

Supply and installation of Windvent Terminals at Castle Hill Primary School

“ Typically our clients choose to have our Windvent Terminals powder coated Grey. This project was different as the architect chose to use bright, coloured terminals and introduce them as a feature on the building.

Denny Walker,
Contracts Director,
Midtherm Engineering

”



AT A GLANCE

Company: Castle Hill Primary School

Industry Sector: Education. Castle Hill is an academy in Chessington, Surrey that caters for children from nursery level through to Year Six.

The Challenge: To provide an aesthetically pleasing ventilation solution ensuring all classrooms are adequately ventilated.

Solutions and Services:

- 8 NVS Windvent terminals in 8 classrooms
- 2 NVS Windvent terminals in the dining hall
- 2 NVS Windvent terminals in the bulge room
- Terminals provided in a range of colours
- Windvent intelligent control system provided.

The Benefits:

- All 12 units provided in different colours to look like a rainbow.
- Energy efficient solution compared to typical air conditioning.



Installed Windvent terminals

THE CHALLENGE

Natural ventilation has been proven to help improve staff and pupil productivity and, as a relatively new build establishment, Castle Hill wanted to make sure all of its classrooms were adequately ventilated.

It was looking for a solution that would be aesthetically pleasing too.

THE SOLUTION

Our Windvent natural ventilation units offer a greener approach and are a more cost effective alternative to typical air conditioning.

Our Windvents provide air that is fresher and cooler. The control systems provided make the units capable of ensuring temperature and CO2 levels within Castle Hills classrooms are maintained.

Working alongside ECD Architects we installed:

- 8 NVS Windvent terminals in 8 classrooms
- 2 NVS Windvent terminals in the dining hall
- 2 NVS Windvent terminals in the bulge room

In addition to fitting the 12 units at various locations around the site, we also fitted our Windvent intelligent control system, which the school uses to operate its natural ventilation system.

As with most ventilation systems, the terminals we fitted were positioned up on the roof. We used a telehandler to lift them up and then members of our team carefully moved them into their final position by hand. Typically our Windvent terminals are positioned at roof level using a crane however site restrictions meant a crane could not be used on this occasion.





ADDED VALUE

Being the industry leaders that we are, we're always happy to tailor our systems to our clients' requirements, which includes offering our Windvent terminals in a range of RAL and BS colours.

So, for this particular project, we powder-coated the 12 units in different colours so that they looked like a rainbow, which is the final look Castle Hill was after.



THE RESULT

The units were installed in just 8 days with minimal disruption and now Castle Hill has access to natural ventilation in various locations around the school.

The terminals we fitted feature automatically-adjusting dampers that allow for differing internal temperatures, wind/weather conditions and air quality requirements. Linking them to a programmable control system also means the school's ventilation rates can be controlled by internal and external sensors.

The end result: We breathed fresh air into Castle Hill that's fresher and cleaner than ever, meets all of the necessary industry regulations and standards and is really simple to control and use.

Got any questions or perhaps you'd like to benefit from a breath of fresh air, just like the pupils and teachers at Castle Hill Primary School are doing right now? Contact us on 01384 455811 or sales@mideng.net.

CONTACT

Midtherm Engineering Ltd

ADDRESS

Midtherm Engineering Ltd
28 New Rd
Dudley
DY2 8TA

TELEPHONE NUMBER

01384 455811

EMAIL ADDRESS

sales@mideng.net

WEBSITE

<https://www.mideng.net/>

Flues
Masts and
Chimneys

Commercial
Canopies

Furanflex Chimney
Liners

Natural Ventilation
Systems

Intelligent
Control
Systems