

# Glare

Data Sheet v1

## Quick facts

- Glare causes discomfort – this is why people wear sunglasses and tint windows on cars.
- Glare does not affect all people or all homes.
- An assessment of where glare may be an issue should be carried out to identify direct sunlight and reflective surfaces.
- Limiting glare does not have to mean limiting light.
- Limiting glare will also reduce heat gain and ultraviolet light.
- Solutions that limit glare will also increase privacy.

## Glare solution

- Use a tone glass – think of it as sunglasses for the home.

## Glare basics

Many design features of modern homes enhance uncomfortable glare:

- Paved areas
- Swimming pools
- Rendered external walls
- Light interior walls
- Large windows
- Timber floors
- Tiled floors
- Open plan living
- Stainless steel surfaces and appliances

## Reducing glare

Solution	Result
Shutters – exterior or interior	<ul style="list-style-type: none"><li>● Ongoing maintenance</li><li>● Makes the room dark</li><li>● Changes the look of the house</li></ul>
Blinds or curtains	<ul style="list-style-type: none"><li>● Ongoing maintenance</li><li>● Makes the room dark</li></ul>
Deeper eaves	<ul style="list-style-type: none"><li>● Only available at the design phase of the house</li></ul>
External pergola or shade cloth	<ul style="list-style-type: none"><li>● Ongoing maintenance</li><li>● May not fit with the overall house design</li><li>● May make the room significantly darker</li></ul>
Tone glass	<ul style="list-style-type: none"><li>● Unobtrusive – you do not recognise you have it</li><li>● Limited change in darkness of the room</li></ul>

## Tone glass – solves glare and more

### The fear of darkness

Some people are concerned that tone glass makes a room dark. The impact of tone glass can be measured through the “light transmission percentage” of the glass. This is the percentage of visible light passing directly through the glass. As the table below shows there is only a small difference in the light transmission between clear and tone glass. This will have no discernible impact on the lightness of the room.

Glass	Light transmission %
4mm clear	89%
4mm tone (green)	81%

### Additional benefits of tone glass

Beyond glare, tone glass offers the following additional benefits:

- Reduces heat gain in the house by 25–30%
- Reduces fading
- Incorporated into laminated glass it:
  - ▶ Increases safety
  - ▶ Increases security
  - ▶ Reduces fading even more
- Incorporated into an IGU increases home comfort and reduces energy costs

### Colour options

Tone glass is available in different colours:

- Grey
- Bronze
- Green
- Super Green

The choice between the colours is largely aesthetic as the performance characteristics are broadly similar.

Super Green is a high performance tone glass – similar to adding polarised sunglasses to your home. It couples a low solar heat gain coefficient with high light transmission without the use of surface coating. Its soft green colouring offers a crisp, clean view of the outside and a cool, comfortable environment inside.

## Stegbar glare solution range

### Glass

Any of the following can be toughened, included in a laminated solution or in an IGU solution.

Glass colour	Glass thickness	Light transmission %
Grey	4	56
Grey	5	48
Grey	6	42
Bronze	4	60
Bronze	5	55
Bronze	6	50
Green	4	81
Green	5	79
Green	6	76
Super Green	4	73
Super Green	5	73
Super Green	6	66

### Pricing

Windows featuring a Stegbar glare solution will cost more than a basic window glazed with 4mm clear glass. The percentage below should only be used as a rough guide to the likely premium. This is based on a 1m × 1m single lite window, and will vary depending on size and mandatory glass requirements designated by Australian Standards.

- 4mm tone glass – 5%
- 4mm tone high performance glass – 14%



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