

# ESTRA

## NATURAL VENTILATION & MAKE UP AIR VENT



**MAKE-UP AIR VENTS  
or  
Smoke and heat vents**



**Estra's installed at  
Wembley Stadium**

The Estra is a louvre ventilator that can be used to provide a replacement air facility for smoke control systems. It can also be used for day to day ventilation in natural ventilation systems.

The Estra has been specifically designed for use in vertical applications.

### **Operation.**

The Estra ventilator can be operated in several ways:

- Double-acting compressed air
- Electric 24 Volt (24 Vdc / 0-10V)
- Manual

### **Application**

The stylish ventilation window ideally suited for use in predominantly glass structures. The variety of versions makes the Estra an excellent choice for shopping centres, offices, atria and industrial buildings.

### **Material**

The frame of the Estra is constructed using a fully thermally broken aluminium profile. The louvres are available in both single glass and double glazed versions. The louvres in the double glazed Estra are provided with mohair seals, the single glass Estra is not provided with seals and relies on direct glass on glass contact between the louvres.

In order to optimise the opening mechanism required the Estra louvres are centre pivoting.

### **Features**

- Slimline
- Light weight
- Variable louver heights for increasing aerodynamic efficiency
- Available in a range of finishes

**E  
s  
t  
r  
a**

# ESTRA

## NATURAL VENTILATION & MAKE UP AIR VENT

### Design data

- Minimum size 400 (w) x 700 (h) mm
- Maximum size 1600 (w) x 3000 (h) mm
- Minimum 3 louvers
- Louver heights available from 100 - 300mm
- Glass thickness
  - ⇒ Non-insulated 6, 8 or 10mm
  - ⇒ Insulated 24mm
- Weight is dependant on the dimensions and the panel insulation & glass thickness.
- Suitable for built 90° build in angle.
- Standard flange width 20mm
- Flange min thickness 2mm
- Flange max thickness 30mm



Estra

