

EXUBAIE

LEAF VENTILATOR

CONCEALED OPERATION

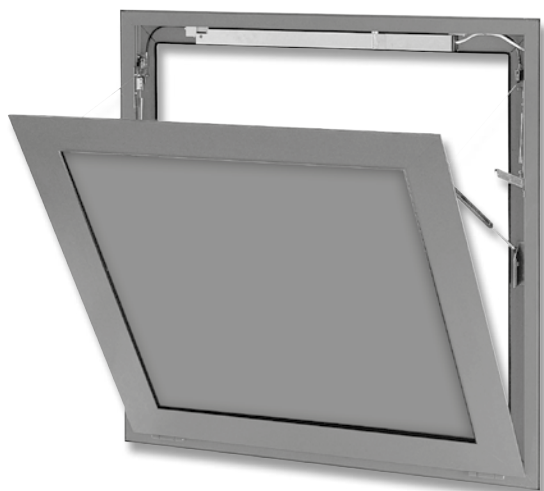
KEY FEATURES

This ventilator is ideal for combining natural **ventilation** and **smoke control**.

With its unobtrusive **mechanisms, integrated between the opening and fixed frames**. EXUBAIE is intended for architects and builders who are looking for safety, security and great appearance, from high quality equipment.



NF S 61937-8
compliant
O/C



FEATURES

- The **operation is integrated** into the window profiles.
- "**Made to measure**" manufactured to suit the specific and diverse needs of each building.
- Solutions available for **all glazing profiles and materials**.
- Acoustic performance option.



CCI (training building) - Le Mans (France)

La Défense (France)

EXUBAIE

VENTILATORS FOR
BUILDING FRONTS

DESCRIPTION

- **EXUBAIE** is a **NSHEV** (natural smoke and heat exhaust ventilator) with **CE - NF EN 12101-2** certification and **NF-NSHEV** marking, compliant with **NF S 61937-8 AIR INLETS** for opening and closing versions.

- **EXUBAIE** is available with **various types of opening**: bottom, top or side hung, inward or outward opening.

- The two types of **EXUBAIE** profile (**standard or thermally broken**) and their many adaptors allow use into masonry, window or curtain wall systems. With variable dimensions, they allow **industrial manufacturing "made to measure"** to match the line and flow of the architecture.

- For better integration into the building all (RAL) colours or anodised frame options. **EXUBAIE** is also available with (visible frame) structural and flush glass.

PERFORMANCE

- AEV class: - Electrical - acoustic: $A_4E_{9A}V_{C3}$
- Pneumatic glazed: $A_2E_{8A}V_{C2}$
- Reliability: Re 1000 (+ 10,000) dual function
- Air flow performance: C_v from 0.22 to 0.64 based on dimensions and opening angles
- Static wind resistance: $WL = 1500 \text{ Pa}$
- Low temperature: $T=0^\circ\text{C}$
- Temperature rating: $B=300^\circ\text{C}$
- Reaction to fire: dependent on infill
- U_w : 0.85 to $1.19 \text{ W/m}^2 \cdot ^\circ\text{K}$ for opaque thermal infill
 U_w : 1.1 to $5.7 \text{ W/m}^2 \cdot ^\circ\text{K}$ for glazed products (depending of U_g of infill)

DIMENSIONS

Min. and max. dimensions in overall W and H:
(overall width and height)

- For bottom hung/top hung/inward/outward opening:
Min.: 500 x 500 mm
Max.: 1600 x 1600 or 1200 x 2400 mm
Weight of opening frame: 60 kg maximum
- Side hung, inward or outward opening:
(vertical hinges)
Min.: 500 x 1000 mm
Max.: 900 x 1800 or 800 x 2400 mm
Weight of opening frame: 50 kg maximum

TYPES OF CONTROL

- Open only:
electric (emission/break 24/48 V) / pneumatic
- Open/Close:
electric/pneumatic/mechanical

EXUBAIE

VENTILATORS FOR
BUILDING FRONTS

Manutan Headquarters
(Gonesse)



INFILL

- Alveolar polycarbonate: 10 mm, 16 mm, 32 mm (*clear, pearl or bronze*)
- Glazing: 6 to 25 mm for STD profile and 10 to 38 mm with thermally broken profile
- Opaque thermal insulation: double skin insulated (*two 15/10 aluminium plates + 30 mm EPS*)
- Acoustic insulation: SOUCHIER acoustic infill (Rw 48 dB)

PROFILES

- Conventional window (STD)
- Thermally broken window
- Curtain wall adaptor

OPTIONS

- Thermal tripping mechanism
- Position switches (*safety & standby option*)
- Structural glazing
- Variable maximum weight of opening frame depending on product characteristics

FITTING TYPE

- Specific adaption profiles, accessories
- 0° vertical installation on facade



EXUBAIE

VENTILATORS FOR
BUILDING FRONTS

SOUCHIER
DÉSENFUMAGE ARCHITECTURAL
GESTION ÉNERGETIQUE

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last update: April 2017

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EXUBAIE RANGE

• EXUBAIE



The ideal ventilator that combines **ventilation** and **smoke control**.

With its **concealed operation**, which are **integrated between the opening and fixed frames**, EXUBAIE is intended for architects and builders who are looking for a fine appearance, protection from vandalism and high quality equipment.

• EXUBAIE VEC



Viewed externally, EXUBAIE VEC (*structural glazing*) blends into the building facade and **matches with the architectural lines**. From the inside, it keeps the operation out of sight.

Exubaie VEC protects the appearance from the inside and outside.

• EXUBAIE MH



Château de Vincennes

This is a smoke control solution for **Historic structures**, **blending with the existing architecture and windows**.

Seen from the outside, the ventilator merges into its surroundings and **in perfect harmony with the front**. Seen from the inside, it keeps the motor out of sight thanks to its integrated mechanism.

• EXUBAIE ACOUSTIC



EXUBAIE is also available in an acoustic version.

The infill is made up of opaque material that offers **increased acoustic performance**.

EXUBAIE ACOUSTIC adds to the safety and **insulation of the building**.

• EXUBAIE V2



Exubaie V2 OS

Exubaie V2 O/C

Thanks to its **slimline profiles**, EXUBAIE V2 reduces the appearance from inside and out. It is available in an **OS** version (Open only) and an **O/C** version (Open/Close).

EXUBAIE V2

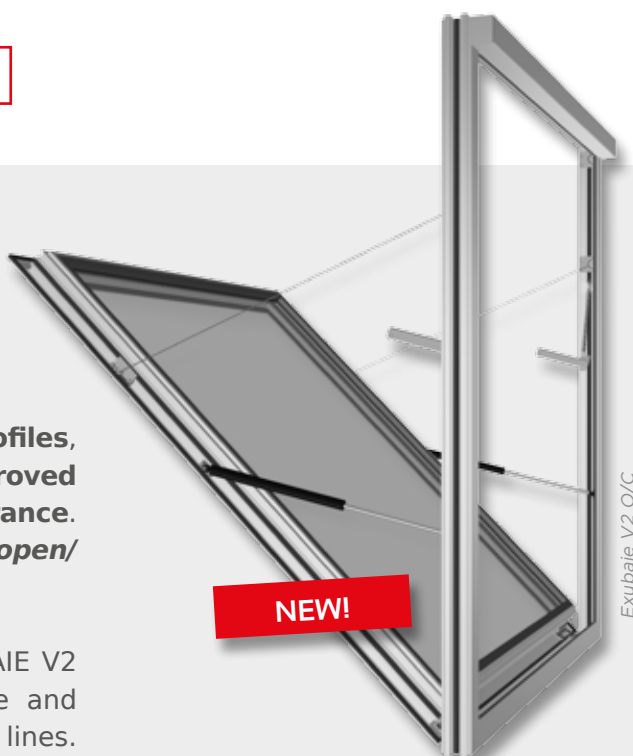
LEAF VENTILATOR

CONCEALED OPERATION

KEY FEATURES

Thanks to its **fine profiles**, **EXUBAIE V2** combines **an improved internal and external appearance**. It is available in **open only** and **open/close** version.

Viewed from the outside, EXUBAIE V2 blends into the building facade and matches with the architectural lines. Seen from the inside, its **open only** version keeps the motors out of sight, while the **open/close version** is **unobtrusive**.



Exubaie V2 O/C



0336

O/C and open only



Compliant
NF S 61937-8

Open only

BENEFITS

- Large **glass to profile** cover ratio.
- Increased opening sizes over traditional chain actuator ventilators (**more smoke control area**).
- **Operation integrated** in the sections of glazing profiles in Open only version and limited Open/Close version.
- **"Made to measure"** manufactured to match the specific and diverse requirements of the building.
- Bespoke solutions for **all sections and window materials**.



Exubaie V2 Open only



EXUBAIE V2 opening only - F1 circuit in Magny-Cours

EXUBAIE V2

VENTILATORS FOR
BUILDING FACADES

DESCRIPTION

- **EXUBAIE V2** is an **NSHEV** (*natural smoke and heat exhaust ventilator*) with **CE** certification for all its control systems. The opening only version is also **NF-NSHEV** certified and complies with **NF S 61937-8 AIR INLETS**.

- Whether it is bottom, top or side hung, with inward or outward opening, **EXUBAIE V2** is intended for designers and architects who are looking for aesthetic appeal, protection from vandalism and high quality equipment.

- The EXUBAIE V2 profile and its many adaptors allow use with **masonry structures, windows** and **curtain walls**.

- Thanks to its variable dimensions, the EXUBAIE V2 profile allows true "**Made To Measure**" **industrial manufacturing** that blend with the architectural lines.

- For perfect integration the EXUBAIE V2 is available with outer **glass cladding**, visible frames in all **(RAL) colour options** or anodised finish.

