LAMILUX Airstream Louvre Window.

Technical data sheet.

The AIRSTREAM louvre window provides natural ventilation and EN12101-2 certified smoke and heat extraction in the event of a fire. Fabricated from a fully thermally separated aluminium framework, it is perfectly suited for integration into the façades of industrial and commercial buildings.

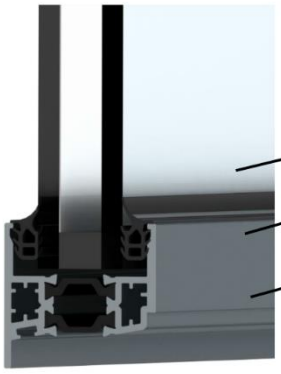
The AIRSTREAM stands out for its quick and easy installation, simple maintenance, and dependable performance. Each part is easily accessible and replaceable, ensuring the system stays functional and efficient for the long term.

Technical data.

- Vertical installation (90°)
- Certified smoke vent to EN 12101-2:2003
- Aerodynamic values 0.17m² - 2.07m² (dependent on size – See pg. 4)
- Cold T(-15)
- Tightness against driving rain according to DIN EN 1027 = 4A
- Air permeability according to DIN EN 1026 = class 3
- Resistance to wind load: WL 1500
- Colour (aluminium profiles): Available mill-finish or powder-coated in Ral Classic:
    - Ral 7016 matt (anthracite grey)
    - Ral 9016 matt (traffic white)

Gloss finish and alternative colour options available on request. Contact our sales office for more information.

Materials.



Glazing: different glazing options available. See page 2

EPDM seals: slip-coated, silicone-free to ensure optimum air and water tightness

Aluminium | A1

The louvre window also has a run-off-proof drainage system in the base area to prevent water ingress

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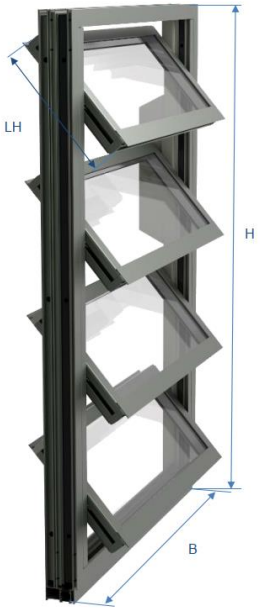
Dimensions.

Note: The order dimensions refer to the external dimensions of the louvre window.



Window width B: 400 – 1400mm
(increment 1mm)

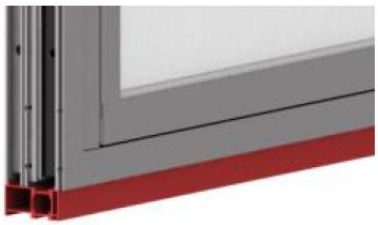
Window height H: 500 – 2500mm
(increment 1mm)

Slat height LH; 150 – 400mm

The technical feasible slat number and height of slats automatically results from the selected window width and height.

In case of an installation opening wider than 1400mm, several louvre windows may be connected together via the outer frame:

Optional frame extension available for the right.left or underside, which widens the outer frame by 30mm in each case:



The bottom frame extension is also suitable for connecting a window sill.

Note: The order dimensions refer to the external dimensions of the louvre window including the optional frame extension

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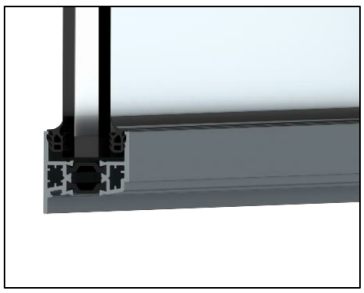
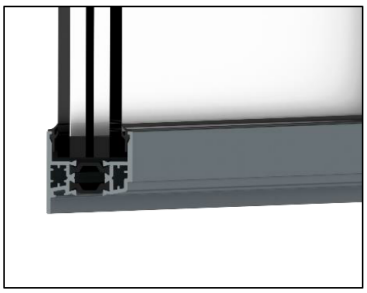
Glazing variants: Insulating Glass.



Double glazed
Ug c. 1.1W/(m²k)



Triple Glazed
Ug c. 0.9W/(m²k)

Type	Glazing outside	SZR	Glazing middle	SZR	Glazing inside	Light Trans-mission	Total energy transmit-tance	Building material class EN 13501-1	Heat transition Ut (W/m²K)
Double glazed – Float / VSG	6 float	20	-	-	6 laminated safety glass (0.76 PVB)	Clear: 80 Matt: 55	Clear: 62 Matt: 55	A1	1.1
Triple glazed – Float / Float/ VSG	4 float	10	4 float	8	6 laminated safety glass (0.76 PVB)	Clear: 73 Matt: 50	Clear: 52 Matt: 50	A1	0.9

The specified technical values are determined in accordance with the applicable regulations and standards on reference test specimens and may deviate slightly in individual cases.
The spectral data may deviate by a maximum of 5% from the stated values

Sound insulation values.

