

Avery Dennison®

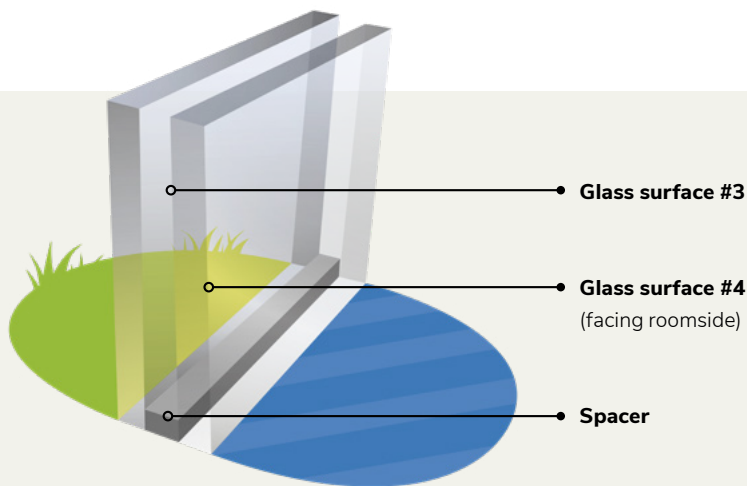
Film to Glass Application Chart



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:

graphics.averydennison.eu/architectural-window

Interior



| | Single Pane | | IG Unit | | Clear IG Unit Low E | |
|---|-------------|--------|---------|--------|---------------------|------------------------|
| | Clear | Tinted | Clear | Tinted | 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 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 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.

○ **TEMPERED/HEAT STRENGTHENED**

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

✗ **INCOMPATIBLE**

- Important: This chart refers to annealed glass.

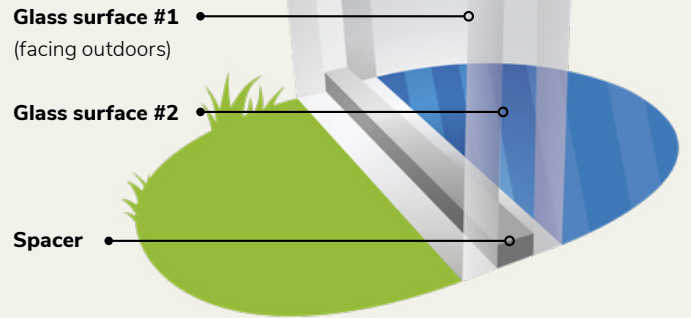
- The Film to Glass application Chart refers to altitude up to 500m. Above this altitude please consult the Avery Dennison technical support team. Altitude > 2310m - installation requires prior written approval from Avery Dennison.

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.

Exterior²

- Solar Window Films
- Safety Window Films



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

✓ **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.

○ **TEMPERED/HEAT STRENGTHENED**

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

✗ **INCOMPATIBLE**

- Important: This chart refers to annealed glass.

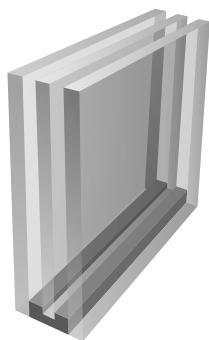
- The Film to Glass application Chart refers to altitude up to 500m. Above this altitude please consult the Avery Dennison technical support team.
Altitude > 2310m - installation requires prior written approval from Avery Dennison.

2 All exterior films require sealing! Use neutral sealing agent Dow Corning™ 791 or 795, Max 5000™ by GE® or approved equivalent neutral silicone seal agent for exterior applications.

Following adhesion to Application Windows is not covered:

1. Two or more films are applied to the same glass surface.
2. Automotive film is applied to flat glass constructions.
3. Vinyl is applied on top of Architectural Window Film.
4. If filmed windows are triple or more pane construction, textured, wire film glass, or an IG unit inclusive of a suspended film - need prior approval from Avery Dennison.
5. Film is applied to any glass on which there is paint, lettering, signs, stickers or other permanent or temporary ornamentation.
6. Filmed glass has prior damage, is chipped, cracked, has holes in it, or light is visible between the frame and the glass.
7. Film is applied to non glass substrates (if not specifically permissible) - excluding PolyFilms.
8. 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.
9. Altitude is above sea level > 2310m: needs prior written approval from Avery Dennison.
10. Film is only partially applied to glass.
11. 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.
12. Windows are architecturally odd shaped larger than 6m².
13. Film is applied to any type of laminated glass: needs prior written approval from Avery Dennison
14. Avery Dennison XTRM films are installed by non-Avery Dennison Certified installers.

Triple-Pane Glazing



Advice on film compatibility & thermal breakage risks

Just ask your Avery Dennison representative about a **Triple-pane Compatibility Check & Thermal Breakage Analysis**.

Triple-pane glazing panels are becoming increasingly popular, and they can now be mandatory for some new-build projects and building renovations.

These new types of glazing are more complex, and can mean a higher risk of thermal breakage. It is important to avoid any additional stress on the glass, and choosing the right architectural window film will help to minimize thermal stress.

Our Window Film Technical Services Team is available to evaluate film compatibility for any project, and their advice is particularly valuable when using triple-pane glazing systems.