

Comfort for Visitors, Efficiency for Businesses

No matter the retail environment - from high street and department stores to supermarkets and out-of-town shopping centres - all rely on creating an inviting atmosphere where customers feel comfortable to browse and shop. Maintaining that comfort, particularly thermal comfort, can be challenging with constant door use and fluctuating outdoor conditions.

Enershield Air Barriers use smooth laminar airflow technology, engineered to stabilise internal conditions across busy entrances without restricting access. The continuous stream of air activates only when the door is open maintaining consistent internal conditions and improving energy efficiency.

It supports sustainable building performance and can be installed in both new and existing facilities. Enershield Air Barrier technology delivers long-term reliability and measurable results across all sectors.



Temperature & Humidity

Proven to reduce heat, cold and humidity transfer by up to 90%



Fumes and Chemical Contaminants

Can improve indoor air quality and reduce the transfer of VOC's, fumes and other gases



Flying Insects

Reduce flying insect ingress by up to 75%



Particular Matter & Airborne Contaminants

Reduce the ingress of particulate matter, dust and other contaminants by up to 80%

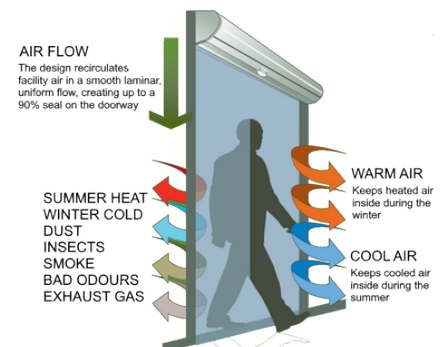


Sustainability

Reduce energy consumption & CO2e emissions

Delivering Operational Stability

Enershield Air Barriers solve real-world operational challenges across retail and commercial spaces assisting with the challenges of maintaining controlled comfortable environments, substantially reducing the ingress and transfer of environmental conditions and contaminants that can affect both.



A Breath of Fresh Air: Stabilising Temperature, Improving Comfort at a Large High Footfall Shopping Centre

The Client

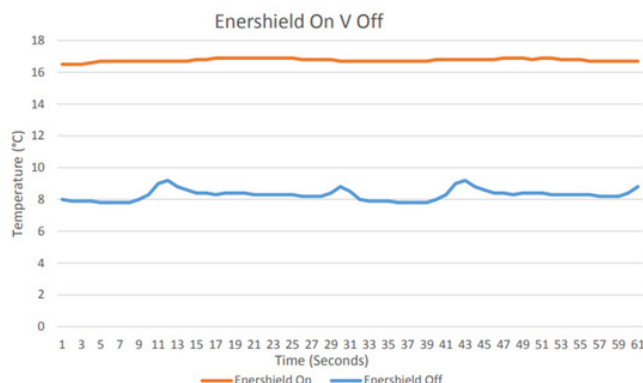
Our client was a large UK based shopping centre with over 150 shops and places to eat and with an annual footfall of over 14 million.

The Challenge

Our client was looking for an effective solution to keeping the cold out of their shopping centre whilst using their high frequency doorways and that did not have a high operational cost.

The Solution

After consulting with our client and carrying out a detailed site survey, we recommended the installation of Enershield ECS Air Barriers which are both highly effective and aesthetically pleasing" which were key requirements of the client.



Air Barrier Option:

ECS Air Barriers have been designed to be aesthetically pleasing with a wide array of colour options available.

AirBarikade Air Barriers comes with all the benefits and performance of ECS but has an independent source of heat for space comfort, for areas with insufficient heating

The Result

As represented in the graph, the ECS Enershield Air Barrier is clearly reducing thermal transfer when the door is in the open position with Enershield powered on versus powered off. The external temperature at the time of testing was **7.4°C**. With the Air Barrier powered on, it was **17.2°C** internal and when powered off, was **8.3°C** internal.