Wall external intake louvres CzS-A-HF

Description and application

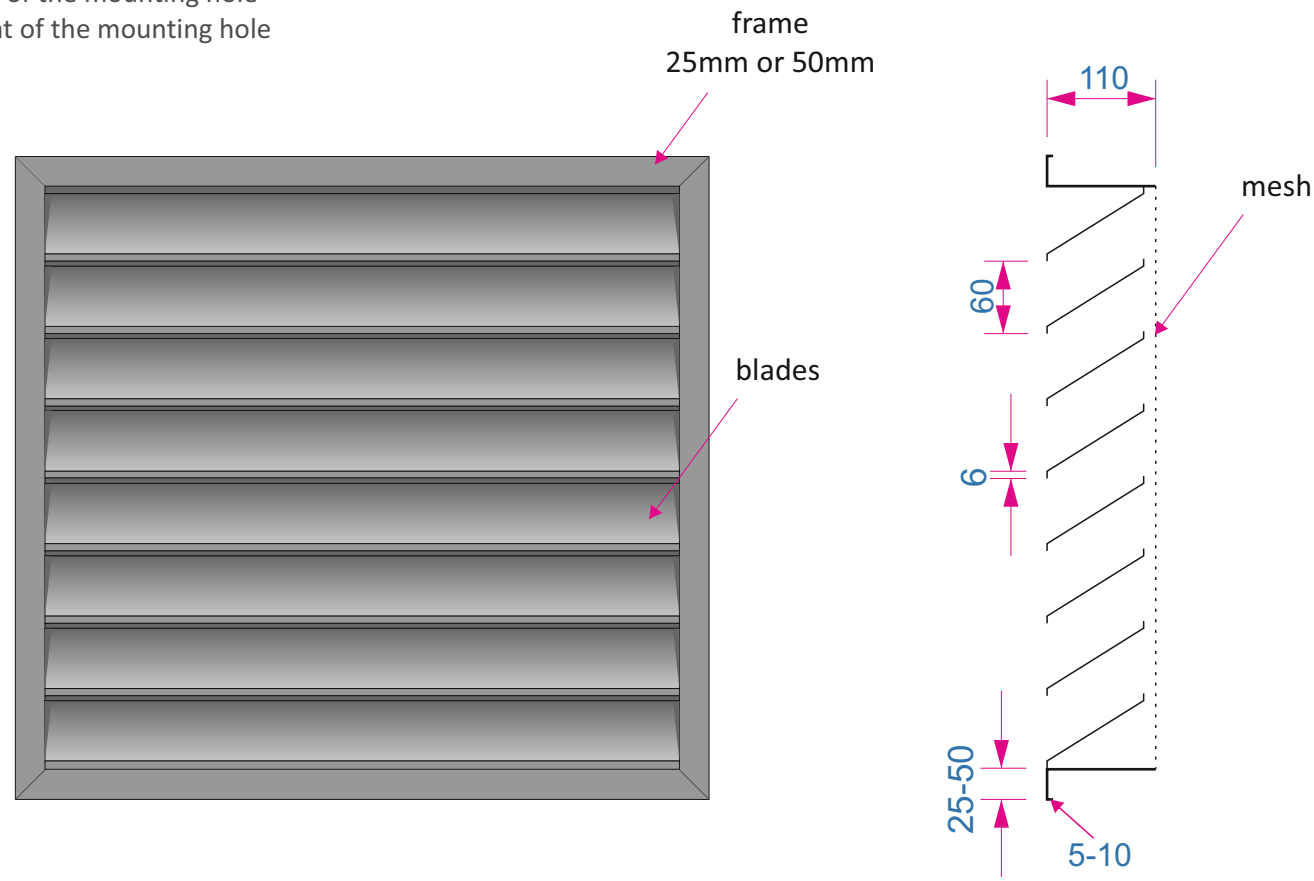
Rectangular wall external weather louvres used in ventilation installation intake and exhaust as the end of air intake pipes and ventilation holes in the walls of buildings or directly on the duct. The special shape of the louvres / blades protects air intake hole before the direct ingress of rain into fresh air and exhaust air openings. In standard used is protective mesh that protects before the bird, rodent and larger impurities (like the leaves) inside the installation. They are installed in external walls and facades.
This type of blinds has a high clearance level of 90%, which is why the blind is ideally suited for smoke compensation and aeration, wherever a large flow area is required.

