

Visual Quality Inspection For Satin Glass Sealed Units

AREAS TO BE INSPECTED

REBATE ZONE

The area typically hidden within the glazing pocket approximately 25mm wide from edge of glass. This area is exempt from inspection.

EDGE ZONE

25mm band between the rebate zone and the main zone. This will be checked for seeds bubbles scratches or marks. Only defects over 2mm will be rejected within this zone unless in a cluster measuring 3mm or over is visible.

MAIN ZONE

This is the primary viewing area of both panes of glass for double glazing or a single pane. Inspection will take place as below.

INSPECTION

All sealed units must be viewed at a distance equivalent to 2 meters or 3 meters when coated glass is used looking through the panes at 90 degrees to the surface. This inspection should take place without direct sunlight, but in good light conditions to simulate looking through a window.

REJECTS

Any mark or scratch visible upon the above inspection must be more than 1mm in length and not within edge zone of the unit to be deemed as rejects. Any seed or bubble in float or toughened glass measuring more than 1mm should not be visible within the central viewing area (inside the edge zone) from the above inspection and therefore would be rejected. Any debris, mark, or damage on the spacer bar visible upon the above inspection will be deemed as a reject.

EXCLUSIONS

Any shadow, ghosting or rainbow effect may be inherent with certain products and as such should not be rejected. Any mark that needs the viewing angle to vary before it becomes visible should not be accepted as a reject. The Satin coating applied to the glass is highly susceptible to marking in the manufacturing process. The uniformity of the Satin process cannot be guaranteed with isolated areas appearing either clear or black in appearance are acceptable. If the spacer bars do not line up perfectly, this will not affect the performance of the unit, a tolerance of 2-3mm is acceptable.

SUMMARY

Any inspection which takes place should adhere to the above guidelines for glazing, an element of common sense should apply, Units which are going to be glazed in a roof or at a high level etc will obviously allow leniency within these guidelines. All sealed units can be highly reflective especially when coated products are used i.e. soft coat or solar control glass. These products may highlight imperfections, curving and ripples in the glass, this will not be deemed as fault as they can be unavoidable.

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