

Film to Glass Guide

Recommended Film to Glass Combinations

In certain cases, the application of window film can increase the risk of glass breakage and/or seal failure. The age, the condition, and type of construction of the glazing system can limit or even prohibit the application of window film.

The following **Film to Glass Risk Assessment Chart** will assist you in determining the risk of glass breakage for specific film to glass type combinations. *Ultimately, you need to make the final decision with the help of your installer.*

FILM ORDER CODE	3mm CLEAR ANNEALED	6mm CLEAR ANNEALED	TINTED ANNEALED	CLEAR TOUGHENED	TINTED TOUGHENED	CLEAR LAMINATED*	CLEAR DOUBLE GLAZED
DN15	H	M	H	L	N	H	H
DN20	H	M	H	L	N	H	H
DN25	H	M	H	L	N	H	H
DN35	M	L	M	L	L	M	H
DN50	L	L	L	L	L	M	M
DN60	L	L	L	L	L	L	L
MG05	H	M	H	L	N	H	H
MG10	H	M	H	L	N	H	H
MG20	H	M	H	L	N	H	H
MGD20	M	L	M	L	L	M	M
MBL20	M	M	H	L	L	H	H
MGN20	M	M	H	L	L	H	H

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NS15	H	M	H	L	N	H	H
NS25	M	L	H	L	N	H	H
SB20	M	M	M	L	L	H	M
SB30	L	L	M	L	L	M	L
SB50	L	L	M	L	L	M	L
SS20	L	L	L	L	L	M	L
SS35	L	L	L	L	L	M	L
SV10	M	M	M	L	L	H	M
SV30	L	L	M	L	L	M	L
SV40	L	L	M	L	L	L	L
SX20	L	L	L	L	L	L	L

* Johnson Professional Films do not recommend the application of solar control window film to the interior surface of laminated glass.

Safe Plus™

SEC 2, 4, 8, and 12 clear security films

All clear safety films are low (L) risk for glass breakage or seal failure when applied to any of the glazing systems listed in the chart above.

S-4 and S-7 Safe Plus metallized security films

Risk assessments are the same as the corresponding solar film codes. i.e. S7SS20 will have the same properties as SS20.

Key:

Assessment assumes the glazing system is in good condition.

L=Low Risk - glass breakage or seal failure unlikely.

M=Moderate - window needs to be carefully evaluated.

H=High Risk - not recommended due to high probability of glass breakage or seal failure.

N=Not Suitable - not recommended based on performance.

The Following Are Not Recommended For Window Film Application:

- Broken, scratched, chipped or cracked glass or double glazed units with seal failure.
- Framing sealant or gaskets that are no longer resilient.
- Concrete framing or framing that has no gasket or seals.
- Double glazed units in excess of 40 sq ft in total.
- Any window in excess of 60 sq ft in total.
- Glass with edge dimensions exceeding 3 metres.
- History of broken glass or seal failure.
- Laminated glass. (Excluding Clear Safety Film)
- More than one film is applied to surface.

- Round, circular, textured, painted lettering or ornamentation, wired glass or skylights.
- Non pre-manufactured or frameless arched windows.
- Triple or quadruple glazed units.
- Glass thicker than 6mm.
- Double glazed windows with 6mm tinted glass.
- Up to 25% of the glass is shaded including more than 25% of the glass perimeter.

Examples of harmful shading.

