

Risk of Haze in Hardcoat LowE Coated Glass

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This information is offered as a general awareness of an appearance characteristic that can be seen in Hardcoat LowE coated glass (Pyrolytic coated glass).

Glass allows Visible Light to pass through and fill your building with natural light. It can also allow high clarity to see your view through the glass without interruption.

By modifying regular clear glass, we can enhance performance in certain areas. For example, adding a LowE coating to the glass can excel its Insulation properties (lower U-Value) and Solar Control abilities (lower SHGC), but this can also affect its Visible Light and Clarity characteristics.

Visible Light from the Sun will travel towards glass in our buildings and a percentage of that light will be instantly reflected away upon impact, some of the remaining Light will then be absorbed in the glass and the remaining amount will transmit inside the building. It is due to the scattering of light that we can sometimes see an aesthetic haze (milky/cloudy look).

While all glass types scatter light, it is Hardcoat LowE coated glass (Pyrolytic) that comes with the highest risk of seeing this with the naked eye due to their unique Indium Tin Oxide metal coating that is applied via the Chemical Vapour Deposition process (CVD).

The visibility and intensity of this haze will also depend on the environment it is in. Direct strong sunlight and a dark background inside will show more haze than non-direct or weak sunlight. You may also see differences if the one pane of glass if half is receiving direct sunlight and half is shaded.

The products in our range that uses Hardcoat LowE coatings are:

- **Insulglass Select**[®] - a full range Hardcoat LowE products in an Insulating Glass Unit (IGU)
- **AGGLam**[®] **Energy** - a range of Hardcoat LowE laminated products
- **AGG Hardcoat LowE Single Glaze Glass Products** – a range of monolithic Hardcoat products

If you have any concerns about these product range or further questions, please email specify@agg.com.au

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AGG NSW

140 Gilba Rd
Girraween, NSW
P: (02) 9896 0566
F: (02) 9896 0190

AGG VIC

81-83 Rushdale St
Knoxfield, VIC
P: (03) 9730 7400
F: (03) 9730 7488

AGG TAS

39 South Arm Rd
Rokeby, TAS
P: (03) 6247 1625
F: (03) 6247 6843

