

## **Warm Edge Spacer IGU Has Higher Energy Saving Performance than Aluminum Spacer IGU**

Traditionally spacer bars were aluminum, which is highly conductive to heat allowing it to pass through the window. But Warm edge spacers reduce the amount of heat lost through the sealed unit. They keep the edge of the sealed unit warm, hence the name 'warm edge'. Warm edge (or thermal break) spacers reduce the heat lost around the perimeter of a double glazing window by replacing conventional aluminum with a low heat-conductive material. As with aluminum, thermal break spacer bars are filled with a silicone desiccant to absorb any moisture within the double glazing window and can contain dry air or gas-filled cavities. Thermal break spacer bars further reduce condensation on the room-facing surface of the double glazing window as they transmit less of a temperature difference to the interior pane.



Warm edge spacer bars have the same geometrical form as a metal spacer bar, but are usually made from a fibre-glass reinforced insulation material. An ultra-thin foil lining acts as a barrier to the gas or air trapped within the cavity. Some warm edge spacers are available in an array of different colours (silver and black are common).

## **Specification:**

1. Glass product: Insulated Glass Warm Edge Style
2. Glass thickness: 5+6A+5 ;5+9A+5;5+12A+5; 6+9A+6; 6+12A+6, 6+20A+4.4.3, 8+15A+5.5.3, 6+15A+6+15A+6, etc.
3. Glass substrate: clear tempered glass, ultra clear tempered glass, tinted glass, reflective glass, [Low E tempered glass](#), silkscreen glass, etc.
4. Glass color: can be printed any color as per ARL number
5. Size & Shape: Customized size & shape
6. Production Standard: CE standard

**Shenzhen Sun Global Glass can produce high quality of Low E Insulating Glass with the highest performing double glazing, energy ratings use a combination of Low E glass, warm edge spacers and argon gas-filled cavity (Air filled, vacuum).**



From here you can have very flexible combinations of warm edge spacer IGU, such as: 6MM THK. HS CLEAR TEMPERED GLASS + 15MM A. + 6MM CLEAR GLASS WITH LOW-E COATING #3 + 1.52 PVB FILM+ 5MM H.S. LAMINATED GLASS, 6mm LOW-E TOUGHENED GLASS/16a/TEMPERED GLASS 4mm/16a/LOW-e 4mm TEMPERED GLASS, 5MM TEMPERED GLASS+6A+5MM CLEAR TEMPERED GLASS, etc.

### **Extra Advantage**

A warm edge spacer bar helps improve a window's energy efficiency but it has other important functions. It keeps the panes of glass apart and with sealants and desiccants, should be a gas tight barrier to prevent moisture vapour getting in and insulating gas leaking out of the sealed unit. If the spacer bar doesn't stop moisture vapour transmission and gas leakage, the sealed unit will become energy inefficient and eventually fail completely. Warm Edge Insulating Glass reduces the amount of heat lost through sealed units so you get:

1. Lower heating bills

2.A more comfortable temperature in the home

3.A reduction in the risk of condensation forming at the edge of the sealed unit

**Application:**

Warm-edge spacers are becoming increasingly popular for [commercial IGU windows](#), DUG doors, etc.