

Description and application

External exhaust wall louvres for ventilation ducts with circular and rectangular cross section. They are use in istallations ventilation exhaust as the ending of ducts. They have a freely floating slats when ventilator is working.

External exhaust louvres has Hygienic Certificate

Material and workmanship

External exhaust louvres are divided into types:

- louvres with a rectangular section,
- louvres with a rectangular section with circular connection.

Louvres are executed in standard: frame made of galvanized steel and aluminium blades.

Options of execution the frame:

- stainless steel
- aluminum

On request painted for any RAL color.

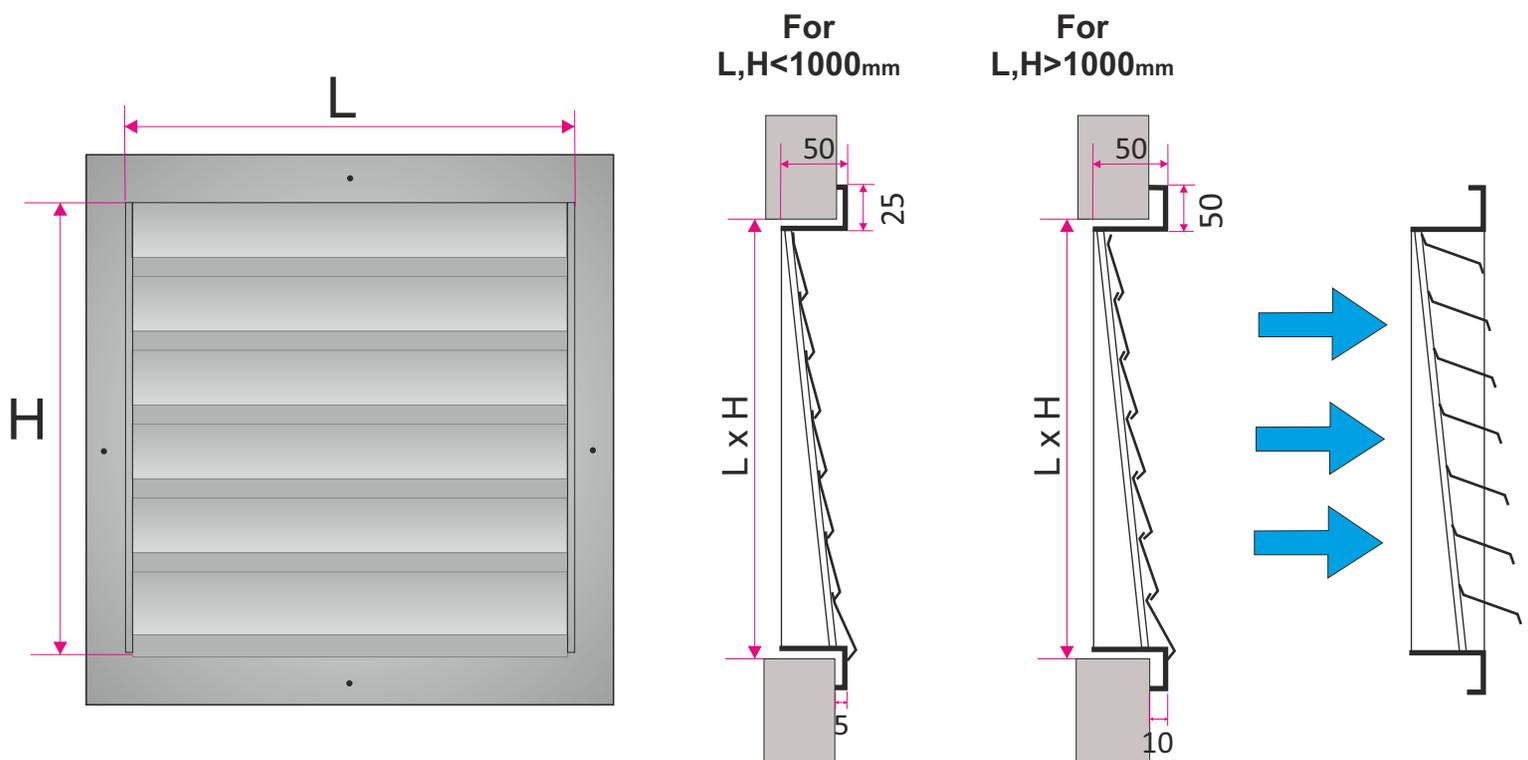
The manufacturer reserves the right to make technological changes.

