

Film to Glass Application Chart



**AVERY
DENNISON**



Hanita Coatings

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.

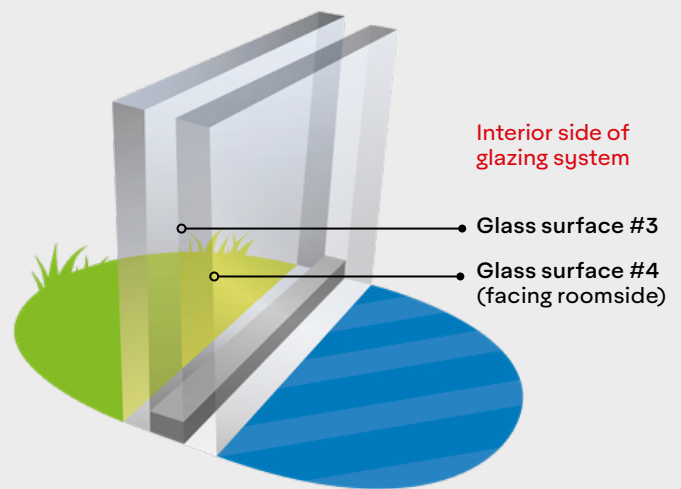






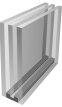




Contents:

- Avery Dennison Interior
- Avery Dennison Exterior
- Hanita Interior
- Hanita Exterior
- Not warrantied

Avery Dennison Interior



	Single Pane		IG Unit			Clear IG Unit Low E	
	 Clear	 Tinted	 Clear	 Tinted	 Triple Pane Clear	 On #3	 High Performance On #2
Reflective							
R Silver 20i	✓	✓	✓	●	●	●	●
R Silver 35i	✓	✓	✓	●	●	✓	✓
R Silver 50i	✓	✓	✓	✓	●	✓	✓
Dual Reflective							
DR Grey 05i	✓	✓	✓	●	○	○	✓
DR Grey 15i	✓	✓	✓	●	○	○	✓
Spectrally Selective¹							
SS Natural 45i	✓	✓	✓	✓	○	○	✓
SS Natural 70i	✓	✓	✓	✓	●	✓	✓
Specialty Films							
DS Matte i	✓	✓	✓	✓	✓	●	✓
DS UV Filter i	✓	✓	✓	✓	✓	✓	✓
Clear Films							
SF Clear 4 mil i EC	✓	✓	✓	✓	✓	✓	✓
SF Clear 4 Mil i	✓	✓	✓	✓	✓	✓	✓
SF Clear 7 Mil i	✓	✓	✓	✓	✓	✓	✓
SF Clear 8 Mil i	✓	✓	✓	✓	✓	✓	✓
SF Clear 12 Mil i	✓	✓	✓	✓	✓	✓	✓
Surface Protection							
AG Clear 4 mil ix	✓	✓	✓	✓	✓	✓	✓
AG Clear 6 mil ix	✓	✓	✓	✓	✓	✓	✓

✓ COMPATIBLE

Tinted glazing recommendations are based upon simulations done on 45% VLT 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 not below 45% or if glass is fully tempered. For Triple-pane Compatibility Check & Thermal Breakage Analysis needed*.

○ TEMPERED/HEAT STRENGTHENED

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

✗ INCOMPATIBLE

● SOLAR WINDOW FILMS

● SAFETY WINDOW FILMS

*Advice on film compatibility & thermal breakage risks. Just ask your Avery Dennison representative about a Triple-pane Compatibility Check & Thermal Breakage Analysis.

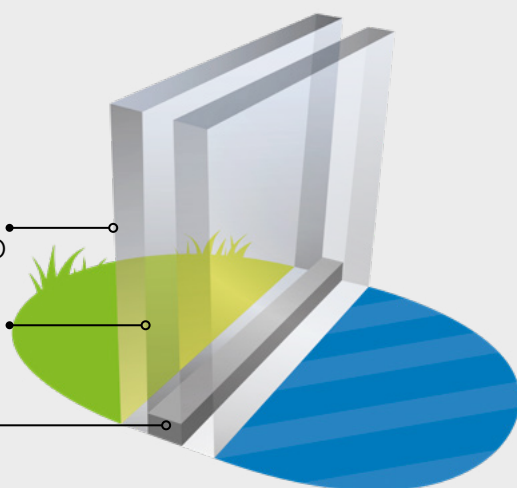
Avery Dennison Exterior²





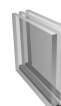



Exterior side of
glazing system

Glass surface #1
(facing outdoors)

