



For further information,  
Please contact

Corporate HQ - Australia  
[www.iGlass.biz](http://www.iGlass.biz)

Europe  
[www.iGlass-europe.com](http://www.iGlass-europe.com)

North America  
[www.iGlass-usa.com](http://www.iGlass-usa.com)

China  
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[www.iGlass-indonesia.com](http://www.iGlass-indonesia.com)

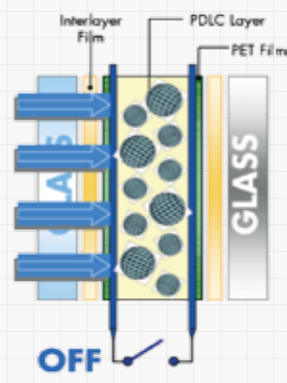
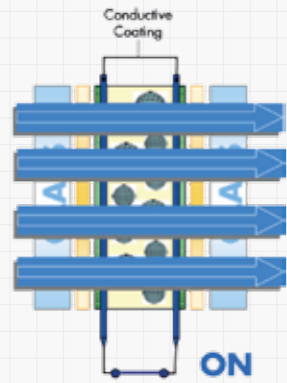


# Product

## Switchable Glass

Liquid Crystals are dispersed within a formulated polymer matrix enabling the particles to be aligned parallel in respect of each other when the flow of electricity occurs. When the flow is stopped the crystals return to their original position (randomly orientated to each other), blocking the flow of light. Liquid Crystal Polymer coated film is then laminated between 2 glass panes to become laminated switchable glass.

## Privacy and Comfort at the flick of a switch.



**COMMERCIAL BOARDROOM**  
Amsterdam, Holland



iGlass®

**EUREKA SKY DECK - THE EDGE**  
Melbourne, Australia

# Specification

## Switchable Glass

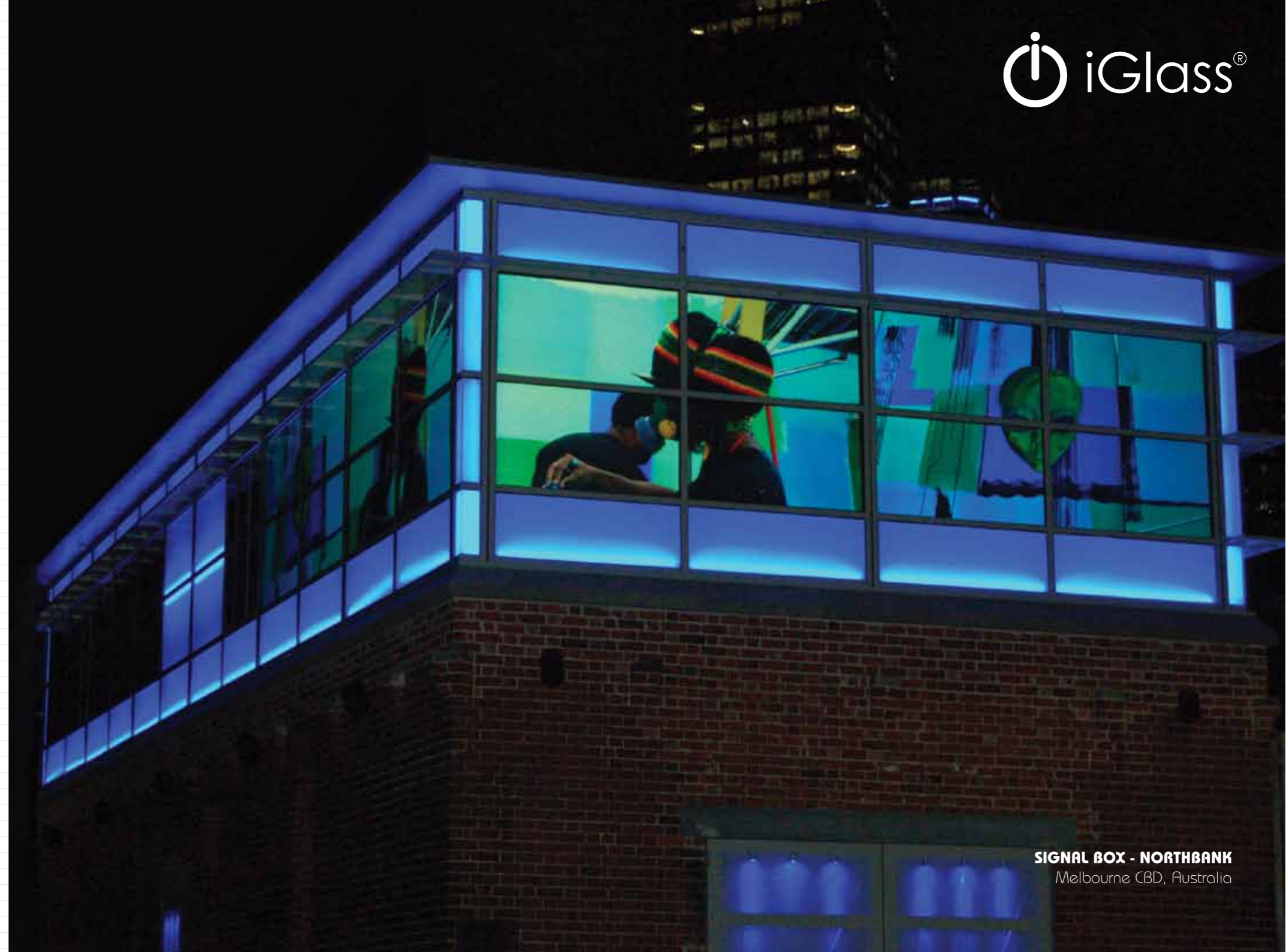
Grade A safety Glass (complying with AS2208, ANSI Z-26, EN 12600)

