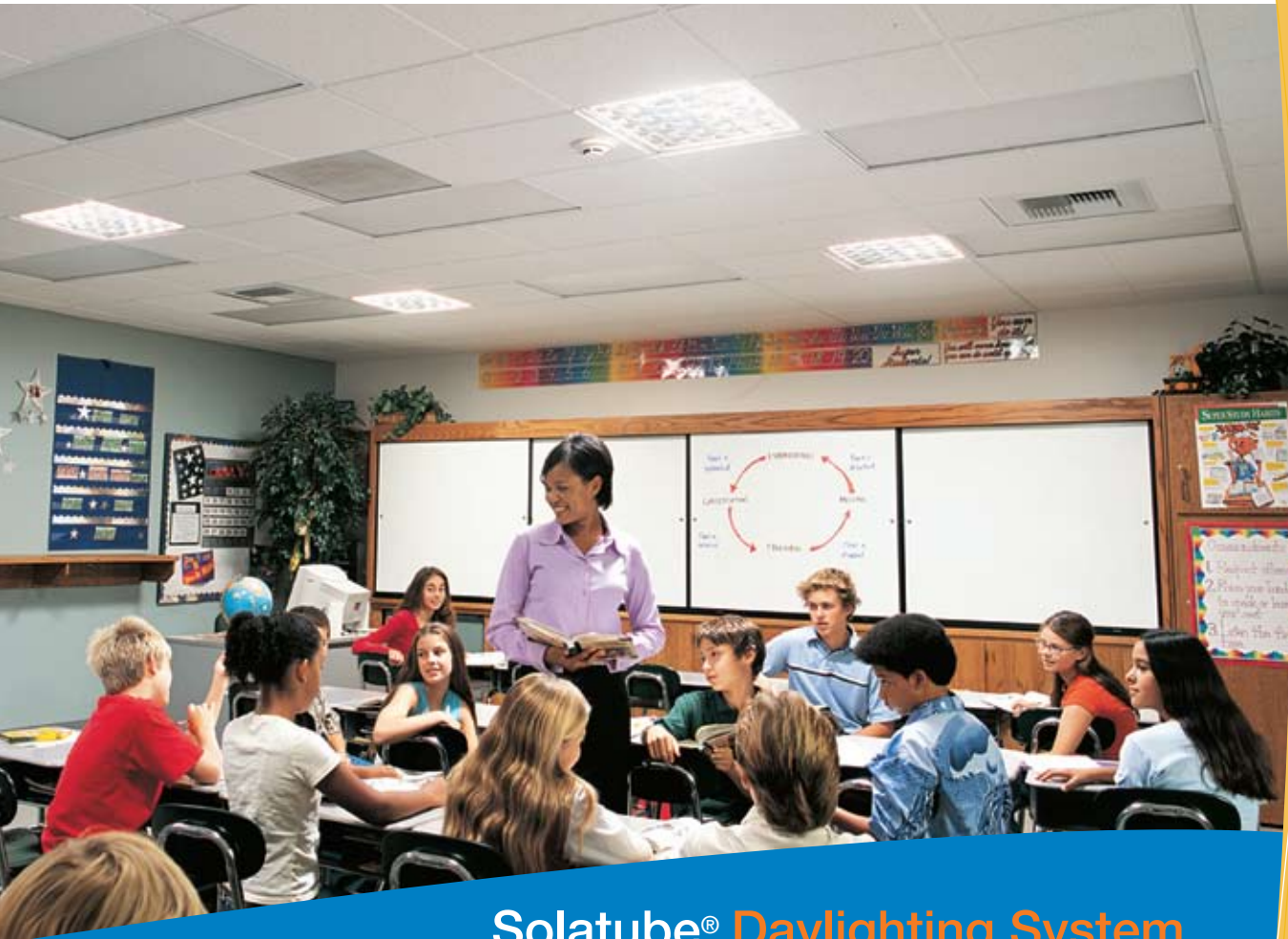


EDUCATION



Solatube® Daylighting System

# Sustainability & Improved Student Performance with Natural Light

Sustainable Schools: Environmentally • Economically • Socially





### Benefits of Solatube TDDs

- NFRC APPROVED - THE ONLY DAYLIGHTING SYSTEM IN AUSTRALIA THAT HAS BEEN TESTED AND CERTIFIED FOR ITS ENERGY EFFICIENCY
- THE BRIGHTEST, PUREST, NATURAL LIGHT AVAILABLE TODAY
- USES THE RENEWABLE ENERGY OF THE SUN
- CONTROLLABLE DAYLIGHT OUTPUT
- SEAMLESS, LEAK-PROOF FLASHINGS
- DAYLIGHT MULTIPLE FLOORS WITH LONG TUBE RUNS
- EASY TO RETROFIT
- ENERGY SAVING & SUSTAINABLE



## Now you can control the daylight

### CONTROLLING STUDENT'S, THAT'S ANOTHER STORY

If uncontrolled direct beam radiation is streaming through a classroom window and into a student's face, the teacher will simply close the blinds and negate the existing daylighting strategy. Excessive light may also cause heat loading and increase ventilation costs.

Solatube's energy rated tubular daylighting device (TDD) now addresses the three major challenges that are critical for any sustainable lighting design:

Light control, Heat and Glare.

The Solatube Daylighting Experience can be optimised and controlled with options including Daylight dimmer, Inner shock dome and Security bars.

Solatube daylighting devices set performance standards as never seen before. Illumination consistency and energy efficiency are achieved through technological breakthroughs. Advanced optics are used to significantly improve the way the renewable energy of the sun is harnessed to daylight learning environments.



## superior daylighting and educational benefits

### Case Study: Taking TDDs to School

Kinard Junior High School used tubular daylighting devices with prismatic diffusers to light its striking and energy-efficient classrooms. Stu Reeve, energy manager for Poudre School District said, "By reducing our energy costs, we can put the money we save back into the classroom where it belongs."

