



roof and façade
mounted
louvered vents

mcr LAM



NF 537
DISPOSITIFS D'ÉVACUATION
NATURELLE DE FUMÉES
ET DE CHALEUR
www.marque-nf.com

We provide safety

NATURAL SMOKE EXHAUST SYSTEM

The **mcr LAM roof-mounted and façade-mounted** louvered vents are intended for the removal of smoke and toxic fire gases as well as for comfort ventilation.

These devices, together with the **mcr PROLIGHT** leaf smoke vents and the **mcr PROSMOKE** smoke curtains, make up the basic assortment enabling the construction of a complete natural smoke exhaust system.

They can be used in warehouse halls, industrial halls, logistics centers, **commercial and sports facilities, as well as in high-rise buildings.*** They have been designed in such a way that the method of water drainage from their surface guarantees high tightness parameters, regardless of the location in which the device will

be installed (from installation in flat roofs, through roofs with any slope).

They can be successfully used for natural comfort ventilation in strong winds, which is particularly important in high-rise buildings. The use of smoke louvred vents can also be an excellent solution in the case of roofs with many elements protruding above the slope, which often prevents the full opening of the vent's leaves.

The **mcr LAM** series products are approved for use in all European Union countries on the basis of a certificate of compliance with the European Standard **EN-12101-2**.

mcr LAM is compliant with NF 537 guidelines (applies to selected configurations).

** For these types of buildings, LAM façade louvered smoke vent are not recommended.*

CONSTRUCTION

Base of the louvered vents is made of galvanized steel plate with a thickness of 1.25 mm or aluminum 2.00 mm. The minimum height of the base is 15 cm, the maximum height is 25 cm. The base can be insulated with 20 mm thick mineral wool or it can be uninsulated (**for units compliant with NF 537 max. 200 mm**). An additional, uninsulated base of up to 55 cm in height can be manufactured, made of 1.25 mm thick galvanized steel sheet or 2 mm thick aluminum sheet.

- | | |
|---|----------------------------------|
| 1 | blades |
| 2 | actuator (electric or pneumatic) |
| 3 | wind deflector |
| 4 | base |
| 5 | additional base |

Blades are made of aluminum profiles with a multi-chamber polycarbonate (standard: clear or opal). Opaque filling with aluminum sheet is also available. The blades are connected in such a way that they rotate 90 degrees at the same time. The tightness of the vent is ensured by the special construction of the blades and the base and the EPDM gasket placed between them. **mcr LAM** smoke vents variant is equipped with a set of wind deflectors increasing its active surface.



Mercor Light&Vent's mission is to deliver safety to building users by providing them with comprehensive fire protection. For almost 40 years, we have been offering our business partners, at every stage of the investment process, products and services they can always trust. As a leader of modern technologies in the fire protection industry, we introduce new solutions that are ahead of the norm, and are additionally characterized by high quality and aesthetic workmanship.

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mounted
louvered vents

mcr LAM (NF)



