



NATIONAL GLASS
DISTRIBUTION



SIG

Sealed Insulated Glass Units

Double Glazing



Double Glazing (SIG)

Sealed Insulated Glass Units

Sealed Insulated Glass Units (SIG's) are manufactured from two or more panes of glass held apart by a spacer and bonded with a hermetic seal, trapping dehydrated air between the glass panes.

Their primary function is to improve the thermal insulating properties of a glazing product, as well as contribute to safety, security and acoustics.

The appearance and performance of SIG Units can be modified by incorporating different glass types and thicknesses, altering the width of the spacer bar.

The benefits and functions of SIG Units include:

- Improved sound reduction
- Improved security
- Improved resistance to wind-loads
- Improved thermal insulation
- Improved solar energy control
- Minimized condensation

A Global Vision

Windows and doors have been targeted as a major energy reduction opportunity in residential and commercial buildings.

Evidence shows that the total amount of thermal emissions can be reduced if SIG units are used. SIG Units are considered to become a major trend for years to come.

Warm Edge Spacer

National Glass Distribution manufactures SIG Units using flexible spacer bars and promote “Warm Edge Technology”, which contributes to energy efficient buildings.

The flexible spacer follows the edge of the glass and is a complete insulating glass spacer system which requires only one start and finish joint. It does not allow heat loss transmission through the spacer bar.

Our spacer performs 8% better than the traditional aluminium spacer.

Test Method: Simulations were performed by Enermodel Engineering Limited using Window 5.2 and THERM 5.2 as per NFRC 100 & NFRC 500.2001

