Materials Group
Graphics Materials

Application Chart
North America

Architectural Window Films
Film to Glass

This Film To Glass (FTG) Application Chart is for guidance purposes only. For more information regarding the application of one of the products included in this FTG on a particular glass surface, please contact our technical team at **windowfilms.techsupport@averydennison.com**



AVERY DENNISON

✓
Compatible
Tinted glazing recommendations are based upon simulations done on 45% LT tinted glass. Film can be applied on darker tinted glass if glass is fully tempered or based on written approval from Avery Dennison technical support.

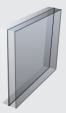
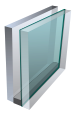
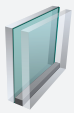
●
Conditional Compatibility
Film can be applied if VLT is lighter than 45% or if glass is fully tempered.

▲
Tempered / Heat Strengthened
Film can be applied only if the glass is tempered, and not annealed (for IGU requirement for both panels).

x
Incompatible

IMPORTANT:
This chart refers to annealed glass. See terms and conditions.

Interior

		Single Pane			IG Unit		Clear IG Unit – Low E	
								
		Clear	Tinted	Clear Laminated[3]	Clear	Tinted	#3 on Glass Diagram (pg 4)	High Performance #2 on Glass Diagram (pg 4)
Reflective[4]	R Silver 20i	✓	✓	✓	✓	●	✓	✓
	R Silver 35i	✓	✓	✓	✓	●	✓	✓
Dual Reflective	DR OptiTune 05i	✓	✓	✓	✓	●	✓	✓
	DR OptiTune 15i	✓	✓	✓	✓	●	✓	✓
	DR OptiTune 20i	✓	✓	✓	✓	●	▲	✓
	DR OptiTune 30i	✓	✓	✓	✓	●	▲	✓
	*DR OptiTune 40i	✓	✓	✓	✓	✓	▲	✓
	DR OptiShade 15i	✓	✓	✓	✓	●	▲	✓
	DR OptiShade 25i	✓	✓	✓	✓	●	▲	✓
	DR OptiShade 35i	✓	✓	✓	✓	●	▲	✓
Neutral	NT PerLite Ceramic 20i	✓	✓	▲	▲	●	▲	▲
	NT PerLite Ceramic 35i	✓	✓	✓	✓	✓	▲	✓
	NT PerLite Ceramic 50i	✓	✓	✓	✓	✓	✓	✓
	NT PerLite Ceramic 70i	✓	✓	✓	✓	✓	✓	✓
	NT Natura 05i[4]	✓	▲	▲	▲[5]	▲[5]	▲[5]	▲[5]
	NT Natura 15i[4]	✓	▲	▲	▲[5]	▲[5]	▲[5]	✓[5]
	NT Natura 30i[4]	✓	●	✓	✓	●	▲[5]	✓
Spectrally Selective	SP e-Lite 45i[1]	✓	✓	✓	✓	✓	▲	✓
	SP e-Lite 70i[1]	✓	✓	✓	✓	✓	✓	✓
Design	DS Matte 2 mil i	✓	✓	✓	✓	●	✓	✓
	DS Black i	▲	▲	▲	x	x	x	x
	*DS White i	✓	✓	✓	✓	●	▲	▲
	*DS UV Filter i	✓	✓	✓	✓	✓	✓	✓
Safety & Security[6]	SF Clear 4/7*/8/12/15/23 mil i	✓	✓	✓	✓	✓	✓	✓
	SF Clear 4/7*/12 mil Mod[3]	✓	✓	✓	✓	✓	✓	✓
	SF Matte 5*/12 mil i	✓	✓	✓	✓	●	✓	✓
	AG Clear 4/6 mil ix M	✓	✓	✓	✓	✓	✓	✓
Solar Safety[6]	R Silver 20 4*/9/12 mil	✓	✓	✓	✓	●	✓	✓
	NT PerLite Ceramic 35 6/10 mil	✓	✓	✓	✓	✓	▲	✓
Spectrally Selective Safety[6]	*SP e-Lite 70i - 8mil	✓	✓	✓	✓	✓	✓	✓

1. Must be edge sealed if within 10 miles / 16km of the ocean. Use neutral sealing agent Dow Corning 791 or 795, Max 5000 by GE or equivalent neutral silicone seal agent. No edge sealing required on such location in case of fixed/stationary/immovable windows that are not exposed to environment.
2. Laminated clear applies only to 1/4" + 1/4" (6.35mm + 6.35mm) structures and thinner.
3. Refers to application of clear safety films unless it's in combination with other Avery Dennison window films in which case the Safety Clear Mod film receives the characteristics and warranty of the film that is applied on it.
4. Windows are not warranted for seal failure after applying NT Natura films
5. All exterior films require edge sealing, except for SkyLite 20 XTRM PRO / PRO Poly. Always reference installation guidelines and warranty terms and conditions. For edge sealing, it is recommended to use a neutral sealing agent such as Dow Corning 791 or 795, Max 5000 by GE or an approved equivalent neutral silicone edge sealing agent specific to exterior applications.
6. See product warranty for additional terms and conditions

*Product Discontinued

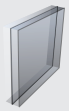
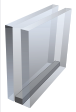
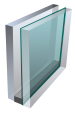
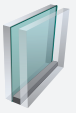
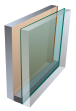
i = Interior application
X = Exterior application
ix = Universal application (Interior & Exterior)
M = Multipurpose (can be applied to glass or polycarbonate surfaces)

✓
Compatible
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		Single Pane			IG Unit		Clear IG Unit - Low E		IG Unit - Low E
									