The total sound insulation value Rw of the complete louvre window depends on element surface area (A = width X height) and glazing type:

Type	A ≤ 2,7m²	A > 2,7m²
Double glazed	33 dB	32 dB
Triple glazed	33 dB	32 dB

* Sound insulation value of the glazing (entire louvre window not tested)

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Extraction Values.

Note: The Aerodynamic characteristics depend on configuration and accessories (e.g. frame extension / slat height etc.)

Aa = Cv x Av = Cv x H x B

Cv = flow coefficient Airstream: 0.55 – 0.60
H = Window Height (see pg. 2)
B = Window Width (see pg. 2)
LH = Slat height (see pg. 2)

Examples for values:

Airstream Type B x H (No of slats) Slat height (LH)	Ageo	Aa
500 x 600 (2 slats) LH: 265mm	0.17m²	0.17m²
725 x 1000 (3 slats) LH: 310mm	0.49m²	0.43m²
1000 x 1450 (4 slats) LH: 345mm	1.07m²	0.83m²
1200 x 1900 (5 slats) LH: 366mm	1.75m²	1.37m²
1400 x 2500 (6 slats) LH: 400mm	2.75m²	2.07m²
1200 x 1120 (3 slats) LH: 350mm	1.00m²	0.79m²
1200 x 1410 (4 slats) LH: 335mm	1.27m²	1.00m²

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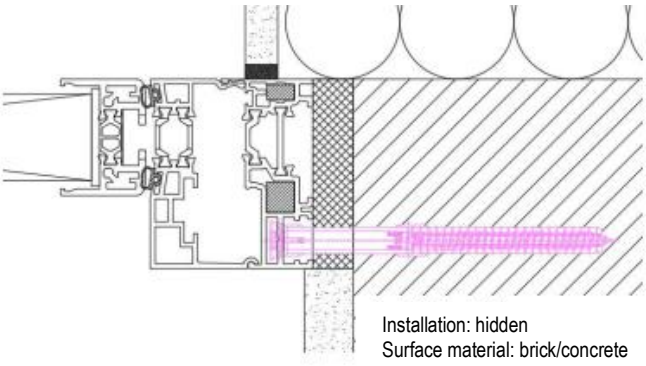
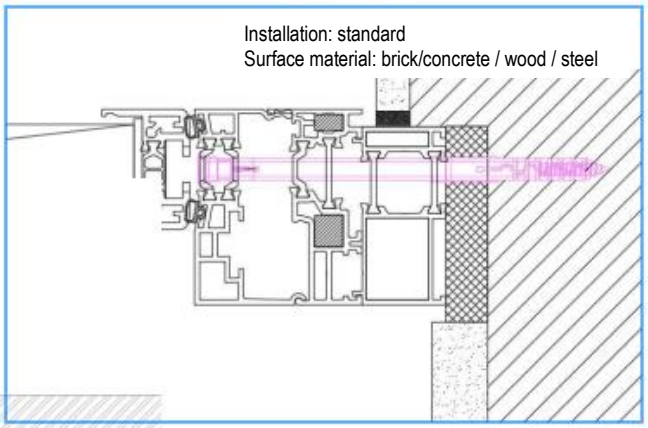
Installation options.

