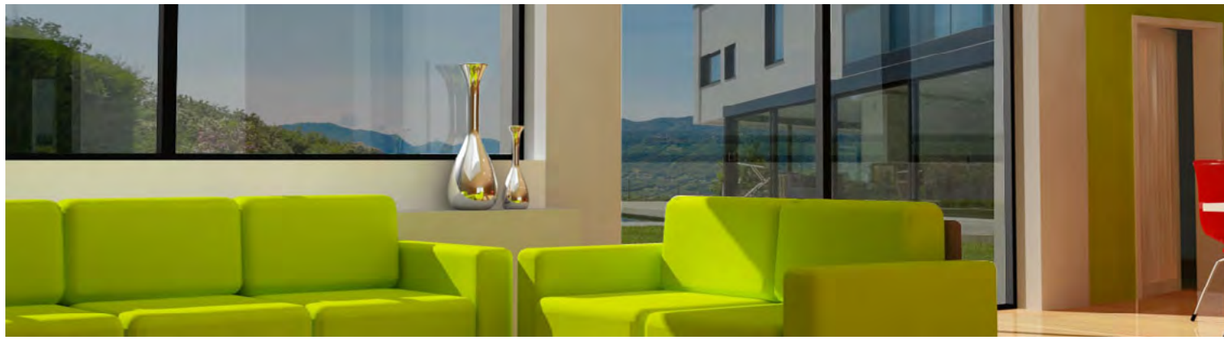
Sizes available
1,52×30 m

Thickness
50 microns

Scratch resistant coating
2nd generation

Warranty
10 years

	Single pane			Dual pane			Dual pane low-e			Triple pane low-e		
	N20	N35	N50	N20	N35	N50	N20	N35	N50	N20	N35	N50
Total Solar Energy Rejected	68%	50%	42%	48%	44%	38%	44%	38%	36%	43%	36%	34%
Visible Light Transmitted	21%	43%	49%	19%	41%	47%	18%	40%	45%	16%	38%	43%
Visible Light Reflected Exterior	32%	17%	14%	30%	16%	13%	30%	16%	13%	29%	15%	12%
Visible Light Reflected Interior	31%	14%	12%	32%	15%	13%	32%	15%	13%	32%	15%	14%
Total Solar Energy Reflected	29%	16%	13%	24%	20%	11%	22%	18%	7%	20%	18%	3%
Total Solar Energy Absorbed	51%	46%	44%	58%	53%	48%	60%	55%	52%	64%	58%	58%
Total Solar Energy Transmitted	20%	38%	43%	18%	27%	41%	18%	27%	41%	16%	24%	39%
SHGC	0.32	0.50	0.58	0.52	0.56	0.62	0.56	0.62	0.64	0.57	0.64	0.66
UV Rejection	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%
U-Value	5.7	5.7	5.7	2.6	2.6	2.6	1.4	1.4	1.4	1.2	1.2	1.2
Compatibility	Compatible			Conditionally compatible			Conditionally compatible			Not compatible		

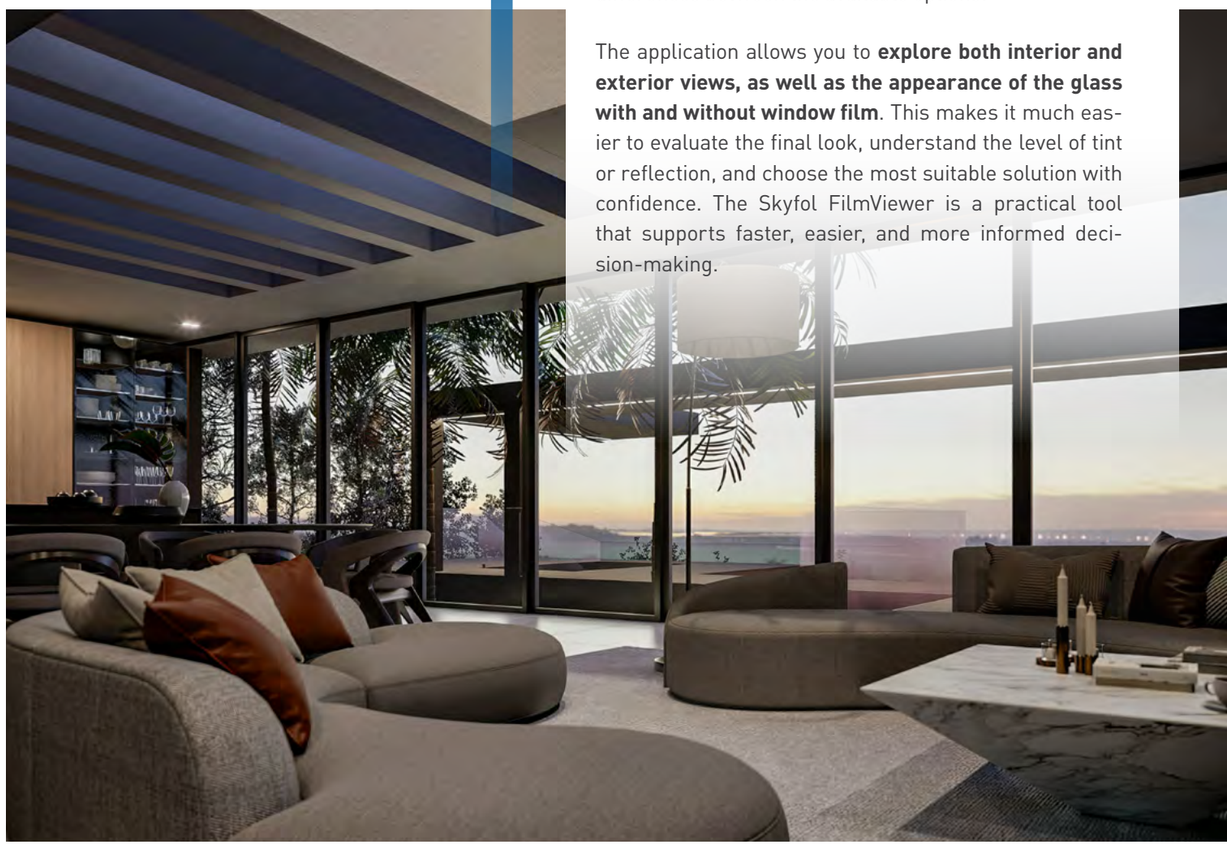


See the look before you make the choice.

WOULD YOU LIKE TO SEE HOW A WINDOW FILM WILL ACTUALLY LOOK ON YOUR GLASS BEFORE MAKING A DECISION?

The **Skyfol FilmViewer** has been created to **help you visualize the appearance of different Skyfol window film solutions** directly on windows. By selecting the desired film series and film type, you can compare the visual effect more easily and gain a clearer understanding of the differences between the available options.

The application allows you to **explore both interior and exterior views, as well as the appearance of the glass with and without window film**. This makes it much easier to evaluate the final look, understand the level of tint or reflection, and choose the most suitable solution with confidence. The Skyfol FilmViewer is a practical tool that supports faster, easier, and more informed decision-making.



THE FUNCTIONS OF INTERIOR VS. EXTERIOR FILMS

Irradiated energy can be described through three components: reflected, transmitted, and absorbed energy. The absorbed portion is then re-radiated by the window structure into the surrounding environment, and its level plays a key role when evaluating the overall performance and safety of a window film.

To reduce losses caused by air movement and heat conduction, glass manufacturers introduced double-pane (dual-layer) glazing decades ago—however, with these systems, the topic of absorbed energy becomes even more critical. Later, thin metallic low-e coatings were added to glazing, primarily to reduce winter heat loss by reflecting interior heat back into the room. Today, the use of triple-pane, coated glazing is spreading rapidly and continues to grow.

WHAT HAPPENS TO THE ABSORBED ENERGY?

