

Holford Drive Sports Pavilion - Birmingham

Consultant

- BSD

Client

- Willmott Dixon

Sector

- Leisure

Products

- Wind-iVent Systems

Equipment

- Natural Ventilation Systems

Application

- Balance Terminals



Front Entrance



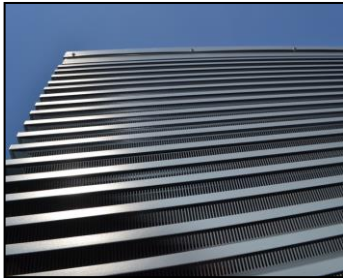
Wind-iVent - Natural Ventilation Systems

Airtherm Engineering have recently completed the new installation of seven natural ventilation systems for Gill Mech Limited based in West Midlands. Airtherm had previously designed and selected the correct systems to serve the new boxing hall within the newly built pavilion. This process required critical information to establish the correct airflow and terminal size, working closely with both the consultant, builder and mechanical company the installation was completed on time.

i-Control Solutions Available



The natural ventilation systems have been designed in line with all current publications such as CIBSE guidelines, AM10 Natural Ventilation in commercial buildings and Building Bulletin 101. The terminal sizes have been selected by our new computer aided software 'Wind-iCalc' and fully conforms to the CIBSE requirements.



Class 'A' – 99.8% Rejection



Natural Ventilation Terminals



uPVC Low-Leakage Dampers

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Product Range

The Airtherm “Wind-iVent” is a natural ventilation system operating on established aerodynamic principles. As external wind flows around the terminal itself, positive and negative pressure areas are generated. On the positive side air enters the louvres of the terminal and is directed down through the internal vanes into the room below allowing a fresh air supply to be delivered, and on the negative side the stack draws the stale unwanted air which is expelled through the terminal into the atmosphere.

Installation

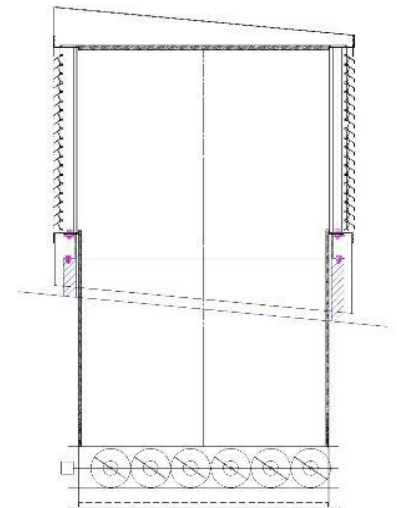
The Wind-iVent units are lifted by a specialist crane company who work closely with our on-site engineers. The systems are mounted onto the 3mmthk aluminium fully insulated roof upstands. Each unit is fixed and secured to not only the upstand but internally using universal type fixings.

Once each unit is secured a low-leakage uPVC damper and 24v actuator is fitted, followed by the insulated plenum and an internal powder coated grille to complete the system.

Airtherm offer a roof plate solution for all situations, including self mount flashings and curb mount flashings with suitable upstands. The options for each project will be discussed at the design stage in detail, including the necessary openings that are required to suit our systems.

The features and advantages of such a system:

- ⚙ A fresh air supply for workers - proven to increase productivity & reduce staff sickness
- ⚙ Naturally ventilated - reduce your energy costs and carbon footprint without the need for mechanical ventilation
- ⚙ Night time purge of stale air - creating a fresh working environment for staff the following morning
- ⚙ Better control of building temperature and CO² levels
- ⚙ Free cooling
- ⚙ Easy to use Stand-alone control solution



Typical diagram