Material and workmanship

External intake louvre is available in three material variants: galvanized steel, aluminum - powder coated or stainless steel (type 1.4301 or 1.4404). On customer request powder coated to any color from the RAL palette (standard RAL9006).
Directly behind the intake louvre is a steel mesh. The louvers are delivered ready for self assembly.
The manufacturer reserves the right to make technological changes.

Size

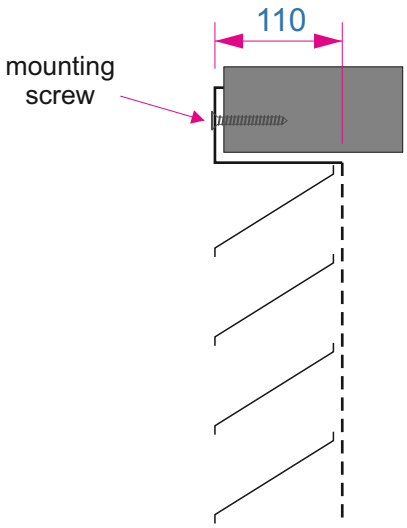
Intake louvres are manufactured to order. Louvre dimension by the customer request.
L - width of the mounting hole
H - height of the mounting hole



Width of the frame:
25mm for L or H < 1000mm
50mm for L or H > 1000mm

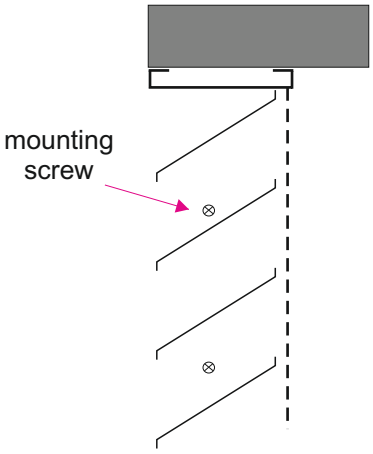
Type of frame

frame type - R1



Frame with entering
into the canal and eversion
on the wall - standard.

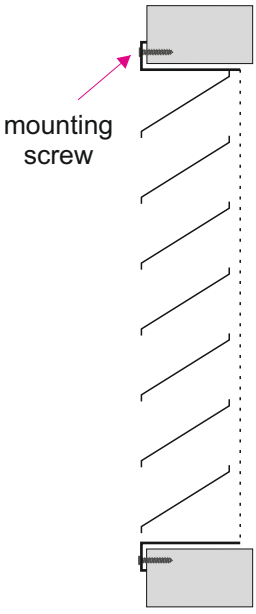
frame type - R2



The frame in the C-profile
- the louvre is screwed
to the inside of the channel.

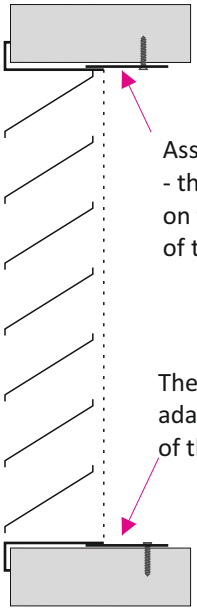
Methods of mounting - FRAME 1

W1



Assembling visible through
screws and mounting holes
in the louvre frame

W2

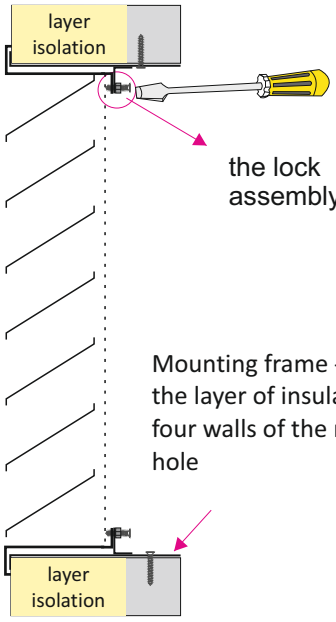


Assembly blades
- the amount depends
on the dimensions
of the air intake.

The length of the blades
adapted to the thickness
of the wall

Invisible installation using screws
and flat barsassembly - solution
recommended for casual access
from the room side. Flat bars are
delivered separately, to be riveted
directly to the air intake on
construction site.
Length of flat bars to be agreed.

