

## Glass Checklist

### Situations where glass checklist is required (All Window Films)

1. Single pane glass larger than 100 square feet (9.3 square meters).
2. Double pane glass larger than 40 square feet (3.7 square meters).
3. Clear glass thicker than 3/8 inch (9.5mm).
4. Tinted glass thicker than 1/4 inch (6mm).
5. Architectural shading from exterior overhangs, extensions, columns, pillars, etc.
6. Window framing systems of concrete, solid aluminum or solid steel.
7. Glass where sealant or glazing compound has hardened.
8. Buildings with more than 1% previous glass breakage or problems over the last two (2) years.
9. Reflective glass.
10. Laminated glass in single pane or double pane.
11. Window where frame is damaged.
12. Architecturally odd-shaped windows (half moons, cathedral, etc.) larger than 20 square feet.

### Situations where glass checklist is required (specific films)

1. **Prestige 40** on double pane glass where blinds or drapes are present
2. **Neutral 20** on double pane glass
3. **Color Stable 5** or **Color Stable 20** on single pane glass
4. **Black Chrome 10** or **Black Chrome 20** on single pane glass
5. **Black Chrome 35** or **Black Chrome 40** on double pane glass
6. **FX-ST 5** on single or double pane glass
7. **FX-ST 20** or **FX-ST 35** on double pane glass
8. **FX-HP 5** or **FX-HP20** on single pane glass
9. **FX-HP 30** or **FX-HP35** on double pane glass

### No Coverage - No Glass Breakage Warranty (All Films)

1. Wired, textured or patterned glass.
2. Interior application: triple pane glass or double pane glass in conjunction with a suspended film.
3. Partial applications of film to glass.
4. Applications of more than one tinted or reflective film to glass.
5. Visibly brittle, chipped, cracked or otherwise damaged glass.
6. Glass blocks.

### No Coverage - No Glass Breakage Warranty (Specific Films)

1. Color Stable 5, Color Stable 20, Black Chrome 10, Black Chrome 20, FX-HP 5, FX-HP20 on double pane glass\*

**\*Warranty coverage is available for tempered glass, glass checklist required**

### Commercial Solutions Division

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**3M Glass Breakage Warranty**

- **Does Not** apply to restricted film/glass combinations or situations without 3M's prior approval.
- Prior approval requires completing a Glass Checklist on the 3M eWarranty System.
- 3M will calculate expected edge stress and determine if application is recommended and return confirmation via e-mail, fax, or mail.
- Copy of 3M prior approval must be attached to warranty.
- Only applicable in continental U.S.
- Note that the warranty, if approved by 3M, covers glass failure caused only by thermal stress.

Note: Dealer failure to obtain 3M's prior approval will result in no glass breakage warranty

**Instructions for Completing Glass Checklist****Customer-Dealer Information Section**

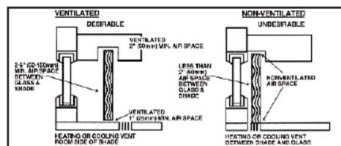
Complete the **contact information** for both the **customer** and **dealer**. This information is used on the report cover, and is helpful if any questions about the project are encountered while creating the report.

**Building Information Section**

1. Indicate the appropriate **glass type**.
2. If the window is **single pane** indicate if the glass is **Annealed, Laminated, or Tempered** (you must choose one).
3. If the window is **double pane** indicate if the glass is **Annealed, Laminated, or Tempered** for the interior and the exterior panes.
4. Enter the **glass height and width** in inches (mm).
5. Select the proposed **3M Sun Control Window Film™ Window Film type(s)**.
6. If the window is **single pane** provide the **glass thickness** in inches (mm).
7. If the window is **double pane** provide the **glass thickness** in inches (mm) for both the interior pane and the exterior pane.
8. Enter the **number of windows** in the building.
9. Provide the **building age** in years.
10. Has the building experienced **glass breakage in the past** (check either yes or no)? If there has been glass breakage enter the **percent** of the windows that break **each year**.

