

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

Film-to-Glass Guide – Europe

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	clear or finted		2011 6 112	2011 0 110	Cicul
Sentinel Plus Silver 35 OSW					
Sentinel Plus Silver 20 OSW	•			•	
Sentinel Plus Stainless Steel 45 OSW				•	
Sentinel Plus Stainless Steel 40 OSW				•	
Sentinel Plus Stainless Steel 25 OSW	•		<u></u> ▲ ¹	•	
Sentinel Plus Stainless Steel 15 OSW			•	•	
Sentinel Plus Solar Bronze 20 OSW	•	•	•	•	•
Sentinel Plus SX 80 OSW	•	•			A
Sentinel Plus SX 50 OSW	•		•	•	•
Sentinel Plus DX 15 OSW	•	•	•	•	•
Sentinel Plus DX 5 OSW	•	•	•	•	•
Sentinel Plus QX 70 OSW					
Sentinel Plus QX 40 OSW	•	•	•	•	•
Sentinel DX 50 OSW				•	
Sentinel DX 35 OSW					
Sentinel DX 20 OSW	•		•	•	•
Sentinel DX 5 OSW	•	•	•	•	•
Silver					
Silver 50					•
Silver 35	•	•	•	•	
Silver 20				<u>^</u> 2	
Grey/Silver 15					
Grey/Silver/Grey 10					
<u>.</u>					
Sterling					
Sterling 70					
Sterling 60					
Sterling 50				2	
Sterling 40				2	-
Sterling 20	•	•	•		
LX					
LX 70					
LX 40	•	•	•	▲ ²	
Ecolux					
Ecolux 70	•	•	•		
Summer/Winter Low-Emissivity					
Silver AG 50 Low-E					
Silver AG 25 Low-E	•	•	•		
TrueVue					
TrueVue 40	•				
TrueVue 30	•		•	^ 2	
TrueVue 15	•		•	▲ ² ▲ ²	
TrueVue 5	•		•	▲ ²	

= Low Risk

A = Caution, Submit Film-to-Glass Application for Risk Assessment*

= Tempered Only

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

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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
Stainless Steel					
Stainless Steel 50	•	•		● ▲ ²	•
Stainless Steel 35 Stainless Steel 30			-		
Stainless Steel 30 Stainless Steel 20	_				
Stainless Steel 20 Stainless Steel 10	—				
Solar Bronze	•			2	
Solar Bronze 50				2	
Solar Bronze 35 Solar Bronze 20				2 2	
	•	•		_	
Quantum					
Quantum/Silver/Quantum 20	<u> </u>				
Quantum/Silver/Quantum 10		•			•
Specialty					
Deep Etch			•		
Clear Frost		•	٠		
Black Opaque		•			
White Opaque		A	•	A	
4 Mil Graffitigard		•	•	•	•
6 Mil Graffitigard		•	•	•	
7 Mil Graffitigard	•	•	•	•	•
Clear Safety & Security					
2 Mil Clear			•		•
4 Mil Clear	•	•	•	•	•
7 Mil Clear	•	•	•	•	
8 Mil Clear	•	•	•	•	
10 Mil Clear	•	•	•	•	
11 Mil Clear		•	•	•	•
14 Mil Clear		•	•	•	•
4 Mil Sentinel Clear OSW	•	•	•	•	•
Solar Safety & Security					
4 Mil Stainless Steel 50	•		•		
4 Mil Stainless Steel 50 4 Mil Stainless Steel 35				^ 2	_
4 Mil Stainless Steel 30			-		
4 Mil Stainless Steel 20	—				
8 Mil Stainless Steel 50		-	-		
8 Mil Stainless Steel 35	ě	ě	ě	^ 2	-
8 Mil Stainless Steel 20	<u> </u>		—		
10 Mil Stainless Steel 50					
4 Mil Solar Bronze 35		Ŏ	-	2	
4 Mil Solar Bronze 20	•	•	•	\mathbf{A}^2 \mathbf{A}^2 \mathbf{A}^2	
4 Mil Silver 20	•		•	²	
8 Mil Silver 35	•	•	-	•	_
8 Mil Silver 20	•		•	▲ ²	
8 Mil LX 70	•		•	•	•
Outside Weatherable Clear Safety & Security Films					
Sentinel Plus 4 Mil Clear OSW	•				•
Sentinel 8 Mil Clear OSW	•	•	•	•	

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ULR					
ULR 70					•
ULR 40			<u></u> <u> </u> ²	<u></u> ²	
ULR 20	•	•	•		
Slate					
Slate 40			•	<u></u> ▲ ²	•
Slate 30	•		•	<u></u> ∠2	
Slate 20	•		•	<u></u> ²	•
Slate 10	٠	•	•	^ 2	

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Film-to-Glass Information

Film-to-Glass Guidance

Windows constructed of tempered or heat-strengthened glass are not at risk for glass breakage. Film-To-Glass-Application needs to be submitted for any glazing type where at least one of the panes is 8mm or thicker.

Film-to-Glass Application Disclaimers

Round, bent or laminated glass may be recommended by submitting a film-to-glass application. However, there is a high risk of glass breakage for applications with any of the following conditions:

- 1. Textured, wired or skylight 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. Suspended film insulated glass (IG) units;
- 7. Glass with paint, lettering, vinyl graphics or other ornamentation;
- Any single pane with partial film installation. Film must be installed edge to edge;

9. Damaged, chipped, cracked or scratched glass;

- 10. Glass with concrete framing;
- 11. Glass with metal framing that has no gaskets or seals;
- 12. Glass with framing sealant or gaskets that are no longer resilient;
- Broken glass or insulated glass (IG) unit/s with seal failure prior to film installation;
- 14. Any building that has a history of glass breakage and/or seal failure problems; or
- 15. Any film applied to spandrel glass

Low-E Caution (LEC)

The following scenarios outline the necessary 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, 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 g-value (SHGC) of 0.58 or greater is a low risk for glass breakage and insulated glass (IG) unit seal failure.

#2

Any interior LEC window film installed on double pane insulated glass unit that has a low-e coating on surface #3 and a g-value (SHGC) of 0.61 or less is a low risk for glass breakage and insulated glass (IG) unit seal failure.

Side View Of Dual Pane Insulated Glass (IG) Unit



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