

Description and application

Rectangular wall external intake louvre used in ventilation installation intake and exhaust as the end of air intake pipes and ventilation holes in the walls of buildings, adapted for assembling in a door or window profile.

The special shape of the louvres / blades protects air intake hole before the precipitation. Additionally, on request it is possible to install protective mesh that protects before the bird, rodent and larger impurities (like the leaves) inside the installation.

External intake louvres has Hygienic Certificate HK/K/0522/02/2016

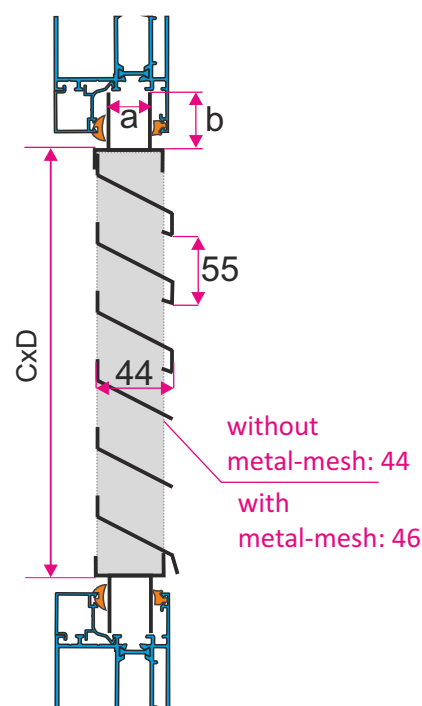
Material and workmanship

External intake louvre is made of galvanized steel powder coated to any RAL color (standard RAL 9006).

Directly behind the intake louvre is a steel mesh expanded metal (standard N16).

On request it is possible to make a special external intake louvres of aluminum and stainless steel (1.4301 lub 1.4404).

Size and methods of mounting

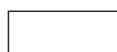



Intakes louvres for installation in a door or window profile made on order are in adapted sizes to individual customer needs.

In case dimension C > 2000 mm the manufacturer may propose sharing the intake (agreed with the client).