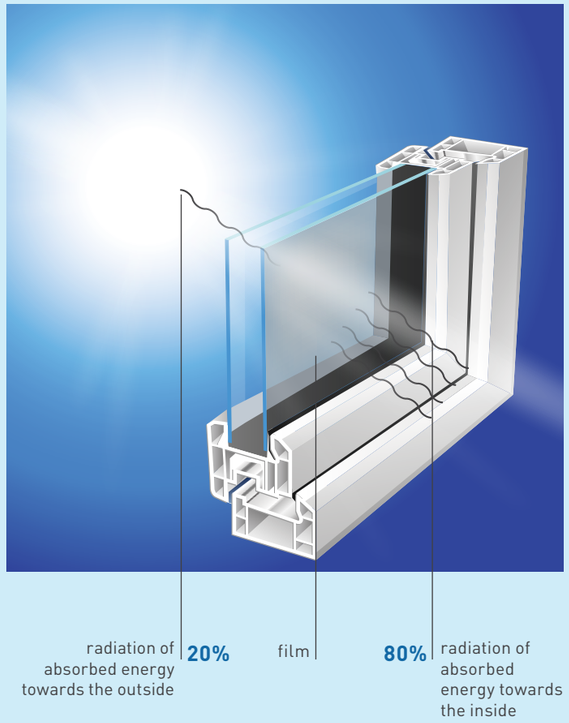
As mentioned above, absorbed energy is re-radiated by the glass structure back into its surroundings. With single-pane glazing, the principle is straightforward: if interior and exterior temperatures are identical, the absorbed energy is released equally toward the inside and the outside (approximately 1:1).

With the dual-pane low-e glazing commonly used today—featuring a metallic coating designed to reduce winter heat loss—the situation changes. In these systems, heat radiation is reduced by both the low-e coating and the insulating air space between the panes. As a result, the absorbed heat is typically directed mainly inward, with an approximate split of 80% toward the interior and 20% toward the exterior.

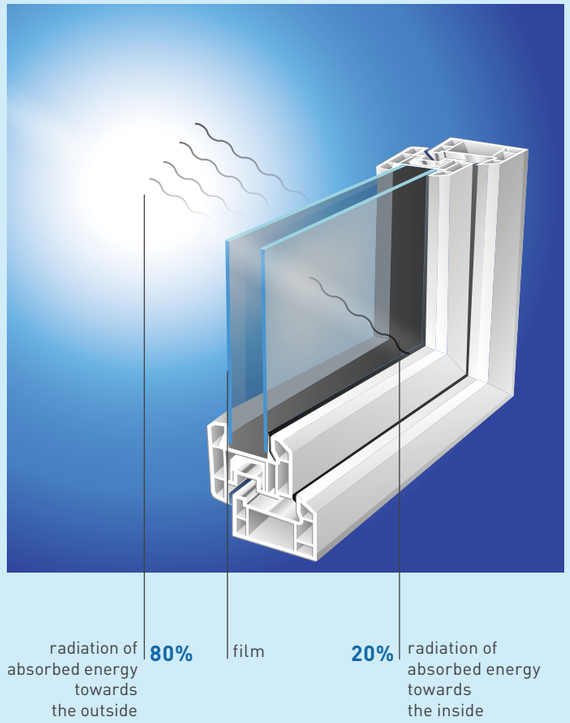
When an exterior window film is applied, this ratio is essentially reversed, which is why exterior films can deliver significantly higher efficiency on advanced glazing systems.

The window film industry must adapt to these glazing trends, which is why both interior and exterior film solutions with low heat absorption have become increasingly important. The following examples help illustrate the key differences.

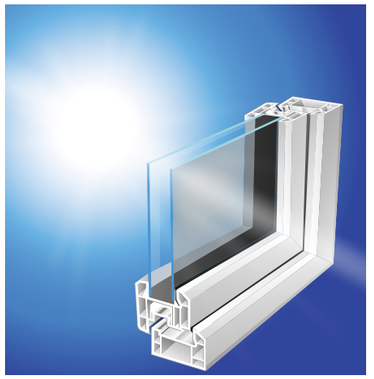
INTERIOR WINDOW FILM



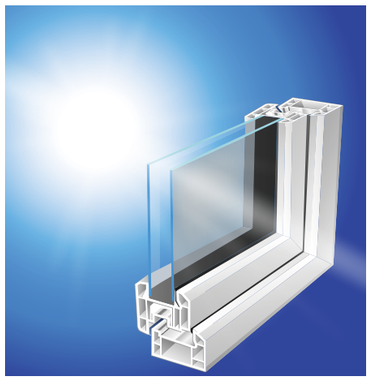
EXTERIOR WINDOW FILM



SINGLE PANE VS. DUAL PANE LOW-E GLASS, INTERIOR SI35 FILM

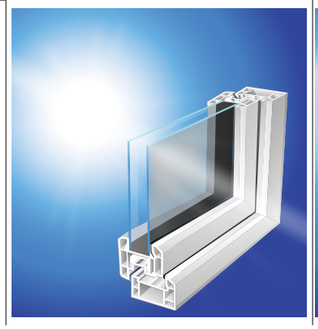
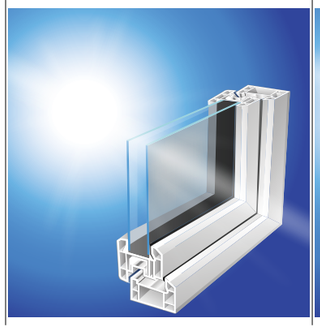
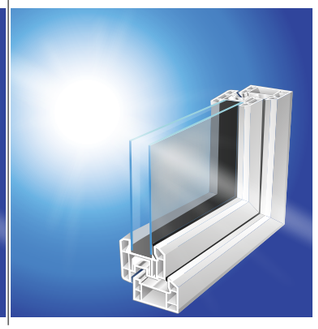
	Skyfol SI35 reflective silver interior film on single pane window	Skyfol SI35 reflective silver interior film on dual pane low-e window
Total Solar Energy Rejected	68%	55%
		

SINGLE PANE VS. DUAL PANE LOW-E GLASS, INTERIOR N35 FILM

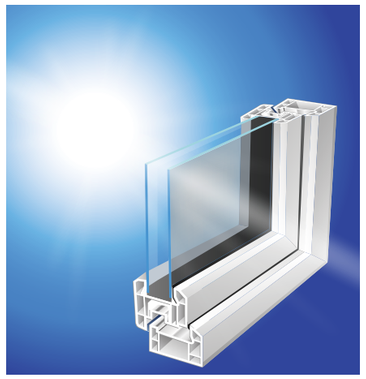
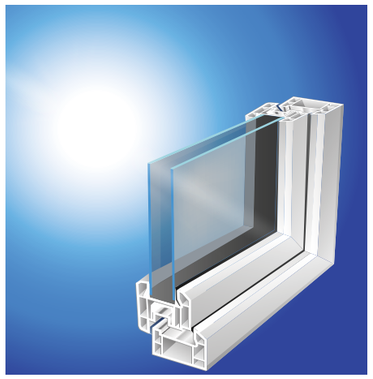
	Skyfol N35 neutral interior film on single pane window	Skyfol N35 neutral interior film on dual pane low-e window
Total Solar Energy Rejected	50%	38%
		

THE FUNCTIONS OF INTERIOR VS. EXTERIOR FILMS

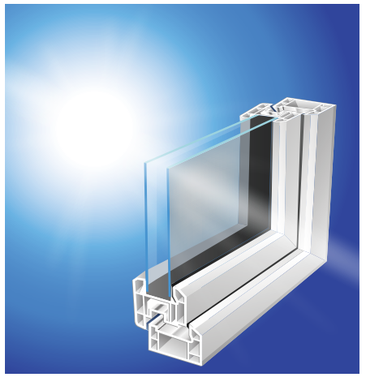
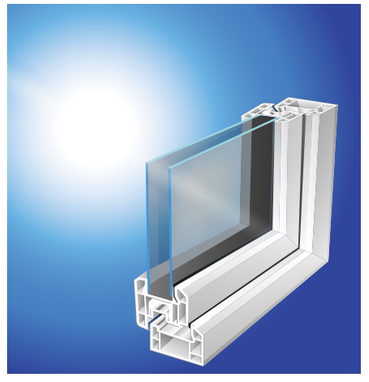
DUAL PANE LOW-E GLASS WITH P35, SI35 AND N35 FILMS