Size

Louvres are manufactured to order. Louvre dimension by the customer request.

L - width of the mounting hole

H - height of the mounting hole



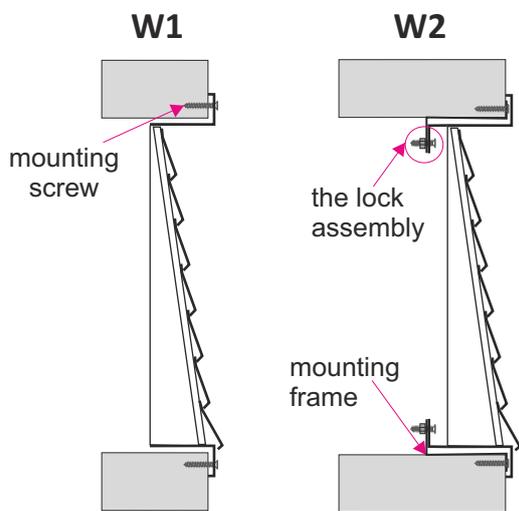
Frame width:

25mm for L or H \leq 1000mm

50mm for L or H $>$ 1000mm

Methods of mounting

Louvres are mounted using the screws and the mounting holes in the frame (W1). It is possible to mount the louvre with additional mounting frame for invisible assembly, which allows you to keep the frame without mounting holes (W2).



Assembling visible through screws and mounting holes in the louvre frame

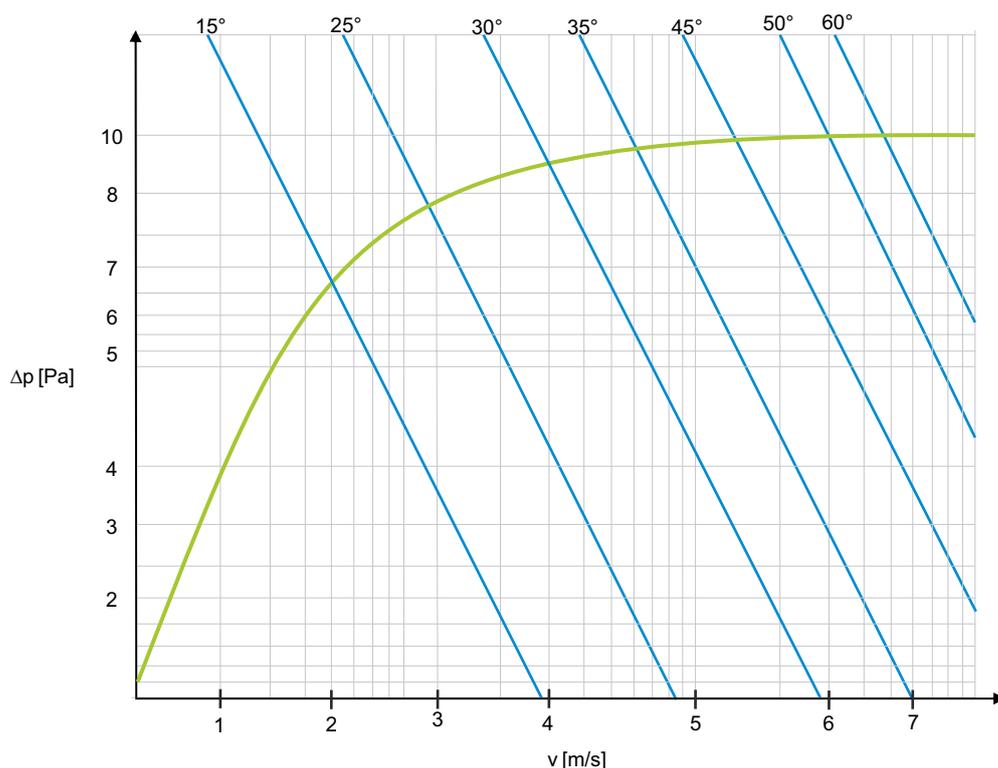
Installation invisible by mounting screws and locks assembly in RM frame - the preferred option in the case of louvre shared in the substructure.