W3



the lock
assembly

Mounting frame - protects
the layer of insulation on all
four walls of the mounting
hole

Invisible assembling using screws and mounting
locks in RM frame - recommended variant in
the case of walls with additional layer of insulation.

Available variants:
W3a - rear mounting (room/duct interior)
W3b - front installation (front of the ventilation grille)
the W3b variant is only available for intakes
width L ≤ 1000.

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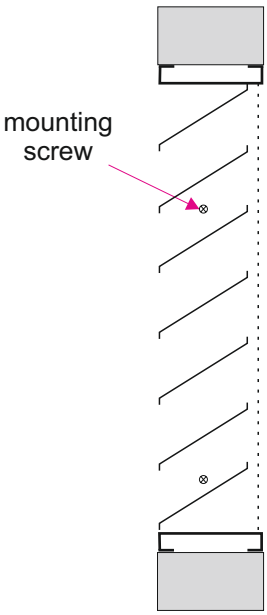
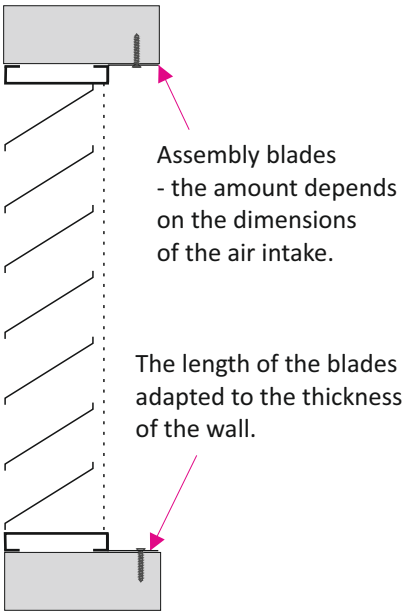
Methods of mounting - FRAME R2

W1



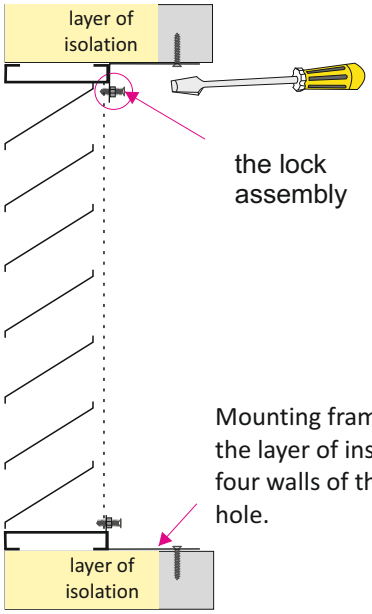
Installation visible via screws and mounting holes in the inner part of the air intake frame. Holes are made only in vertical frames, in air intakes with a width of L ≤ 1000.

W2



Invisible installation using screws and flat barsassembly - solution recommended for casual access from the room side. Flat bars are delivered separately, to be riveted directly to the air intake on construction site.
Length of flat bars to be agreed.