	Skyfol P35 spectrally selective interior film on dual pane low-e window	Skyfol SI35 reflective silver interior film on dual pane low-e window	Skyfol N35 neutral interior film on dual pane low-e window
Total Solar Energy Rejected	67%	55%	38%
			

DUAL PANE LOW-E GLASS WITH INTERIOR VS. EXTERIOR SILVER 35 FILMS

	Skyfol SI35 reflective silver interior film on dual pane low-e window	Skyfol XT33S reflective silver exterior film on dual pane low-e window
Total Solar Energy Rejected	55%	78%
		

DUAL PANE LOW-E GLASS WITH INTERIOR NEUTRAL VS. EXTERIOR NEUTRAL 35 FILMS

	Skyfol N35 neutral interior film on dual pane low-e window	Skyfol XT40N neutral exterior film on dual pane low-e window
Total Solar Energy Rejected	38%	68%
		

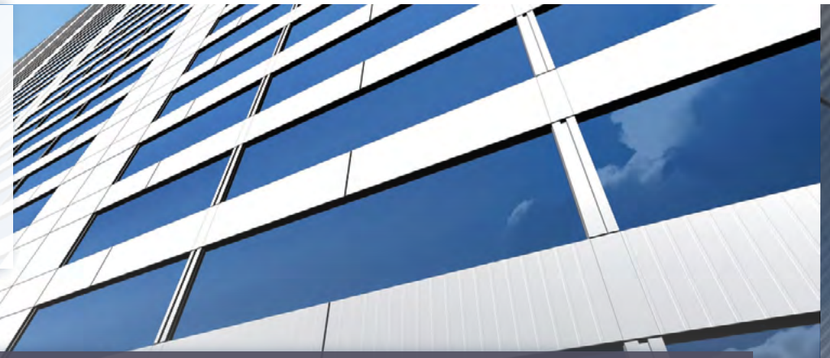
As shown above, the technical performance of certain window films can vary significantly when applied to advanced glazing systems. Unfortunately, many distributors and installers still specify films based on data measured on single-pane glass, which is a serious professional mistake and can lead to incorrect product selection.

Of course, other factors must also be considered—for example, if the client requires low reflectivity or minimal reduction of visible light transmission. Like any solution, both exterior and interior window films come with their own advantages and limitations.

	Interior	Exterior
Durability	15-20 years	5-7 years
Heat protection	performance is considerably worse on dual pane insulating windows	performance increases on dual pane insulating windows
Installation period	can be installed any time	only if the weather permits
Installation quality	installation is cleaner	dust-free installation is not possible
Edge sealing	only with high humidity, films with silver or copper	mandatory with all film types

Window film

Skyfol XTS series



DO YOU NEED A VERY HIGH LEVEL OF HEAT PROTECTION? IS THE GLASS-TO-FLOOR AREA RATIO SIGNIFICANT?

The Skyfol XT S exterior reflective silver series delivers the highest level of solar and heat protection in the range. These films can be installed safely on virtually any glazing system—and the more advanced the glazing, the more effective the performance typically becomes.
For public buildings, they are primarily recommended for shopping centres, factories, and offices exposed to substantial heat load. In private applications, they offer an ideal solution for heat protection in conservatories and other large glazed spaces.

Interior/exterior
Exterior

Adhesive
Pressure sensitive

Sizes available
0,91×30 m, 1,22×30 m
1,52×30 m, 1,82×30 m

Thickness
50 microns

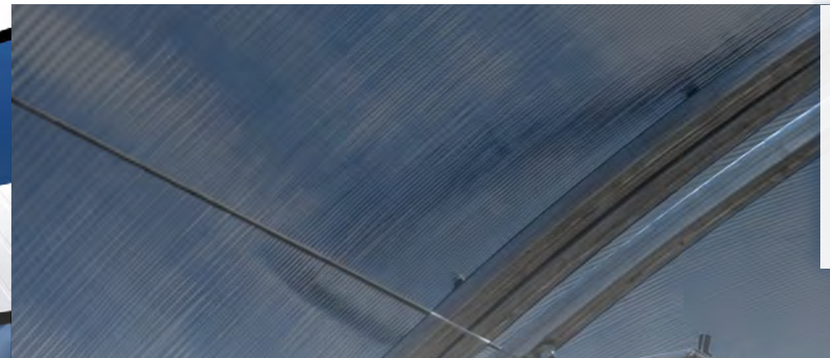
Scratch resistant coating
2nd generation

Warranty
17S, 33S 7 years on vertical,
4 years on sloped glass
20S, 35S, 48S 7 years on vertical,
4 years on sloped glass

	Single pane					Dual pane					Dual pane low-e					Triple pane low-e				
	XT series																			
	17S	20S	33S	35S	48S	17S	20S	33S	35S	48S	17S	20S	33S	35S	48S	17S	20S	33S	35S	48S
Total Solar Energy Rejected	81%	78%	66%	64%	54%	85%	83%	72%	70%	60%	88%	86%	78%	77%	69%	89%	87%	79%	71%	71%
Visible Light Transmitted	17%	20%	33%	35%	48%	16%	20%	31%	35%	45%	15%	20%	29%	35%	43%	14%	20%	27%	39%	39%
Visible Light Reflected Exterior	62%	58%	42%	40%	27%	62%	58%	43%	41%	29%	62%	58%	42%	40%	28%	62%	58%	43%	30%	30%
Visible Light Reflected Interior	62%	58%	42%	40%	28%	62%	59%	44%	42%	32%	55%	52%	39%	38%	28%	55%	52%	41%	31%	31%
Total Solar Energy Reflected	63%	60%	45%	43%	30%	64%	61%	46%	44%	32%	64%	61%	47%	45%	34%	64%	61%	47%	34%	34%
Total Solar Energy Absorbed	25%	26%	30%	30%	33%	25%	26%	32%	32%	35%	27%	28%	35%	36%	40%	28%	30%	38%	43%	43%
Total Solar Energy Transmitted	12%	14%	25%	27%	37%	11%	13%	22%	24%	34%	9%	11%	18%	19%	25%	8%	10%	16%	22%	22%
SHGC	0.19	0.22	0,34	0.36	0.46	0.16	0.18	0.29	0.30	0.40	0.12	0.14	0.22	0.23	0.31	0.11	0.13	0.21	0.29	0.29
UV Rejection	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%
U-Value	5.91	5.91	5.91	5.91	5.91	2.73	2.73	2.71	2.71	2.72	1.42	1.42	1.42	1.42	1.42	1.20	1.20	1.20	1.20	1.20
Emissivity	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0,.84
Compatibility	Compatible																			

Window film

Skyfol XTPC series



IS HEAT ENTERING THROUGH THE POLYCARBONATE SURFACE? IS IT DIFFICULT TO MAINTAIN A COMFORTABLE TEMPERATURE IN THE HALL OR CONSERVATORY?

The Skyfol XTPC Series is a premium-quality, newly developed architectural window film specifi¬cally designed for polycarbonate and curved surfaces. Thanks to its polyurethane material, it is a durable and flexible solution that provides exceptional heat and UV protection. This air-permeable film is ideal for installation on polycarbonate surfaces, ensuring long-lasting performance. It is the perfect choice for areas where traditional window films are not suitable for heat and light protection.

