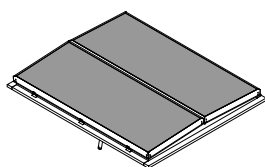


## STANDARD INTERIOR DIMENSIONS

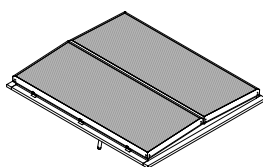
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1010	1000	1000	2010	2000	1000
1015		1500	2015		1500
1020		2000	2020		2000
1025		2500	2025		2500
1030		3000	2030		3000
1035		3500	2035		3500
1510	1500	1000	2510	2500	1000
1515		1500	2515		1500
1520		2000	2520		2000
1525		2500	2525		2500
1530		3000	2530		3000
1535		3500	2535		3500

## FLAPS

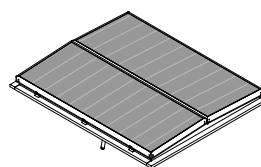
- AL Single aluminium
- AL ISO Thermally insulated aluminium
- PC16 Polycarbonate 16mm, clear or opal
- PC25 Polycarbonate 25mm, clear or opal
- SW Sandwich panel 50-70mm



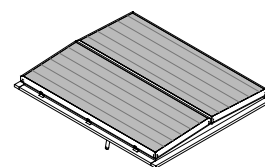
AL



ALISO



PC16/PC25



SW

## FLANGES

- S1 Flange for single glass
- S2 Flange for double glass
- S3 Flange for roofs, 45° bended
- S4 Flange for roofs and facades
- S5 Flange for upstand, 90° bended

\* Custom flange design and insulated flanges upon request



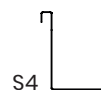
S1



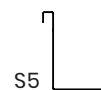
S2



S3



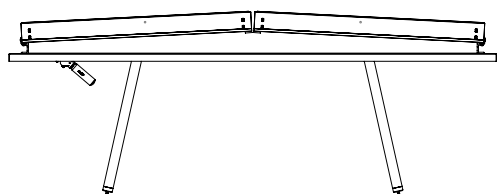
S4



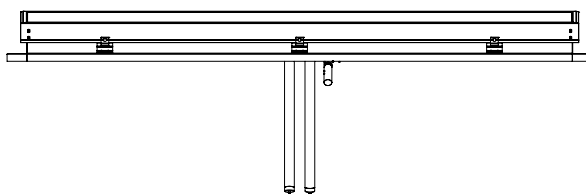
S5

## EXAMPLE TYPE INDICATION

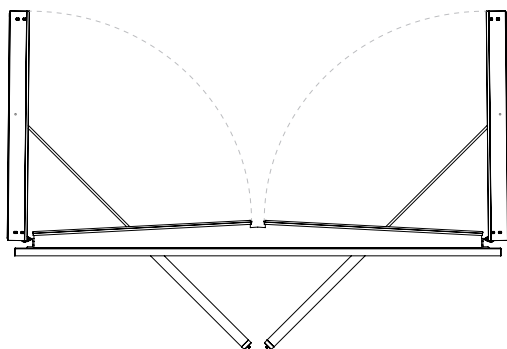
Delta 1025/PC16/P2F/S5 Delta twin flap vent, width 1000mm, length 2500mm, flaps polycarbonate 16mm, pneumatic cylinder type P2F, flange type S5.