PERFORMANCES

- Reliability class: Re 1000 for open only
Re 1000 (+ 10,000) for open/close
- Air flow performance: Cv 0.11 to 0.69 depending on dimensions and opening angles
- Static wind resistance: WL = 1500 Pa
- Low temperature: T=0°C
- Temperature elevation: B=300°C
- Reaction to fire: based on infill
- Uw: 0.85 to 1.19 W/m².°K for opaque insulated panels
Uw : 1.1 to 5.7 W/m².°K for glazed products
(depending on Ug of infill)

DIMENSIONS

Min. and max. dimensions overall WxH:
(width by height)

- For bottom hung/top hung frames:
OPEN ONLY - inward/outward:
Min.: 420 x 420 mm
Max.: 1.320 x 2.620 or 2.620 x 1320 mm
OPEN/CLOSE:
Min. inward: 1120 x 745 mm
Min. outward: 1.020 x 745 mm
Max.: 1320 x 2620 or 2620 x 1.320 mm
- Inward or outward opening:
(side hung)
OPEN ONLY:
Min.: 720 x 420 mm
Max.: 2620 x 1370 mm
OPEN/CLOSE:
Min.: 1370 x 745 mm
Max.: 2620 x 1370 mm
- **Variable** maximum weight of opening frame:
depending on product characteristics

EXUBAIE V2

VENTILATORS FOR
BUILDING FACADES

EXUBAIE V2 OPEN ONLY air inlets
TGI Strasbourg / Patio



TYPES OF CONTROL

- **Open only:** electric (*emission or break*) / pneumatic
- **Open/close:** electric (*emission*)

INFILL

- Alveolar polycarbonate: 10 mm, 16 mm, 26 mm (*clear, pearl or bronze*)
- Glazing: 10 to 42 mm for thermally broken profile
- Opaque thermal insulation: double skin and insulated (*two 15/10 aluminium plates + 30 mm EPS*)

PROFILES

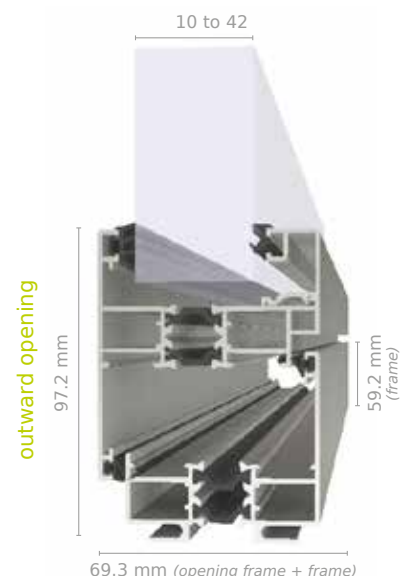
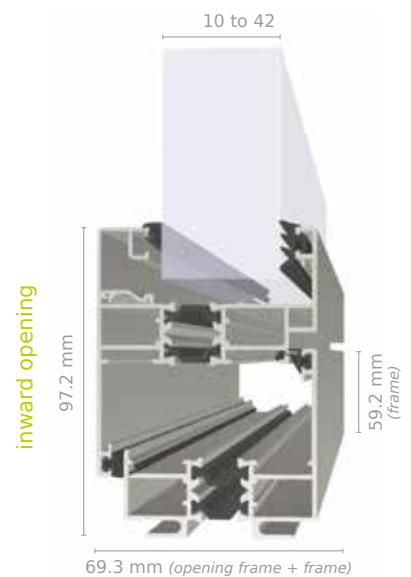
- Thermally broken aluminium window
- Curtain wall adaptors

OPTIONS

- Thermal switch mechanism (depending on use)
- Position switches (*safety and standby options*)

FITTING PRINCIPLE

- Bespoke adaptor profiles & accessories
- Installation on building facade:
 - **outward** opening: 60 to 120° angle of front
 - **inward** opening: 90° angle of front
 - other cases: please enquire



EXUBAIE V2

VENTILATORS FOR
BUILDING FACADES

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EXUBAIE RANGE

• EXUBAIE



The ideal ventilator that combines **ventilation** and **smoke control**.

With its **concealed operation**, which are **integrated between the opening and fixed frames**, EXUBAIE is intended for architects and builders who are looking for a fine appearance, protection from vandalism and high quality equipment.

• EXUBAIE VEC



Viewed externally, EXUBAIE VEC (*structural glazing*) blends into the building facade and **matches with the architectural lines**. From the inside, it keeps the operation out of sight.

Exubaie VEC protects the appearance from the inside and outside.

• EXUBAIE MH



Château de Vincennes

This is a smoke control solution for **Historic structures**, **blending with the existing architecture and windows**.

Seen from the outside, the ventilator merges into its surroundings and **in perfect harmony with the front**. Seen from the inside, it keeps the motor out of sight thanks to its integrated mechanism.

• EXUBAIE ACOUSTIC



EXUBAIE is also available in an acoustic version.

The infill is made up of opaque material that offers **increased acoustic performance**.

EXUBAIE ACOUSTIC adds to the safety and **insulation of the building**.

• EXUBAIE V2



Exubaie V2 OS

Exubaie V2 O/C

Thanks to its **slimline profiles**, EXUBAIE V2 reduces the appearance from inside and out. It is available in an **OS** version (Open only) and an **O/C** version (Open/Close).

EXUBAIE MH

LEAF VENTILATOR

WOOD OR STEEL FRAME

KEY FEATURES

EXUBAIE MH is a smoke control solution suited to Historic Structures. Viewed from the outside, the ventilator appears in **perfect harmony with the building**. From the inside, it has concealed operation that keep the motors out of sight. EXUBAIE MH protects the **appearance internally and externally** and **blends in with the architecture** and existing openings.

Louvre Museum



Printemps - Deauville

FEATURES

- **Harmony** with existing architecture.
- The **operation is integrated** within the window profiles.
- **"Made to measure"** manufactured to suit the specific and diverse needs of each building.
- Custom solutions that account for the **sections and materials, wood or steel**, used in bespoke construction.



Château de Vincennes (perfect integration of smoke control devices)



EXUBAIE MH

VENTILATORS FOR
BUILDING FACADES

Exubaie range :

- **Exubaie**
- **Exubaie VEC**
(structural glazing)
- **Exubaie MH**
(historic structures)
- **Exubaie ACOUSTIC**
- **Exubaie V2**
(preserving appearance from
inside and outside with slimline
profiles)



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DIMENSIONS

Min. and max. dimensions overall WxH:
(width by height)

- For bottom hung/top hung/inward/outward opening:

Min.: 500 x 500 mm

Max.: 1600 x 1600 or 1200 x 2400 mm

Weight of opening frame: 60 kg maximum

- Side hung, inward or outward opening:
(vertical hinges)

Min.: 500 x 1000 mm

Max.: 900 x 1800 or 800 x 2400 mm

Weight of opening frame: 50 kg maximum

TYPES OF CONTROL

- Open only:
electric (emission/break 24/48 V) / pneumatic
- Open/close:
electric / pneumatic / mechanical

INFILL

- Depending on requirements

PROFILES

- Wood or steel frame

OPTIONS

- Thermal tripping mechanism
- Position switches - Safety and standby
- Variable maximum weight of opening frame depending on product finish

FITTING PRINCIPLE

- Bespoke adaption profiles & accessories
- 0° vertical installation on building facade

EXUBAIE VEC

LEAF VENTILATOR

CONCEALED OPERATION

KEY FEATURES

Seen from outside, **EXUBAIE VEC** (*structural glazing*) blends into the building front and tones in with the architectural lines. Seen from the inside, it keeps the motor out of sight.

Exubaie VEC protects the **appearance from the inside and outside.**



EXUBAIE VEC is an **NSHEV** (natural smoke and heat exhaust ventilator) with **CE - NF EN 12101-2** certification and **NF-NSHEV** marking.

FEATURES



- The **mechanisms are integrated** into the rabbets of window profiles.
- "**Made to measure**" manufactured to suit the specific and diverse needs of each building.
- Adapted solutions that take account of a smoke control system and structural glazing finish.
- Possibility of 3M glazing.



© Architectes - Jakob & Mac Farlane

Les Docks - Cité de la Mode et du Design - Paris

FITTING TYPE

- 90° installation on building front
- Bottom hung outward opening only
- Specific adapting profiles, accessories (*please enquire*)

EXUBAIE VEC

VENTILATORS FOR
BUILDING FRONTS

Exubaie range:

- **Exubaie**
- **Exubaie VEC**
(structural glazing)
- **Exubaie MH**
(historical monuments)
- **Exubaie ACOUSTIC**
- **Exubaie V2**
(protecting the appearance
from the inside and outside with
slimlines profiles)

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PERFORMANCE

- Reliability class: Re 1000 (+ 10,000)
- Air flow performance: Cv from 0.5 to 0.6 based on dimensions and opening angles
- Uw: 1.7 to 3.6 W/m².°K for glazed products (depending of Ug of infill)

DIMENSIONS

- Min. and max. dimensions in overall W and H: (overall width and height):

Min.: 500 x 500 mm

Max.: 1600 x 1600 or 2400 x 1200 mm

- Maximum weight of opening frame depending on products characteristics



TYPES OF CONTROL

- Opening / closing: electric

INFILL

- Insulating glazing: conventional, reinforced insulation, solar control, acoustic, glued to ventilator frame with CSTB approval

PROFILES

- Thermally broken window
- Curtain wall adaptor

OPTIONS

- Position switches (*safety & standby option*)
- Particular cases: please enquire

POLYBAIE

LEAF VENTILATOR

The range of smoke control ventilators that includes **all the sections from profile manufacturers!**

KEY FEATURES

In order to address **the different characteristics of building fronts**, Souchier has developed a range of natural smoke control ventilators that are suitable for **particular architectural structures** with two levels of solutions:

- **POLYBAIE Souchier solution**
- **POLYBAIE mixed solution**



*Polybaie with electric control
via chain actuator*



*Polybaie with electric
control via chain actuator*

FEATURES

- **Manufactured to measure** to suit the specific and diversified needs of each building front.
- Adapted solutions that take account all the **sections and materials** used for making doors and windows.



Printemps - Deauville

POLYBAIE

VENTILATORS FOR
BUILDING FRONTS

DESCRIPTION

• **POLYBAIE** is a remote controlled opening **NSHEV** (*natural smoke and heat exhaust ventilator*), for building fronts compliant with standard **NF EN 12101-2** with **CE certification**.

POLYBAIE is made up of a frame and an electric, pneumatic, or mechanical remote control mechanism (*opening only or opening / closing*).

ADAPTED SOLUTIONS

• POLYBAIE Souchier solution

In addition to its own range, Souchier manufactures and equips smoke control ventilators using **all sections from profile manufacturers**.

For better integration into the front, these are available in aluminium, wood, steel and PVC.

Ventilators also made from **Schüco profiles**.

NEW!

• POLYBAIE mixed solution

The customers make their own frames, Souchier equips them and tests them in its plants as part of the CE marking certificates held by it.