Interior/exterior
Exterior

Adhesive
Pressure sensitive

Sizes available
1,52×30 m

Thickness
200 microns

Scratch resistant coating
Self healing

Warranty
3 years

	Single pane PC				
	XT05PC	XT15PC	XT30PC	XT50PC	XT70PC
Total Solar Energy Rejected	70%	70%	66%	56%	48%
Visible Light Transmitted	5%	15%	30%	50%	70%
Visible Light Reflected Exterior	5%	5%	5%	7%	8%
Visible Light Reflected Interior	5%	5%	5%	7%	8%
Total Solar Energy Absorbed	85%	81%	67%	60%	53%
Total Solar Energy Transmitted	8%	12%	26%	32%	40%
SHGC	0.3	0.34	0.39	0.44	0.52
UV Rejection	≥99%	≥99%	≥99%	≥99%	≥99%
U-Value	5.5	5.7	5.8	4.9	6.1

Window film

Skyfol XTDR series

WOULD YOU PREFER LOWER INTERIOR REFLECTIVITY? ARE YOU LOOKING FOR A COST-EFFECTIVE, NEUTRAL SOLUTION?

The Skyfol XT DR exterior dual-reflective window films feature a highly reflective outer surface, while the interior side is neutrally metallised—helping to reduce the reflective effect indoors. The lighter film in the XT DR range delivers a clean, neutral appearance and provides a cost-effective, neutral heat-protection solution.
For public buildings, these films are recommended when interior reflectivity needs to be lower than with traditional silver reflective films, while maintaining a high level of heat rejection. The XT DR series is also widely used for heat protection in residential applications.

Interior/exterior
Exterior

Adhesive
Pressure sensitive

Sizes available
1,52×30 m

Thickness
50 microns

Scratch resistant coating
2nd generation

Warranty
5 years on vertical,
2.5 years on sloped glass

	Single pane			Dual pane			Dual pane low-e			Triple pane low-e		
	XT08DR	XT19DR	XT36DR	XT08DR	XT19DR	XT36DR	XT08DR	XT19DR	XT36DR	XT08DR	XT19DR	XT36DR
Total Solar Energy Rejected	83%	69%	57%	87%	77%	65%	91%	84%	74%	92%	85%	76%
Visible Light Transmitted	8%	19%	36%	8%	18%	32%	7%	17%	31%	7%	15%	28%
Visible Light Reflected Exterior	55%	34%	22%	57%	35%	23%	57%	34%	23%	57%	35%	24%
Visible Light Reflected Interior	17%	14%	14%	24%	21%	21%	21%	17%	17%	25%	22%	22%
Total Solar Energy Reflected	58%	38%	26%	58%	38%	27%	58%	39%	29%	58%	39%	29%
Total Solar Energy Absorbed	35%	45%	44%	35%	46%	47%	37%	50%	51%	38%	51%	54%
Total Solar Energy Transmitted	7%	18%	31%	7%	15%	26%	5%	11%	20%	4%	10%	17%
SHGC	0.17	0.31	0.43	0.13	0.24	0.36	0.09	0.16	0.26	0.08	0.15	0.24
UV Rejection	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%
U-Value	5.91	5.91	5.91	2.71	2.72	2.72	1.68	1.42	1.42	1.2	1.20	1.20
Emissivity	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Compatibility	Compatible			Compatible			Conditionally compatible / Compatible			Conditionally compatible / Compatible		

Window film

Skyfol XTCV series

WOULD YOU LIKE AN ALMOST INVISIBLE FILM WITH POWERFUL HEAT PROTECTION?

The Skyfol XT CV series represents the latest in window film technology: a virtually invisible solution that still delivers outstanding heat protection. These films are spectrally selective—they allow high levels of visible light to pass through while efficiently filtering infrared radiation to reduce heat gain.
A key advantage of the XT CV range is that it achieves this performance with low heat absorption, helping to minimise thermal stress on the glass. As a result, the films can be installed safely on virtually any window system.
The Skyfol XT CV series is especially recommended for shopfront glazing, premium office environments, and high-end residential buildings, as well as any application where strong heat protection, high visible light transmission, and low reflectivity are required at the same time.

Interior/exterior
Exterior

Adhesive
Pressure sensitive

Sizes available
1,52×30 m

Thickness
50 microns

Scratch resistant coating
2nd generation

Warranty
47, 67 7 years on vertical,
3 years on sloped glass

50 7 years on vertical,
4 years on sloped glass

	Single pane		Dual pane		Dual pane low-e		Triple pane low-e	
	XT47CV	XT67CV	XT47CV	XT67CV	XT47CV	XT67CV	XT47CV	XT67CV
Total Solar Energy Rejected	61%	53%	67%	60%	74%	66%	76%	69%
Visible Light Transmitted	47%	67%	43%	62%	41%	59%	37%	54%
Visible Light Reflected Exterior	17%	18%	19%	22%	18%	20%	20%	24%
Visible Light Reflected Interior	12%	17%	18%	22%	16%	19%	21%	24%
Total Solar Energy Reflected	30%	30%	30%	31%	31%	31%	31%	33%
Total Solar Energy Absorbed	43%	33%	45%	35%	49%	40%	51%	42%
Total Solar Energy Transmitted	27%	37%	25%	34%	20%	29%	18%	25%
SHGC	0.39	0.47	0.33	0.40	0.26	0.34	0.24	0.31
UV Rejection	99%	99%	99%	99%	99%	99%	99%	99%
U-Value	5.92	5.92	2.72	2.72	1.42	1.42	1.20	1.20
Emissivity	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Compatibility	Compatible							

Window film

Skyfol XT Executor 70

The Skyfol Executor 70 represents the latest technology in architectural heat-control window films. Thanks to its double-extruded construction, it filters near-infrared radiation with exceptional efficiency—while remaining virtually invisible on the glass.
This new technology makes real what many of our customers have long requested: a highly effective heat-protection film that is completely unobtrusive in appearance. The Skyfol XT CV range is already spectrally selective (meaning it blocks a significant portion of infrared radiation while allowing visible light to pass through), but Executor 70 goes even further with even lower reflectivity—delivering an appearance that is as neutral as clear glass.

Interior/exterior
Exterior

Adhesive
Pressure sensitive

Sizes available
1,52x30 m

Thickness
75 microns

Scratch resistant coating
2nd generation

Warranty
10 years on vertical,
4 years on sloped glass

	Single pane	Dual pane	Dual pane low-e	Triple pane low-e
	XT Executor 70			
Total Solar Energy Rejected	57%	62%	66%	69%
Visible Light Transmitted	73%	68%	66%	62%
Visible Light Reflected Exterior	10%	11%	12%	12%
Visible Light Reflected Interior	10%	10%	12%	12%
Total Solar Energy Reflected	22%	22%	23%	25%
Total Solar Energy Absorbed	35%	38%	41%	42%
Total Solar Energy Transmitted	43%	40%	36%	33%
SHGC	0.49	0.45	0.4	0.36
U-Value	5.34	2.8	1.1	0.7
UV Rejection	99%	99%	99%	99%
Compatibility	Compatible			Conditionally compatible

Window film

Skyfol XTN series

A neutral exterior heat-rejection series, designed especially for projects where the façade appearance must remain unchanged.
As with all neutral films, heat absorption should be carefully considered when specifying and recommending this range.

