

Manufacturer's Statement - Building Code of Australia 2013

Solatube Australia is pleased to present this Manufacturer's Statement to assist when selecting a daylight solution to meet the Building Code of Australia (BCA) 2013 and the 6 Star Energy Rating Requirements.

Solatube Australia is a Tubular Daylighting Device manufacturer utilising complex optic technologies to advance the daylight Capture, Transfer and Delivery process. Solatube Australia's Tubular Daylighting technology provides unmatched lighting results with highly efficient thermal performance.

Solatube Tubular Daylighting Devices have been tested by the National Fenestration Ratings Council (NFRC). NFRC testing is recognised by the Australian Fenestration and Ratings Council (AFRC); as required by the 2013 Building Code of Australia. The following table is a guide to assist in product selection.

(The 'e' included in the product description is the inclusion of the Solatube developed 'eChoice' accessory).

What is eChoice?

eChoice is a scientifically developed insulating plate similar to double glazing in window construction that improves the thermal performance of Solatube TDDs. It consists of two clear perspex plates that are held apart by four supporting clips. When installed, it is positioned above the TDD diffuser and delivers the required BCA 2013 thermal performance for compliance.



Also refer to Manufacturer's Statement – 2013 –Solatube eChoice Bulletin No: MS3 – 2013 May

| Solatube TDD Product Specifications | Solatube® 160DS ^e | Solatube® 290DS ^e | Solatube® 160DS | Solatube® 290DS |
|---|---------------------------------|---------------------------------|----------------------|----------------------|
| | SHGC | U-Factor | SHGC | U-Factor |
| Thermal Performance NFRC tested (Test Certification numbers available) | 0.20 | 2.61 | 0.27 | 3.46 |
| EDCS (Effective Daylight Capturing Surface)* This represents the surface area of the dome that collects and redirects sunlight *EDCS can be used to calculate the aggregate light transmitting area | 1032 cm ² | 1871 cm ² | 1032 cm ² | 1871 cm ² |
| Complies with 2013 Building Code of Australia 3.12.1.3 (b) (ii) | ✓ | ✓ | | |
| Complies with 2013 Building Code of Australia Table 3.12.1.2 | ✓ | ✓ | ✓ | ✓ |

U-Factor measures how well the skylight prevents heat escaping an interior space. It measures the rate of heat transfer through a building element over a given area under standardised conditions. The lower the U-Factor, the better a product performs thus resulting in reduced heat transfer.

Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the skylight and measures its ability to block solar generated heat. A lower SHGC rating will result in less transfer of solar heat within building interiors.

More technical and specification information on Solatube Tubular Daylighting Devices can be found on the Solatube Australia website www.solatube.com.au