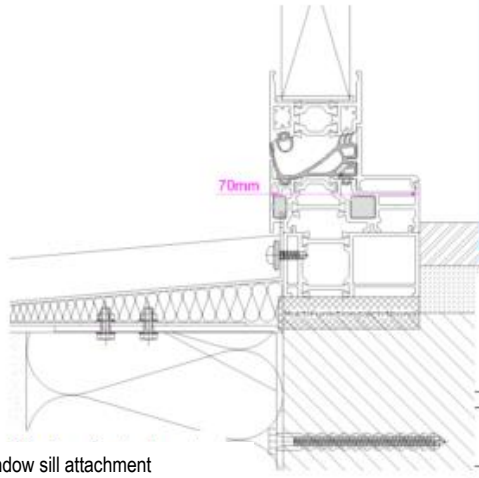
1. **Into wall opening:**



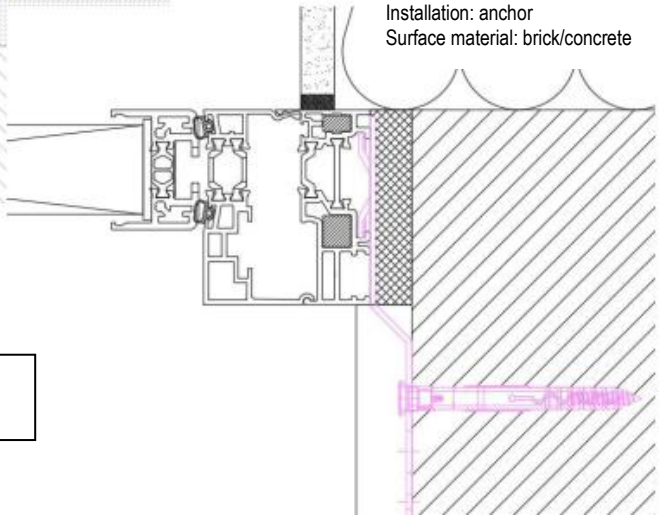
Installation: hidden
Surface material: brick/concrete



Installation: standard
Surface material: brick/concrete / wood / steel



Window sill attachment



Installation: anchor
Surface material: brick/concrete

Mind the building tolerances (a gap of 5-15mm circumferential is recommended)

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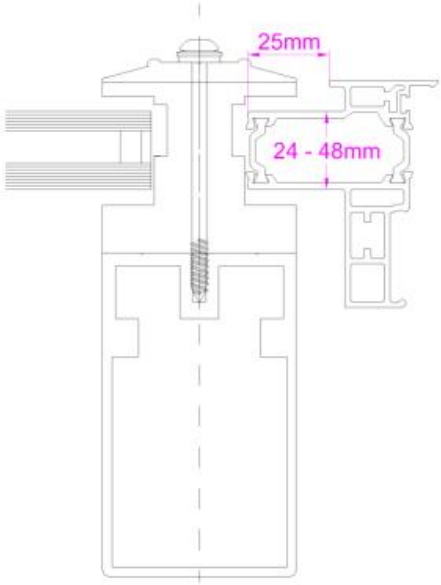
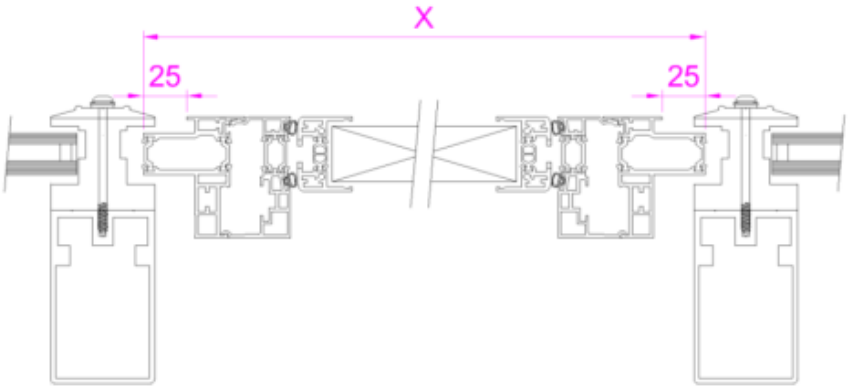
Installation options.

2. **Into mullion-transom construction:**





The order dimensions width (B) and height (H) correspond to the outer frame dimensions **incl. the clamping ridge.**

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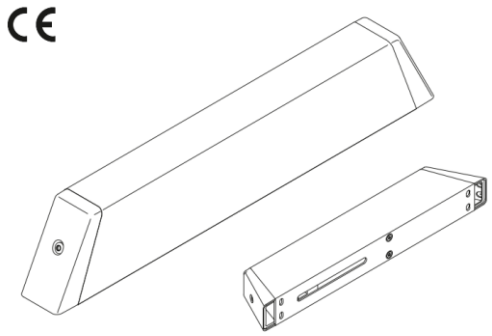
Drive.

Note: The standard position of the drive is on the left when viewed from the inside. Optionally possible right position available on request.



E24V Actuator:
Useable for smoke ventilation as well as daily natural ventilation

- Voltage 24v DC
- Current consumption: 1.6A
- Nominal force: 1800N
- Stroke Length: max. 90 mm ± 2 % *
- Service life: >20.000 double strokes
- Closing edge protection = activated (3 repetitions of stroke)
- Locking relief = activated

Delivery, packing and storage.

All deliveries, unless otherwise agreed in writing, are by road transport and subject to our standard delivery terms, which are available within the document: ‘Company overview and standard delivery and installation terms.’ Off-loading is the responsibility of the buyer. Details of packing and safe storage are also included in this document.

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