Interior/exterior
Exterior

Adhesive
Pressure sensitive

Sizes available
1,22x30 m, 1,52x30 m

Thickness
75 microns

Scratch resistant coating
2nd generation

Warranty
7 years on vertical,
4 years on sloped glass

	Single pane		Dual pane		Dual pane low-e		Triple pane low-e	
	XT20N	XT40N	XT20N	XT40N	XT20N	XT40N	XT20N	XT40N
Total Solar Energy Rejected	73%	49%	85%	63%	87%	68%	89%	69%
Visible Light Transmitted	20%	50%	18%	45%	16%	43%	14%	41%
Visible Light Reflected Exterior	37%	14%	37%	15%	38%	14%	38%	15%
Visible Light Reflected Interior	16%	11%	16%	13%	17%	12%	17%	9%
Total Solar Energy Reflected	41%	13%	42%	19%	40%	17%	39%	17%
Total Solar Energy Absorbed	43%	40%	46%	50%	50%	55%	52%	58%
Total Solar Energy Transmitted	16%	47%	12%	31%	10%	28%	9%	25%
SHGC	0.27	0.51	0.15	0.37	0.13	0.32	0.11	0.31
UV Rejection	99%	99%	99%	99%	99%	99%	99%	99%
U-Value	5.8	5.8	2.6	2.6	1.4	1.4	1.2	1.2
Compatibility	Compatible						Conditionally compatible	

Window film

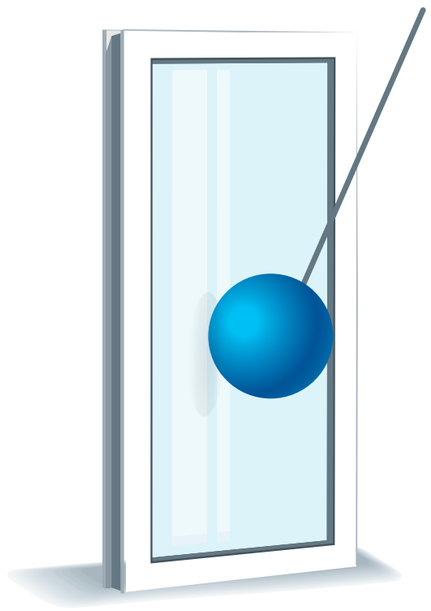
Skyfol safety

The primary purpose of these films is to hold the window together in case of accidental breakage, therefore preventing the scattering of shards, which could cause serious injuries. Beside homes, where we have to protect our children and loved ones, there are certain legal regulations for making public buildings protected against shards of glass.

Thicker film
Safety films can be up to ten times thicker than standard window films.

Thicker adhesive
The adhesive layer of safety films is approximately twice as thick as that of standard window films.

Crystal clear
Crystal-clear film with distortion-free visibility.



EN12600

The EN 12600 breakage (pendulum impact) test provides an objective evaluation of how a glass + window film combination performs under impact by simulating a person striking the glazing.

During the test, a 50 kg pendulum impactor is released onto a glass panel measuring 876 × 1938 mm. The classification is determined by the impact drop height and the breakage / fragmentation pattern, resulting in the following categories:

Category	Breakage pattern	Drop height
1B1	laminated glass pattern, no shards of glass are present	190, 450 and 1200 mm
2B2	laminated glass pattern, no shards of glass are present	190 and 450 mm
3B3	laminated glass pattern, no shards of glass are present	190 mm

Category	On glass of 3 and 4 mm thickness	On glass of 6 mm thickness
1B1	Skyfol S7, Skyfol S7 ECO, Skyfol S11, Skyfol S12	Skyfol S4, Skyfol S7, Skyfol S7 ECO, Skyfol S11, Skyfol S12
2B2	Skyfol S4, Skyfol S4 ECO	-

Window film

Skyfol anti-burglary

Skyfol safety films significantly delay break-through in the event of impact— and in thicker versions, penetration can become practically impossible.
Their strength comes not only from the film's thickness, but also from a special, industrial-grade adhesive that bonds firmly to the glass surface and helps keep the glazing intact.

American and Israeli quality
Lower-cost safety films from the Far East may be available, but their performance and overall quality are not comparable to our products.

UV protection
The film helps protect both people and valuables.

Anti-scratch
An industrial-grade anti-scratch coating helps protect the film during cleaning.

EN356

The EN 356 breakage test provides an objective evaluation of the performance of a glass + window film combination under impact by simulating an attempt to force entry by throwing an object through the glazing.

In the test, a 90 × 110 cm glass panel is mounted in a frame and struck by a 4.1 kg steel ball dropped from specified heights. Based on the impact conditions and the resulting damage, performance is classified as follows:

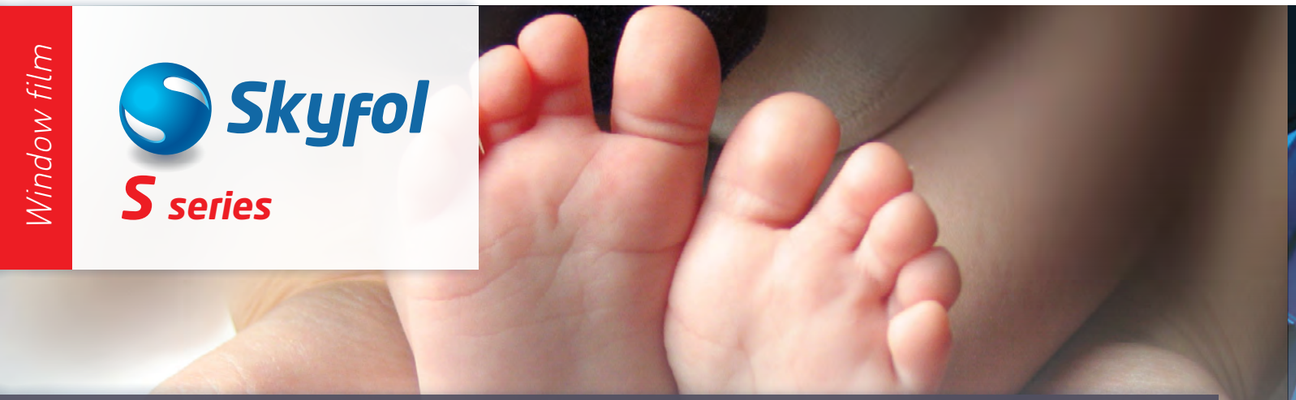
Category	Drop count	Drop height
P1A	3x	1,5 meters
P2A	3x	3 meters
P3A	3x	6 meters
P4A	3x	9 meters
P5A	9x	9 meters

Category	Normal, non-laminated glazing system
P1A	Skyfol S7 ECO
P2A	Skyfol S12

Window film

Skyfol

S series



WOULD YOU LIKE TO PROTECT YOUR FAMILY FROM SHARDS OF GLASS?

Would you like to replace visible security bars with a virtually invisible Skyfol safety film? Do you need glazing that helps prevent dangerous glass fragments? The clear Skyfol S series offers reliable protection you can trust. Manufactured in the USA, the S series is made from a material significantly thicker than conventional window films and combined with a dedicated security adhesive. In the event of breakage, it helps hold the glass together, reducing the risk of shard scattering.
The Skyfol S series is recommended for any application where safety and security are a priority.

Interior/exterior
Interior

Adhesive
Double security sensitive

Sizes available
0,91×30 m, 1,22×30m, 1,52×30 m, 1,82×30 m

Thickness
50-300 microns

Certification
EN12600

Warranty
10 years, S12 12 years

	Single pane					
	S2	S4	S4 ECO	S7	S7 ECO	S12
Total Solar Energy Rejected	19%	20%	13%	20%	15%	18%
Visible Light Transmitted	88%	86%	90%	85%	91%	87%
Visible Light Reflected Exterior	10%	10%	9%	10%	8%	11%
Total Solar Energy Reflected	8%	8%	6%	10%	7%	10%
Total Solar Energy Absorbed	17%	18%	11%	19%	12%	12%
Total Solar Energy Transmitted	75%	74%	83%	71%	81%	78%
UV Rejection	99%	99%	99%	99%	99%	99%
U-Value	5.96	5.96	5.96	5.96	5.96	6.07
Tensile strength (PSI | N/mm²)	34100 | 235	34900 | 241	34900 | 241	32260 | 222	32260 | 222	28500 | 197
Break strength (lbs/inch | N/mm)	68 | 12	136 | 24	136 | 24	216 | 38	216 | 38	336 | 59
Puncture strength (lbs | N)	54 | 240	93 | 414	93 | 414	149 | 663	149 | 663	-

Window film

Skyfol

XT series

WOULD YOU LIKE TO ACHIEVE MAXIMUM PROTECTION?

