



## Residential School Dorset

### Project Brief:

Set in rural Dorset, this residential school for students with autistic spectrum disorders selected Vent Engineering to provide a solution to reduce the excessive solar gain in the schools canteen area. A Natural Ventilation System was required to improve the environment for staff and pupils



### Products Used:

- 16 x 230v Chain Actuators
- 1 x Ventec Temperature and Rain Controller
- 4 x Zonal Override Switches
- 1 x Ventec CO<sup>2</sup> Monitoring System
- 16 x Finger Protect Panels



Natural Ventilation has been used for thousands of years to keep buildings cool. A Natural Ventilation System from Vent Engineering is the preferred option for schools and public buildings because it is economic to install, easy to control and has minimal operating costs compared to mechanical systems.

Reduced ongoing maintenance costs ensure that a Natural Ventilation System from Vent Engineering will deliver effective ventilation with ongoing economy for many years to come.

“ The completed installation was neat, unobtrusive and very easy to use. Everybody that uses this room will feel the benefits of this investment. ”

Project Manager

230v

16

Actuators

Rain, Temperature & Wind Sensors

Zonal

Ventec CO<sup>2</sup> Monitoring System

Finger Protect

# Residential School

## Case Study

# Natural VENTILATION



Vent Engineering's unique Ventec controller with temperature and rain sensors, ensures that the staff at the school can select a fully automatic mode to open and close the windows at user-definable lower and upper temperatures or can control them manually to open and close the vents at their own discretion.



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The **Ventec CO<sup>2</sup> Monitoring System** is programmable for the school's exact requirements. It will monitor CO<sup>2</sup> levels and incorporate regular air changes to insure that there is a healthy, productive and comfortable indoor environment for pupils and staff alike.



**Finger Protect** was chosen because it prevents hands being crushed by a closing window. **Finger Protect** works by monitoring the actuator's ampage and reverses 25/50mm when activated and then stops. **Finger Protect** has been used in many buildings where access to low level windows is possible.

Case Study