For custom engineered facades, media facades, 6 star energy rating product, please contact us.

## Electro-Optical

Performance*	On/Transparent	Off/Opaque
Light Transmittance	78%	53%
Haze	5%	90%
Power Consumption	3.5-5W/m <sup>2</sup>	0
Operating Voltage	110V	0

\*measurements carried out using 4mm + 4mm iGlass Laminate with clear float



# Switchable Medical Glass

## Privacy

Instantaneous privacy control within 1/50th of a second!

Legislative changes within some jurisdictions are demanding more control of privacy for the patients who cannot control privacy on their own within health care environments.

Intensive Care Units  
High Dependency units  
Emergency rooms  
Adolescent Rooms  
Neonatal Wards and ICUs

## Monitoring

Instantaneous ability to visualize patients within 1/50th of a second!

Reduced staffing levels during night-time are a challenge for care-givers to visualize patients and their behaviour to provide optimal care and attention. Using iGlass Switchable Medical Glass, architects are increasingly designing dynamic walls. Patients can be seen with one sweeping glance of the ward or unit with the glass turned ON.

## Improved Patient Recovery

It has been demonstrated to improve patient recovery from operations and intensive care when patients are allowed to see activities outside through glass. Seeing trees, sky and other living activities encourages the patients to increase their will to recover.

## Improved Health Care Worker Productivity

Instantaneous privacy control within 1/50th of a second. Traditional hospital design has used opaque walls; hence no natural light enters through to the working space of health care worker. Designers are now widely seeking materials like switchable medical glass, which enables daylight harvesting and instantaneous control of privacy to improve their working space, which, in turn enhances productivity of health care worker.

## Improve Health Care Budget

Reduction of maintenance cost – by using switchable medical glass, there is no need to furnish the windows with curtains and blinds which consumes significant amount of health care dollars due to maintenance and replacement costs.

Improved hygiene – bacteria and viruses are transmitted in the hospital often via care-givers to patients. By reducing elements that require touching (e.g. when drawing curtains) within the design, less bacteria and viruses are transmitted via this way. iGlass switchable medical glass can also be made with TiO2 coated glass to enhance the effect of anti-microbial activity at the surface of the glass. Less infection rate will equate directly to less patient time in the hospital and complex treatments from infections.



**MEDICAL STAFF MEETING ROOM**  
Victorian Health, Australia



**CORONARY CARE UNIT**  
Victorian Health, Australia