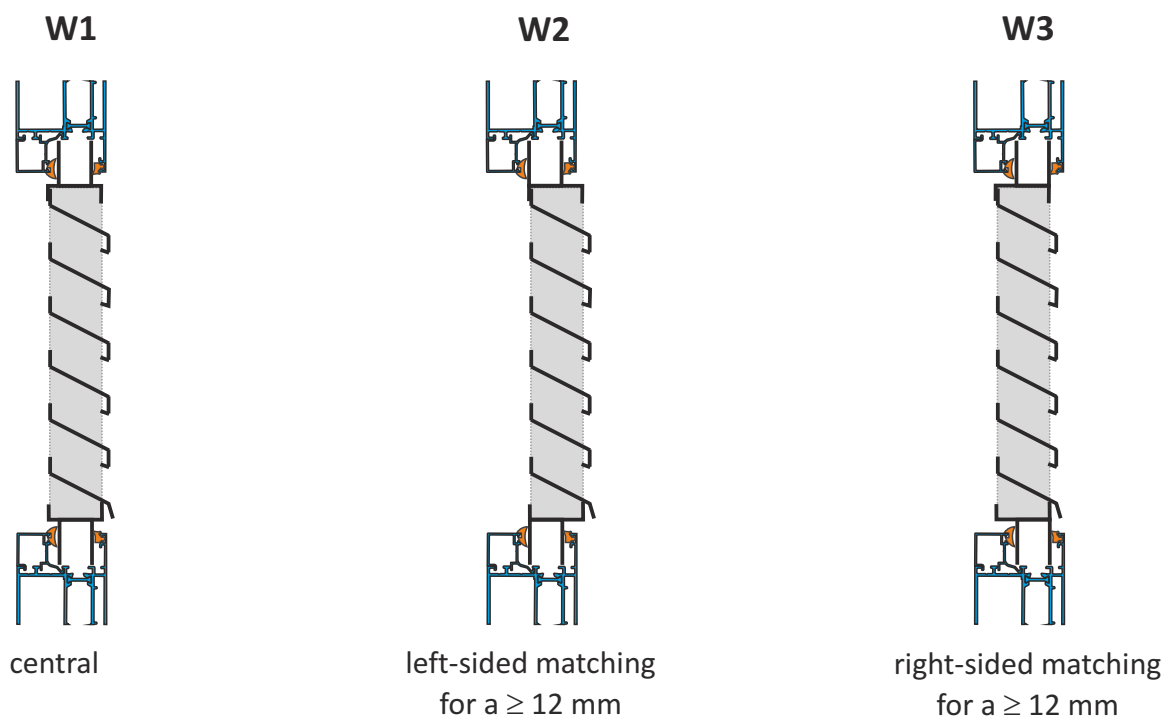
Technical data- effective area

D [mm] \ C [mm]	300	400	500	600	800	1000	1200	1400	1600	1800	2000
A_{ef} (m²) effective area air intake louvre CzP											
300	0,05	0,07	0,08	0,10	0,14	0,19	0,22	0,26	0,30	0,34	0,38
400	0,07	0,09	0,11	0,14	0,19	0,25	0,30	0,35	0,40	0,45	0,51
500	0,08	0,11	0,14	0,17	0,23	0,32	0,38	0,44	0,51	0,57	0,63
600	0,10	0,14	0,17	0,21	0,28	0,38	0,46	0,53	0,61	0,69	0,76
800	0,14	0,19	0,23	0,28	0,37	0,51	0,61	0,71	0,82	0,92	1,02
1000	0,19	0,25	0,32	0,38	0,51	0,64	0,77	0,89	1,02	1,15	1,28

 one-piece air intake louvre

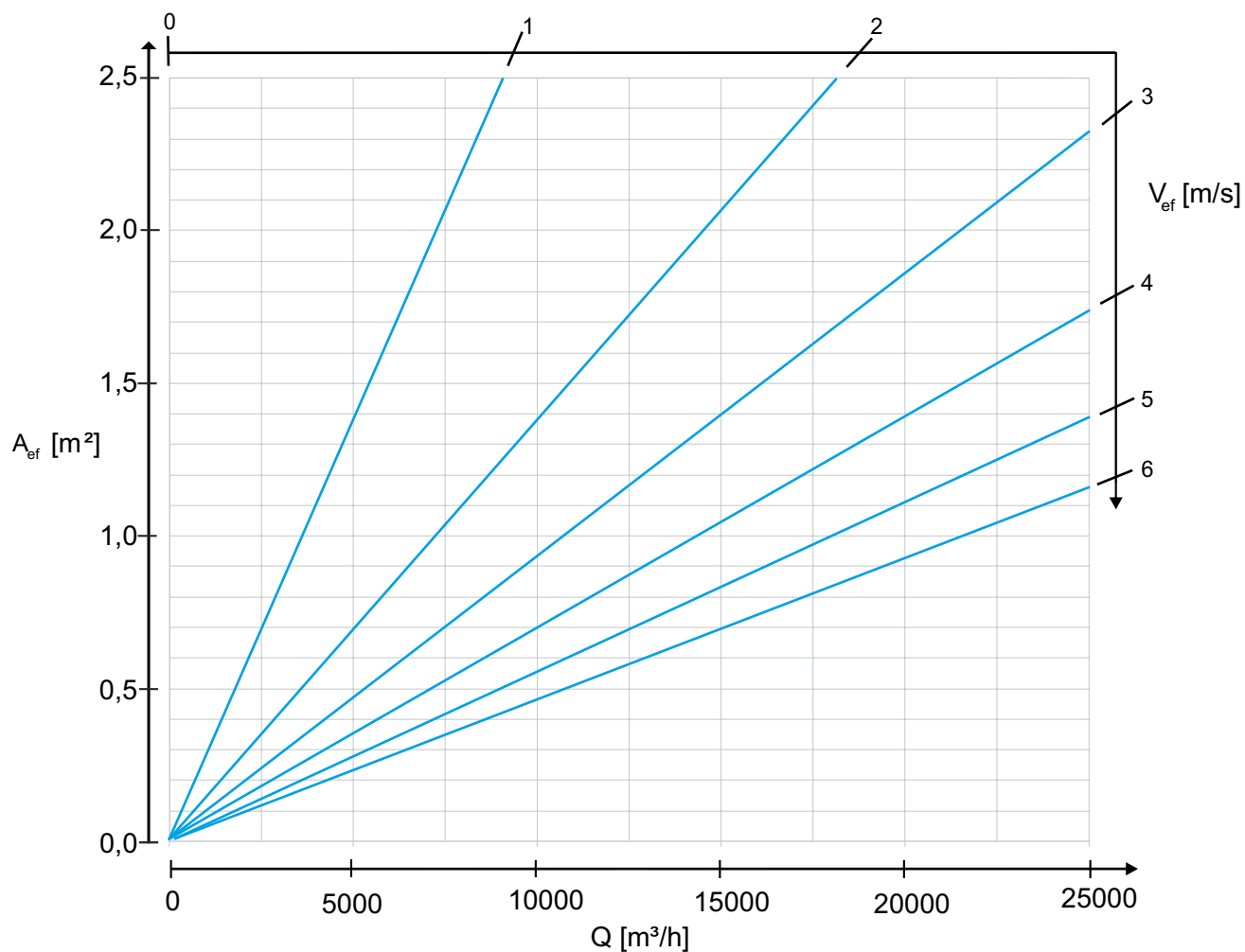
 air intake louvre divided into dimension C