In many applications, protecting the glazing from only one side is not sufficient. With double-glazed (dual-pane) windows, the risk of injury from glass fragments can exist on both sides of the unit.
The Skyfol XT exterior range is designed specifically for these situations. These films are engineered for outdo- or installation and feature a special scratch-resistant coating to ensure long-lasting exterior durability.

Interior/exterior
Exterior

Adhesive
Double security adhesive

Sizes available
1,52×30 m

Thickness
100 microns - XT4M
175 microns - XT7M

Certification
EN12600

Warranty
5 years on vertical,
3 years on sloped glass

	Single pane	
	XT4M	XT7M
Total Solar Energy Rejected	17%	17%
Visible Light Transmitted	88%	88%
Visible Light Reflected Exterior	10%	11%
Total Solar Energy Reflected	10%	9%
Total Solar Energy Absorbed	10%	11%
Total Solar Energy Transmitted	80%	80%
UV Rejection	99%	99%
U-Value	5.91	5.91
Tensile strength (PSI | N/mm²)	28500 | 197	26000 | 179
Break strength (lbs/inch | N/mm)	112 | 20	180 | 32

Window film

Skyfol SSI series

ARE YOU LOOKING FOR A SAFETY FILM—WITH THE ADDED BENEFIT OF HEAT PROTECTION?

Would you like to protect against glass shards while also reducing cooling costs? The Skyfol SSI series combines the strength of thick safety films with the performance of silver reflective heat-control films.
These films help block radiant heat and, in the event of breakage, hold the glass together to prevent dangerous shards from scattering.

For residential applications, the SSI series is an excellent choice thanks to its dual function—safety and heat protection in one solution. In commercial projects, SSI is often applied on lower floors to protect street-level windows and occupants, while the SI series is typically used on upper floors for heat control.

Interior/exterior
Interior

Adhesive
Double security adhesive

Sizes available
1,52x30m, 1,82x30m

Thickness
125 microns

Certification
EN12600

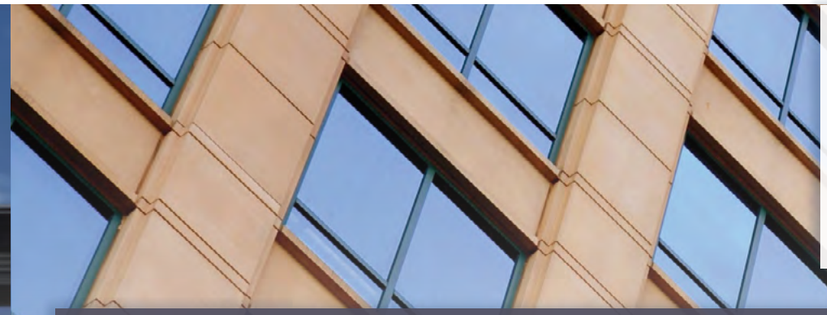
Warranty
10 years

	Single pane			Dual pane			Dual pane low-e			Triple pane low-e		
	SSI420	SSI430	SSI820	SSI420	SSI430	SSI820	SSI420	SSI430	SSI820	SSI420	SSI430	SSI820
Total Solar Energy Rejected	79%	68%	79%	69%	61%	69%	64%	55%	64%	66%	59%	66%
Visible Light Transmitted	15%	28%	15%	17%	27%	17%	17%	27%	17%	16%	25%	16%
Visible Light Reflected Exterior	60%	44%	60%	59%	48%	59%	59%	48%	59%	58%	49%	58%
Visible Light Reflected Interior	59%	40%	59%	59%	47%	59%	59%	47%	59%	59%	47%	59%
Total Solar Energy Reflected	55%	43%	55%	52%	44%	52%	52%	44%	52%	47%	40%	47%
Total Solar Energy Absorbed	33%	35%	33%	36%	36%	36%	36%	36%	36%	43%	43%	43%
Total Solar Energy Transmitted	12%	22%	12%	12%	19%	12%	12%	19%	12%	11%	17%	11%
SHGC	0.21	0.34	0.21	0.31	0.39	0.31	0.36	0.46	0.36	0.34	0.41	0.34
UV Rejection	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%
U-Value	5.34	5.394	5.34	2.62	2.633	2.62	1.43	1.439	1.43	1.15	1.156	1.15
Emissivity	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Compatibility	Compatible			Compatible			Compatible			Conditionally		

	SSI420	SSI820
Tensile strength (PSI | N/mm²)	33600 | 232	30400 | 210
Break strength (lbs/inch | N/mm)	134 | 23	265 | 46
Puncture strength (lbs | N)	103 | 458	173 | 770

Window film

Skyfol SDR series



ARE YOU LOOKING FOR A SAFETY FILM WITH A LIGHT, SMOKE-LIKE TINT?

The Skyfol SDR series adds a subtle, smoke-grey tone to the glass while also providing dependable protection in the event of breakage—helping to keep the glazing together and reduce the risk of scattering shards.
SDR 650 is a popular choice for shopfront windows thanks to its very light tint and discreet appearance. The SDR range uses a film construction that is around three times thicker than conventional heat-control films and is combined with a security-grade adhesive for enhanced safety performance.

This series is recommended for applications where a combined safety and heat-protection solution is needed, while interior and exterior reflectivity must remain minimal.