PERFORMANCE

- **Reliability class:** Re 1000 (*opening only, mechanical O/C*) and Re 1000 (+ 10,000) (*electric and pneumatic O/C*)
- **Air flow performance:** Cv 0,11 to 0,69 depending on dimensions and opening angles
- **Static wind resistance:** WL = 1500 Pa
- **Low temperature:** T=0°C (T= -25°C depending on mechanism)
- **Temperature elevation:** B 300 °C
- **Reaction to fire:** dependent on infill

TYPES OF CONTROL

- **Opening only:** electric/pneumatic
- **Opening/closing:** electric (*linear actuators, cable actuators or chain actuator*)/ pneumatic/mechanical

INFILL

- Single, double or triple glazed assembly
- Infill according to need and technical feasibility
- Possibility of specific infills (sound or thermal insulation, etc.)

POLYBAIE

VENTILATORS FOR BUILDING FRONTS

POLYBAIE, consists in a diversified offer of smoke control ventilators that cover all the sections from profile manufacturers:

- ALUMINIUM: **Polybaie Aluminium range**
- WOOD: **Polybaie Wood range**
- STEEL: **Polybaie Steel range**
- PVC: **Polybaie PVC range**



Polybaie with **electric cable control**:
mechanism that combines unobtrusive design and high air flow performance

POLYBAIE ALUMINIUM RANGE

The profiles of the frame and opening frame can be replaced by profiles of the equivalent range, providing the four criteria identified below are equivalent to or above those of the reference profiles ^(*):

- Moment of inertia
- Reservations for installing mechanisms
- Thickness at fasteners
- Type of reinforcement if any

Polybaie ALUMINIUM dimensions (OPENING ONLY)

Min. and max. dimensions in air passage W and H:
(width and height of air passage through the frame)

- Min.: 550 x 550 mm - Max. 1600 x 1600 mm or 2400 x 1200 mm
Weight of opening frame: 60 kg maximum
- For side hung inward or outward opening windows, the maximum dimensions are limited to: 900 x 1800 mm or 800 x 2400 mm
Weight of opening frame: 50 kg maximum



SCHÜCO

Polybaie ALUMINIUM dimensions (ELECTRIC and PNEUMATIC O/C)

Min. and max. dimensions in air passage W and H:
(width and height of air passage through the frame)

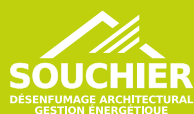
- Min.: 300 x 300 mm - Max. 1200 x 2500 mm or 2500 x 1200 mm or 2220 x 1715 mm
- **Variable** maximum weight of opening frame: depending on product characteristics

POLYBAIE

VENTILATORS FOR
BUILDING FRONTS

(*) **Reference profiles**

For more information, please refer to the corresponding technical literature.



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POLYBAIE WOOD RANGE

The profiles of the frame and opening frame can be replaced by wooden profiles, providing the four criteria identified below are equivalent to or above those of the reference profiles (*):

- Reservations for installing mechanisms
- Sections of frame and opening frames
- Density
- Elastic modulus (that characterises deformation)



example of a WOOD section

POLYBAIE STEEL RANGE

The profiles of the frame and opening frame can be replaced by steel profiles, providing the five criteria identified below are equivalent to or above those of the reference profiles (*):

- Moment of inertia
- Reservations for installing mechanisms
- Thickness at fasteners
- Type of reinforcement if any
- Characteristics of hinges



example of a STEEL section

POLYBAIE PVC RANGE

The profiles of the frame and opening frame can be replaced by extruded PVC profiles bases on a vinyl composition, RAU-PVC 1406, providing the four criteria identified below are equivalent to or above those of the reference profiles (*):

- Reservations for installing mechanisms
- Nature of PVC
- Thickness and reinforcements at fasteners
- Example of a **REHAU section**:
Opening frame: Z75 part 544 565 + reinforcement 351 046
Frame: DRN30 543 465 + reinforcement 241 170



example of a PVC section

Dimensions of Polybaie WOOD, STEEL AND PVC

Min. and max. dimensions in air passage W and H

- Min.: 550 x 550 mm - Max.: 1600 x 1600 mm or 2400 x 1200 mm
Weight of opening frame: 60 kg maximum
- For side hung inward or outward opening windows, the maximum dimensions are limited to:
900 x 1800 mm or 800 x 2400 mm
Weight of opening frame: 50 kg maximum

AIRLAM Panel

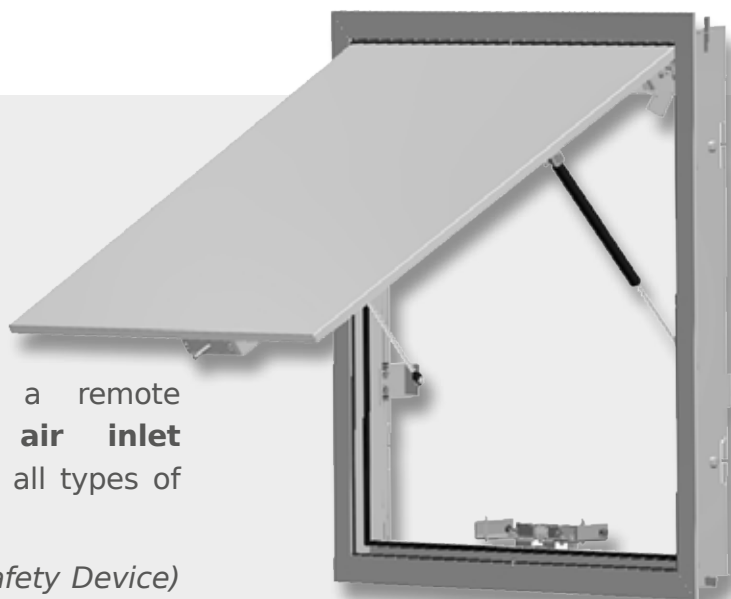
AIR INLET

AIRLAM Panneau

KEY FEATURES

AIRLAM Panel is a remote controlled **natural air inlet** designed for fronts of all types of building.

This ASD (*Actuated Safety Device*) is placed at the bottom of the premises to be cleared of smoke, in order to **create a draught for the NSHEVs on the roof or the front of the building.**



AIRLAM Panel - open

Compliant with
NF S 61937-8
AIR INLETS

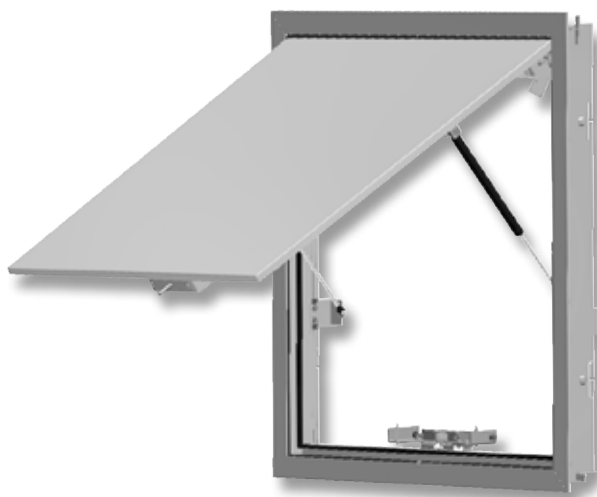


AIRLAM Panel - closed

FEATURES

- **Wide range of dimensions**
- **Airtight**
- **Break-in protection system:**
hinges not removable from the outside
- **Thermal performance**
- **High finish quality**
- Possibility of **manufacturing to measure**
- Optional RAL painting

FRONT



AIRLAM Panel (open / closed)

AIRLAM Panel

AIR INLET

DESCRIPTION

AIRLAM Panel is an **ADS** (*Actuated Safety Device*) that complies with standard **NF S 61937-8 AIR INLETS**.

The difference between the power used to remotely control the ADS lies in the unlocking system:

- Pressurising of opening circuit.
- Emission or breaking the current in the opening circuit.

INFILL

- Basic frame in anodised aluminium, natural colour
- Infill panel in XPS (*extruded polystyrene*) held between two sheets of aluminium
- U_w 2.28 to 4.28 W/m².K
- U_g = 1.71 W/m².K

DIMENSIONS

Min. and **max.** dimensions in **APW** and **APH** (*air passage width and height at the fixed frame*):

- **Width:**
min. 475 mm, max. 1350 mm
- **Height:**
min. 475 mm, max. 1350 mm
- 90° to 120° installation on building front

TYPES OF CONTROL

- **Opening only:**
 - electromagnetic (*emission / break - 24 / 28 V*)
 - pneumatic
- Manual resetting with handle

