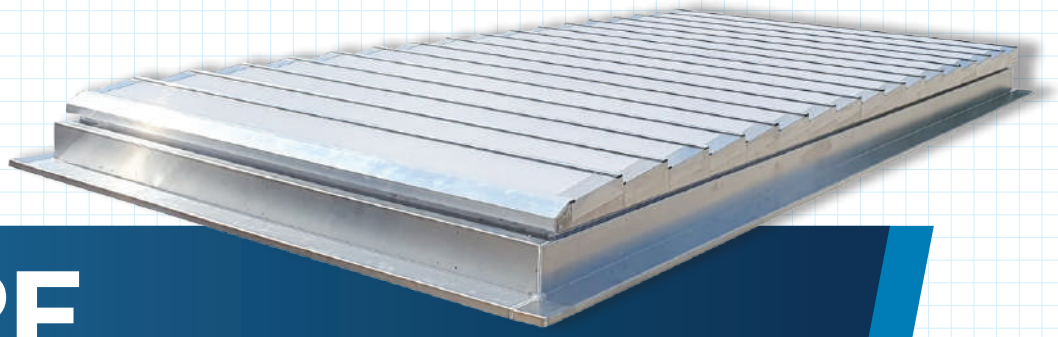


LOUVRE

NATURAL SMOKE AND HEAT EXTRACTION VENTILATOR ACCORDING TO EN 12101-2

IPIC system for natural smoke and heat extraction – **Firelock LOUVRE** uses the heat load inside the building, depending on pressure and temperature differences, to the natural ventilation and fire ventilation and guarantees thereby powerful heat and smoke extraction. By weather-dependent daily ventilation, the lamellas will automatically close following the instruction from an external weather sensor.

In addition, the optional use of transparent lamellas can greatly contribute to the efficiency daylight entry into interior.

Firelock LOUVRE was developed for automatic smoke extraction in case of fire, day-to-day ventilation and for daylight entry according to the harmonized standard EN 12101-2. The device - Louvre is manufactured in accordance with the standard EN ISO 9001:2015, in accordance with the standard EN 12101-2 and meets the highest quality requirements. The system Louvre has excellent parameters and interesting price-performance ratio.

The device **Firelock LOUVRE** is suitable for use in industrial and commercial buildings, in the exhibition halls and sport centers as well, serving as air supply or air outlet.

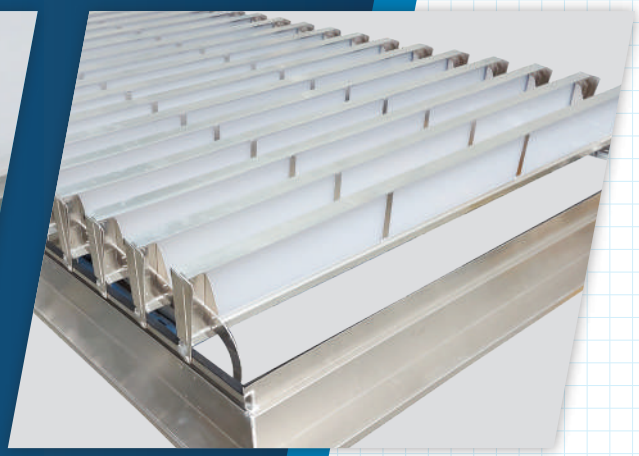
The corrosion-resistant construction of the Firelock LOUVRE device is made of high-quality, recyclable materials. Aluminum sheets, extruded aluminum profiles and polycarbonate sheets with high resistance to hail and excellent sound insulation properties are its main components.

Firelock LOUVRE has an aerodynamically shaped lamellar frame with various filling material options as well as high-quality, all-around EPDM seals with the well-thought-out concept of the frame guarantee not only the tightness of the device in the event of rain, but also ensure low air leakage losses by minimizing leaks and significant reduction in noise emissions.

Firelock LOUVRE is aerodynamically optimized and is available with a geometric opening area of up to 7.48 m^2. The opening angle of lamellas is 85°. These are locked in the end position and withstand high wind loads without any problems.

Firelock LOUVRE is available in a variety of sizes, with a variety of lamellas, control variants and frame designs. The variability of the device makes it possible to meet almost every customer requirement and thus achieve high efficiency with an optimal price-performance ratio.

Firelock LOUVRE devices are optionally equipped with a pneumatic or electric 24V drive. Depending on the technical specification and place of use, various control versions are available for selection.