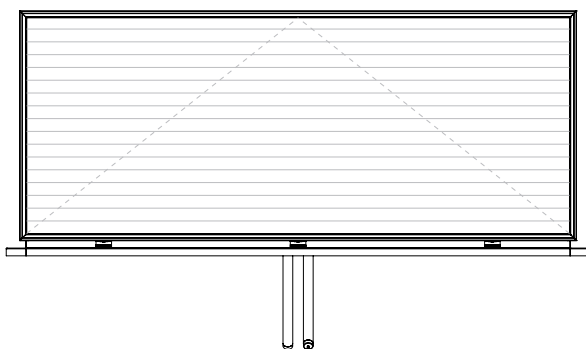
FRONT VIEW CLOSED



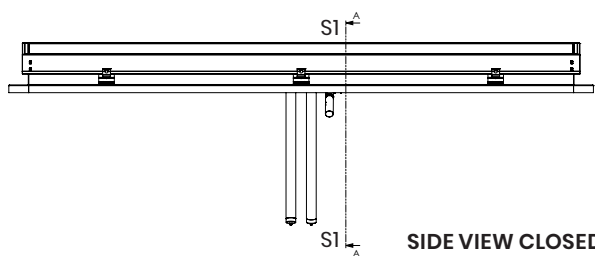
SIDE VIEW CLOSED



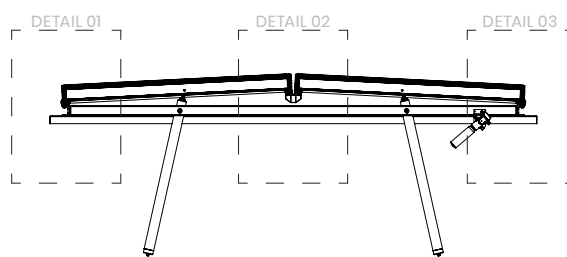
FRONT VIEW OPEN



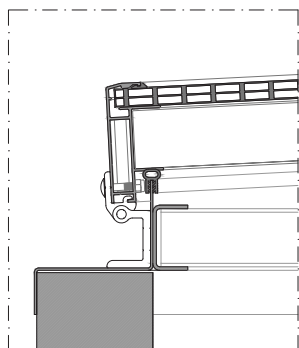
SIDE VIEW OPEN



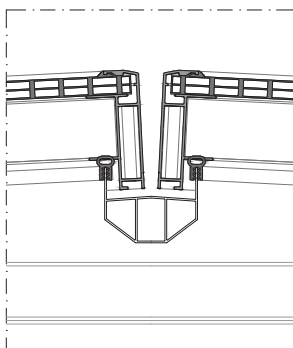
SIDE VIEW CLOSED



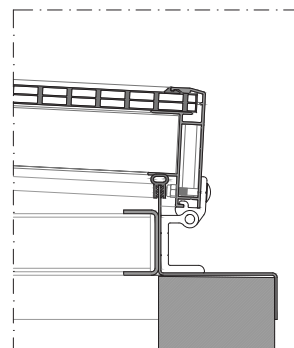
SECTION S1



DETAIL 01



DETAIL 02



DETAIL 03

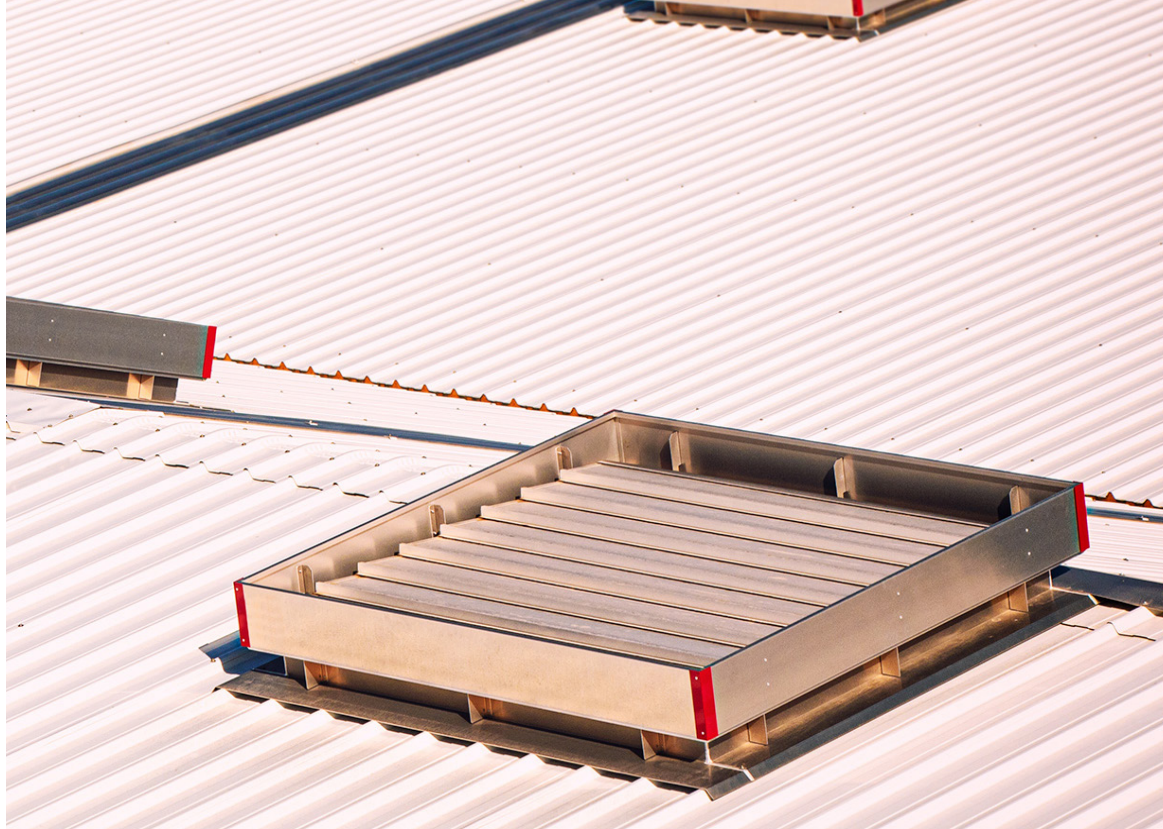


## PRODUCT FEATURES

The VENTRA is a multi louvred ventilator provides an economic, nonpowered method of ventilation, allowing the removal of large quantities of warm air and/ or smoke from a building within a short period of time. The VENTRA is suitable for air feed (facade), air extraction (facade and roof) and natural lighting. The vents are manufactured according to EN-ISO 9001 quality control standards.