AIRLAM Panel

AIR INLET

AIRLAM PANEL
example of electromagnetic
opening only



CALCULATED FREE AREA VALUES

- AIRLAM Panel, opening only, with manual reset

Height (mm)		Width (mm)							
		475	600	725	850	975	1100	1225	1350
475	GA (dm²)	17.31	22.51	27.71	32.91	38.11	43.31	48.51	53.71
	CFA without triangle (dm²)	14.99	19.49	23.99	28.50	33.00	37.50	42.01	46.51
	CFA with 1 triangle (dm²)	17.31 (*)	22.51 (*)	27.71 (*)	32.24	36.75	41.25	45.75	50.26
	CFA with 2 triangles (dm²)	17.31 (*)	22.51 (*)	27.71 (*)	32.91 (*)	38.11 (*)	43.31 (*)	48.51 (*)	53.71 (*)
600	GA (dm²)	22.51	29.27	36.03	42.79	49.56	56.32	63.08	69.84
	CFA without triangle (dm²)	19.49	25.35	31.20	37.06	42.92	48.77	54.63	60.49
	CFA with 1 triangle (dm²)	22.51 (*)	29.27 (*)	36.03 (*)	42.79 (*)	49.25	55.11	60.97	66.82
	CFA with 2 triangles (dm²)	22.51 (*)	29.27 (*)	36.03 (*)	42.79 (*)	49.56 (*)	56.32 (*)	63.08 (*)	69.84 (*)
725	GA (dm²)	27.71	36.03	44.36	52.68	61.01	69.33	77.66	85.98
	CFA without triangle (dm²)	23.99	31.20	38.41	45.62	52.83	60.04	67.25	74.46
	CFA with 1 triangle (dm²)	27.71 (*)	36.03 (*)	44.36 (*)	52.68 (*)	61.01 (*)	69.33 (*)	76.85 (*)	84.06 (*)
	CFA with 2 triangles (dm²)	27.71 (*)	36.03 (*)	44.36 (*)	52.68 (*)	61.01 (*)	69.33 (*)	77.66 (*)	85.98 (*)
850	GA (dm²)	32.91	42.79	52.68	62.57	72.46	82.34	92.23	102.12
	CFA without triangle (dm²)	28.50	37.06	45.62	54.19	62.75	71.31	79.87	88.44
	CFA with 1 triangle (dm²)	32.91 (*)	42.79 (*)	52.68 (*)	62.57 (*)	72.46 (*)	82.34 (*)	92.23 (*)	101.98
	CFA with 2 triangles (dm²)	32.91 (*)	42.79 (*)	52.68 (*)	62.57 (*)	72.46 (*)	82.34 (*)	92.23 (*)	102.12 (*)
975	GA (dm²)	38.11	49.56	61.01	72.46	83.91	95.36	106.81	118.26
	CFA without triangle (dm²)	33.00	42.92	52.93	62.75	72.66	82.58	92.50	102.41
	CFA with 1 triangle (dm²)	38.11 (*)	49.56 (*)	61.01 (*)	72.46 (*)	83.91 (*)	95.36 (*)	106.81 (*)	118.26 (*)
	CFA with 2 triangles (dm²)	38.11 (*)	49.56 (*)	61.01 (*)	72.46 (*)	83.91 (*)	95.36 (*)	106.81 (*)	118.26 (*)
1100	GA (dm²)	43.31	53.32	69.33	82.34	95.36	108.37	121.38	134.39
	CFA without triangle (dm²)	37.50	48.77	60.04	71.31	82.58	93.85	105.12	116.39
	CFA with 1 triangle (dm²)	43.31 (*)	53.32 (*)	69.33 (*)	82.34 (*)	95.36 (*)	108.37 (*)	121.38 (*)	134.39 (*)
	CFA with 2 triangles (dm²)	43.31 (*)	53.32 (*)	69.33 (*)	82.34 (*)	95.36 (*)	108.37 (*)	121.38 (*)	134.39 (*)
1225	GA (dm²)	48.51	63.08	77.66	92.23	106.81	121.38	135.96	
	CFA without triangle (dm²)	42.01	54.63	67.25	79.87	92.50	105.12	117.74	
	CFA with 1 triangle (dm²)	48.51 (*)	63.08 (*)	77.66 (*)	92.23 (*)	106.81 (*)	121.38 (*)	135.96 (*)	
	CFA with 2 triangles (dm²)	48.51 (*)	63.08 (*)	77.66 (*)	92.23 (*)	106.81 (*)	121.38 (*)	135.96 (*)	
1350	GA (dm²)	53.71	69.84	85.98	102.12	118.26	134.39	150.53	
	CFA without triangle (dm²)	46.51	60.49	74.46	88.44	102.41	116.39	130.36	
	CFA with 1 triangle (dm²)	53.71 (*)	69.84 (*)	85.98 (*)	102.12 (*)	118.26 (*)	134.39 (*)	150.53 (*)	
	CFA with 2 triangles (dm²)	53.71 (*)	69.84 (*)	85.98 (*)	102.12 (*)	118.26 (*)	134.39 (*)	150.53 (*)	

(*) Where the CFA (Calculated Free Area) value is greater than the GA (Geometric Area), the GA value is to be used (see NFS 61937-8).

AIRLAM Panel

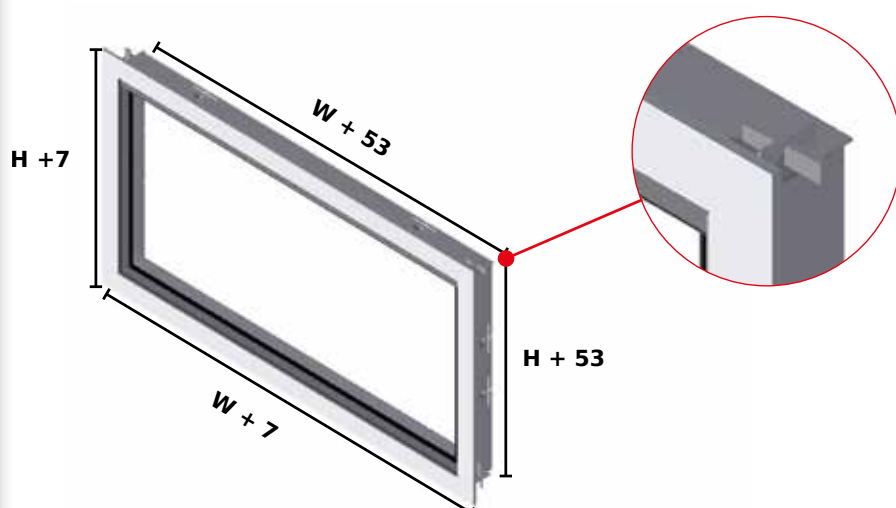
AIR INLET

GROUTING FRAME KIT

The grouting frame is a joining element that makes it possible to seal the frame of the air inlet into the wall.

Its use is recommended with concrete walls (*except shuttered concrete and metal structure*).

- Delivery in kit form, rapid assembly with keys
- Dimensions:
 - Nominal dimensions of air inlet = $W \times H$
 - Interior dimensions of frame = $(W+7) \times (H+7)$
 - Overall exterior dimensions = $(W+53) \times (H+53)$



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AIRLAM V2

AIR INLET

AIRLAM V2

KEY FEATURES

AIRLAM V2 is a remote controlled **air inlet for building fronts**, designed for all types of building.

This actuated safety device is placed at the bottom of the premises to be cleared of smoke, in order to **create a draught for the NSHEVs on the roof or the front of the building**.



AIRLAM V2 - open

Compliant with
NF S 61937-8
AIR INLETS

FEATURES

- **Wide range of dimensions**
- **High finish quality**
- **Manufactured to measure** for the width
- **Several controls possible**
O/C and opening only versions (*opening only with manual reset*)
- May be integrated **into a door**
- Optional **thermal insulation**
- Optional **RAL painting**



AIRLAM V2 - closed

FRONT



AIRLAM V2
example of installation
Architect X

AIRLAM V2

AIR INLET

DESCRIPTION

AIRLAM V2 is an **ADS** (*Actuated Safety Device*) that complies with standard **NF S 61937-8 AIR INLETS**.

It is made up of a frame and extruded aluminium louvres.

The louvres are synchronised by rods and drive opening:

- **Safety position:**
The louvres are opened by an oil pneumatic, pneumatic or electric actuator.
- **Standby position:**
The louvres are held closed by a remote controlled lock (*electromagnetic or pneumatic*) or the electric / pneumatic actuator.

PERFORMANCE

- Ug 5.88 W/m².K for the standard version
- Ug 1.47 W/m².K for the insulated version

DIMENSIONS *(depending on control type)*

Min. and **max.** dimensions in **APW** and **APH** (*air passage width and height at the fixed frame*):

- **Width:**
min. 330 mm, max. 1350 mm
- **Height:**
min. 350 mm, max. 1350 mm

TYPES OF CONTROL

- **Opening only:**
 - electromagnetic (*emission / break - 24 / 28 V*)
 - pneumatic
 - manual or electric resetting
- **Opening / closing:**
 - electric
 - pneumatic

AIRLAM V2

AIR INLET

AIRLAM V2
different types of control



Opening only,
electric or pneumatic



Opening only,
electric resetting



Electric opening / closing



Pneumatic opening / closing

CALCULATED FREE AREA VALUES

• AIRLAM V2 opening only with electric resetting, INSULATED VERSION

Height (mm)	No. of louvres		Width (mm)								
			330	475	600	725	850	975	1100	1225	1350
600	4	GA (m ²)	0.15	0.23	0.29	0.36	0.43	0.50	0.56	0.63	0.70
		CFA (dm ²)	7.07	12.66	17.48	22.30	27.12	31.94	36.76	41.58	46.40
725	5	GA (m ²)	0.18	0.28	0.36	0.44	0.53	0.61	0.69	0.78	0.86
		CFA (dm ²)	9.57	16.55	22.56	28.58	34.60	40.61	46.63	52.64	58.66
850	6	GA (m ²)	0.21	0.33	0.43	0.53	0.63	0.72	0.82	0.92	1.02
		CFA (dm ²)	12.07	20.44	27.65	34.86	42.07	49.28	56.49	63.70	70.91
975	7	GA (m ²)	0.25	0.38	0.50	0.61	0.72	0.84	0.95	1.07	1.18
		CFA (dm ²)	14.58	24.33	32.73	41.14	49.54	57.95	66.36	74.76	83.17
1100	8	GA (m ²)	0.28	0.43	0.56	0.69	0.82	0.95	1.08	1.21	1.34
		CFA (dm ²)	17.08	28.22	37.82	47.42	57.02	66.62	76.22	85.82	95.42
1225	9	GA (m ²)	0.32	0.49	0.63	0.78	0.92	1.07	1.21	1.36	
		CFA (dm ²)	19.58	32.10	42.90	53.70	64.49	75.29	86.08	96.88	
1350	10	GA (m ²)	0.35	0.54	0.70	0.86	1.02	1.18	1.34	1.51	
		CFA (dm ²)	22.08	35.99	47.98	59.98	71.97	83.96	95.95	107.94	

AIRLAM V2

AIR INLET

CALCULATED FREE AREA VALUES

- AIRLAM V2 opening only, manual resetting, INSULATED

Height (mm)	No. of louvres		Width (mm)								
			330	475	600	725	850	975	1100	1225	1350
350 (*)	2	GA (m²)		0.12	0.16	0.19	0.23	0.27	0.30	0.34	0.38
		CFA (dm²)		6.57	9.00	11.43	13.86	16.29	18.72	21.15	23.58
475 (*)	3	GA (m²)		0.17	0.23	0.28	0.33	0.38	0.43	0.49	0.54
		CFA (dm²)		10.46	14.08	17.71	21.34	24.96	28.59	32.21	35.84
600	4	GA (m²)	0.15	0.23	0.29	0.36	0.43	0.50	0.56	0.63	0.70
		CFA (dm²)	8.76	14.35	19.17	23.99	28.81	33.63	38.45	43.27	48.09
725	5	GA (m²)	0.18	0.28	0.36	0.44	0.53	0.61	0.69	0.78	0.86
		CFA (dm²)	11.26	18.24	24.25	30.27	36.28	42.30	48.32	54.33	60.35
850	6	GA (m²)	0.21	0.33	0.43	0.53	0.63	0.72	0.82	0.92	1.02
		CFA (dm²)	13.76	22.13	29.34	36.55	43.76	50.97	58.18	65.39	72.60
975	7	GA (m²)	0.25	0.38	0.50	0.61	0.72	0.84	0.95	1.07	1.18
		CFA (dm²)	16.26	26.01	34.42	42.83	51.23	59.64	68.04	76.45	84.86
1100	8	GA (m²)	0.28	0.43	0.56	0.69	0.82	0.95	1.08	1.21	1.34
		CFA (dm²)	18.77	29.90	39.50	49.11	58.71	68.31	77.91	87.51	97.11
1225	9	GA (m²)	0.32	0.49	0.63	0.78	0.92	1.07	1.21	1.36	
		CFA (dm²)	21.27	33.79	44.59	55.38	66.18	76.98	87.77	98.57	
1350	10	GA (m²)	0.35	0.54	0.70	0.86	1.02	1.18	1.34	1.51	
		CFA (dm²)	23.77	37.68	49.67	61.66	73.65	85.65	97.64	109.63	

