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# VERTICAL GLAZING of IGUs

- Most Insulating Glass Unit (IGU) failures are caused by incorrect glazing.
  IGU glazing must be in accordance with Section 3 of AS/NZS 4666:2012.

  It is important to follow these basic steps, as detailed under each bullet point, to ensure your IGUs do not fail.

- **DRAINAGE**
  Prolonged contact of the IGU edge seal with moisture must be avoided.

  For drained glazing systems a minimum of three drain holes is required at the sill of the window frame to make sure that water can drain between the setting blocks.
  The holes should be a minimum of 10mm in diameter, or 20mm x 5mm slots, and at a maximum of 800mm centres. The larger the holes the better, and the holes or slots must allow free drainage.
  The top and vertical edges should also be kept free of running water or static water.

  For non drained glazing systems, internal and external bedding seals are required to prevent the passage of water either around or through the seal. Water that passes these seals cannot drain and will cause premature failure of the IGU.

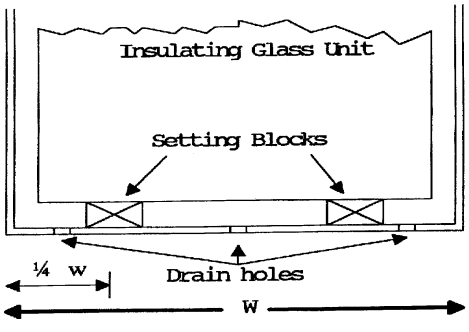
- **SETTING BLOCKS**
  **Setting blocks must be used.**

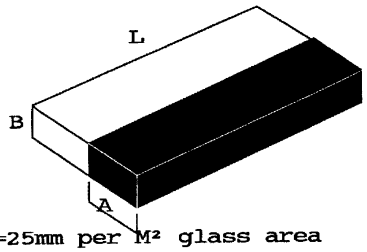
  Use proprietary setting blocks which are suitable for the system and rebate platform and that support both panes of the IGU evenly.
  Use only blocks made from recognised setting block material, (i.e Santoprene, Silicone) with Shore A hardness of 80-90.

  The width of setting blocks must be at least 3mm greater than the thickness of the IGU they are supporting. The setting block must also support the IGU at least 6mm above the frame platform so as to prevent moisture bridging the gap between the frame platform and the IGU sealant.

  Setting block lengths shall be 25mm in length for every square metre of unit glass area, with a minimum length of 50mm.

  Setting block locations should normally be at quarter points, as per the diagram. For alternate positions refer AS/NZS 4666:2012 figure 3.1.




L=25mm per M² glass area
A=Total unit thickness + 3mm
B=6mm normal minimum

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## LOCATION BLOCKS & DISTANCE PIECES

Location blocks shall be 55-65 Shore A hardness and must be used for all doors and opening windows.
They must be at least 25mm long and at least as wide as the thickness of the unit.
The number and position of location blocks is set out in AS/NZS 4666:2012 Figure 3.2.

Distance pieces, if required, shall be 55-65 Shore A hardness, 25mm long and of a height to suit the rebate depth and method of glazing. They are normally spaced opposite each other and 50mm from each corner and at intervals of not more than 300mm apart.

## DIMENSIONAL REQUIREMENTS

The minimum edge cover and clearances are as follows;

| | |
|---|---|
| Edge Clearance | |
| Sill | 6 mm |
| Head and jamb with unit length less than 2m | 3 mm |
| Head and jamb with unit length greater than 2m | 5 mm |
| Protrusions (e.g. screw heads, rivets) | 3 mm |
| Edge Cover | 12 mm |
| Front and Back clearance (including protrusions) | 2 mm |

## PROTECTION OF EDGE SEAL

The Insulating Glass Unit edge seal must be protected from UV light by keeping it inside the glazing rebate, or by using a protective strip or edge banding.
Do not make setting blocks so high that the unit spacer at the sill is exposed to sunlight.

In special applications silicone secondary seal units may be used to overcome this issue.

**Note:** For more information contact your IGUMA member supplier .

## COMPATIBILITY

If the glazing method involves contact between the IGU edge seal and a glazing material, contact your IGUMA member supplier to check for compatibility of the sealants.
Incompatible glazing materials can lead to failure of the IGU edge seal.

**Note:** For more details on IGUs, and full warranty requirements contact your IGUMA member supplier .

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