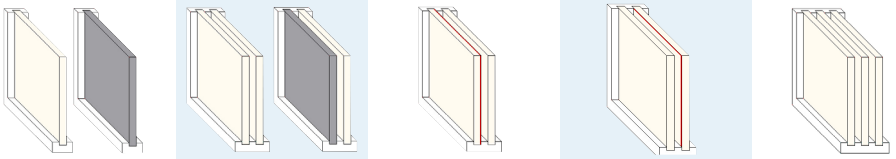
What matters most to you...We're On It!

Film-to-Glass Guide

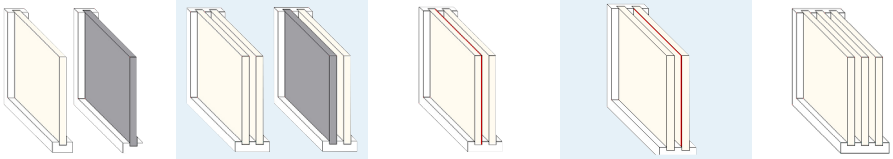


Film Type	Single Pane; Clear or Tinted	Double Pane; Clear or Tinted	Double Pane; Clear Low-e #2	Double Pane; Clear Low-e #3	Triple Pane; Clear
Summer/Winter Low-Emissivity					
Ecolux 70	●	●	●	■	■
Silver AG 50 Low-E	●	●	●	■	■
Silver AG 25 Low-E	●	●	●	■	■
Sterling					
Sterling 70	●	●	●	●	●
Sterling 60	●	●	●	●	●
Sterling 50	●	●	●	●	●
Sterling 40	●	●	●	▲[2]	●
PureVue					
PureVue 70	●	●	●	●	●
PureVue 60	●	●	●	▲[2]	●
PureVue 50	●	●	●	▲[2]	▲[3]
PureVue 35	●	●	●	▲[2]	■
Stainless Steel					
Stainless Steel 50	●	●	●	●	▲[3]
Stainless Steel 35	●	●	●	▲[2]	■
Stainless Steel 20	▲	■	■	■	■
Quantum					
Quantum/Silver/Quantum 20	▲	■	■	■	■
Quantum/Silver/Quantum 10	▲	■	■	■	■
Solar Bronze					
Solar Bronze 35	●	●	●	▲[2]	■
Solar Bronze 20	●	●	●	▲[2]	■
Silver					
Silver 50	●	●	●	▲[2]	▲[3]
Silver 35	●	●	●	▲[2]	■
Silver 20	●	●	●	▲[2]	■
Grey/Silver/Grey 10	▲	■	■	■	■
TrueVue					
TrueVue 40	●	●	●	●	■
TrueVue 30	●	●	●	▲[2]	■
TrueVue 15	●	●	●	▲[2]	■
TrueVue 5	●	●	●	▲[2]	■

● = Approved ▲ = Caution, Film-to-Glass Application approval is required* ■ = Tempered or Heat Strengthened Only

*** See Film-to-Glass Application Submittal instructions below.**

Film-to-Glass Guide

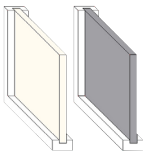
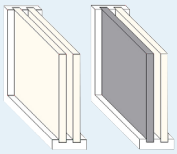
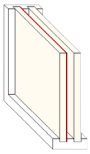
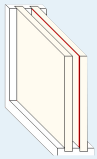
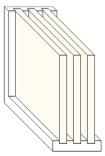


Film Type	Single Pane; Clear or Tinted	Double Pane; Clear or Tinted	Double Pane; Clear Low-e #2	Double Pane; Clear Low-e #3	Triple Pane; Clear
Outside Weatherable Films					
Sentinel Plus DX 15	●	●	●	●	●
Sentinel Plus DX 5	●	●	●	●	●
Sentinel Plus Silver 35 OSW	●	●	●	●	●
Sentinel Plus Silver 20 OSW	●	●	●	●	●
Sentinel Plus Stainless Steel 40 OSW	●	●	■	●	●
Sentinel Plus Stainless Steel 25 OSW	●	●	▲[1]	●	●
Sentinel Plus Stainless Steel 15 OSW	●	●	●	●	●
Sentinel Plus SX 80 OSW	●	●	▲[1]	●	●
Sentinel Plus SX 50 OSW	●	●	●	●	●
Sentinel Plus 4 Mil Clear OSW	●	●	●	●	●
Sentinel Plus 8 Mil Clear OSW	●	●	●	●	●
Clear Safety & Security					
4 Mil Clear	●	●	●	●	●
7 Mil Clear	●	●	●	●	●
8 Mil Clear	●	●	●	●	●
10 Mil Clear	●	●	●	●	●
11 Mil Clear	●	●	●	●	●
14 Mil Clear	●	●	●	●	●
Solar Safety & Security					
4 Mil Stainless Steel 50	●	●	●	●	▲[3]
4 Mil Stainless Steel 35	●	●	●	▲[2]	■
4 Mil Stainless Steel 20	▲	■	■	■	■
8 mil TrueVue 30	●	●	●	▲[2]	■
8 mil TrueVue 15	●	●	●	▲[2]	■
8 Mil Stainless Steel 50	●	●	●	●	▲[3]
8 Mil Stainless Steel 35	●	●	●	▲[2]	■
8 Mil Stainless Steel 20	▲	■	■	■	■
4 Mil Silver 20	●	●	●	▲[2]	■
8 Mil Silver 35	●	●	●	▲[2]	■
8 Mil Silver 20	●	●	●	▲[2]	■
Specialty					
4 Mil Graffitigard	●	●	●	●	●
6 Mil Graffitigard	●	●	●	●	●
7 Mil Graffitigard	●	●	●	●	●

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*** See Film-to-Glass Application Submittal instructions below.**

