### QUICK REFERENCE GUIDE FOR

# **GLASS INSPECTORS**

# **Expansion Sealing**

#### **ASTM Standards Overview:**

General Rule: Inspect glass under normal lighting conditions from the correct distance based on the size and end use of the glass.

#### **Defect Size and Acceptance:**

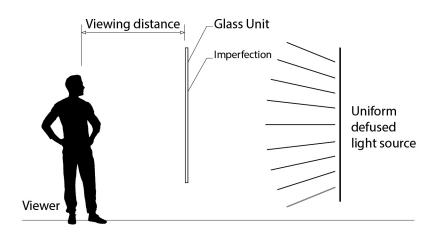
- Lite Size ≤ 6 sq ft: Max 1 scratch (≤ 1 inch),
  1 debris (≤ 1/16 inch).
- Lite Size 6-35 sq ft: Max 2 scratches (≤1 inch), 2 debris (≤1/16 inch), spaced ≥ 24 inches apart.
- Lite Size > 35 sq ft: Max 3 scratches (≤ 1 inch), 3 debris (≤ 1/16 inch), spaced ≥ 24 inches apart.
- Chips and Shells: Size limits vary, generally ≤ 1/8 inch from edge.

#### **Glass Inspection Procedure:**

- Clean glass surface before inspection with a microfiber cloth and glass cleaning solution.
- Use an appropriate background (e.g., black/white sheet) behind the glass for proper visibility.
- · Inspect the glass in the intended installation environment (indoor/outdoor).
- · Measure and document flaws with a ruler and create a diagram.

## For comprehensive guidelines, refer to the ASTM standards:

- · ASTM C1036 Standard for flat glass
- · ASTM C1048 Standard for heat-treated and tempered glass
- · ASTM C1172 Standard for laminated glass
- · ASTM E2190 Standard for insulated glass performance and evaluation



Detection / Distance	Blemish Intensity
3.3 m /(132 in.)	Heavy Medium
1 m (/39 in.) 0.2 m /(8 in.)	Medium Light
> 0.2 m /(8 in.)	Faint