The vents are formed from high quality corrosion resistant aluminium, to ensure low maintenance requirements and watertightness. Various methods of operation using pneumatic or electric actuators are available. The ventilator design produces a versatile economic unit suitable for a wide range of applications.





# Ventra

## TYPICAL APPLICATIONS

Versatile scope of applications on roofs and facades, with an installation angle range from 0° to 90°.  
Installations: Industrial Buildings; Warehouses; Logistics Centres; Shopping Centres; Atria, Etc.

## MATERIALS

Aluminium; tempered, sea water and corrosion-resistant AlMg<sup>3</sup> and extruded aluminium profiles for the frames. Corrosion-resistant bearings.  
The aluminium is supplied untreated as standard. Free of silicones.

## CONSTRUCTION

### CONTROLS NATURAL VENTILATION

P - Single pipe compressed operation  
P2 - Double pipe compressed air operation M230V - Electric motor

### CONTROLS FIRE VENTILATION ACCORDING TO EN 12101-2

PF - Single pipe compressed air operation with fire function  
P2F - Double pipe compressed air operation with fire function M24V - Electric motor

## BASES

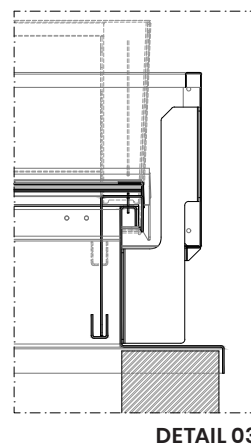
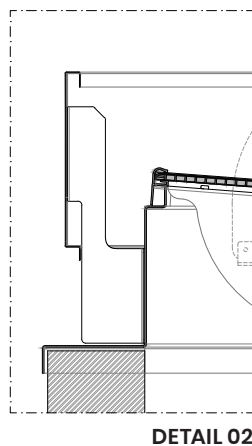
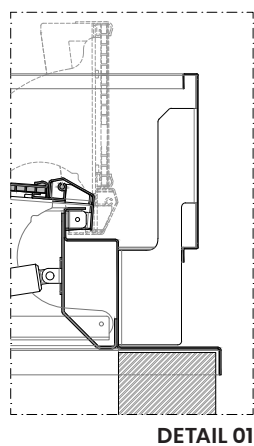
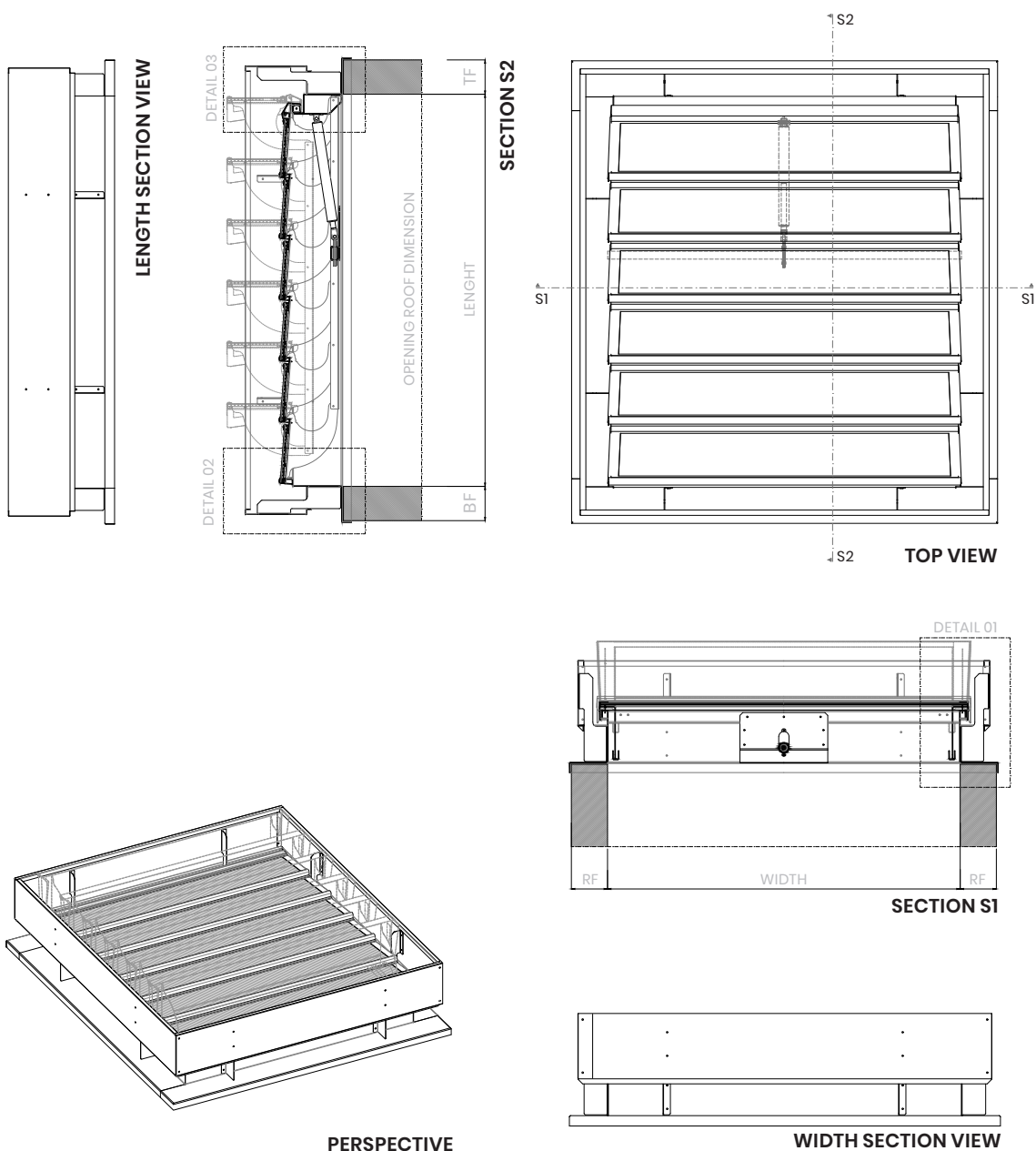
Single skin aluminium standard base, with the entire mechanism (louvres).  
Other non standard bases available upon request