**Project:** Kinard Junior High School

**Products used:** 66 Solatube 530mm Daylighting devices and 43 Solatube 350mm Daylighting devices

**Result:** Tubular daylighting devices were specified in the classrooms, corridors, and restroom areas of the high school. The product was installed in both the north- and south facing classrooms, complementing the natural light coming from the windows. The use of TDDs in the upstairs corridors and restrooms eliminated the need for electric lighting in these spaces during the school day.

### How Solatube TDDs meet the requirements for the National Solar Schools grant:

- Solatube provides a lesson plan for the educational benefit.
- The insulated, energy star rated tubing has been NFRC certified for its high performance; any further shaft insulation is not necessary but can be added if desired.
- Only Solatube TDDs come with certified results including detailed heat load assessments.

### CREATE OPTIMAL LEARNING SPACES WITH NATURAL LIGHT

#### Tackle climate change with Australia's National Solar Schools Grant

The Government's National Solar Schools program replaced the Green Vouchers Program and provides eligible schools with up to \$30,000 for the installation of renewable energy generators such as energy efficient lighting. The program started in July 2008 and runs until 30 June 2015.

Our technical experts provide a free assessment of your facility, determine the light output that can be expected and deliver a personalised design. They will look after your enquiry from the planning stage to the installation and can assist you with the registration for a grant.

For further information about the *National Solar Schools Program*, visit the DEWHA (Department of the Environment, Water, Heritage & the Arts) website [www.environment.gov.au](http://www.environment.gov.au).

Click on 'Human settlements - Renewable Energy', and follow the links to *National Solar Schools*. Alternatively, contact the DEWHA hotline 1800 703 831 or by email at [nationalsolarschools@environment.gov.au](mailto:nationalsolarschools@environment.gov.au)



### IMPROVE STUDENT PERFORMANCE

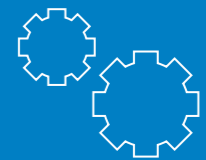
A study conducted for the Pacific Gas & Electric Company tested 21,000 students in three US states and found that those in classrooms with the most daylighting progressed 20% faster on math tests and 26% faster on reading tests in one year than those with the least daylighting.

