

KristalClearTM

Low Iron Glass

solos  glass
see the possibilities

KristalClear™ Low Iron Glass

KristalClear™ is a low iron float glass which consistently provides market leading levels of transparency, light transmission, clarity and visual brilliance not found in standard clear float glass of comparable thickness.

Crisp, clear, brilliant

The superior light transmission, clarity and distinctive edge is achieved through the use of sand with much lower iron oxide content being used in the batch mix when the glass is manufactured on a float line.



Available in thicknesses from 4mm through 19mm, KristalClear™ Low Iron float glass is a specialist ultra clear glass offering the highest possible levels of light transmission and visual clarity combined with a stunning, clear, crisp edge differentiating it easily from the dull green edge associated with standard clear float glass.

KristalClear™ Low Iron Glass

Absolute clarity...regardless of thickness

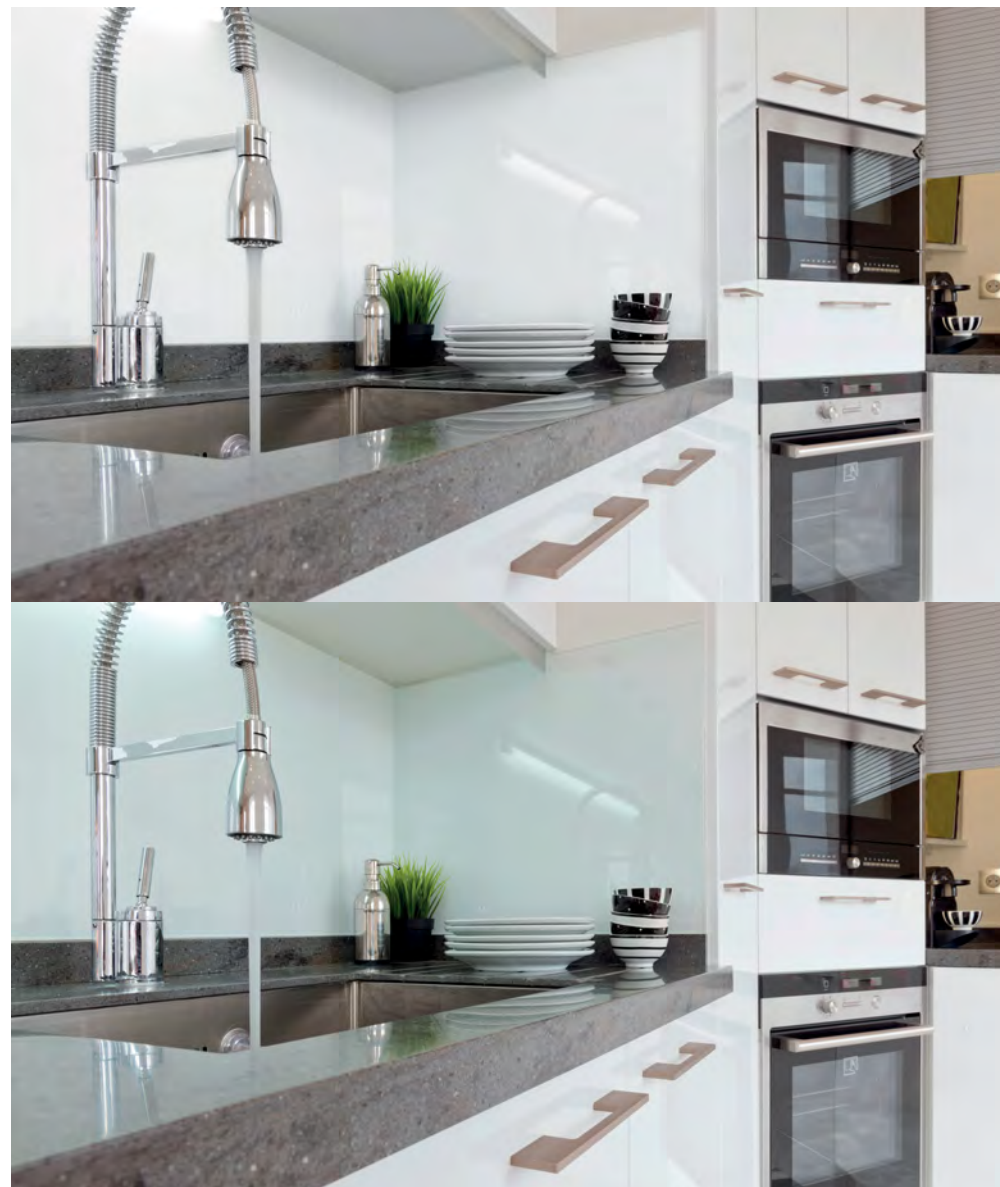
As the thickness increases through the range of KristalClear™, the difference in clarity between it and clear float glass becomes apparent. The light transmission of KristalClear™ remains constant through the thickness range whilst the green hue on the edge of the standard clear float glass is increasingly evident in combination with reduced light transmission as the glass becomes thicker.