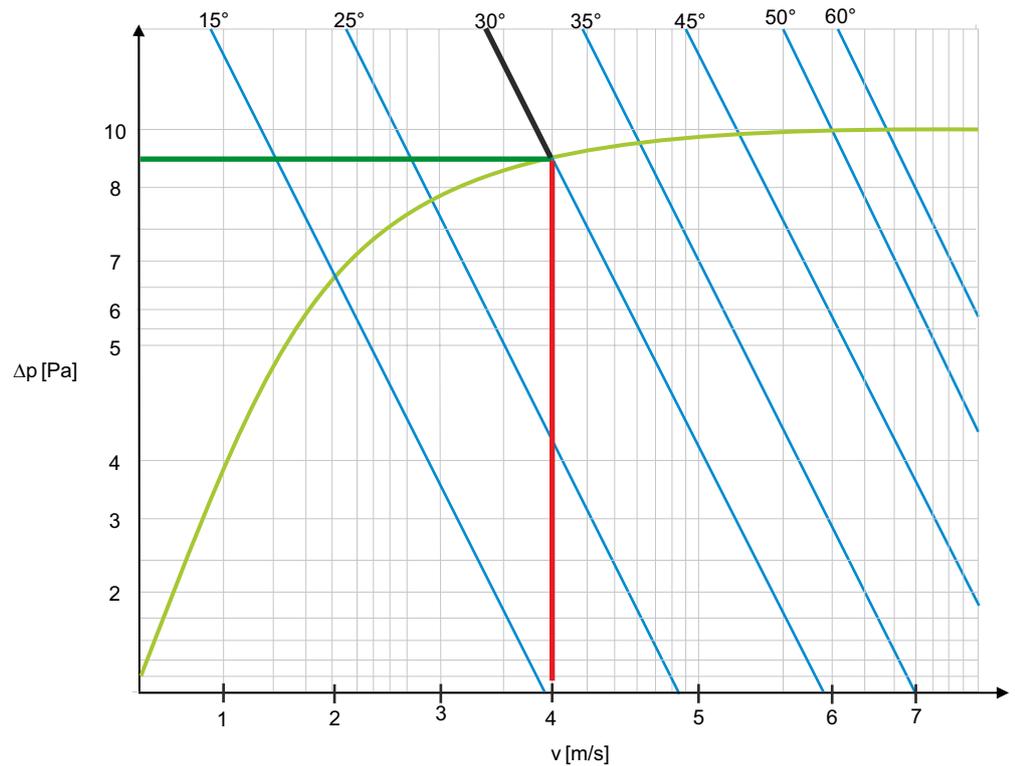
Effective area A_{ef} louvre (when it's complete open)

| $H_{[mm]}$ \ $L_{[mm]}$ | 200 | 400 | 600 | 800 | 1000 | 1200 | 1600 | 2000 |
|---|-------|-------|-------|-------|-------|------|------|------|
| A_{ef} (m²) effective area external exhaust wall louvres WSR | | | | | | | | |
| 200 | 0,036 | 0,073 | 0,109 | 0,145 | 0,181 | 0,21 | 0,28 | 0,36 |
| 400 | 0,073 | 0,145 | 0,218 | 0,291 | 0,363 | 0,43 | 0,57 | 0,72 |
| 600 | 0,109 | 0,218 | 0,327 | 0,436 | 0,545 | 0,64 | 0,86 | 1,08 |
| 800 | 0,145 | 0,291 | 0,436 | 0,581 | 0,727 | 0,86 | 1,15 | 1,44 |
| 1000 | 0,181 | 0,363 | 0,545 | 0,727 | 0,909 | 1,08 | 1,44 | 1,80 |
| 1200 | 0,21 | 0,43 | 0,64 | 0,86 | 1,08 | 1,29 | 1,72 | 2,16 |
| 1600 | 0,28 | 0,57 | 0,86 | 1,15 | 1,44 | 1,72 | 2,30 | 2,88 |
| 2000 | 0,36 | 0,72 | 1,08 | 1,44 | 1,80 | 2,16 | 2,88 | 3,60 |

Technical data

The diagram below shows the value of the slat opening angle (relative to the vertical plane) depending on the speed air intake. In addition, information on the pressure loss level has been attached to the vertical axis.





EXAMPLE

- air speed 4 m/s

Reading from the graph:

- opening angle of the blades - 30°
- pressure drop: 10 Pa

The method of placing an order

Please make orders according to the following formula:

WSR-1 / 'LxH' / 'RAL' / 'M' / 'W'

- 'LxH' - mounting hole size (width x height) in mm
- 'RAL' - louvre color according to RAL palette (standard RAL9006*)
- 'M' - material (frame):
 - OC** - powder coated steel*
 - AL** - aluminum
 - KO** - stainless steel / acid proof steel (gat. 1.4301 or 1.4404)
- 'W' - mounting option:
 - W1** - visible assembly with screws through the holes in louvre front frame*

* - If you don't give the information will be used standard parameters.