(*) Heights 350 and 475 mm: only for manual reset AIRLAM V2

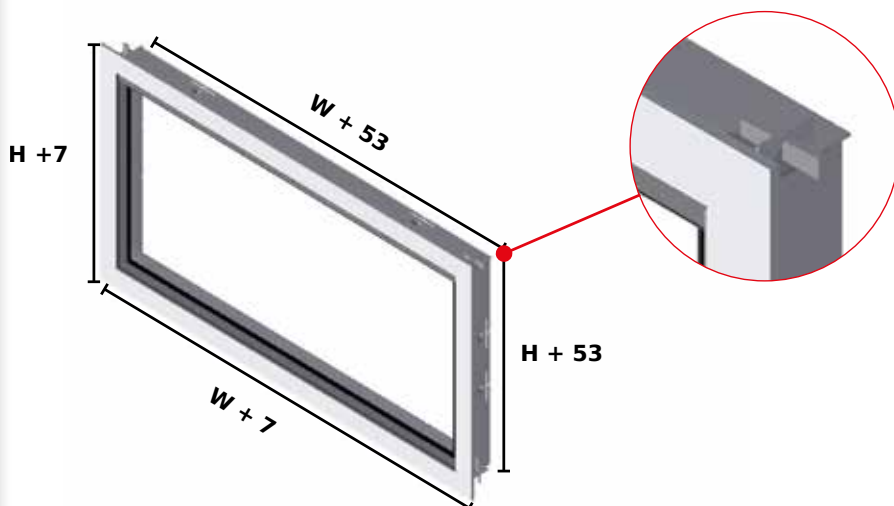
- Calculated free area values for standard versions and other controls, *please enquire*.

GROUTING FRAME KIT

The grouting frame is a joining element that makes it possible to seal the frame of the air inlet into the wall.

Its use is recommended with concrete walls (*except shuttered concrete and metal structure*).

- Delivery in kit form, rapid assembly with keys
- Dimensions:
 - Nominal dimensions of air inlet = $W \times H$
 - Interior dimensions of frame = $(W+7) \times (H+7)$
 - Overall exterior dimensions = $(W+53) \times (H+53)$



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CERTILAM F

LOUVRE VENTILATOR

KEY FEATURES

Thanks to its hinged louvres, **CERTILAM F** combines natural smoke control and ventilation.

Its **varied frame profiles** allow it to be used in most configurations encountered in buildings.



NF S 61937-8
compliance
in progress



FEATURES

- **Wide dimensional range**
- **Numerous frame profiles** that can adapt to all types of configuration
- Manufactured **to measure**
- **Choice of controls** (*electric, pneumatic or mechanical opening and closing*)
- **Smoke control and/or ventilation** function
- Plain or anodised aluminium finish, or RAL coating



CERTILAM F open / closed
Lycée Jay de Beaufort (Périgueux) - © Architect X

CERTILAM F

VENTILATORS FOR
BUILDING FRONTS

DESCRIPTION

CERTILAM F is an **NSHEV** (*natural smoke and heat exhaust ventilator*) with **CE - NF EN 12101-2** certification and **NF-DENFC** marking.

PERFORMANCE

- **Impact resistance:** 900 Joules
- **Reliability class:**
Re 1000 (+ 10,000) in mechanical and pneumatic mode
Re 300 (+ 10,000) in mechanical mode,
dual function permitted
- **Air flow performance:** Cv 0.5 to 0.62
depending on dimensions
- **Static wind resistance:** WL = 1 500 Pa
- **Low temperature:**
T(-25) pneumatic and mechanical mode
T(-15) electric mode
T(00) rotating positive safety mode
- **Temperature elevation:** B 300 °C
- **Reaction to fire** (*dependent on infill*)
- **Ug:** 1.47 W/m².K for insulated louvres

DIMENSIONS

depending on type of control and infill

Manufactured to measure:

- **Opening width per frame:**
min. 500 mm, max. 2400 mm
- **Opening height per frame:**
min. 398 mm, max. 3054 mm
- **Av^(*):** min. 0.2 m², max. 6 m²

^(*) formerly GA: Geometrical area

TYPES OF CONTROL

- 24 VDC electric O/C and rotating positive safety
- Pneumatic O/C and positive safety
- Mechanical O/C

CERTILAM F

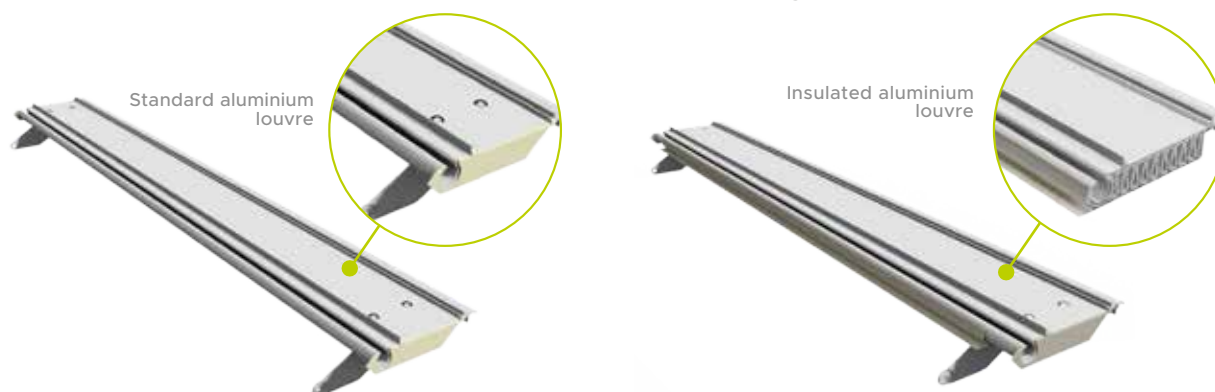
VENTILATORS FOR
BUILDING FRONTS

CERTILAM F
different configurations of installation



INFILL

- Plain or anodised aluminium or RAL painted louvre
- Aluminium louvre with sound or thermal insulation in PVC housing



PROFILES

- Perimeter frames in extruded aluminium for adaptation to all building structures
- Several profiles are available, *depending on adaptation to existing construction (see following page)*

OPTIONS

- Thermal tripping mechanism (70, 100, 140 and 180°) *depending on the installation*
- Safety and standby position contacts (*safety option*)

FITTING TYPE

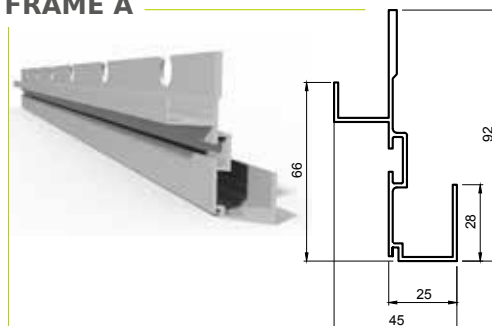
- Fitting at 60° or 120° *in relation to the horizontal*
except frame D (see following page): fitting at 90°
- Shed fitting on all profiles

CERTILAM F

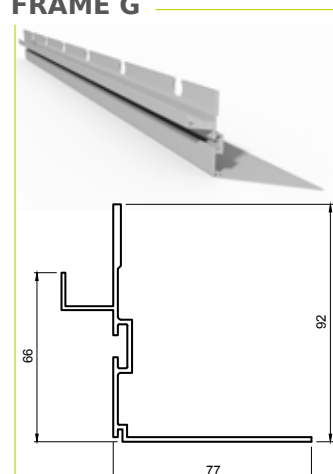
VENTILATORS FOR
BUILDING FRONTS

FRAME PROFILES

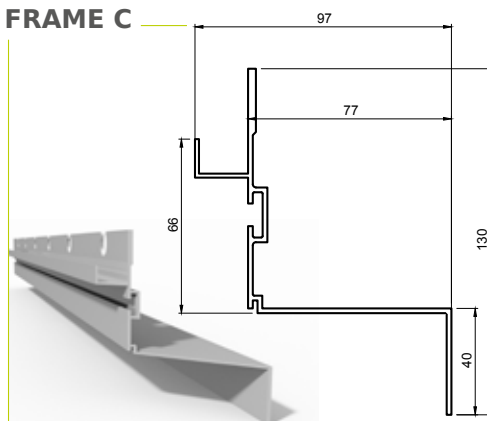
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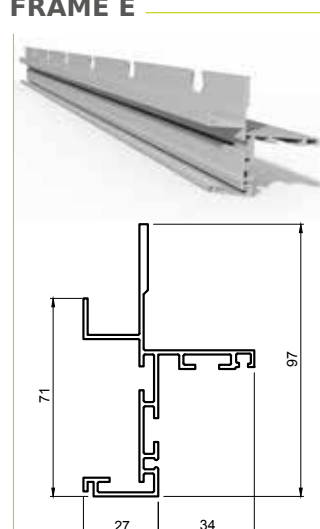
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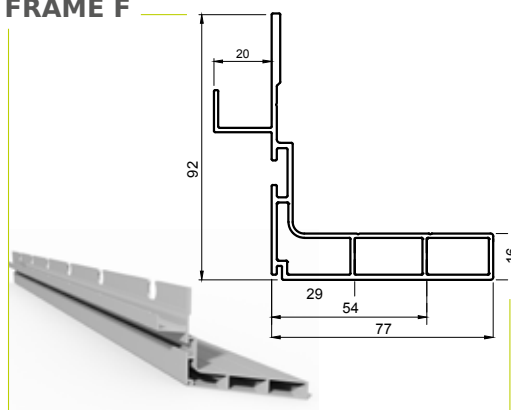
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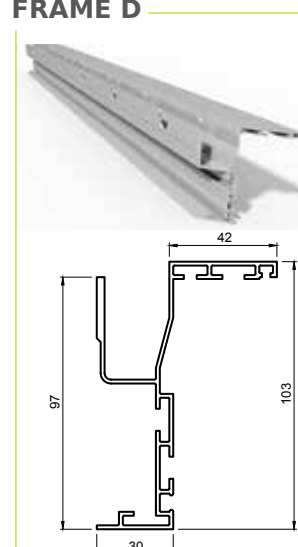
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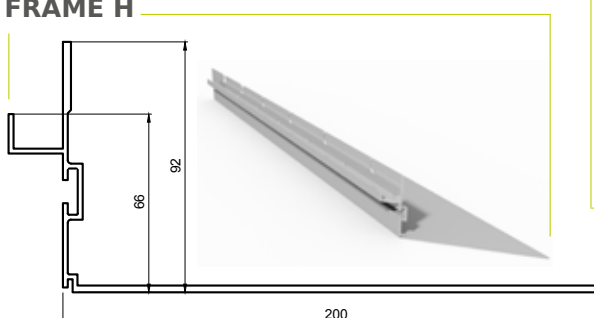
FRAME F



FRAME D



FRAME H



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CERTILUX F

LOUVRE VENTILATOR

KEY FEATURES

The turning transparent louvres of **CERTILUX F** combine **natural smoke control** and **lighting**.