Glass surface #2

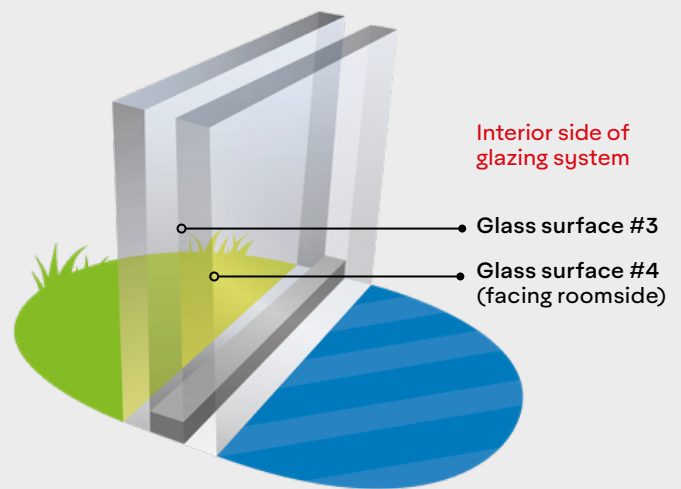
Spacer



	Single Pane		IG Unit			Clear IG Unit Low E		IG Unit Low E
								
	Clear	Tinted	Clear	Tinted	Triple Pane Clear	On #3	High Performance On #2	Solar coated glass #2 + High Performance Low E #3
Reflective								
R Silver 20X	✓	✓	✓	✓	✓	✓	✓	✓
DS Bronze 20X	✓	✓	✓	✓	✓	✓	✓	✓
R Silver 35X	✓	✓	✓	✓	✓	✓	✓	✓
R Silver 50X	✓	✓	✓	✓	✓	✓	✓	✓
R Silver 20 XTRM PRO	✓	✓	✓	✓	✓	✓	✓	✓
Neutral								
SkyLite 20 XTRM PRO	✓	✓	✓	○	○	○	○	○
Dual Reflective								
DR Grey 10X	✓	✓	✓	✓	✓	✓	✓	✓
DR Grey 20X	✓	✓	✓	✓	✓	✓	✓	✓
DR Grey 35X	✓	✓	✓	✓	✓	✓	✓	○
DR Grey 50X	✓	✓	✓	✓	✓	✓	✓	○
DR Grey 10 XTRM PRO	✓	✓	✓	✓	✓	✓	✓	✓
DR Grey 35 XTRM PRO	✓	✓	✓	✓	✓	✓	✓	○
Spectrally Selective								
SS Natural 45X	✓	✓	✓	✓	✓	✓	✓	○
SS Natural 70X	✓	✓	✓	✓	✓	✓	✓	○
SS Natural 70 XTRM	✓	✓	✓	✓	✓	✓	✓	○
SS Blue 75X	●	●	✓	○	○	✓	○	○
Clear Films								
SF Clear 4 Mil X	✓	✓	✓	✓	✓	✓	✓	✓
SF Clear 7 Mil X	✓	✓	✓	✓	✓	✓	✓	✓

- Important: This chart refers to annealed glass.
- The Film to Glass application Chart refers to altitude up to 500m. Above this altitude please consult the Avery Dennison technical support team.
Altitude > 2310m - installation requires prior written approval from Avery Dennison.

Hanita Coatings Interior



	Single Pane		IG Unit			Clear IG Unit Low E	
	Clear	Tinted	Clear	Tinted	Triple Pane Clear	On #3	High Performance On #2
Silver							
20 (4 Mil)	✓	✓	✓	●	●	✓	✓
35	✓	✓	✓	●	●	✓	✓
50	✓	✓	✓	✓	●	✓	✓
PerLite							
20	✓	✓	○	●	○	○	○
35 (6,10 Mil)	✓	✓	✓	✓	○	○	✓
50 (6,10 Mil) 70	✓	✓	✓	✓	○	✓	✓
OptiTune							
05	✓	✓	✓	●	○	○	✓
15	✓	✓	✓	●	○	✓	✓
22	✓	✓	✓	●	○	○	✓
30	✓	✓	✓	●	○	○	✓
40	✓	✓	✓	✓	○	○	✓
Titan Duo							
05	✓	✓	✓	●	○	○	✓
15	✓	✓	✓	●	○	○	✓
e-Lite¹							
45	✓	✓	✓	✓	○	○	✓
70	✓	✓	✓	✓	●	✓	✓
Clear (4,7,8,12,15 Mil) UV Filter 2 Mil	✓	✓	✓	✓	✓	✓	✓
Anti Graffiti Universal (4,6 Mil)	✓	✓	✓	✓	✓	✓	✓
Matte (2,5 Mil)	✓	✓	✓	✓	✓	●	✓
Specialty							
White Out	✓	✓	✓	●	○	○	○
Black Out	○	○	✗	✗	✗	✗	✗

