



FIRELOCK DUO

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

Natural flap ventilator developed for automatic smoke extraction in case of fire, day-to-day ventilation and for daylight entry certified according to the harmonized standard EN 12101-2. The device is suitable for use in industrial and commercial buildings, in the exhibition halls and sport centers as well.

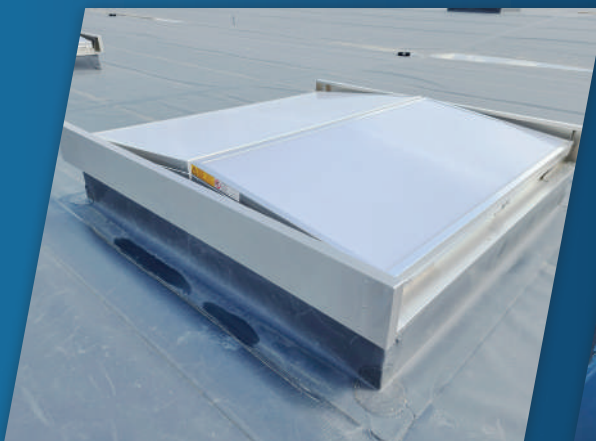
The corrosion-resistant construction of the **Firelock Duo** device is made of high-quality, recyclable materials. Aluminum sheets, extruded aluminum profiles and polycarbonate sheets with high resistance to hail and excellent sound insulation properties are its main components. Firelock Duo is all-around equipped by EPDM seals, which in cooperation 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 Duo is aerodynamically optimized and is available with a geometric opening area of up to 8.75 m². The opening angle of both flaps of the device is 90°. These are locked in the end position and withstand high wind loads without any problems.

The **Firelock DUO** is available in a variety of sizes, with a variety of flaps, 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 Duo devices are optionally equipped with a pneumatic or electric 24V drive. Depending on the specific technical specification and place of use, various control versions are available for selection.

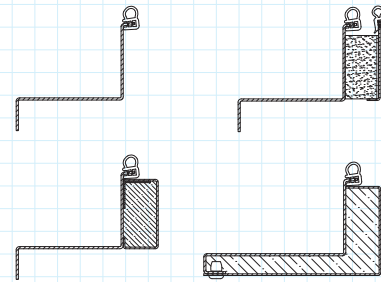
Firelock DUO consists of a device frame equipped with all-round EPDM seals, two opening flaps, optional windshields for optimizing aerodynamic properties, pneumatic or electric 24V drive and optional certified grid against fall, which can be installed into device.



FIRELOCK DUO

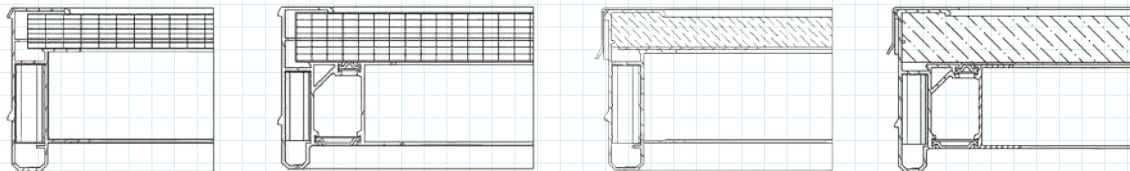
The device frame is available in four versions

- I1 Non-insulated frame
- I2 Insulated frame with 30 mm insulation
- I2+ Insulated frame with 30 mm insulation and with additionally installed insulating tape on the bottom side of the frame for protection against condensate.
- I3 Frame with thermally broken bridge and 30 mm insulation
- IS Frame according to the customer requirements



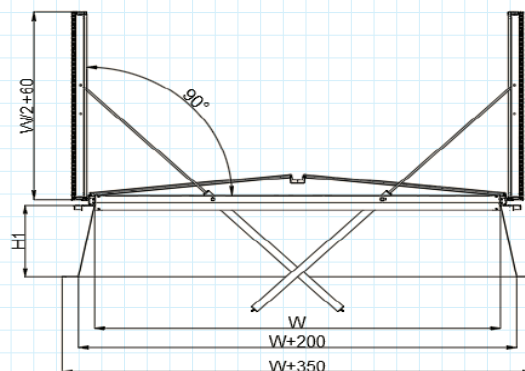
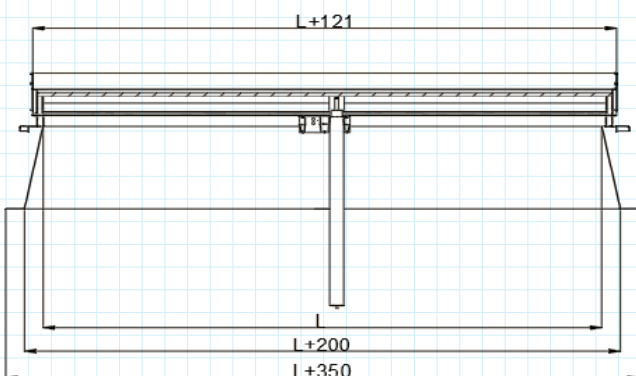
The flaps of the device are available in four versions:

- P20/7 – Aluminium flap frame with a polycarbonate filling with the thickness of 20/7 mm opal / klar
Ug = 1,55 W/m²K; G=0,24 - 0,36
- P32/7 – Aluminium flap frame with a thermal broken bridge and polycarbonate filling with the thickness of 32/7 mm opal / klar.
Ug = 1,1 W/m²K; G=0,24 - 0,36
- A2 – Aluminium flap filled with a sandwich construction made of aluminum sheet and thermal insulation 20 mm. Alu natur or powder coating RAL.
U = 1,21 W/m²K
- A3 – Aluminium flap with thermal broken bridge with a sandwich construction made of aluminum sheet and thermal insulation 30 mm. Alu natur or powder coating RAL.
U = 0,88 W/m²K



Its main advantages are the following:

- Demand covering wide variety of sizes and designs
- A large selection of options for use and installation, e.g. into arched roof skylights, shed skylights, saddle skylights, or as separate devices mounted on a system upstands
- High functional safety and stability
- High-quality material components "Made in Europe"
- Optimized thermal insulation properties
- Aerodynamically optimized, volume-strong ventilation capacity
- Polycarbonate as standard with increased hail resistance
- High durability
- Low weight of the device
- Simple installation
- Low-cost maintenance from the roof
- Variability of colors according to RAL
- Certification according to EN 12101-2
- Optimal price-performance ratio



Characteristics:



Dimensions

Width 1,000 to 2,500 mm
Length 1,000 to 3,500 mm



Operating temperature

T00, / T(-15)



Aerodynamic free area

0.66 to 7.39 m²



Reliability

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



Snow load

SL el. 200 to 4,000 N/m²
SL pneu. 750 to 4000 N/m²



Wind load

WL 1,500 to 2,500 N/m



Heat resistance

B300



Response to fire

Class E