## OPTIONS

Custom dimensions / Powder-coated design (any RAL colour) / Bird or insect mesh (check page 44 of this catalogue)

## REGULATIONS

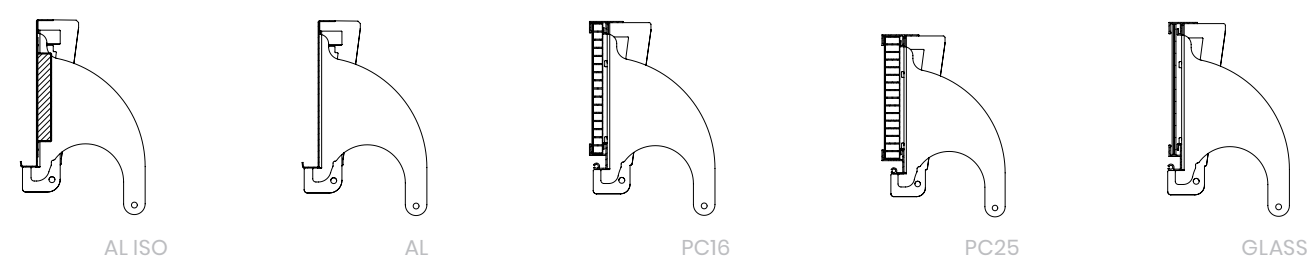
The system has been tested and is certified in accordance with EN 12101-2



# DIMENSIONS/ LOUVRES TABLE

VENTILATOR DIMENSIONS														
	4	5	6	7	8	9	10	11	12	13	14	15	16	17
WIDTH (MM)	LENGTH (MM)													
300														
600														
1000														
1200	966	1186	1406	1626	1846	2066	2286	2506	2726	2946	3166	3386	3606	3826
1800														
2000														
2400														

## LOUVRES



## FLANGES

- S1 Flange for single glass
  - S2 Flange for double glass
  - S3 Flange for roofs and facades
  - S4 Flange for roofs and facades
  - S5 Flange for upstand, 90° bended
- \* Custom flange design and insulated flanges upon request



## PRODUCT FEATURES

The VENTRA-F is a multi louvred ventilator provides an economic, nonpowered method of ventilation, allowing the removal of large quantities of warm air and / or smoke from a building within a short period of time. The VENTRA-F is suitable for air feed or smoke exhaust in the façade, and natural lighting. The vents are manufactured according to EN-ISO 9001 quality control standards.

The vents are formed from high quality corrosion resistant aluminium, to ensure low maintenance requirements and watertightness. Various methods of operation using pneumatic or electric actuators are available. The ventilator design produces a versatile economic unit suitable for a wide range of applications.







