

# Insulating Glass



Insulating glass, commonly referred to as IG, comes in a variety of configurations with different thicknesses of air space, gas insertion and spacer systems. Typical IG consists of multiple panes of glass adhered to a spacer by a primary seal. A secondary seal is applied to the back of the spacer and the edge of the glass to provide an additional structural and weather-tight seal.

Graco equipment is used in all material dispensing applications in IG construction including desiccant, primary and secondary seal. Graco equipment transfers and/or meters, mixes, and dispenses sealant or adhesive from large containers to dispensing valves or equipment to the specified component for assembly.

## Window glazing (back bedding)

Glazing or back-bedding is a common term used in the window and door industry to describe the process for setting glass into the light opening. Window glazing adheres glass onto the sash to create a weather-tight seal. Graco equipment involved in window glazing includes the [Graco Therm-O-Flow](#) for hot melt materials, [Graco Supply Systems](#) for dispensing materials at ambient temperatures, the [Graco HFR™ Metering System](#) and the [ExactaBlend® Advanced Glazing Proportioner \(AGP\)](#).

## Desiccant application

Desiccant is used in the window manufacturing during the assembly of the insulating glass. The desiccant prevents condensation and improves insulating performance. Graco equipment involved in desiccant application includes the [Graco Therm-O-Flow](#) for hot melt materials, and [Graco Supply Systems](#) for dispensing materials at ambient temperatures.

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## Primary sealing

The purpose of a primary seal on insulating glass is to seal multiple pieces of glass together with a spacer to lock out moisture. Primary sealing requires a fast-bonding hot-melt material or a fast-set sealant. Graco equipment used in primary sealing are a [Graco Therm-O-Flow 200](#) or [Graco Therm-O-Flow 20](#).

## Secondary sealing

Secondary sealing is a process in the manufacturing of insulating glass in which a spacer is adhered to the glass with the primary seal to hold the unit in place. The secondary seal adds structural stability to the insulating glass and provides a moisture barrier. Common materials used in creating a secondary seal are two-component or reactive hot melt. Graco equipment used in secondary sealing are a [Graco HFR Metering System](#), an [ExactaBlend AGP](#) or a [Therm-O-Flow](#).