Methods of mounting in a panel



Technical data

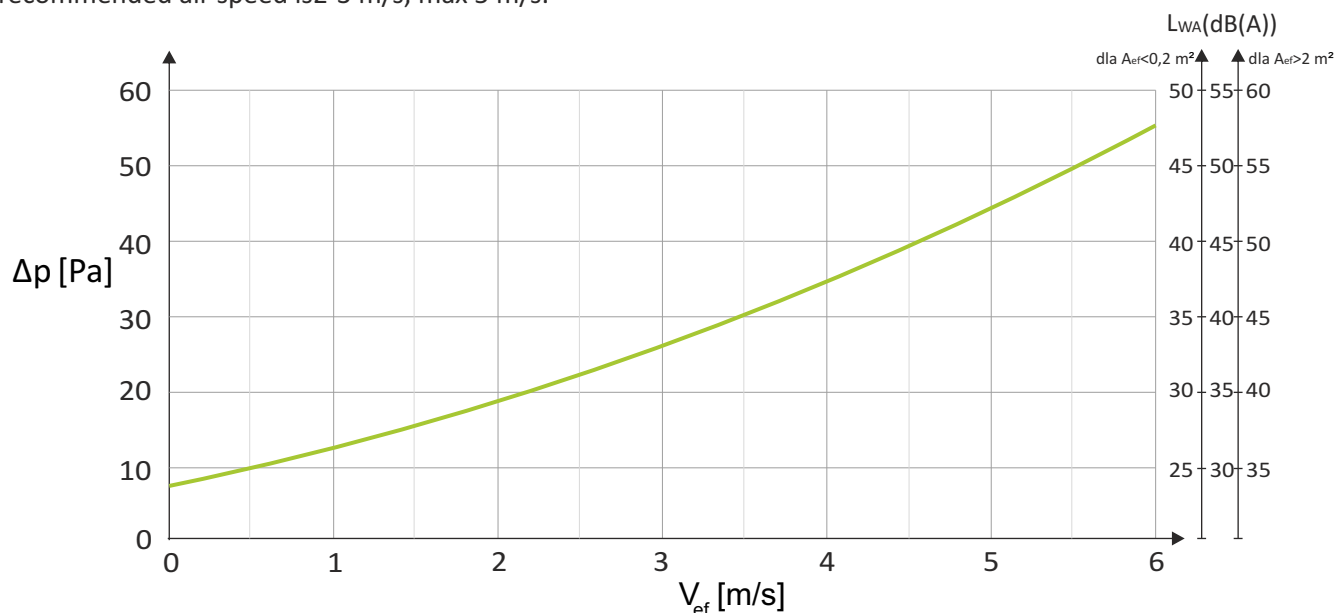
Effective speed depending on the flow air and the effective area



Technical data

Dependence of the pressure drop and acoustic level depending on the speed of air on air intake louvre

The recommended air speed is 2-3 m/s, max 5 m/s.