W3



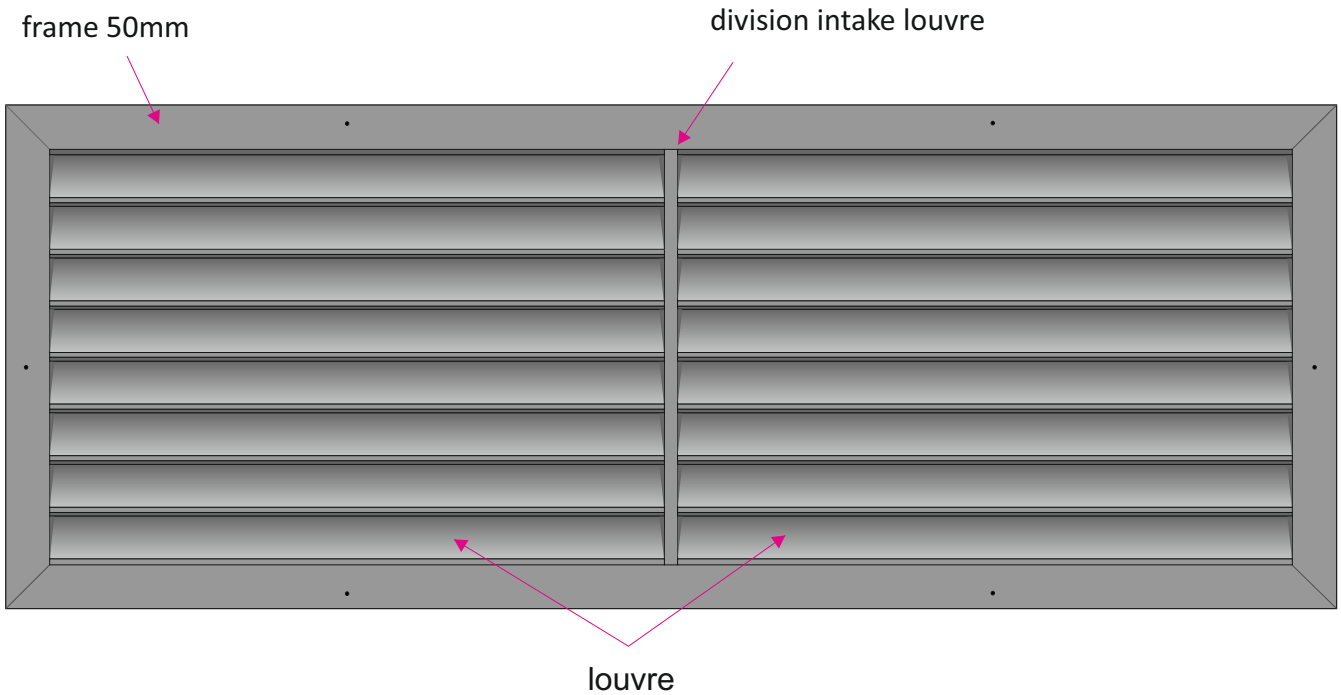
Invisible assembling using screws and mounting locks in RM frame - recommended variant in the case of walls with additional layer of insulation.

Available variants:
W3a - rear mounting (room/duct interior)
W3b - front installation (front of the ventilation grille) the W3b variant is only available for intakes width L ≤ 1000.

Variant execution - division

If the width of the intake louvre (blade length) **exceeds 2000mm**, the intake louvre is shared.

We offer three variants of execution intake louvre shared:
1) entirely frame + shared intake louvre - for dimensions to max. L=2350mm and H=1500mm

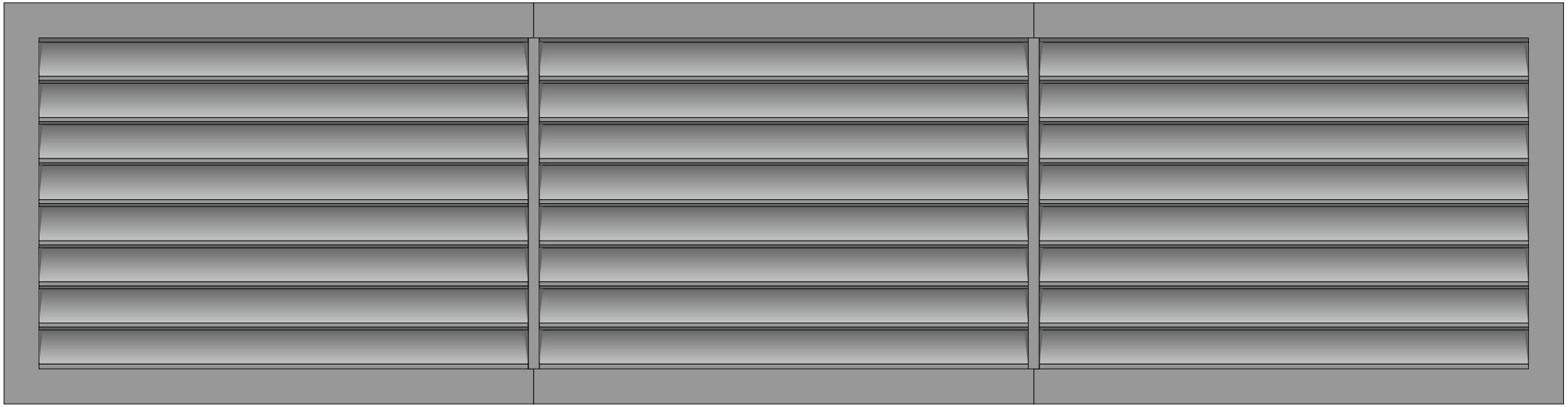


2) intake louvres "puzzle" - for sizes above L=2350mm and H=1500mm (the amount of intake louvre adapted to the overall dimension of the mounting hole)

