

## Glass and Glazing Federation Guidelines

### Quality of Vision

Insulating Glass Units (IGUs) commonly known as "Double glazing" provide a high standard of vision.

The following is a guide to the quality that can be expected.

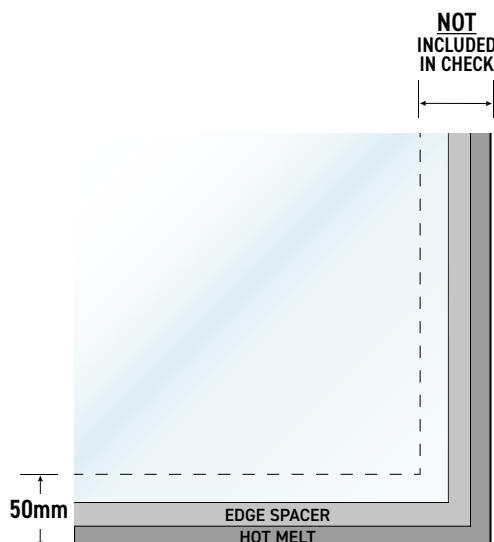
Glass used in the manufacture of IGUs is similar to that used traditionally for single glass and will, have a similar level of visual quality.

**Viewing IGUs for scratches on the outer faces of the panes must be carried out before any rendering, plastering or other works adjacent to the glazing takes place, and as early as reasonably practicable following installation.**

### How to do a professional check

Stand no less than 2 metres away from the IGU and look directly through it.

- For toughened, laminated or coated glass, stand no less than 3 meters away.
- Check in natural daylight, but not faced directly towards the sun and ensure there is no visible moisture on the surface of the glass.
- Where it is not possible to stand at the right distance then stand as far away as you can from the IGU.
- Glass must be viewed at 90° to its surface.
- **Exclude a 50mm** wide band around edge of the glass from the check.



### What to expect when viewed as described

Flat transparent glass, including laminated, toughened or coated glass is acceptable if the following are neither obtrusive nor bunched:

- bubbles or blisters
- fine scratches not more than 25mm long
- minute particles

The obtrusiveness of blemishes is judged by **looking through the glass, not at it**, under natural light. It must be understood that the glass used in double glazing is a processed glass, and blemishes are to be expected.

**Insulating glass units with optical defects such as smears, finger prints or other dirt on the cavity faces of the glass, or extraneous material in the cavity are not acceptable, except in some cases where small particles of desiccant can be seen.**

### Special glasses

Toughened glass may show visual distortions which are accentuated by reflections in double glazing. Such surface colourations and patterns do not indicate a change in physical performance

Laminated glass may have a few more blemishes due to it being made of several layers.

Low emissivity coating may produce transient visual effects. In some lighting conditions the coating may look like a transparent film or produce a haze, ie a cloudy look to the surface. When light coloured objects such as net curtains are placed close to the glazing they may look slightly darker.

### Double reflection

This occurs in certain light conditions. It is caused by multiple surface reflections in double glazing which may vary from pane to pane.

### Brewster's Fringes - the rainbow effect

Small transitory rainbow effects are sometimes produced by the glass refraction of light.

Their appearance is due to high quality flat glass sheets being placed parallel to each other.