CONSTRUCTION OF THE LOUVERED SMOKE EXHAUST VENT mcr LAM

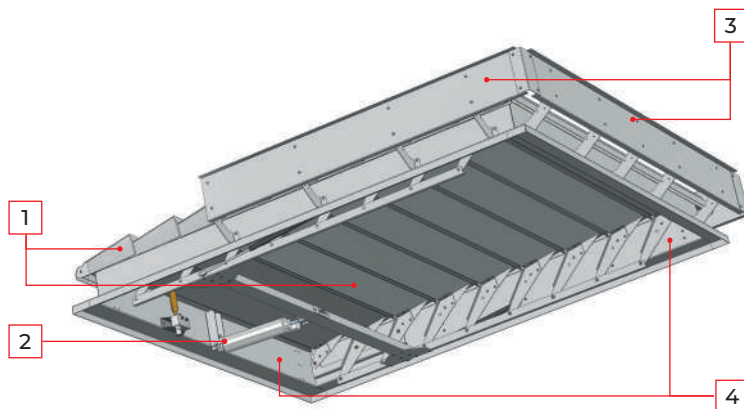


Fig. 1 Louvered vent

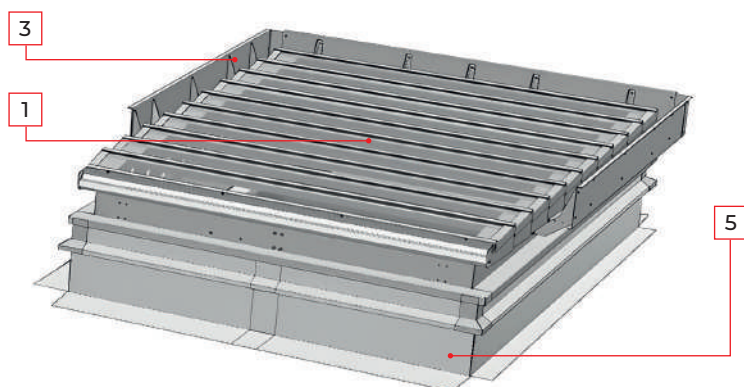


Fig. 2 Louvered vent with an additional base

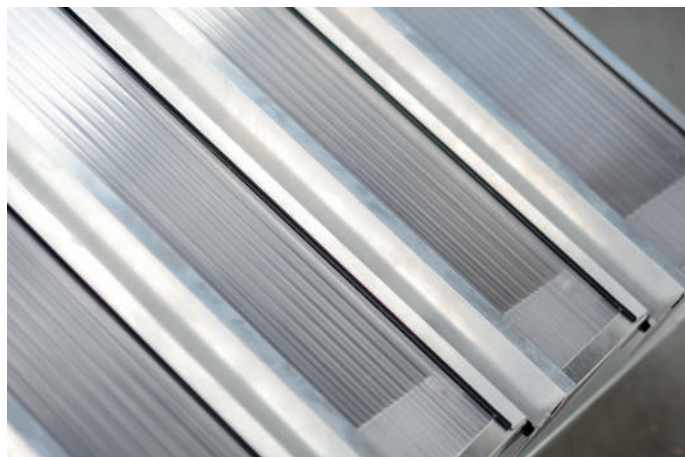
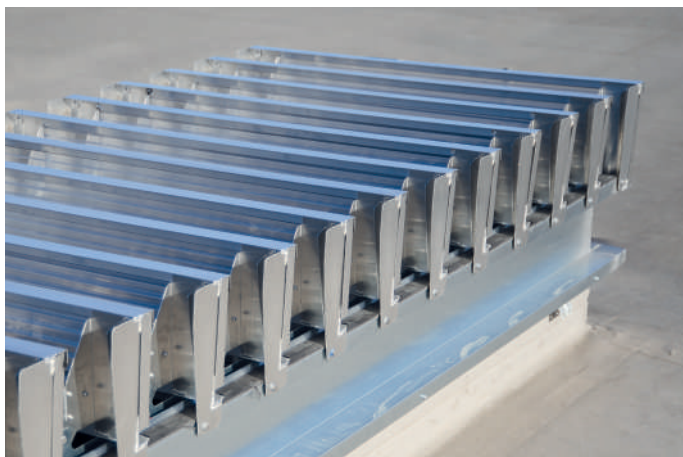


Photo. I-II Vent blades made of aluminum profiles filled with polycarbonate

EXECUTION OPTIONS

- » painting the base
- » painting metal elements of the blades
- » painting the deflectors and rain shields
- » limit switch or opening and/or closing signalling

- » possibility of mounting on roofs with any slope and in façades
- » resistance of the vents in the open position to wind action
- » low consumption of electricity or compressed CO₂ gas by the controls
- » easy to place on the roof – the blades of the louvered vents do not extend beyond the geometric dimension of the device (especially important in tall buildings or those where there is a problem with finding free space on the roof)



Photo. III-IV Façade mounted mcr LAM vents equipped with rain shields

CLASSIFICATION

The time of opening the louvered vents to the operating position does not exceed 60 s.

SL250(*) ÷ 1300	for electric actuators
SL 550 ÷ 2000	for pneumatic actuators
WL1500	for all types of louvered vents
B300	resistance to high temperature of 300°C
F	fire reaction class for other elements
T(-25)	resistance to low temperature of -25°C
Re1000	operational reliability during 1000 cycles of opening and closing to smoke exhaust position (vent with E1 electric control and C1, C2, C3 pneumatic control)



(*) – The version compliant with NF 537 guidelines covers units with electric control E1 and pneumatic control C2 in the range of snow loads: SL0 (façade, E1 and C2), SL125, SL250, SL550 (roof, E1) and SL250, SL550 (roof, C2), and wind loads WL1500. Read more in our technical catalogue, available on our website: <https://mercor.com.pl/en>.



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**CONTINUOUS
ROOFLIGHT WITH
SMOKE VENTS**



**SMOKE AND
VENTILATION
VENTS**



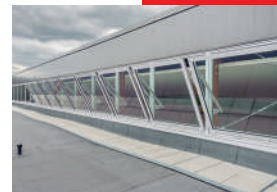
**LOUVERED
VENTS**



**SMOKE
CURTAINS**



**SMOKE
EXHAUST
WINDOWS**



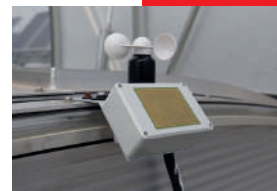
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European Union
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The product was developed within the framework of an innovative project entitled:
***"Comprehensive solutions in the scope of passive fire protection
of buildings including the development of display line"***
subsidized with European funds.



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