✓ COMPATIBLE

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Hanita Coatings

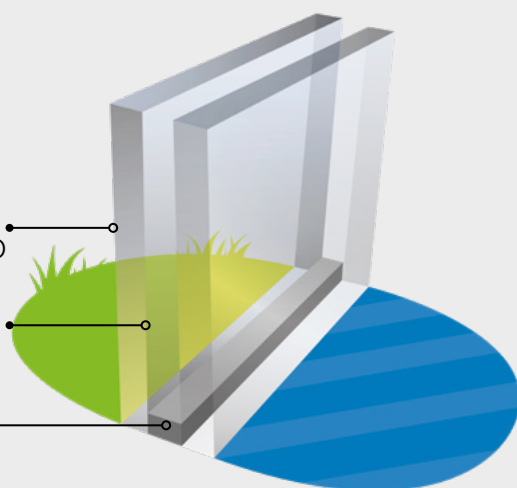
Exterior²

Exterior side of
glazing system

Glass surface #1
(facing outdoors)

Glass surface #2

Spacer



	Single Pane		IG Unit			Clear IG Unit Low E		IG Unit Low E
								
	Clear	Tinted	Clear	Tinted	Triple Pane Clear	On #3	High Performance On #2	Solar coated glass #2 + High Performance Low E #3
Silver								
20 Xtra (4 Mil) / XTRM 20 PRO	✓	✓	✓	✓	✓	✓	✓	✓
35 Xtra / XTRM 35 PRO X	✓	✓	✓	✓	✓	✓	✓	✓
50 Xtra	✓	✓	✓	✓	✓	✓	✓	✓
Titan								
07 Xtra / XTRM 07 PRO	✓	✓	✓	✓	✓	✓	✓	✓
20 Xtra / XTRM 20	✓	✓	✓	✓	✓	✓	✓	✓
35 Xtra / XTRM 35 PRO	✓	✓	✓	✓	○	✓	✓	○
50 Xtra								
Solar Bronze								
20 Xtra	✓	✓	✓	✓	✓	✓	✓	✓
OptiLite								
75 Xtra	●	●	✓	○	✓	✓	○	○
e-Lite								
45 Xtra	✓	✓	✓	✓	✓	✓	✓	○
70 Xtra / 70 XTRM	✓	✓	✓	✓	✓	✓	✓	○
Clear								
Xtra (4,7 Mil)	✓	✓	✓	✓	✓	✓	✓	✓
Anti Graffiti								
Universal (4,6 Mil)	✓	✓	✓	✓	✓	✓	✓	✓
SkyLite PRO								
XTRM SkyLite 20 PRO	✓	✓	✓	○	○	○	○	○

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1 - Must be sealed if within 16km of the sea. 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 - 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.

Following adhesion to Application Windows is not covered:

- Two or more films are applied to the same glass surface.
- Automotive film is applied to flat glass constructions.
- Vinyl is applied on top of Architectural Window Film.
- If filmed windows are coated or tinted triple pane or more pane construction, textured, wire film glass, or an IG unit inclusive of a suspended film - need prior approval from Avery Dennison.
- Film is applied to any glass on which there is paint, lettering, signs, stickers or other permanent or temporary ornamentation.
- Filmed glass has prior damage, is chipped, cracked, has holes in it, or light is visible between the frame and the glass.
- Film is applied to non glass substrates (if not specifically permissible) - excluding PolyFilms.
- One glass side is more than 3.8m and/or the surface of double pane glass has more than 10m². - need prior approval from Avery Dennison.
- Altitude is above sea level > 2310m: needs prior written approval from Avery Dennison.
- Film is only partially applied to glass.
- Window is shaded by exterior overhangs, extensions, columns, pillars etc. - need prior approval for application of specific products as SS Natural 45 X, SS Blue 75 X, e-Lite 45 Xtra, OptiLite 75 Xtra.
- Windows are architecturally odd shaped larger than 6m².
- Film is applied to any type of laminated glass: needs prior written approval from Avery Dennison
- Avery Dennison XTRM films are installed by non-Avery Dennison Certified installers.
- Hanita Coatings XTRM films are installed by non-Hanita Coatings Certified installers.

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