# Ventraq-f

## TYPICAL APPLICATIONS

Versatile scope of applications on facades, with an installation angle close to 90°.

Installations: Industrial Buildings; Warehouses; Logistics Centres; Shopping Centres; Atria, Etc.

## MATERIALS

Aluminium; tempered, sea water and corrosion-resistant AlMg<sup>3</sup> and extruded aluminium profiles for the frames. Corrosion-resistant bearings. The aluminium is supplied untreated as standard. Free of silicones.

## CONSTRUCTION

### CONTROLS NATURAL VENTILATION

P - Single pipe compressed operation

P2 - Double pipe compressed air operation M230V - Electric motor

### CONTROLS FIRE VENTILATION ACCORDING TO EN 12101-2

PF - Single pipe compressed air operation with fire function

P2F Double pipe compressed air operation with fire function M24V - Electric motor

## BASES

Single skin aluminium / Double skin aluminium with thermal insulation / SB - standard base, with the entire mechanism (louvres). Other non standard bases available upon request

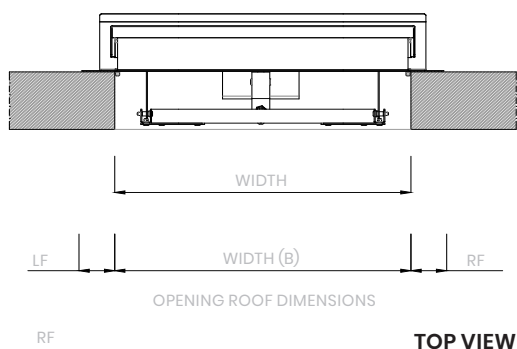
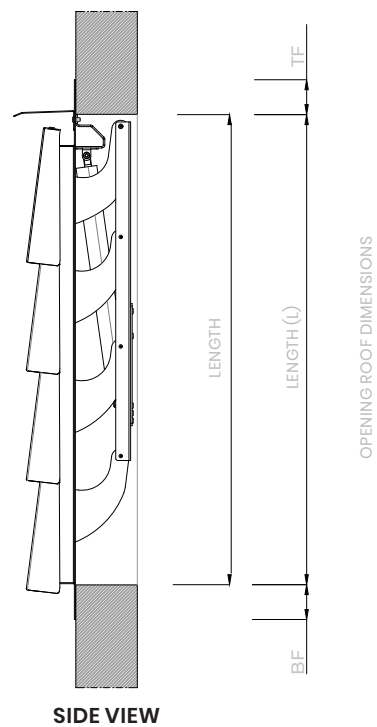
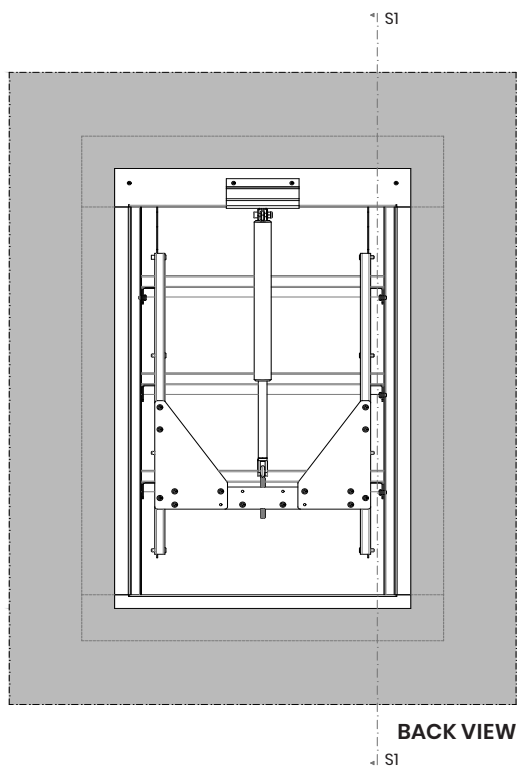
## OPTIONS

Custom dimensions / Powder-coated design (any RAL colour) / Bird or insect mesh (check the page 44 of this catalogue)

