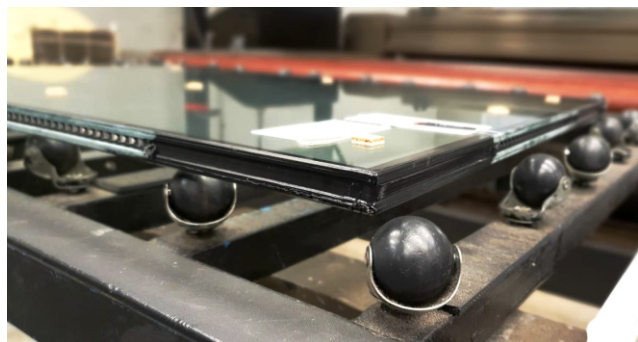
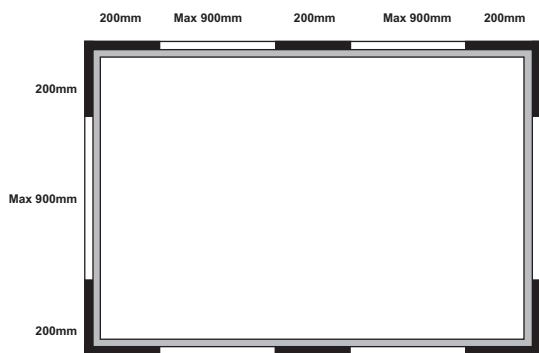


# STITCHED | SEGMENTED

## Sealing of IG Units

In keeping up with global best practice of **warm edge sealing** and world class manufacturing, we have rolled out the stitching of SIG double glazed units.

This entails the segmented sealing which will result in **200mm stitches**.



### **i** Basic Use:

The main manufacturing reason for the stitched/segmented process is to allow the movement of the two individual panels of glass when they expand and contract due to the thermal variations which the glass will experience.

### **i** The Problem:

When a full secondary seal is applied, the air permeability of the sealant can be too high, and therefore water vapor and sealant volatile organic compounds (VOC) may accumulate in the bonding gap between the butyl sealant and the silicone or polyurethane sealant. When warm edge IG units are completely sealed, any water vapour and VOC substances can't escape and these will expand and contract at high and low temperatures respectively. Once trapped, the moisture vapour and VOC's will push the spacer inward, causing displacement and ultimately leading to the failure of the insulating glass unit.

### **i** The Solution:

The stitched/segmented seal allows the water vapour and volatiles to escape from the side to avoid the displacement of the spacer.

### **i** The Benefit:

The stitched | segmented method also prevents larger panels from warping or dislocating during storage, transportation and supports the glass when the correct setting blocks are used during installation.



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