LOUVRE

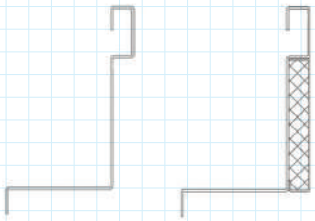
The frame of the **Firelock LOUVRE** is straight and made of high quality aluminum. The height of the device is measured the way that the lamellas in their open position exceed through the windshields only minimally. This prevents the negative effects of the wind. Lamellas on the sides exceed over the base frame, which ensures effective and safe drainage of rainwater.

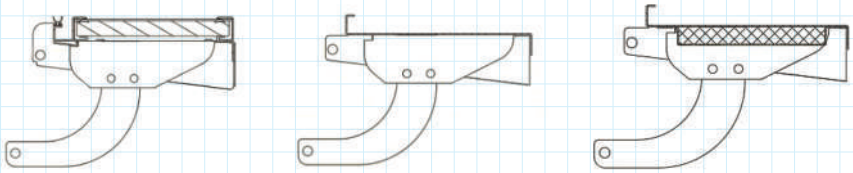
The device frame:

- I1 Non-insulated frame
- I2 Insulated frame with 20 mm insulation
- I2+ Insulated frame with 20mm insulation and with additionally installed insulating tape on the bottom side of the frame for protection against condensate

Lamellas of the device are available in three versions:

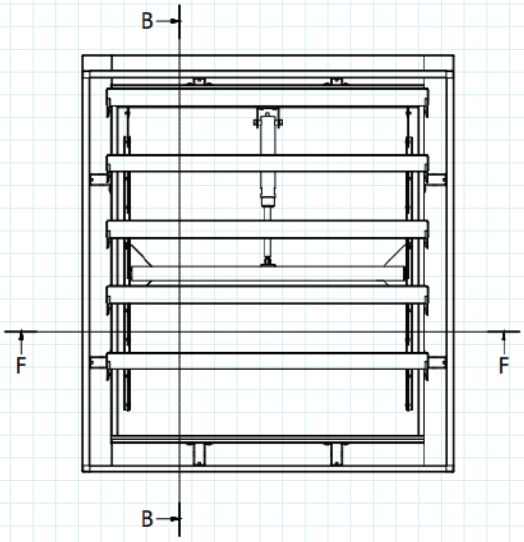
- P20/7 Aluminum lamella frame with a polycarbonate filling with the thickness of 20/7 mm opal/clear (U_g =1.55 W/m²K)
- A1 All-aluminum non-insulated lamella
- A2 All-aluminium insulated lamella with 20 mm insulation

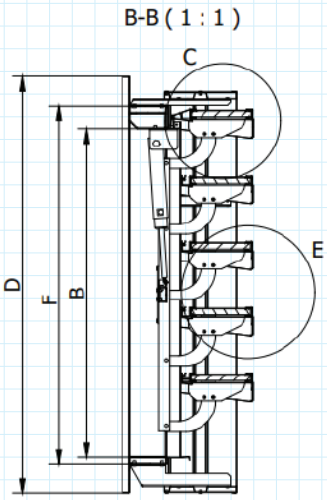


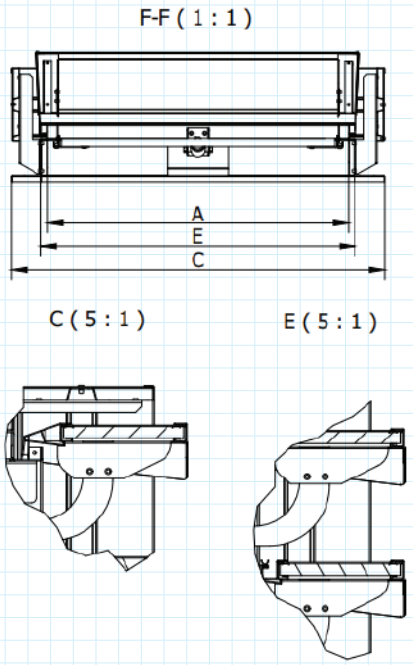


Its main advantages are the following:

- Demand covering wide variety of sizes and designs
- Multifunctional system for daily ventilation, fire protection ventilation and daylight
- Installation in all common roof and wall constructions.
- High-quality material components "Made in Europe"
- Highest functional safety and stability
- Safe against fall through in open condition
- Aerodynamically optimized, volume-strong ventilation capacity
- Hail resistant
- Low weight of the device
- Variability of colors according to RAL
- Simple installation
- Low-cost maintenance from the roof
- Optimal price-performance ratio







Characteristics:

Dimensions
Width 500 to 2,000 mm
Length 880 to 3,740 mm
(lamella up to 220 mm)

Operating temperature
T00, / T(-15)

Reliability
RE 1,000 (+10,000 for day ventilation)

Snow load
SL 800 to 4,000 N/m²

Wind load
WL 1,500 N/m²

Heat resistance
B300

Response to fire
Class E