Its **different frame profiles** allow CERTILUX F to be used in most configurations encountered in buildings.



NF S 61937-8
compliance
in progress



FEATURES

- **Wide dimensional range**
- **Numerous frame profiles** that can adapt to all types of configuration
- Manufactured **to measure**
- **Choice of controls** (*electric, pneumatic or mechanical opening and closing*)
- **Smoke control and/or ventilation** function
- Plain or anodised aluminium finish, or RAL coating



CERTILUX F
Crédit Agricole de
Touraine Poitou (Poitiers)
© DMT Architectes



CERTILUX F

VENTILATORS FOR
BUILDING FRONTS

DESCRIPTION

CERTILUX F is a **NSHEV** (*natural smoke and heat exhaust ventilator*) with **CE - NF EN 12101-2** certification and **NF-DENFC** marking.

PERFORMANCE

- **Reliability class:**
Re 1000 (+ 10,000) in mechanical and pneumatic mode
Re 300 (+ 10,000) in mechanical mode,
dual function permitted
- **Air flow performance:** Cv 0.5 to 0.62
depending on dimensions
- **Static wind resistance:** WL = 1 500 Pa
- **Low temperature:**
T(-25) pneumatic and mechanical mode
T(-15) electric mode
T(00) rotating positive safety mode
- **Temperature elevation:** B 300 °C
- **Reaction to fire** (*dependent on infill*)
- **Ug:** 2.4 W/m².K for polycarbonate louvres

DIMENSIONS

depending on type of control and infill

Manufactured to measure:

- **Opening width per frame:**
min. 500 mm, max. 2000 mm
- **Opening height per frame:**
min. 503 mm, max. 3018 mm
- **Av^(*):** 0.25 m² to 6 m²
(*) formerly GA: Geometrical area

TYPES OF CONTROL

- 24 VDC electric O/C and rotating positive safety
- Pneumatic O/C and positive safety
- Mechanical O/C

CERTILUX F

VENTILATORS FOR
BUILDING FRONTS

CERTILUX F
Banque Populaire
Atlantique (Nantes)
© DMT Architectes



INFILL

- Alveolar polycarbonate: 10 mm (clear, pearly)
- Glazing: 10 mm glass



Polycarbonate louvre



Glass louvre

PROFILES

- Perimeter frames in extruded aluminium for adaptation to all building structures
- Several profiles are available, *depending on adaptation to existing construction (see following page)*

OPTIONS

- Thermal tripping mechanism (70, 100, 140 and 180°) *depending on the installation*
- Safety and standby position contacts (*safety option*)

FITTING TYPE

- Fitting at 60° or 120° *in relation to the horizontal except frame D (see following page): fitting at 90°*
- Shed fitting on all profiles

CERTILUX F

VENTILATORS FOR
BUILDING FRONTS

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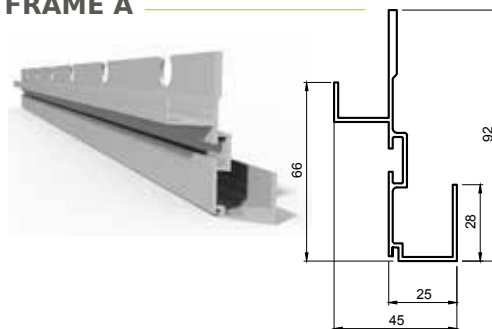
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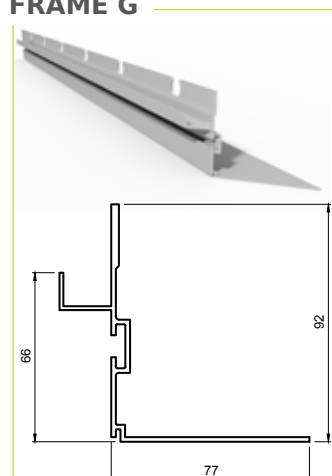
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FRAME PROFILES

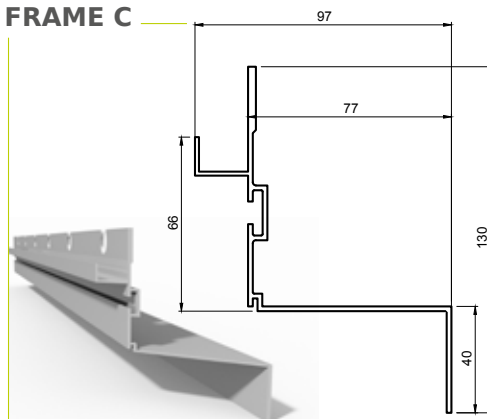
FRAME A



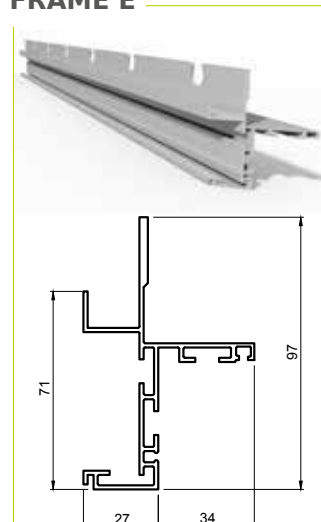
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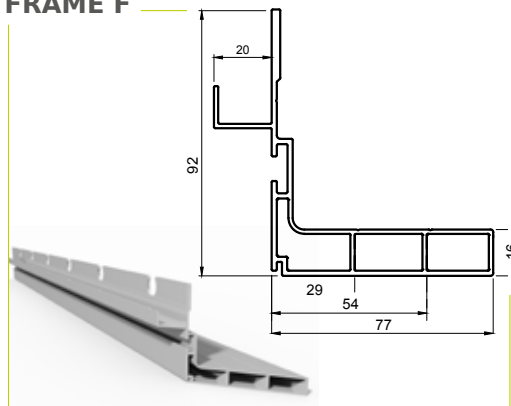
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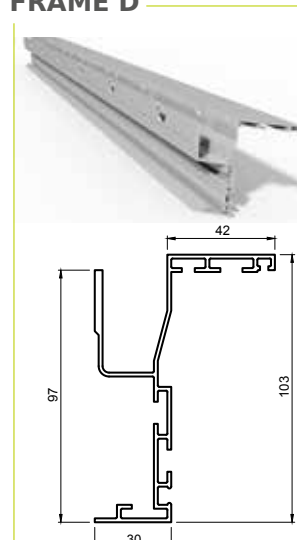
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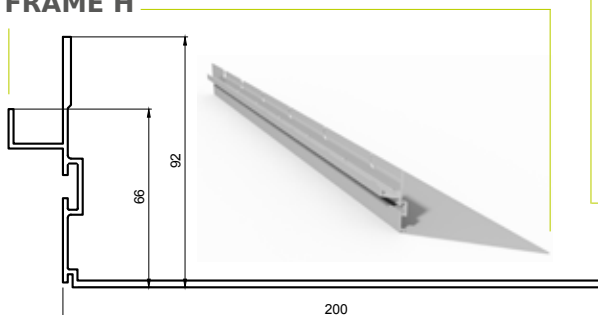
FRAME F



FRAME D



FRAME H



LAM'AIR

GRILLE D'HABILLAGE INTÉRIEUR

LAM'AIR

KEY FEATURES

LAM'AIR is an aluminium louvre grille designed to **clad the inside of fresh air inlets** for natural or mechanical smoke control.



Lam'Air



Lam'Air, removable grille

FEATURES

- Rugged, with high quality finish
- Flush or surface fitting
- Fixed or removable grille *according to installation type and requirements*
- Extruded aluminium finish, anodised, natural colour or painted (*optional*)

FRONT



SURFACE FITTED



FLUSH FITTED

LAM'AIR

INTERIOR CLADDING GRILLE

DIMENSIONS

- **Min.:** W 475 x H 350 mm
- **Max.:** W 1225 x H 1350 mm

FASTENERS

- Flush screw fasteners - **The louvres must be in the horizontal direction.**

TYPES OF FITTING

- **SURFACE FITTING**, with 2 possible finishes:

Fixed central core, *GAF range (fixed version)*

Removable central core, *GAD range (removable version)*

Height (mm)	No. of louvres	Width (mm)								
		330	475	600	725	850	975	1100	1225	1350
350	2		475 x 350	600 x 350	725 x 350	850 x 350	975 x 350	1100 x 350	1225 x 350	1350 x 350
475	3		475 x 475	600 x 475	725 x 475	850 x 475	975 x 475	1100 x 475	1225 x 475	1350 x 475
600	4	330 x 600	475 x 600	600 x 600	725 x 600	850 x 600	975 x 600	1100 x 600	1225 x 600	1350 x 600
725	5	330 x 725	475 x 725	600 x 725	725 x 725	850 x 725	975 x 725	1100 x 725	1225 x 725	1350 x 725
850	6	330 x 850	475 x 850	600 x 850	725 x 850	850 x 850	975 x 850	1100 x 850	1225 x 850	1350 x 850
975	7	330 x 975	475 x 975	600 x 975	725 x 975	850 x 975	975 x 975	1100 x 975	1225 x 975	1350 x 975
1100	8	330 x 1100	475 x 1100	600 x 1100	725 x 1100	850 x 1100	975 x 1100	1100 x 1100	1225 x 1100	1350 x 1100
1225	9	330 x 1225	475 x 1225	600 x 1225	725 x 1225	850 x 1225	975 x 1225	1100 x 1225	1225 x 1225	
1350	10	330 x 1350	475 x 1350	600 x 1350	725 x 1350	850 x 1350	975 x 1350	1100 x 1350	1225 x 1350	