**Indoor Shading Section**

1. Indicate the type of indoor shading.
2. If **drapes** are used specify the **color** and the **weave** type.
3. If blinds are used specify the **color**.
4. Determine if the indoor shading is **ventilated** or **non-ventilated** by using the diagram below.
5. Indicate the **space between the glass and the indoor shading**.

**Outdoor Shading Section**

1. Select the **outdoor shading pattern** that indicates the most common shading pattern of the glass in this building.
2. If there is no shading pattern check the **None** box

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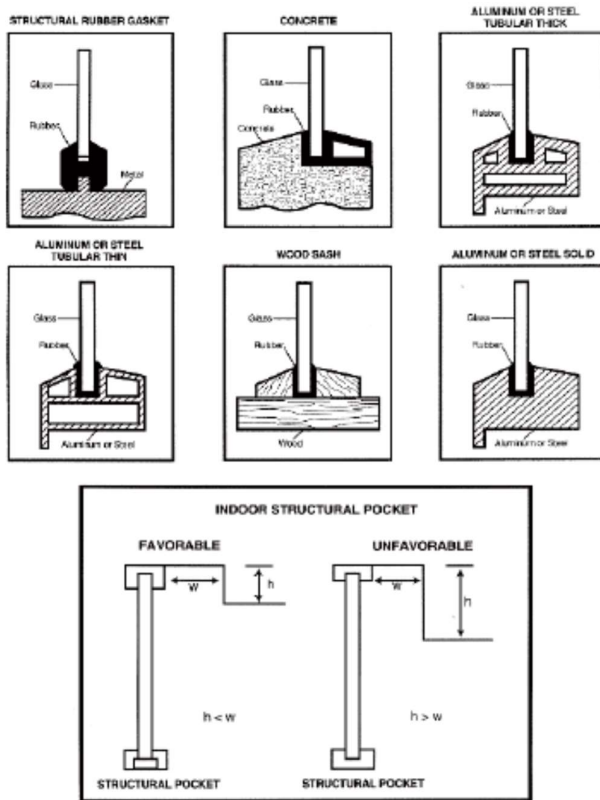
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## Window Framing Section

1. Select the **framing system** used in the window from the choices shown below.
2. Specify the **sealant type** (i.e., rubber, neoprene, etc.).
3. Indicate the **condition of the sealant**.
4. Indicate the **condition of the frame**.
5. Indicate the **outdoor glazing stop color**.
6. Determine if there is an **indoor structural pocket** present (see drawing below).



## Window Type Section

1. If the window is **not square or rectangular** select the shape that most closely resembles the actual shape of the window.
2. If the window is square or rectangular check **NONE**.
3. Is the window area **greater than 20 square feet** (1,86 square meters)? Check the appropriate box.

## Heating Register Location Section

1. Determine the location of the heating/cooling register and its position in relationship to the glass and any **indoor shading device**.
2. Check one of the four choices.

## Other Considerations Section

1. The **Design Winter Temperature** is the lowest temperature expected at the building location. Select the proper temperature range from the three choices.
2. Select the appropriate **altitude** (above sea level) for the building.
3. An **adjacent reflecting surface** could be another building, a body of water, a hillside, etc. Indicate the color of this surface, if present.

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## Expected Edge Stress Report

### What Information Is Contained on The Expected Edge Stress Report?

*The Report is divided into four sections:*

1. **General Information Section:**
  - a. Request Number and Date of Report
  - b. Customer and Dealer Information
  - c. General Glass Information Including:
    1. Glass type
    2. Typical glass size
    3. Glass edge area per window
    4. Total number of windows
  - d. Proposed 3M Sun Control Window Film type
2. **Installation Conditions Section:**
  - a. General Building Conditions
  - b. Specific Description of Building Condition
  - c. Thermal Stress Factors for these Specific Building Conditions
3. **Expected Edge Stress Section:**

Specific Expected Edge Stress Calculation for the indicated 3M Sun Control Window Film
4. **Acceptable Maximum Stress Section:**
  - a. The Acceptable Maximum Stress for this situation
  - b. 3M™'s Recommendation: Accepted or Rejected

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