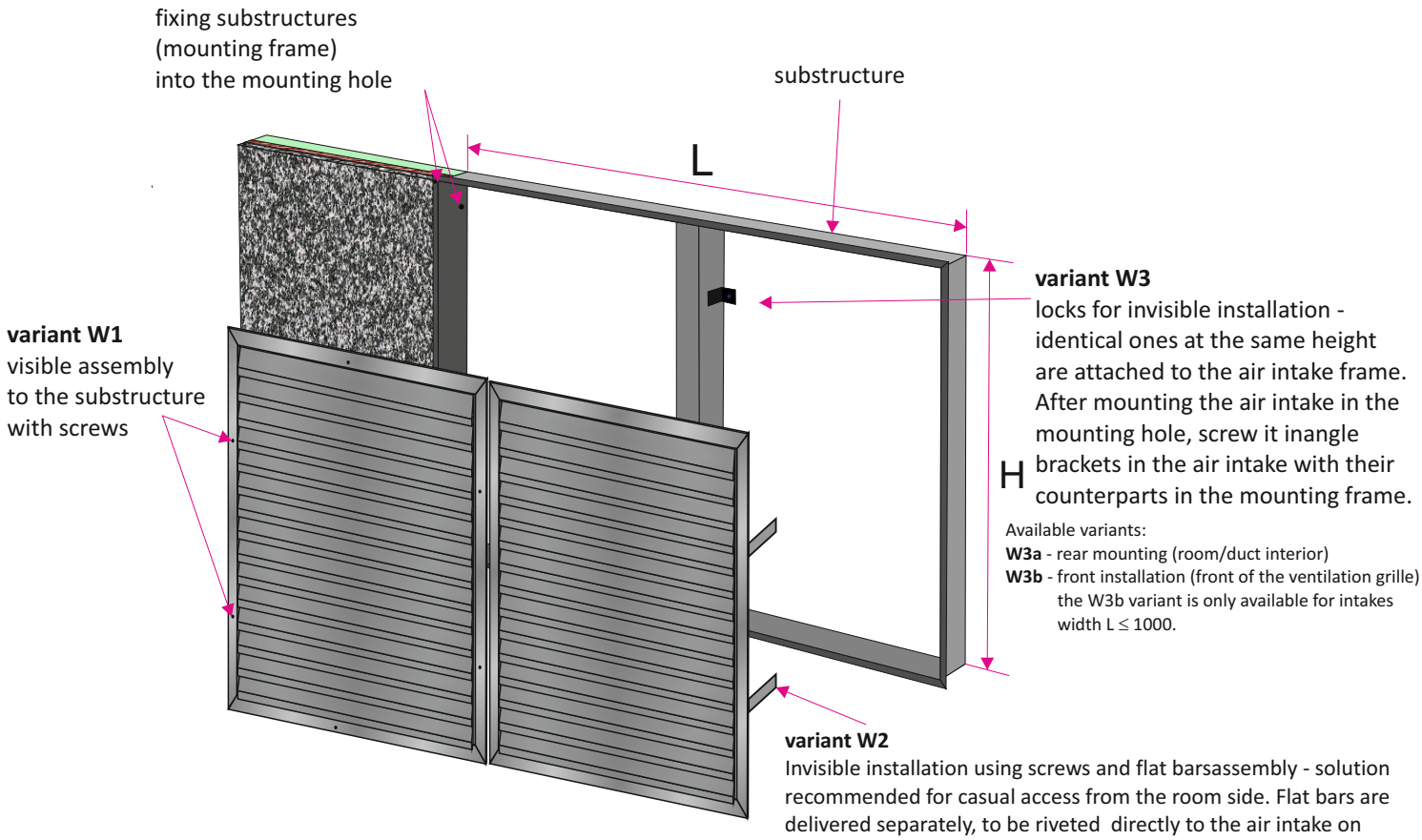
Louvres ready for transport

MODULE 1 **MODULE 2** **MODULE 3**

Louvres after mounting



3) wall external intake louvre + substructure (mounting frame) - for sizes above L=2350mm and H=1500mm
(the amount of intake louvre adapted to the overall dimension of the mounting hole)



