

Curtainwall & Commercial Glass



A curtainwall is an outer covering of a building constructed of a lightweight frame, such as aluminum, in-filled with insulating glass. Curtainwall panels are often constructed at a manufacturing facility and shipped to the building site where commercial glass is commonly installed on site. Both methods use a type of insulating glass as a major component of construction. The insulating glass is adhered to the panel frame or building with structural adhesive and/or fasteners.

Graco equipment is used in both the manufacturing of insulating glass and end product for this industry.

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.

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.

Desiccant application

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



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 ExactaBlend AGP Advanced Glazing Proportioner](#) or a [Therm-O-Flow](#).