Maximise Light Transmission

KristalClear™ maximises light transmission through the glass for applications where optimal visual appearance is required. Whilst KristalClear™ has a high SHGC, the high levels of light transmission can assist in maximising passive solar heat gain, making it an ideal product for the external pane of an IGU, especially in cool or cold climates.

True Colour Representation

When painted, especially with lighter colours such as white, light or neutral tones, KristalClear™ helps facilitate a much more true and accurate representation of the painted colour. White appears white, not a white with a light green hue.



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Applications - Residential

Easily toughened, laminated, painted or processed, with its high levels of light transmittance, true colour transmission and crisp, clear edges, KristalClear™ redefines the effects of light and space.

Highlighting that safety can also come with style, KristalClear™ is perfect for use in:

Splashbacks



Frameless shower screens



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Applications - Residential

Staircases



Balustrading and pool fencing



Furniture/Shelving



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Applications - Commercial

Safety & Security

For safety and security applications where extra protection is usually required through the use of multi laminated thicker glass, KristalClear™ provides a level of clarity, trueness of colour and lack of distortion not found in such products utilising standard clear float glass. Many applications go hand in hand with the need for security, high light transmission and superior visual clarity; zoological enclosures, aquaria, museums and retail jewellery locations are but a few of many examples.

A key property of KristalClear™ is that the level of light transmission is virtually identical regardless of thickness, ie the level of light transmission for 4mm KristalClear™ is 91%, the level of light transmission for 19mm KristalClear™ is 90%.



Shopfront Glazing

With outstanding brilliance and high levels of light transmittance, KristalClear™ used in shopfronts and retail environments lets the true colours and appearance of goods shine through to the consumer. Easily laminated for safety, UV protection and security, KristalClear™ is the ideal shopfront glazing solution.



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Comparitive performance data

Glass Thickness	Light Transmission %	
	EnviroClear™	KristalClear™
4mm	89	91
6mm	87	91
8mm	86	91
10mm	85	91
12mm	84	91
15mm	82	91
19mm	80	90

KristalClear™ single glazed performance data

Nominal thickness	Visible Light (%)		Solar Energy (%)		UV Trans. (%)	SHGC	U Value
	Trans.	Refl.	Trans.	Refl.			
4mm	91	9	90	8	78	0.90	5.90
5mm	91	9	89	8	72	0.90	5.90
6mm	91	9	88	8	74	0.89	5.80
10mm	90	9	86	8	66	0.88	5.70
12mm	90	9	86	8	66	0.88	5.60
15mm	90	9	83	8	57	0.86	5.50
19mm	90	9	82	8	54	0.85	5.40

Benefits

- Very high light transmittance of up to 91%
- Outstanding clarity and brilliance of appearance
- Clear edge with a distinctive light blue hue
- True representation of light and neutral colours when painted
- Easily toughened, laminated or edge worked.
- Maintains the same colour throughout the full thickness range
- Distortion free when laminated due to the high levels of light transmission

Applications

- Aquaria
- Balustrades, staircases
- Entrances, atria and reception areas
- Facades
- Frameless shower screens
- High security glazing applications such as jewellery stores, museums, exhibitions
- Splashbacks
- Shopfronts and retail furniture
- Zoological viewing areas