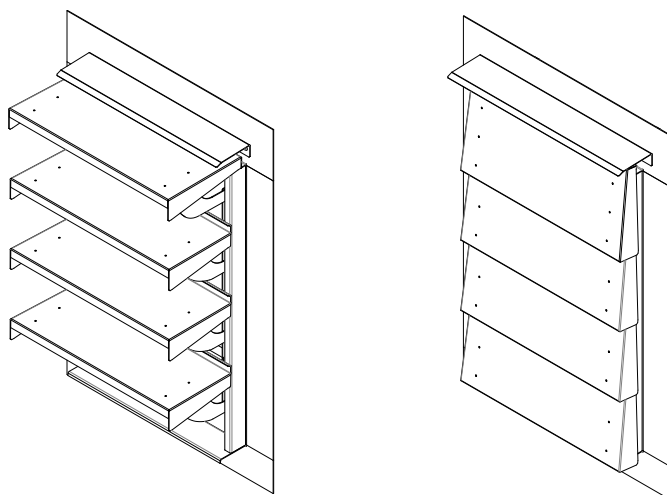
## REGULATIONS

The system has been tested and is certified in accordance with EN 12101-2





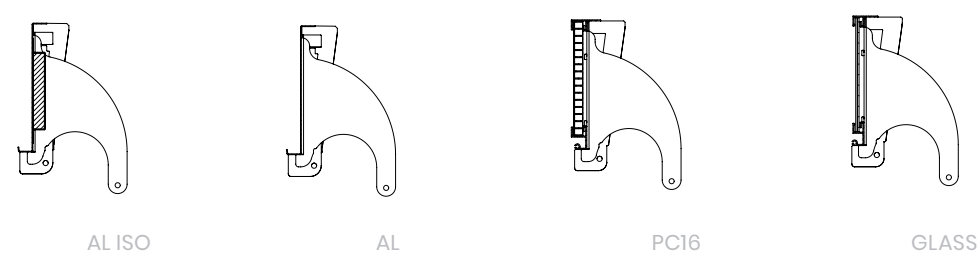
## PERSPECTIVES (OPEN AND CLOSED)



# DIMENSIONS/ LOUVRES TABLE

VENTILATOR DIMENSIONS														
	4	5	6	7	8	9	10	11	12	13	14	15	16	17
WIDTH (MM)	LENGTH (MM)													
600														
900														
1100														
1400														
1700	944	1164	1384	1604	1824	2044	2264	2484	2704	2924	3144	3364	3584	3804
2000														
2200														
2300														
2400														

## LOUVRES



## FLANGES

- S1

Flange for single glass
- S2

Flange for double glass
- S3

Flange for roofs and facades
- S4

Flange for roofs and facades
- S5

Flange for upstand, 90° bended
- \* Custom flange design and insulated flanges upon request

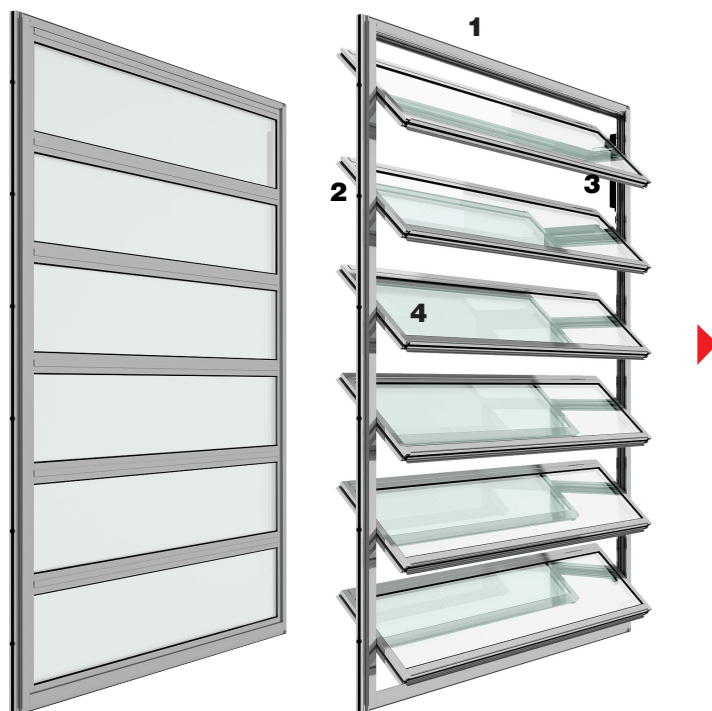


## PRODUCT FEATURES

When it comes to keeping emergency and escape routes free of smoke gas, the use of automated louvre windows solutions is particularly advisable. They make it possible to efficiently keep emergency and escape routes smoke-gas-free. This helps rescue teams get to the scene quickly and successfully evacuate everyone from the building, thereby significantly reducing the risk of suffocation. The VENTLAM smoke vents system ventilator of installation in vertical façades, provides an economic, non-powered method of ventilation, allowing the removal of large quantities of warm air and/or smoke from a building.

The VENTLAM is particularly suitable for use in industrial and commercial buildings where low cost natural ventilation with or without natural lighting is required.

The smoke vent is façade frame and blade profiles with thermally insulated composite of aluminum and PA6.6 profiles filling of 2-glazing framed only sideways.