Film-to-Glass Guide

Film Type **Panorama Films only available through Solar Gard Elite Dealers**	 **Single Pane; Clear or Tinted**	 **Double Pane; Clear or Tinted**	 **Double Pane; Clear Low-e #2**	 **Double Pane; Clear Low-e #3**	 **Triple Pane; Clear**
Panorama Hilite					
Hilite 70	●	●	●	●	▲[3]
Hilite 55	●	●	●	●	▲[3]
Hilite 40	●	●	●	▲[2]	■
Hilite 25	●	■	■	■	■
Panorama CX					
CX 60	●	●	●	▲[2]	●
CX 50	●	●	●	▲[2]	▲[3]
CX 35	●	●	●	▲[2]	■
Panorama Slate					
Slate 40	●	●	●	▲[2]	▲[3]
Slate 30	●	●	●	▲[2]	■
Slate 20	●	●	●	▲[2]	■
Slate 10	●	●	●	▲[2]	■
Solar Safety & Security					
Panorama 8 Mil Hilite 70	●	●	●	●	▲[3]

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*** See Film-to-Glass Application Submittal instructions below.**

Film-to-Glass Information

Film-to-Glass Application Submittal

This document provides guidance for the most common glass types, not all applications are covered. If you are not sure about a specific film-to-glass application or your situation is not pre-approved, you may submit a film-to-glass application to Solar Gard Technical Services at techservices@solargard.com, to ensure glass breakage and insulated glass (IG) unit seal failure warranty coverage, if available in your region. Film-to-Glass Application (SK0322) can be downloaded from the Dealers Portal. Any film may be applied to glass constructions consisting of ALL panes being tempered.

Film-to-Glass Application Disclaimers

All installations over 2,500 square feet (232 sq. meters) require a film-to-glass application (SK0322) and approval to ensure warranty coverage. Round, bent or laminated glass may be approved, although a film-to-glass application must be submitted and written approval received to ensure glass breakage and insulated glass (IG) unit seal failure warranty coverage. However, this limited warranty is NOT AVAILABLE when film-to-glass applications include any of the following:

1. Textured or wired glass;
2. Any glass with more than one window film applied;
3. Any window where light can be seen between the glass and the framing system;
4. Any plastic or polycarbonates;
5. Quadruple pane insulated glass (IG) units;
6. Glass with paint, lettering, vinyl graphics or other ornamentation;
7. Glass with any single edge dimension greater than 10 feet (3 meters);
8. Any single glass pane greater than 100 square feet total (9.3 sq. meters);
9. Any single insulated glass (IG) unit greater than 40 square feet total (3.7 sq. meters); For Panorama® Hilite film only, any insulated glass (IG) unit greater than 60 square feet total;
10. Any single pane with partial film installation. Film must cover the visible opening;
11. Glass 3/8 inch (10 mm) or thicker; For laminated glass, use the combined thickness of both panes;
12. Damaged, chipped, cracked or scratched glass;
13. Glass with concrete framing;
14. Glass with metal framing that has no gaskets or seals;
15. Glass with framing sealant or gaskets that are no longer resilient;
16. Broken glass or insulated glass (IG) unit/s with seal failure prior to film installation;
17. Any building that has a history of glass breakage and/or seal failure problems; or
18. Any film applied to spandrel glass.
19. Any interior film applied to skylight glass.
20. If the original window manufacturer's IG unit seal warranty ends for reasons unrelated to the Product installation, or if IG unit seal failure occurs after the warranty term expires.

Low-E Caution (LEC) Warranty Coverage

The following scenarios outline the necessary warranty coverage parameters when installing a Low-E Caution (LEC) film to an insulated glass (IG) unit. The Low-E Caution (LEC) indicates possible glass breakage and insulated glass (IG) unit seal failure warranty coverage ineligibility, due to an increased risk when a LEC film is installed on a double pane, insulated glass (IG) unit with a Low-E coating.

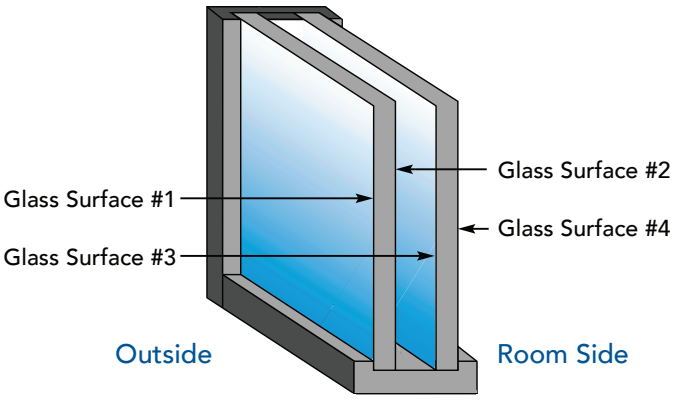
#1 ▲1

Any exterior LEC window film installed on a double pane insulated glass unit that has a low-e coating on surface #2 and a Solar Heat Gain Coefficient (SHGC) of 0.58 or greater is pre-approved for glass breakage and insulated glass (IG) unit seal failure warranty coverage.

#2 ▲2

Any interior LEC window film installed on double pane insulated glass unit that has a low-e coating on surface #3 and a Solar Heat Gain Coefficient (SHGC) of 0.61 or less is pre-approved for glass breakage and insulated glass (IG) unit seal failure warranty coverage.

Side View Of Dual Pane Insulated Glass (IG) Unit



Triple Pane Clear Warranty Coverage

#3 ▲3

A film-to-glass application must be submitted and written approval received to ensure glass breakage and insulated glass (IG) unit seal failure warranty coverage for constructions utilizing glass with a thickness greater than 3/16" (4mm).

www.solargard.com

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