*Heschong Mahone Group*  
"Daylighting in schools" Report, 1999



### CREATE A HEALTHIER INDOOR ENVIRONMENT

A one-year Swedish study of 90 school children found that the lack of daylight negatively influenced children's ability to concentrate and cooperate and may eventually impact annual body growth and sick leave. *National U.S. Renewable Energy Laboratory Report, "Daylighting in Schools: Improving Student Performance and Health at a Price Schools can afford," 2000*



### INCREASE ATTENDANCE

Daylit education facilities maintain the most productive and healthful workplace for teachers and students. Productivity gains of 6 - 16% including decreased absenteeism and improved quality of work. An increase of just 1% in productivity can result in savings that exceed a facility's entire energy bill.

More Daylighting Facts & Figures are available on request.

## Codes and Approvals

The Solatube Daylighting System is the only Natural lighting system available in Australia that is NFRC approved, tested and certified by international approval agencies for its effectiveness and guaranteed energy performance. Test results include U-Value metrics and Solar heat Gain Coefficients (SHGC).

Solatube Daylighting systems comply with the latest government regulations for green building and can help a project to attain points towards Green Star certification.

Rest Assured that the Solatube Daylighting System can be used in your project without any hassles.

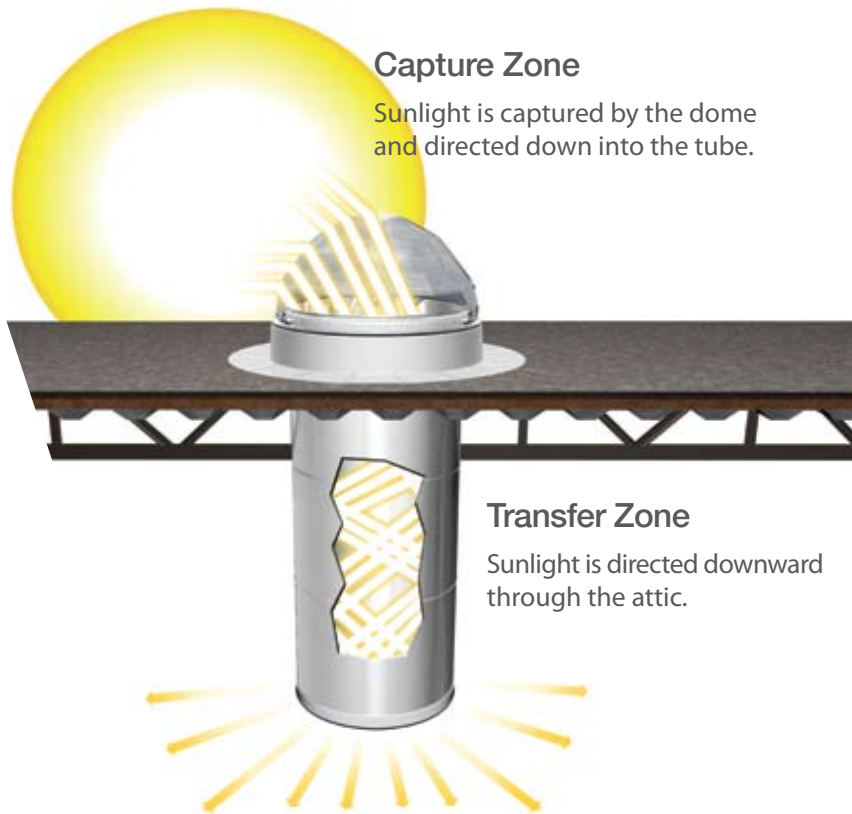


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Year Warranty



green building council australia  
MEMBER



### Capture Zone

Sunlight is captured by the dome and directed down into the tube.

### Transfer Zone

Sunlight is directed downward through the attic.

### Delivery Zone

Sunlight is distributed throughout the interior space.



Call our Commercial experts today on 13 16 19  
or email to [info@solatube.com.au](mailto:info@solatube.com.au)



**SOLATUBE**  
Innovation in Daylighting™

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