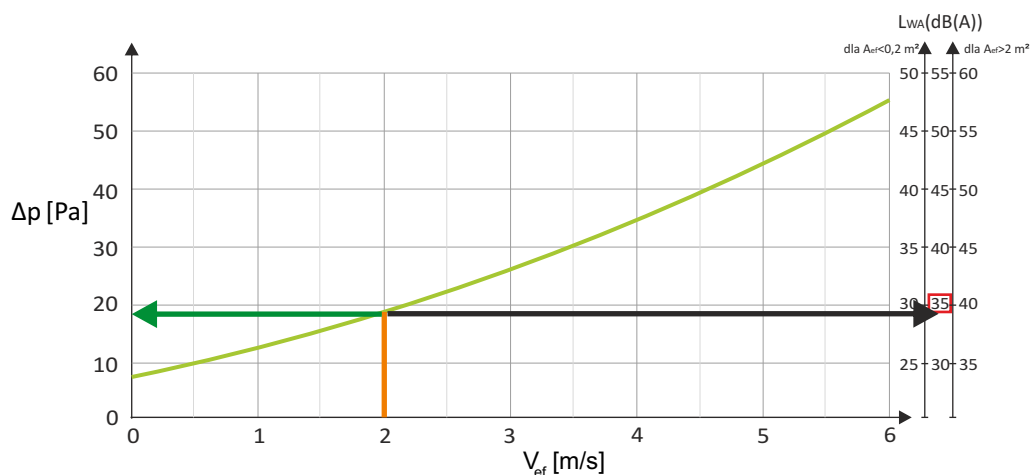
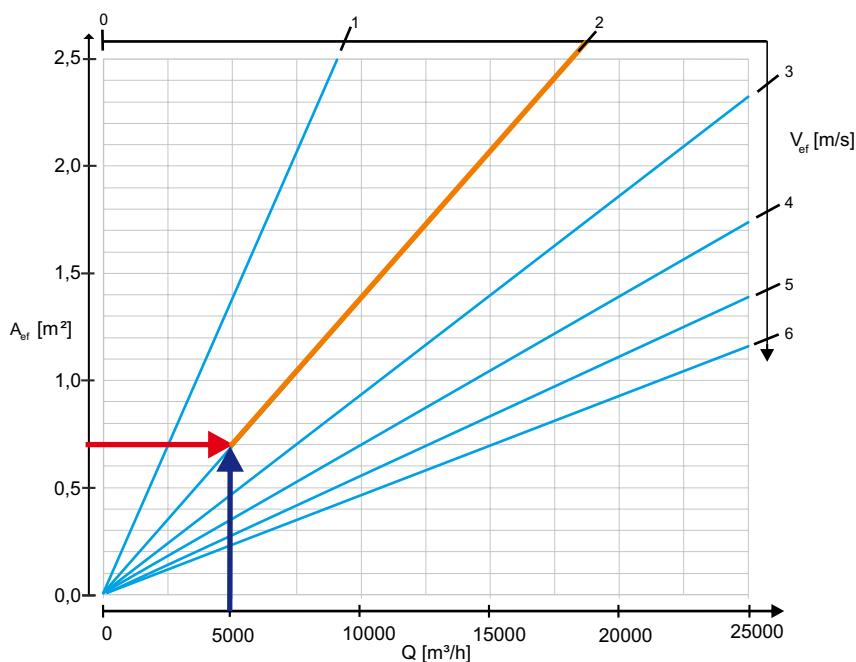
Selection example

EXAMPLE

- air volume flow $Q=5000 \text{ m}^3/\text{h}$
- size of air intake louvre: 1400×800 ($A_{ef}=0,71 \text{ m}^2$)

Reading from tables and graphs:

- effective speed: $v_{ef}=2 \text{ m/s}$
- pressure drop on the air intake louvre $\Delta p=18 \text{ Pa}$
- acoustic power $L_{WA}<35 \text{ dB}$ ($0,2 \text{ m}^2 < A_{ef} < 2 \text{ m}^2$)



The method of placing an order

Please make orders according to the following formula:

CzP / 'CxD' / 'a' / 'b' / 'S' / 'RAL' / 'M' / 'W'

'CxD'	- mounting hole size (width x height) in mm
'a'	- depth of the frame
'b'	- frame width
'S'	- mesh BS - without protective mesh* ZS - with protective mesh
'RAL'	- louvre color according to RAL palette (standard RAL9006*)
'M'	- material: OC - powder coated steel* AL - aluminum KO - stainless steel / acid proof steel (type 1.4301 or 1.4404)
'W'	- methods of mounting in a panel: W1 - central* W2 - left-sided matching W3 - right-sided matching

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