Technical data - The net free area

H [mm] \ L [mm]	300	400	500	600	800	1000	1200	1400	1600	1800	2000
	Net free area [m²]										
300	0,07	0,09	0,11	0,14	0,18	0,23	0,27	0,32	0,36	0,41	0,45
400	0,09	0,12	0,15	0,18	0,24	0,30	0,36	0,42	0,48	0,54	0,60
500	0,11	0,15	0,19	0,23	0,30	0,38	0,45	0,53	0,60	0,68	0,75
600	0,14	0,18	0,23	0,27	0,36	0,45	0,54	0,63	0,72	0,81	0,90
800	0,18	0,24	0,30	0,36	0,48	0,60	0,72	0,84	0,96	1,08	1,20
1000	0,23	0,30	0,38	0,45	0,60	0,75	0,90	1,05	1,20	1,35	1,50
1200	0,27	0,36	0,45	0,54	0,72	0,90	1,08	1,26	1,44	1,62	1,80
1400	0,32	0,42	0,53	0,63	0,84	1,05	1,26	1,47	1,68	1,89	2,10
1600	0,36	0,48	0,60	0,72	0,96	1,20	1,44	1,68	1,92	2,16	2,40
1800	0,41	0,54	0,68	0,81	1,08	1,35	1,62	1,89	2,16	2,43	2,70
2000	0,45	0,60	0,75	0,90	1,20	1,50	1,80	2,10	2,40	2,70	3,00
2400	0,54	0,72	0,90	1,08	1,44	1,80	2,16	2,52	2,88	3,24	3,60
2800	0,63	0,84	1,05	1,26	1,68	2,10	2,52	2,94	3,36	3,78	4,20
3000	0,68	0,90	1,13	1,35	1,80	2,25	2,70	3,15	3,60	4,05	4,50