- **FLUSH FITTED**

Removable central core, *GEO range (removable version)*

Height (mm)	No. of louvres	Width (mm)								
		330	475	600	725	850	975	1100	1225	1350
350	2		475 x 350	600 x 350	725 x 350	850 x 350	975 x 350	1100 x 350	1225 x 350	1350 x 350
475	3		475 x 475	600 x 475	725 x 475	850 x 475	975 x 475	1100 x 475	1225 x 475	1350 x 475
600	4	330 x 600	475 x 600	600 x 600	725 x 600	850 x 600	975 x 600	1100 x 600	1225 x 600	1350 x 600
725	5	330 x 725	475 x 725	600 x 725	725 x 725	850 x 725	975 x 725	1100 x 725	1225 x 725	1350 x 725
850	6	330 x 850	475 x 850	600 x 850	725 x 850	850 x 850	975 x 850	1100 x 850	1225 x 850	1350 x 850
975	7	330 x 975	475 x 975	600 x 975	725 x 975	850 x 975	975 x 975	1100 x 975	1225 x 975	1350 x 975
1100	8	330 x 1100	475 x 1100	600 x 1100	725 x 1100	850 x 1100	975 x 1100	1100 x 1100	1225 x 1100	1350 x 1100
1350	10	330 x 1350	475 x 1350	600 x 1350	725 x 1350	850 x 1350	975 x 1350	1100 x 1350	1225 x 1350	

OPTIONAL

- RAL painted finish



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LUXLAME F

LOUVRE VENTILATOR

**FINEST LOUVRE JOINT IN THE
MARKET with
38 mm LUXLAME F Vision**

KEY FEATURES

LUXLAME F windows are systems with turning louvres that are used for **smoke control** and **ventilation**.

LUXLAME F combines aesthetic appeal and large dimension; it harmonises with the architecture of the front and offers very high **thermal and sound insulation**.

LUXLAME F is available in two versions: **LUXLAME F Thermal barrier** (opaque or glazed louvres) and **LUXLAME F Vision** for an improved appearance of fully glazed surfaces.



Luxlame F Vision



Compliant
NF S 61937-8



Luxlame F Thermal barrier

FEATURES

- **Wide height range:** two ventilators can be assembled above each other with no intermediate cross member.
- Possibility of a **350 mm ventilator with one louvre** (pneumatic O/C).
- **Highly rigid assembly** between louvres and frame.
- **Continuous or local covers**.
- **Large glazed surface** and **structural glazing type finish on the inside and outside** of the device (*Vision model*).
- High acoustic performance.
- Impact resistance: 900 Joules.



LUXLAME F Thermal barrier - Town hall (Meyzieu)



LUXLAME F Thermal barrier - Urbalad Michelin (Clermont-Ferrand)

LUXLAME F

VENTILATORS FOR
BUILDING FRONTS

DESCRIPTION

LUXLAME F is an **NSHEV** (*natural smoke and heat exhaust ventilator*) with **CE - NF EN 12101-2 certification**. Both its version have **NF-SHEV** marking and comply with **NF S 61937-8 AIR INLETS**.

PERFORMANCES

- Reliability class: Re 1000 (+ 10,000)
Dual function permitted
Reliability class: Re 1000 **in opening only**
- Air flow performance: Cv 0.52 to 0.6
depending on dimensions
- Temperature elevation: B 300°C
- WL 3 000
- Uw (*dependent on glazed infill*)

DIMENSIONS (*depending on control energy*)

- **Smoke control and ventilation:**
Min. and max. dimensions in W and H
(*overall width and height*)
Min.: 500 x 350 mm / **Max.:** 2.000 x 3.000 mm
Other dimensions: *please enquire*
- **Variable** louvre pitch: 200 to 400 mm
- **Av:** 0.12 to 5.6 m²
- **Maximum weight of infill:** 50 kg/m²

TYPES OF CONTROL

- **Open/Close:**
electric/pneumatic/positive safety
- **Open only:**
electric/manual or electric resetting

LUXLAME F

VENTILATORS FOR
BUILDING FRONTS

LUXLAME F Vision
closed / open on curtain wall



INFILL

LUXLAME F THERMAL BARRIER:

- Insulating double glazing or insulating plate
- Thickness: 24 or 32 mm
- Minimum glass: 33.2/10/33.2, 6 Float/10/33.2, 33.2/10/6 Float or opaque 24 mm

LUXLAME F Vision:

- Insulating double glazing
- Thickness: 45 or 49 mm
- Minimum glass: 44.2/27/44.2, 8 Float/27/44.1, 44.2/27/8 Float, 55.2/27/55.2, 8 Float/27/55.2 or 55.2/27/8 Float

PROFILES

- Aluminium profiles frame (*thermal barrier*), thickness: 60 mm
- Anodised, powder coated (*RAL color*) or plain profile
- Opening angle: 88° +/- 2°
- **Acoustic attenuation:**

LUXLAME F THERMAL BARRIER: Rw 41 dB with glazed version
Rw 38 dB with opaque version

LUXLAME F Vision: Rw 40 dB

OPTIONS

- Position contact
- Railing function depending on louvre pitch and recommendations
- Coupling, joining of profiles
- Cables outlets if needed
- Lifting eyes for fitting the frame

FITTING PRINCIPLE

- Specific adaptation profiles for curtain walls, masonry or window elements
- 90° to 120° installation on building front

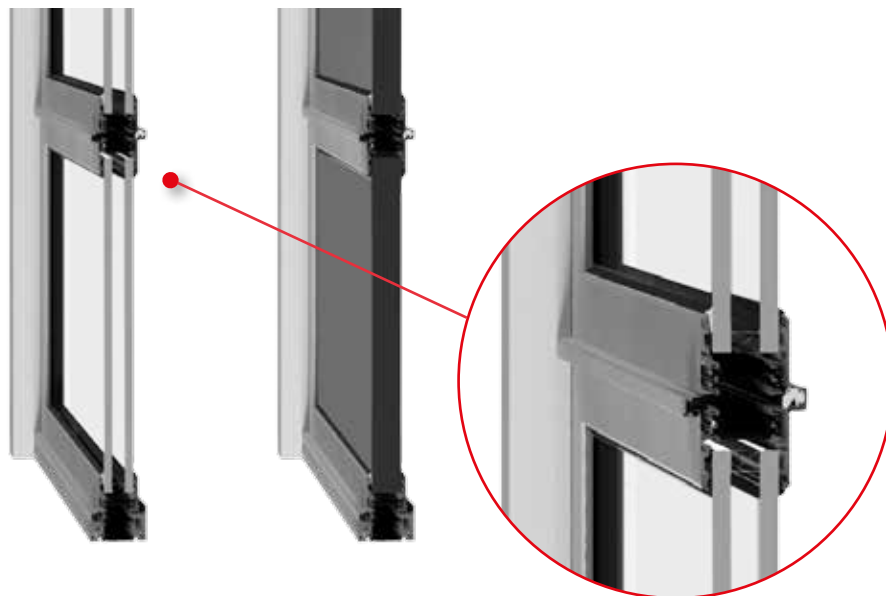
LUXLAME F

VENTILATORS FOR
BUILDING FRONTS

LUXLAME F THERMAL BARRIER

GLAZED SOLUTION

"TÔLÉE ISOLÉE" SOLUTION

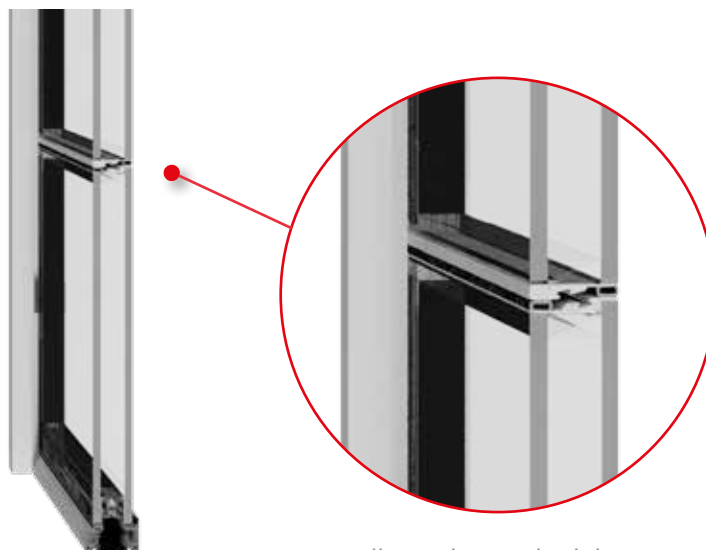


dimension at the joints
of louvres:

93,5 mm

LUXLAME F Vision

VERTICAL SECTION



dimension at the joints
of louvres:

38 mm

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GESTION ÉNERGETIQUE

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OTF

LEAF VENTILATOR

**OPTIMISED DELIVERY
TIME**

KEY FEATURES

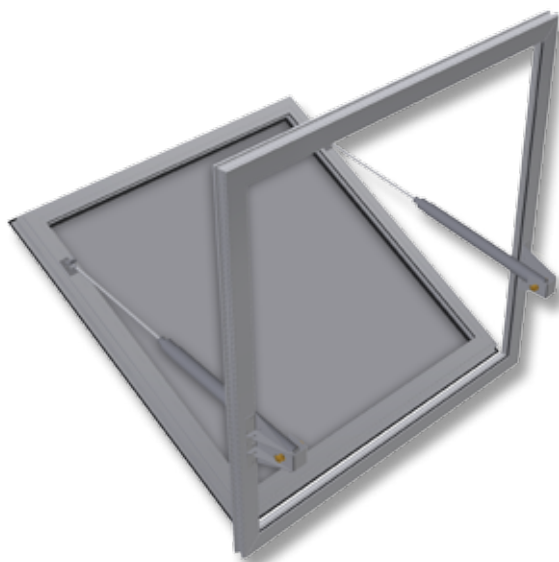
OTF (remote-controlled window) is the ideal ventilator for those who are looking for a **ventilation/smoke control solution**.

Made to measure to suit the architecture modules, it offers high quality and many possibilities of use.