Interior/exterior
Interior

Adhesive
Double security adhesive

Sizes available
1,52×30 m

Thickness
150 microns

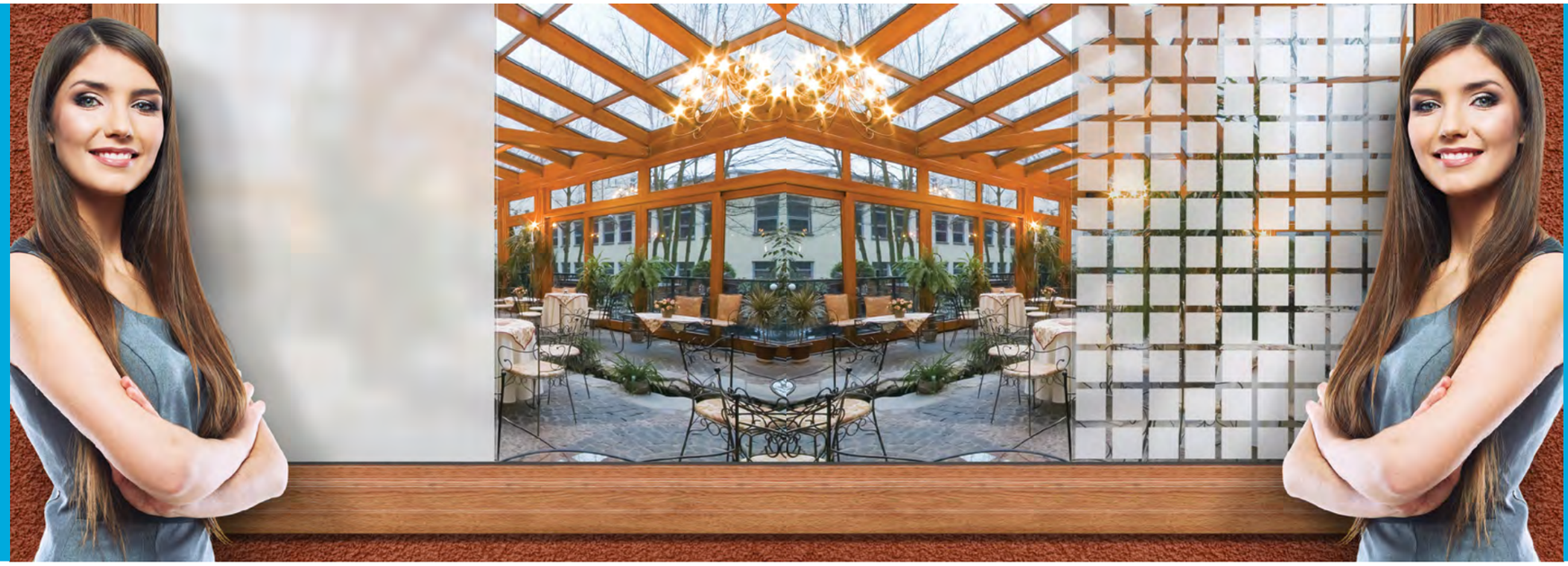
Certification
EN12600

Warranty
10 years

	Single pane		Dual pane		Dual pane low-e		Triple pane low-e	
	SDR635	SDR650	SDR635	SDR650	SDR635	SDR650	SDR635	SDR650
Total Solar Energy Rejected	56%	47%	46%	42%	47%	45%	51%	50%
Visible Light Transmitted	40%	52%	36%	48%	34%	45%	31%	41%
Visible Light Reflected Exterior	18%	17%	24%	23%	20%	20%	25%	25%
Visible Light Reflected Interior	16%	17%	18%	19%	17%	17%	18%	19%
Total Solar Energy Reflected	19%	19%	22%	22%	34%	34%	32%	32%
Total Solar Energy Absorbed	52%	40%	53%	43%	44%	36%	48%	41%
Total Solar Energy Transmitted	29%	42%	25%	35%	21%	30%	18%	26%
SHGC	0.44	0.53	0.54	0.58	0.53	0.55	0.49	0.5
UV Rejection	99%	99%	99%	99%	99%	99%	99%	99%
U-Value	6.08	6.08	2.78	2.78	1.43	1.43	1.2	1.2
Emissivity	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Compatibility	Conditionally		Conditionally		Conditionally		Conditionally	

	SDR635	SDR650
Tensile strength (PSI | N/mm²)	33600 | 232	33600 | 232
Break strength (lbs/inch | N/mm)	134 | 23	134 | 23
Puncture strength (lbs | N)	103 | 458	103 | 458

SKYFOL DECOUR M2



SKYFOL DECOUR FSQ 45/10

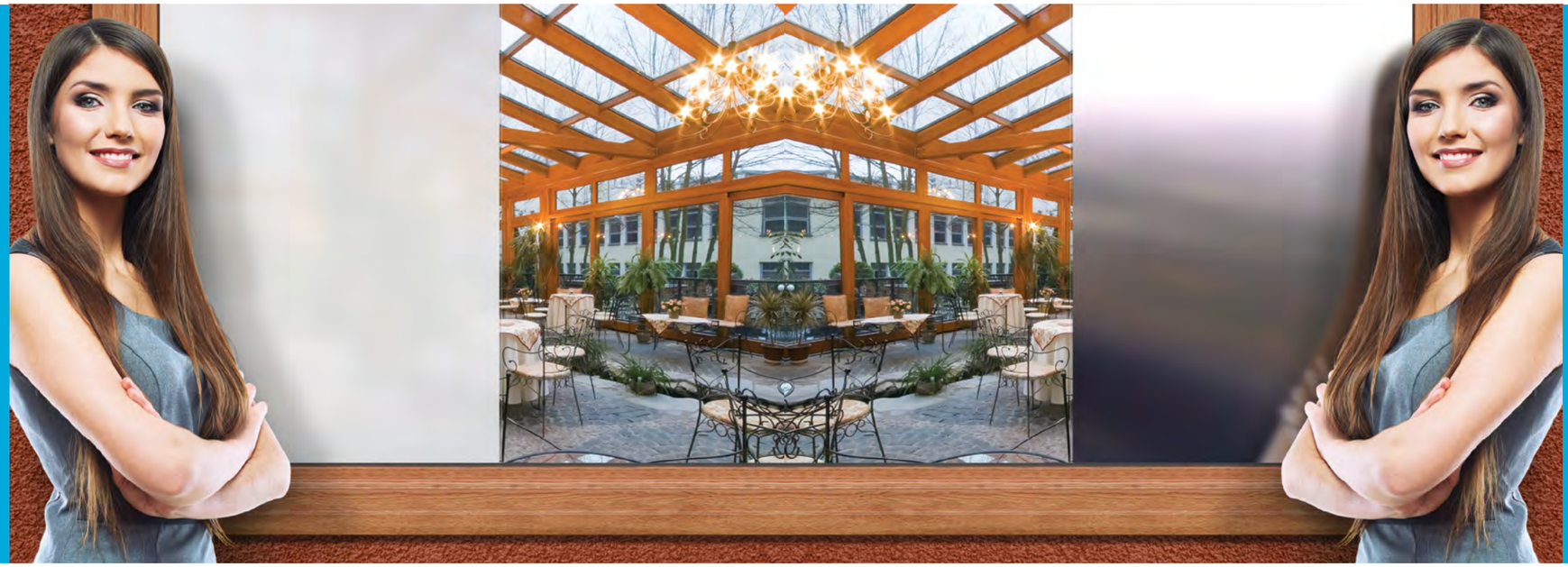
A matt white window film—one of the most popular options in the Skyfol range. It offers a durable, elegant finish with a completely uniform, homogeneous surface.

Material PET
Thickness 50 microns
Width 1,52 m
Warranty 10 years

A privacy film with a refined frosted effect and a clean geometric pattern. The design features 45 mm squares separated by 10 mm transparent lines, creating a contemporary look. It is an ideal choice for offices, residential interiors, and retail spaces, where privacy and modern aesthetics are both important.

Warranty 10 years
Width 1,52 m
Thickness 50 microns
Material PET

SKYFOL DECOUR M5



SKYFOL DECOUR MS2

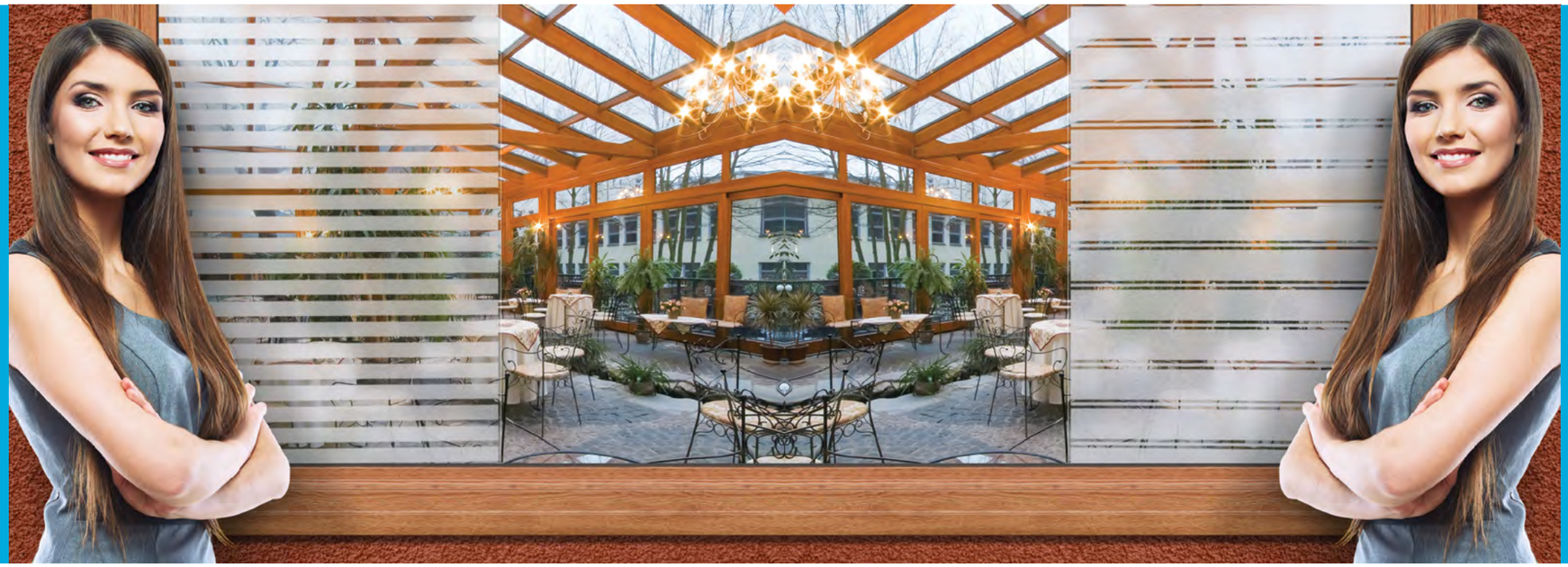
A matt white safety film that provides privacy while also helping to hold the glass together in the event of breakage. It is an excellent choice for families with young children, as well as schools and other public institutions.

