

Peter Lyons & Associates

ABN 84 160 401 737



Building Energy Consultants
Window Energy Simulation Laboratory
NFRC Partner Country Certified Simulator

Energy Simulation Rating Report

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Product Manufacturer

/ Dealer: Biotech Australasia Pty Ltd

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Frame Type: Not Applicable (glazing/shading system only)

Operator Type: Not Applicable (glazing/shading system only)

Glazing System: Clear 4mm glass outer layer with In'Flector® inner layer (as defined below)

Model/series: In'Flector® - PRELIMINARY REPORT

Modelling software: Optics 5.1.(Maintenance Pack 2)
WINDOW 5.2.17a

Product	Glazing System	U-value (W/m2.K)	Solar Heat Gain Coefficient (SHGC) (-)	Visible Transmittance (VT) (-)
In'Flector centre-of-glass (no frame)	4mm clear glass (IGDB #9802) outer 50mm air gap In'Flector inner	2.7	0.39	0.24

Signature of Simulator
In-Responsible-Charge:

A handwritten signature in black ink, appearing to read 'Peter Lyons'.

Notes:

1. Energy Rating properties on Page 1 of this report are based on NFRC 100-2001 environmental conditions and were generated using current versions of Optics 5.1 and WINDOW 5.2. These environmental conditions are for benchmarking purposes only. Peter Lyons & Associates (PLA) does not imply or claim that the product simulated in this report will necessarily perform as stated in actual, variable conditions of use.
2. Calculations in this report were performed with WINDOW 5.2 rather than WINDOW 6.2 'Research Version', pending resolution of several issues with the latter.
3. Energy Rating properties on Page 1 of this report refer to 'centre of glass' region, without frame. Calculations are based on specular optical properties only (no diffuse transmission or reflection).
4. Calculations in this report assume air space between glass and In'Flector is well sealed.
5. Information in this report does not meet the full reporting requirements for NFRC certification. This report should be regarded as a research-grade, partial report.
6. Spectral data supplied by Client and based on average over three samples. Spectrophotometric measurements supplied by Optical Data Associates. Wavelength range: 0.3 μ m - 25 μ m.
7. Rated properties are based on NFRC technical procedures NFRC 100-2004 (U-factor) and NFRC 200-2004 (Solar Heat Gain Coefficient). The terms "U-factor" and "U-value" are synonymous.
8. This report does not constitute complete certification of this product and only relates to the glazing system simulated.
9. Rounding of values in this report is 1 decimal place for U-factor and 2 decimal places for SHGC, per NFRC unit conversion and rounding policy, modified for the needs of SI units.

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