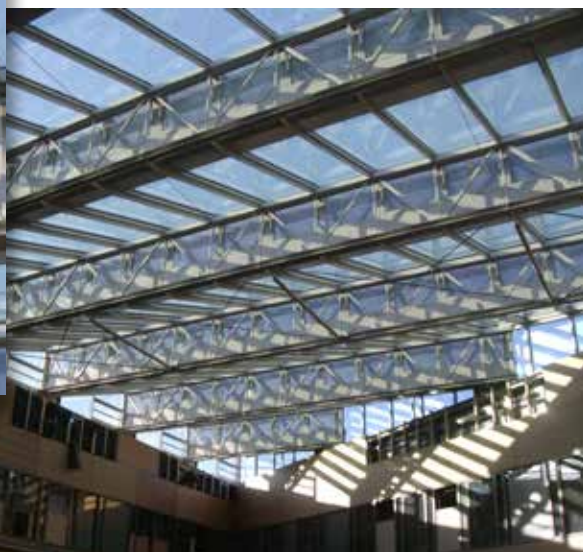
**NF S 61937-8
compliant**
except elect. O/C
via chain actuator

except
chain actuator



FEATURES

- **Wide dimensional range**
- **High thermal performance** (thermal barrier profile)
- **Wide range of controls** (electric opening only, pneumatic opening only, electric O/C (with actuators or chain actuator), pneumatic O/C, mechanical O/C)
- **Choice of glazing**
- **Weight of opening frame:** > 60 kg



Hôtel de Région (Lyon)
© Christian de Portzamparc - architect

OTF

VENTILATORS FOR
BUILDING FRONTS

DESCRIPTION

OTF (*remote-controlled window*) is a **NSHEV** (*natural smoke and heat exhaust ventilator*), with **CE - NF EN 12101-2** certification and **NF-DENFC** marking (*except for control using a chain actuator*).

It also complies with **NF S 61937-8 AIR INLETS** for all its controls except electric O/C (*opening/closing*) using a chain actuator.

PERFORMANCE

- **Reliability class:**
Re 1000 (+ 10,000) / dual function permitted
Re 1000 **in opening only mode, mechanical**
- **Air flow performance:** Cv 0.22 to 0.64
depending on dimensions and opening angles
- **Static wind resistance:** WL = 1 500 Pa
- **Low temperature:** T(00)
T(-25) with electric and pneumatic
(*except chain actuator*)
- **Temperature elevation:** B 300 °C
- **Reaction to fire** (*dependent on infill*)
- **Ug min.:** 0.85 W/m².K *for opaque thermal complexes*
Ug min.: 1.1 W/m².K *for glazed products*

DIMENSIONS

Min. and max. dimensions in W and H (*overall width and height*):

- **For bottom hung/top hung/inward opening:**
Min.: 694 x 694 mm
Max.: 1744 x 1744 mm or 2544 x 1344 mm
- **For bottom hung/top hung/outward opening:**
Min.: 666 x 666 mm
Max.: 1716 x 1716 mm or 2516 x 1316 mm
- **Side hung, outward opening:**
Min.: 666 x 1216 mm
Max.: 1015 x 1915 mm or 916 x 2516 mm
- **Side hung, inward opening:**
Mini : 694 x 1244 mm
Maxi : 1043 x 1943 mm or 944 x 2544 mm
- **Variable maximum weight of opening frame:**
depending on product characteristics

OTF

VENTILATORS FOR BUILDING FRONTS



Val d'Europe shopping centre
(Marne-La-Vallée)
© Architects CRP - Cooper, Robertson & Partners

Jean Bouin stadium (Paris)
© Rudy Ricciotti - architect



TYPES OF CONTROL

- **Opening / closing:**
electric / pneumatic/ mechanical
- **Opening only:**
electric / pneumatic

INFILL

- Infill as required
- 3 to 35 mm glazing assembly for STD and 9 to 41 mm for thermal barrier
- Possibility of specific infill (*sound or thermal insulation, etc.*)
(*Rw 43 dB*)

PROFILES

- Conventional window (STD)
- Thermal barrier window

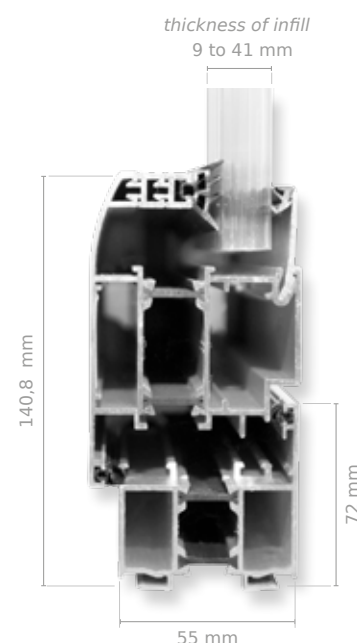
OPTIONS

- Adaptation on curtain wall
- Thermal tripping mechanism (70, 100, 140 and 180°) *depending on the installation*
- Aluminium covers on opening systems (*for mechanical O/C or opening only*)
- Contact in travel start/end position
- Anodised or RAL painted finish
- Painted actuators
- Guards, seal covers, link between frames

FITTING TYPE

- Vertical installation on building front

Example of outward opening profile
(section of frame)



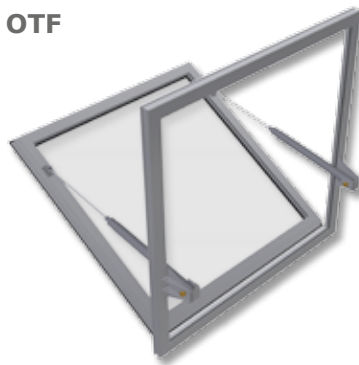
OTF

VENTILATORS FOR BUILDING FRONTS

OTF RANGE

OTF is the ideal ventilator for **ventilation / smoke control**. It is available in the following range:

- **OTF**



Made to measure for harmony with the architecture modules, **OTF** offers **high quality** and **many possibilities of use**.

- **OTF V2**



OTF V2 offers **cleaner lines** and **improved thermal performance**.

Its large choice of controls makes it a **solution for many types of applications**.

- **OTF Vision**



OTF Vision offers the same benefits and characteristics as OTF V2, along with **the integration of cables and wires**.



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OTF V2 / OTF Vision

LEAF VENTILATORS

**CABLES AND WIRES
CONCEALED in
VISION model**

KEY FEATURES

OTF V2 and **OTF Vision** are ventilators that combine **ventilation** with **smoke control**.

They offer **cleaner lines** and **improved thermal performance**. Their wide choice of controls enables them to be the ideal product for many types of application.

OTF Vision has the additional characteristic of **integrating** the **electrical cables** or **wires**.



**NF S 61937-8
compliance**

NF-NSHEV
except chain actuator
and positive safety



device with a
chain actuator

FEATURES

- **High finish quality**
- **Wide range of dimensions**
- **Improved thermal performance**
- **Wide range of controls**
Electric O/C (with actuators or chain actuator),
pneumatic O/C, mechanical O/C (only with OTF V2).
- **Variable opening angle**
- **Wide choice of glazing**
- **Variable weight of opening frame**

OTF V2



Visible cables and wires.

OTF Vision



CONCEALED cables and wires.

OTF V2 / OTF Vision

VENTILATORS FOR
BUILDING FRONTS

DESCRIPTION

OTF V2 and **OTF Vision** are **NSHEVs** (natural smoke and heat exhaust ventilators) with **CE - NF EN 12101-2** certification and **NF-NSHEV** marking (except controls with chain actuator and positive safety); compliance with NF S 61937-8 AIR INLETS is in progress.

PERFORMANCE

- **Reliability class:**
pneumatic and electric O/C:
Re 1000 (+ 10,000) / dual function permitted
with mechanical O/C and positive safety:
Re 1000
- **Air flow performance:** Cv 0.69 maximum
depending on dimensions and opening angles
- **Static wind resistance:** WL = 1 500 Pa
- **Low temperature:** T(00)
- **Temperature elevation:** B 300 °C
- **Reaction to fire** (dependent on infill)
- **Uw:** depending on infill
(E.g.: using 24 mm infill with Ug 1.1 W/m².K, the Uw is 1.6 W/m².K for 1600 x 2500 mm overall)

DIMENSIONS

- Min. and max. dimensions in W and H (overall width and height):
Width (height depending on width):
Min.: 416 mm
Max.: 2712 mm
Height (width depending on height):
Min.: 416 mm
Max.: 2678 mm
- **Bottom or top hung:**
Torque 415 N.m or 600 N.m
- **Side hung, inward or outward opening:**
Maximum weight of opening frame: 100 kg

OTF V2 / OTF Vision

VENTILATORS FOR
BUILDING FRONTS

ventilator with chain actuator
adaptation on curtain wall



TYPES OF CONTROL

- **OTF V2: opening / closing**
electric / pneumatic / positive safety / mechanical
- **OTF Vision: opening / closing**
electric / pneumatic (*on inward opening pneumatic control*) / positive safety

INFILL

- 10 to 47 mm glazing assembly
- Possibility of specific infill (*sound or thermal insulation, etc.*)
please enquire

PROFILES

- Thermal barrier window

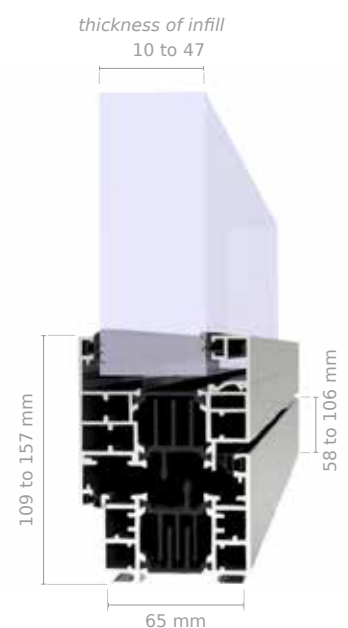
OPTIONS

- Adaptation on curtain wall
- Thermal tripping mechanism *depending on the installation*
- Aluminium covers on opening devices depending on type of control (*for OTF V2*)
- Contact in travel start/end position
- Anodised or RAL painted finish
- Painted actuators
- Guards
- Joint covers
- Links between frames

FITTING TYPE (*on vertical front*)

- Fitting angle between 60° and 120° *for outward opening*
- 90° *for inward opening*
- Fitting angle below 90°: *please enquire*

Example of outward
opening profile
(section of frame)



OTF V2 / OTF Vision

VENTILATORS FOR
BUILDING FRONTS

OTF RANGE

OTF is the ideal ventilator for **ventilation / smoke control**. It is available in the following range:

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OTF V2 offers **cleaner lines** and **improved thermal performance**.

Its large choice of controls makes it a **solution for many types of applications**.

- **OTF Vision**



OTF Vision offers the same benefits and characteristics as OTF V2, along with **the integration of cables and wires**.



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