Material PET
Thickness 125 microns
Width 1,52 m
Warranty 10 years

A matt silver heat-control film that fully blocks visibility, while its aluminium layer efficiently reduces heat transmission. The film has a reflective silver appearance on the exterior side and a matt silver finish on the interior side.

Warranty 10 years
Width 1,52 m
Thickness 50 microns
Material PET

SKYFOL DECOUR FST 13/6



A privacy film with a frosted stripe pattern, featuring 13 mm frosted bands separated by 6 mm transparent lines. The stripes run along the length of the roll (longitudinal direction).

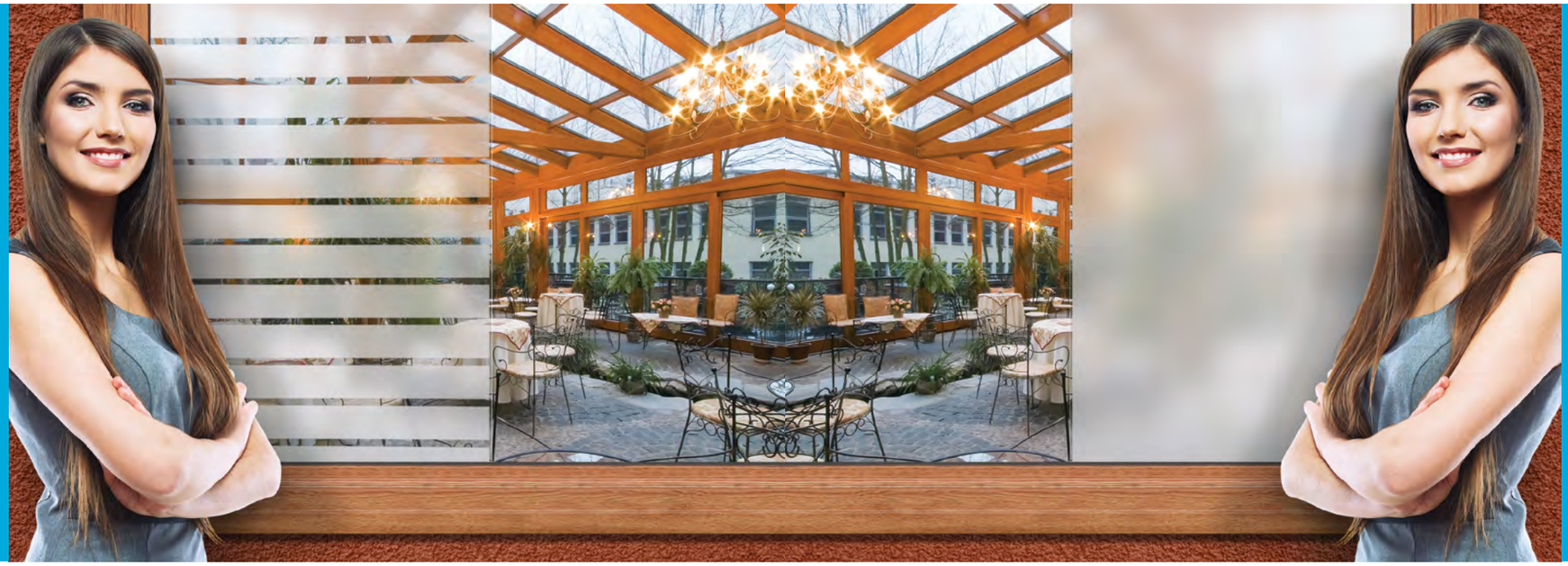
Material PET
Thickness 125 microns
Width 1,52 m
Warranty 10 years

SKYFOL DECOUR FST 30/3/3

A privacy film featuring a structured frosted stripe pattern: a 30 mm frosted band, followed by a 3 mm transparent divider, and a second 3 mm frosted band. The stripes run along the length of the roll (longitudinal direction).

Warranty 10 years
Width 1,52 m
Thickness 50 microns
Material PET

SKYFOL DECOUR FST 45/10



A privacy film with a bold frosted stripe design, featuring 45 mm frosted bands separated by 10 mm transparent lines. The stripes run along the length of the roll (longitudinal direction).

Material PET
Thickness 50 microns
Width 1,52 m
Warranty 10 years

SKYFOL DECOUR PTF

A cost-effective, fully frosted window film designed for privacy protection. It offers a durable exterior-grade solution with excellent value for money. Also available with air-channelled adhesive for easier installation.

Warranty 3 years
Width 1,22 m; 1,52 m
Thickness 50 microns
Material PVC

SKYFOL DECOUR WHITEOUT

A white, fully opaque privacy film that provides complete visual screening. As it is not designed for heat control, its application does not raise heat absorption concerns.

Material PET

Thickness 125 microns

Width 1,22 m

Warranty 10 years

SKYFOL DECOUR BLKOUT

A black, fully opaque privacy film that provides excellent light filtering and complete visual screening. Due to the material's high heat absorption, this film is recommended for interior applications only, such as indoor partitions and space division.

Material PET

Thickness 50 microns

Width 1,52 m

Warranty 10 years

TOTAL SOLAR ENERGY TRANSMITTED

the quantity of solar energy in the total solar wavelength range (300-2,500 nm) passing directly through the glazing system, in ratio of the solar energy falling on the glazing system

TOTAL SOLAR ENERGY REJECTED

the quantity of solar energy in the total solar wavelength range (300-2,500 nm) rejected directly from the glazing system, in ratio of the solar energy falling on the glazing system

TOTAL SOLAR ENERGY ABSORBED

the quantity of solar energy in the total solar wavelength range (300-2,500 nm) absorbed directly by the glazing system, in ratio of the solar energy falling on the glazing system

VISIBLE LIGHT TRANSMITTED

the quantity of visible solar energy between 380-780 nm passing through the glazing system, in ratio of the total visible light falling on the glazing system

VISIBLE LIGHT REFLECTED

the quantity of visible solar energy between 380-780 nm reflected from the glazing system, in ratio of the total visible light falling on the glazing system

SOLAR HEAT GAIN COEFFICIENT - SHGC

similar to shading coefficient, but this measure also takes into consideration the quantity of energy radiated back into the room as a result of the glass heating up because of increased absorption. The lower the value, the better the heat rejection

TOTAL SOLAR ENERGY REFLECTED

the quantity of solar energy in the total solar wavelength range (300-2,500 nm) not passing through the glazing system, in ratio of the solar energy falling on the glazing system

U-VALUE

the thermal conductivity value of the glazing system, which is independent from solar radiation. Multiplied by the difference between interior and exterior temperatures (in Kelvin), it gives the value of thermal conductivity (Watt/hour/sqm). The lower the U-Value, the better the decrease of heat loss

EMISSIVITY

shows the ability to reflect long interior energy waves. The lower the emissivity, the better the object in question can retain the heat in the room

UV REJECTION

the quantity of solar energy between 300-380 nm passing through the glazing system, in ratio of the total UV energy falling on the glazing system

TENSILE STRENGTH

the value when pulling apart a 1"×1" sized film in the same way as with break strength tests. Generally calculated based on break strength, its unit is lbs/inch2 (psi)

BREAK STRENGTH

the actual strain or force as a result of which glass breakage happens. Its unit is lbs/inch

PUNCTURE STRENGTH

the puncture strength of a window film is defined by its resistance to a blunt object used to pierce it through. The unit of puncture strength is kg or lbs

Skyfol

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