Architen ETFE System

ETFE Ventilation

Fresh air for comfort - hinged ETFE panels that open to release heat.

3 m × 3 m
Guideline max opening panel

24 V
Typical supply voltage

EN 12101-2
Typical smoke vent certification

BMS
Manual or automatic control



Architen Ventilation

No one likes a stuffy, hot space. One way to introduce fresh air and release heat is through Architen Ventilation: an engineered system of hinged ETFE panels incorporated into the design of the ETFE system.

Actuated panels can be opened manually, or sensors can be connected to the Building Management System (BMS) to open them automatically when heat levels get too high.

As an option, opening panels can contribute to the building's fire strategy. In this case, the system is triggered by the fire alarm or temperature setting, opening the hinged panels for smoke ventilation.

Technical data

Opening panel size	Guideline maximum 3 m × 3 m
Opening	Designed to meet the project's free area or aerodynamic free area requirement
Actuators	Number and type designed for each project
Power supply	Typically 24 V, supplied with control panel
Control	Manual, BMS, rain and wind sensors, fire alarm
Weather	Can close automatically in rain or high wind, with a set wind speed limit for staying open
Smoke ventilation	Typically certified to EN 12101-2
Cushion integration	Opening panels are inflated cushions with their own independent steel frame, connected by flexible air pipework
Project references	ExCeL London; Greenhill Drumpark School

Key features

- Fresh air circulation
- Heat reduction
- Can be linked to smoke venting
- Manual or automatic BMS control
- Closes automatically in rain or high wind
- Designed into the ETFE system

How to specify

Our products are easy to specify. Just drop this clause into your architectural specification or download our full H80 Specification.

Product	Architen ETFE Ventilation System (to be specified in conjunction with the Architen ETFE Cushion System)
System manufacturer	Architen Landrell Manufacturing Limited
Size	As per architect's drawings
Fabric	ETFE foil
Functionality	Air venting system via opening panels, with interface to temperature control/HVAC system linked to the BMS