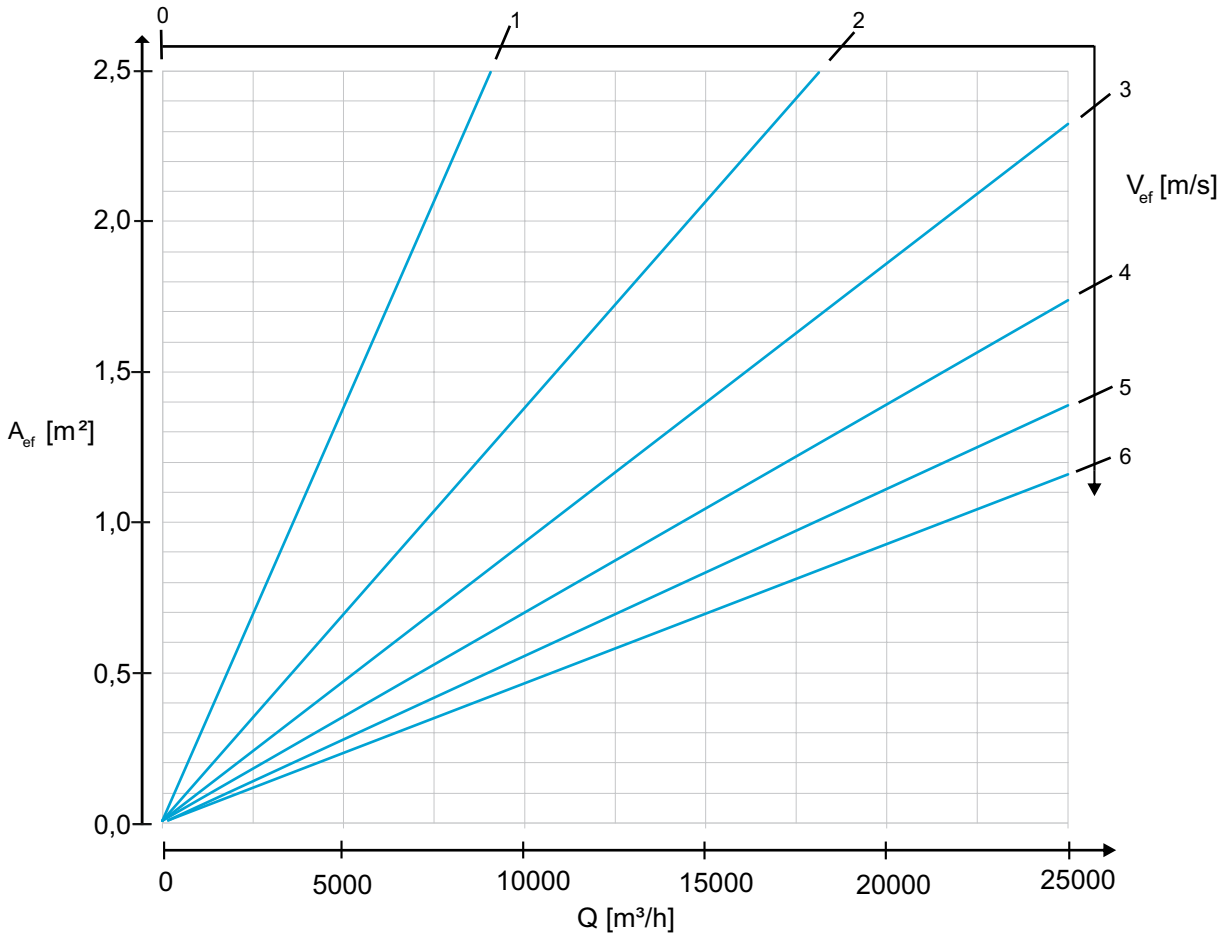
Intake louvre one-piece, undivided

Intake louvre divided into dimension H

Intake louvre divided into dimension L

Intake louvre into dimension L i H

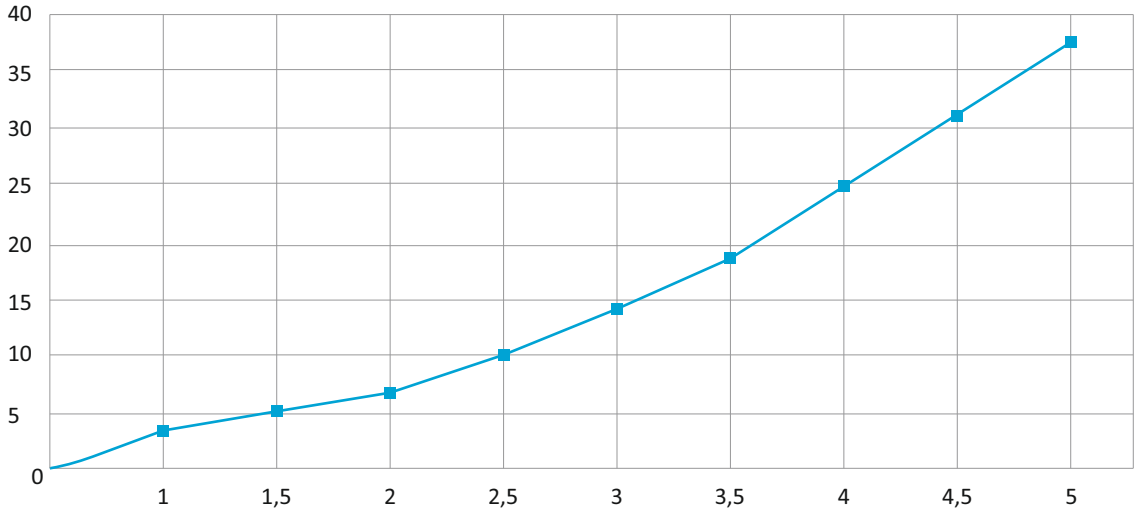
Technical data - Effective speed depending on the flow of air and the effective surface area.



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

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

Pressure drop [Pa]



Speed of air [m/s]

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The method of placing an order

Please make orders according to the following formula:

CzS-A-HF / 'LxH' / 'RAL' / 'M' / 'W'

'LxH' - mounting hole size (width x height) in mm
'RAL' - louvre color according to RAL palette (standard RAL9006*)
'M' - material:
OC - powder coated steel
AL - aluminum powder coated
KO - stainless steel / acid proof steel (1.4301 or 1.4404)
'W' - type of frame
R1 - frame with flange to the wall
R2 - frame in C-profil
- mounting option:
W1 - visible assembly with screws through the holes in louvre front frame *
W2 - invisible assembly with additional flatbars
W3 - invisible assembly using screws, and an additional mounting frame
W3a - rear mounting (room/duct interior)
W3b - front installation (front of the ventilation grille)
The W3b variant is only available for air intakes with a width of L ≤ 1000

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