

Purpose

This guide provides the user with essential information to minimize the occurrence of glass breakage by helping the user match the right type of Hüper Optik film to the glass application. This guide and chart is applicable to Hüper Optik window film installed in North America.

How to Use This Guide

Use the following 2-Step Risk Assessment guidelines to assess the risks of glass breakage for your project. Only apply the film if it passes BOTH the primary and secondary risk assessments.

Step 1: Primary Risk Assessment (Film Compatibility)

Identify the glass type and proposed Hüper Optik film. Refer to the attached Film to Glass Compatibility Chart as a guide for film approval.

The legend of rating is as follows:

Recom = the film selected is recommended to the glass application.








Not Recom = the film selected is not recommended to this glass application

Step 2: Secondary Risk Assessment (Glazing Condition)

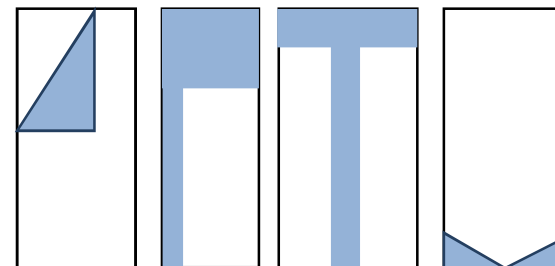
Conduct a thorough site survey of the glazing system, looking out for any of the following glazing defects. If any defects are spotted, please seek advice from your Hüper Optik Regional Manager before installation.

If no defects are detected and the glass-film compatibility passes Step 1, proceed with the installation.

Glazing Defects:

-  Gaskets, sealants or tapes shrinkage on the window frame
-  Poor edge bite
-  Chipped, scratched or cracked glass
-  Moisture accumulated (double glazing only)
-  Prior history of unexplained glass breakage
-  Any other visible glass defects
-  Glass subjected to odd shaped shadows from the surroundings

Examples:



Film to Glass Chart

Film Type	Glass Type							
	Clear SP	Tinted SP	Clear DP	Tinted DP	Low E DP	Clear Laminated	Tinted Laminated	DP Laminated
C5	Not Recom	Not Recom	Not Recom	Not Recom	Not Recom	Not Recom	Not Recom	Not Recom
C15	Not Recom	Not Recom	Not Recom	Not Recom	Not Recom	Not Recom	Not Recom	Not Recom
C20	Not Recom	Not Recom	Not Recom	Not Recom	Not Recom	Not Recom	Not Recom	Not Recom
C30	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom	Not Recom	Not Recom
ESC/C 35	Recom	Recom	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom
C40	Recom	Recom	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom
ESC/C 45	Recom	Recom	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom
C50	Recom	Recom	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom
C60	Recom	Recom	Recom	Recom	Recom	Recom	Recom	Recom
C70	Recom	Recom	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom
Klar 85	Recom	Recom	Recom	Recom	Recom	Recom	Recom	Recom
Sech	Recom	Recom	Recom	Recom	Recom	Recom	Recom	Recom
Drei	Recom	Recom	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom
Therm-X 30	Recom	Recom	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom
Therm-X 50	Recom	Recom	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom
Therm-X 70	Recom	Recom	Recom	Recom	Recom	Recom	Recom	Recom
Fusion 10	Recom	Recom	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom
Fusion 20	Recom	Recom	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom
Fusion 28	Recom	Recom	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom
Fusion 40	Recom	Recom	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom
TBR 25	Recom	Recom	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom
TBR 40	Recom	Recom	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom
TSL 18	Recom	Recom	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom
TSL 30	Recom	Recom	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom
Frost	Recom	Recom	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom
White out	Recom	Recom	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom
Matte Black	Not Recom	Not Recom	Not Recom	Not Recom	Not Recom	Not Recom	Not Recom	Not Recom
Dusted Crystal	Recom	Recom	Recom	Recom	Recom	Not Recom	Not Recom	Not Recom

SP = Single pane
DP = Dual pane

Recom = Recommended
Not Recom = Not Recommended

* = see below

Restrictions

1. Single pane glass should be less than 100 square feet
2. Dual pane glass should be less than 50 square feet
3. Clear glass should be less than 3/8 inch thick
4. Tinted glass should not be more than 1/4 inch thick
5. Architecturally odd shaped windows more than 25 square feet void the warranty
6. The same pane of glass is limited to two claims from HuperOptik
7. Frame damage on the window being applied voids the warranty
8. Altitudes above 2000 ft of sea level change C30 and C40 to **Not Recommended** for all dual pane glass
9. Uneven shading from the exterior will void warranty (see page 1)
10. Films are not warranted on surface 2 of single pane glass and surface 4 of dual pane glass if these surfaces have any coatings on them including but not limited to Low e.

Additional

*If all panes are heat strengthened or tempered, all films are warranted for glass breakage.
This chart should be used in conjunction with the stipulations of our warranty program.
****See full warranty for details****