

# INSTALLATION GUIDELINES: IGU & FRAME CABLE

## PRE-INSTALLATION

- Install products using recommendations of manufacturers of glass, sealants, gaskets, and other glazing materials, except where more stringent requirements are indicated, including those in the GANA Glazing Manual.
- Verify that IGU secondary seal is compatible with glazing sealants.
- Seal capillary tubes per SageGlass Capillary Tube Seal Procedure documentation.
  - Allow 48 hours minimum for IGU's to equalize IGU cavity pressure
  - Capillary tubes shall be secured to the edge of glass and must not touch the frame.

## FRAME CABLE INSTALLATION

- Keep Pigtail and Frame Cable caps on until final connection to prevent moisture and debris ingress.
- Do not cut, pinch, or damage protective sheath on Pigtail and Frame Cables.
- Never install or work Frame Cables at or below 32 °F (0 °C) unless Frame Cables have been conditioned (pre-warmed) to > 32 °F (0 °C).
- Protect Frame Cables from UV exposure before and after installation. If exposed after final installation, cables must be painted (latex/water based paint only).
- Drill a 3/8" hole for the grommets, and seal hole with silicone.
- Route the Frame Cable 12" past Pigtail and loop back for connection. No pinches or sharp bends.
- Label free end of Frame Cables with provided labels per the SageGlass wiring diagram.
- Use Field Wiring Tester to verify condition of cables and connections.
- Coil and securely hang the Frame Cables so that they are not on the floor and not susceptible to damage.
- Do not power glass with any non-SageGlass provided power source.
- If Frame Cable or the connector is damaged during installation the Frame Cable must be replaced or repaired. Contact SageGlass if Frame Cable is found to be damaged.

## IGU INSTALLATION

- Once IGUs have been removed from SageGlass packaging, remove labels within 10 days of exposure to sunlight or other UV light sources.
- Protect Pigtail during un-packaging and installation process.
- If the IGU Pigtail connector is damaged during installation, SageGlass must be notified and the connector must be repaired with a SageGlass approved method.
- Protect glass from edge damage during handling and installation.
- Never install IGU with Pigtail or capillary tube in a location where water may collect or become entrapped.
- Install IGU per SageGlass wiring diagram showing IGU labeled elevations. Comply with SageGlass labels and instructions for glass location.

- Install glass in prepared glazing channels and other framing members.
- Install silicone setting blocks in rabbets as recommended by referenced glazing standards in GANA Glazing Manual and IGMA Glazing Guidelines and manufacturer's Glazing Guidelines.
- Use silicone edge blocks for all installed panes to prevent glass from walking post-installation.
- Provide bite on glass, minimum edge and face clearances, and glazing material tolerances recommended by GANA Glazing Manual and as approved by SageGlass.
- Provide weep system as recommended by GANA Glazing Manual.
- Distribute weight of glass unit along edge rather than at corners.
- Comply with framing manufacturer's and referenced industry recommendations on expansion joints and anchors, accommodating thermal movement, glass openings, use of setting and edge blocks, use of glass spacers, edge blocks, and installation of weep systems. Setting and edge blocks must be made from silicone. SageGlass does not recommend the use of setting blocks made from other materials, as they been known to alter the chemical makeup of plastics and rubbers they come in contact with, resulting in seal failure.
- Install per IGMA North American Glazing Guidelines for Sealed Insulated Glass Units, for Commercial and Residential Use TM-3000-90(04) states *"For dry glazed systems, an adequate seal should consist of a minimum of 0.70 N/mm (4 lb/in) and not exceeding 1.75 N/mm (10 lb/in) applied to the edges of the insulated glass unit by gaskets or other fastening systems."*
  - Excess pressure could cause permanent damage to IGU.
- Prevent glass from contact with contaminating substances that result from construction operations, such as weld spatter, fireproofing, or plaster.
- Do not use spark tester for Argon retention test.
- Cleaning and maintenance shall be performed per SageGlass Cleaning and Maintenance Guidelines.

## WHY SAGEGLASS?

**1,000+**  
Installations

**27+**  
Countries

**1,000+**  
Patents

SageGlass® is the pioneer of the world's smartest dynamic glass. Electronically tintable SageGlass tints or clears automatically to optimize daylight levels while preventing heat and glare without the need for blinds or shades. SageGlass delivers superior comfort, enhances occupant well-being and saves energy. As part of Saint-Gobain, SageGlass is backed by more than 350 years of building science expertise that only the world leader in sustainable environments can provide.

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