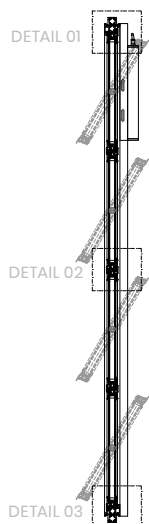
# Ventlam

## DESCRIPTION OF OPERATION

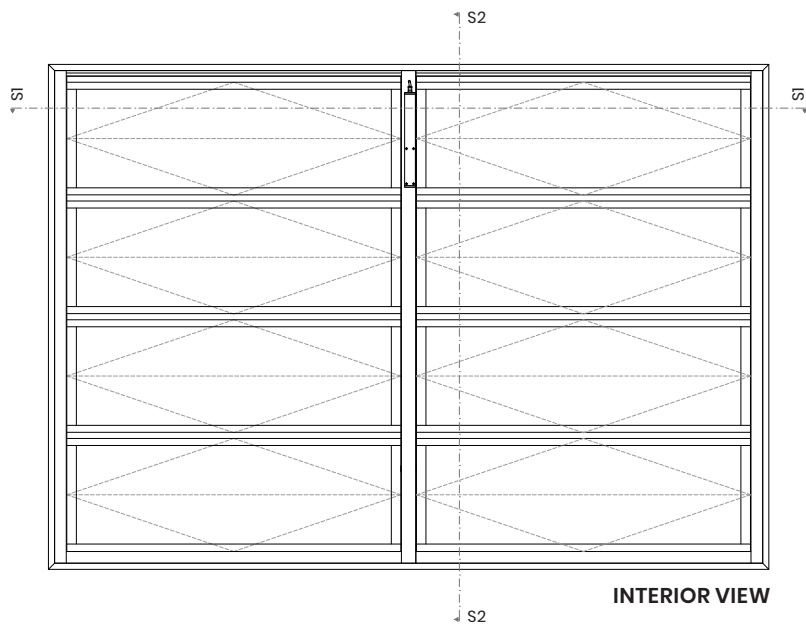
The VENTLAM is a louvre windows consist of one or several superimposed blades that open on a horizontal axis of rotation as an oscillating wing. There by the blades part below the pivot axis opens to the outside and the upper part to the inside. In general the pivot axis is mounted centered, but can be shifted up to  $\frac{1}{3}$  –  $\frac{2}{3}$  if necessary. Standard with 78° opening angle, if necessary 0–90°. No matter whether in public, business or private areas, safety is an important issue for all building planners. The foremost principle is that the people who use a building should not come to any harm.

## SUBTITLE

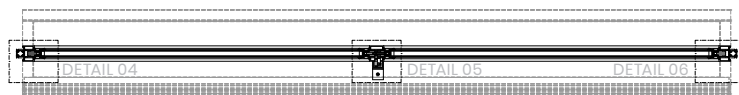
1. Profiles anodised; powder or wet paint coated to RAL, NCS, DB or special colour shades.
2. Pivot axis is mounted centered.
3. E-motor WAL, 24V, 1.0A, 1600N, IP50, E6/EV1, with 3.0m cable, without pushbutton or without control.
4. Thermally insulating glass made from 1x4mm float glass outside+ 1x6mm laminated safety glass inside with 14mm cavity, total thickness 24mm.