Exterior[5]		Clear	Tinted	Clear Laminated[2]	Clear	Tinted	#3 on Glass Diagram (Pg 4)	High Performance #2 on Glass Diagram (pg 4)	Solar coated glass #2 on Glass Diagram (Pg 4) + High Performance Low E #3 on Glass Diagram (Pg 4)
Reflective	R Silver 20X	✓	✓	✓	✓	✓	✓	✓	✓
	*R Silver 35X	✓	✓	✓	✓	✓	✓	✓	✓
	R Silver 20X Poly	✓	✓	✓	✓	✓	✓	✓	✓
	R Silver 20 XTRM PRO	✓	✓	✓	✓	✓	✓	✓	✓
Dual Reflective	DR Grey 20X	✓	✓	✓	✓	✓	✓	✓	✓
	DR Grey 35X	✓	✓	✓	✓	✓	✓	✓	▲
	DR Grey 10 XTRM PRO	✓	✓	✓	✓	✓	✓	✓	✓
	DR Grey 20 XTRM PRO	✓	✓	✓	✓	✓	✓	✓	✓
	DR Grey 35 XTRM PRO	✓	✓	✓	✓	✓	✓	✓	▲
Spectrally Selective	*SP e-Lite 45X	✓	✓	✓	✓	✓	✓	✓	✓
	SP e-Lite 70X	✓	✓	✓	✓	✓	✓	✓	✓
	SP Blue 75X	✓	●	✓	✓	▲	✓	▲	▲
Design	*DS Bronze 20X	✓	✓	✓	✓	✓	✓	✓	✓
	*DS Blue 35X	✓	✓	✓	✓	✓	✓	✓	▲
Clear Films	SF Clear 4*/7 mil X	✓	✓	✓	✓	✓	✓	✓	✓
	*Clear 4/6 mil poly X	✓	✓	✓	✓	✓	✓	✓	✓
Surface Protection	AG Clear 4mil/6mil ix M	✓	✓	✓	✓	✓	✓	✓	✓
Specialty	SkyLite 20 XTRM PRO	✓	✓	✓	✓	▲	▲	▲	▲
	SkyLite 20 XTRM PRO Poly	✓	✓	✓	✓	▲	▲	▲	▲
	R SkyLite 20 XTRM PRO	✓	✓	✓	✓	✓	✓	✓	✓
	R SkyLite 20 XTRM PRO Poly	✓	✓	✓	✓	✓	✓	✓	✓

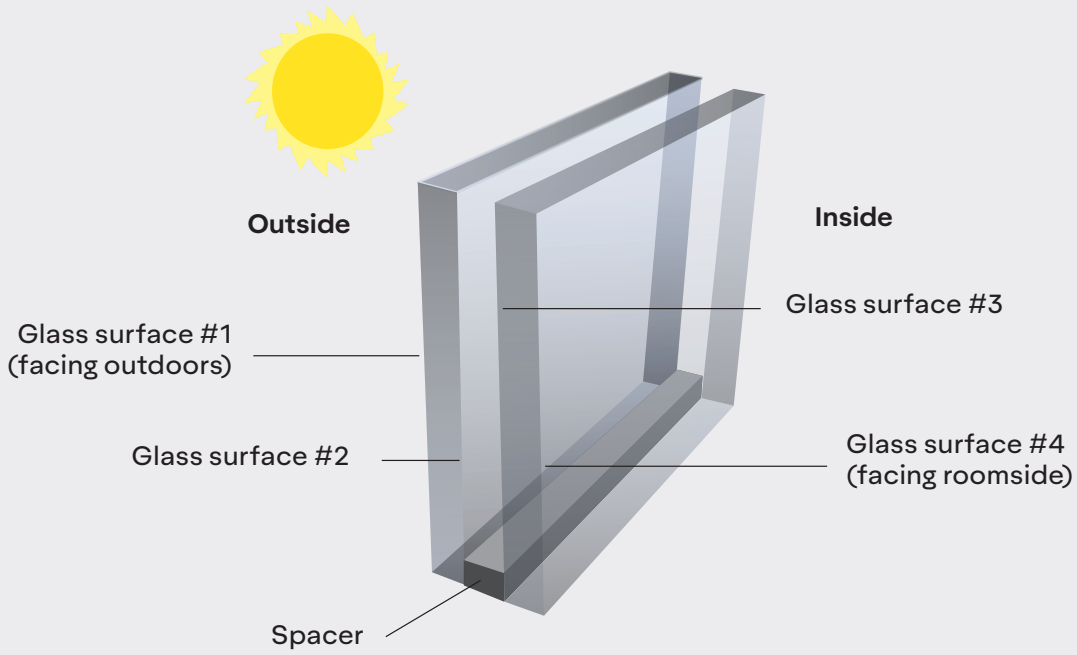
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Glass Diagram:



Important restrictions and limitations on installation:

- It is the installer's responsibility to ensure that the film chosen is compatible with the glazing system.
- Pane size: for glass with an edge dimension over 11.5 ft (3.5 m), and/or the surface of double pane glass has more than 40 sqft (3.7 sqm) surface area- use only on tempered glass.
- Pane thickness: clear glass > 3/8" (9.5 mm), tinted glass > 1/4" (6 mm) - use only on tempered glass unless given special approval otherwise.
- FTG chart refers to altitude up to 1640 ft (500 m). Above this altitude please consult with our technical support team. Reference High Altitude FTG Chart.
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For warranty terms and conditions visit:

graphics.averydennison.com/en/home/services/warranty/window-film-warranty.html

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