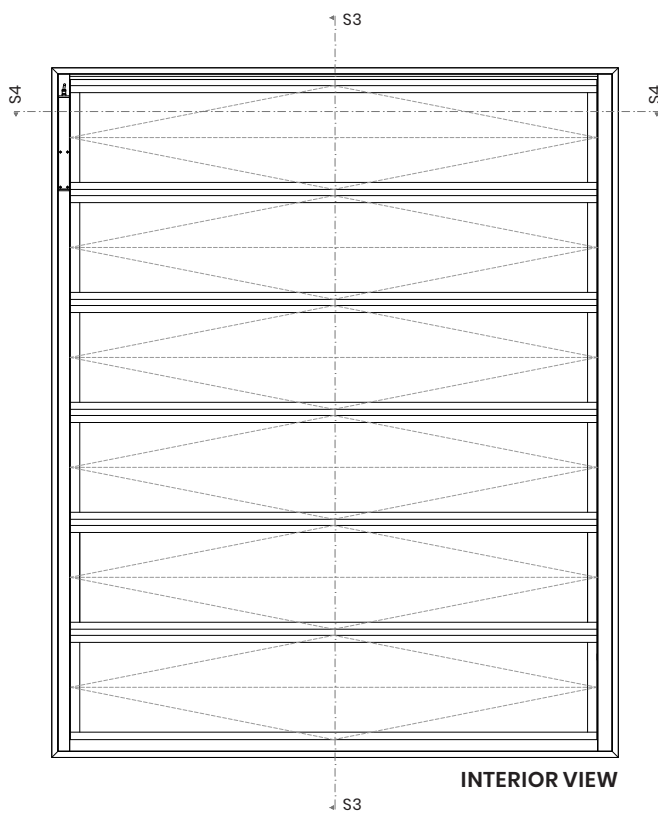
SECTION S2



INTERIOR VIEW



SECTION S1



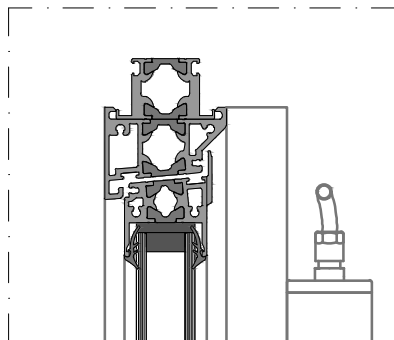
INTERIOR VIEW



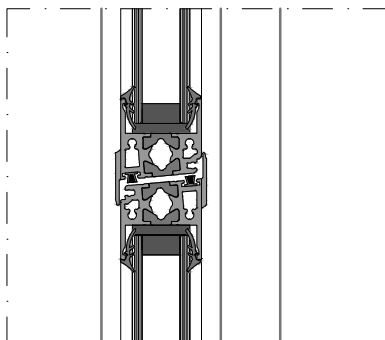
SECTION S3



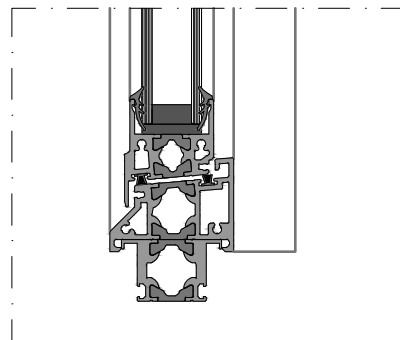
SECTION S4



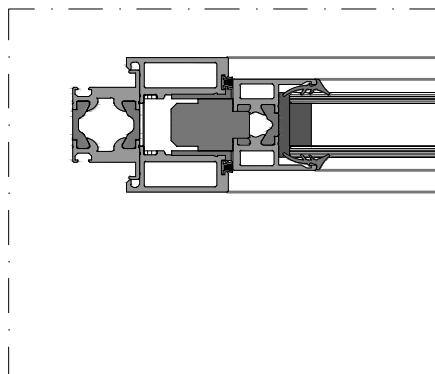
DETAIL 01



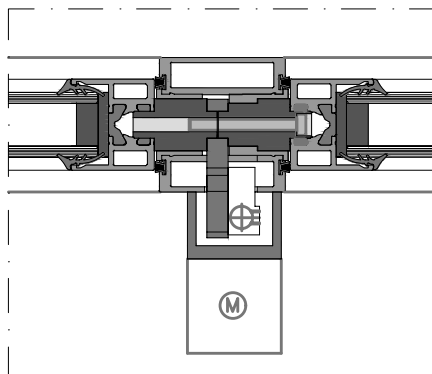
DETAIL 02



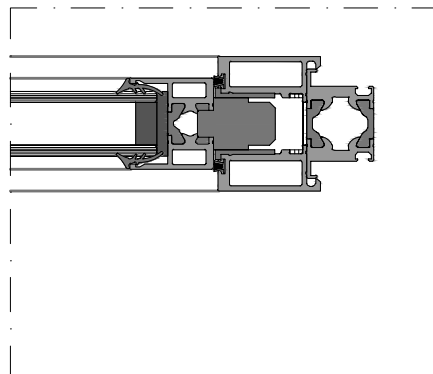
DETAIL 03



DETAIL 04



DETAIL 05



DETAIL 06

## DESIGN DESCRIPTION

This system is the first choice whenever the highest specifications apply for heat insulation, beauty of appearance and sheer individuality. Installation in vertical façade, frame and blade profiles with thermally insulated composite of aluminum and profiles, filling of 2-glazing or panel framed glazing all-round

## CONSTRUCTION

### CONSTRUCTION

Frame and blades in thermally separated aluminum profiles. Frame installation depths 50 or 60mm.

### ASSEMBLY OPTIONS

Various adaptor sections for installation in post-girt constructions, wall masonry or window elements.

### LOUVRE FILLINGS

Insulation glazing or panels as desired. Triple insulating glazing possible; total thickness 24mm or 32mm.

### OPENING FITTINGS

Hidden opening fittings. Operation with manual crank handles, kinked connecting rods. Pneumatic cylinders or electric servomotors with choice of 230V or 24V.

### SEALS

The vents seals in EPDM, silicone quality and vertically with brush seal.

### SURFACE TREATMENT

Profiles anodised; powder or wet paint coated to RAL, NCS, DB or special colour shades.

### POSSIBLE SIZES

Minimum frame width: 300mm  
Maximum frame width: 2000mm  
Blade height variable: 120 to 400mm