

Description and application

Ventilation grilles double sides, have the function of equalizing-flow. They are part of the ventilation system to ensure flow between rooms and by building partitions. They are suitable for installation in door or window profile. Grilles have still blades in the shape of an inverted V, blocking the visibility. Due to its construction grille flow are used in areas exposed to mechanical damage (boiler rooms, garages, gyms, as well as external air intakes louvres).

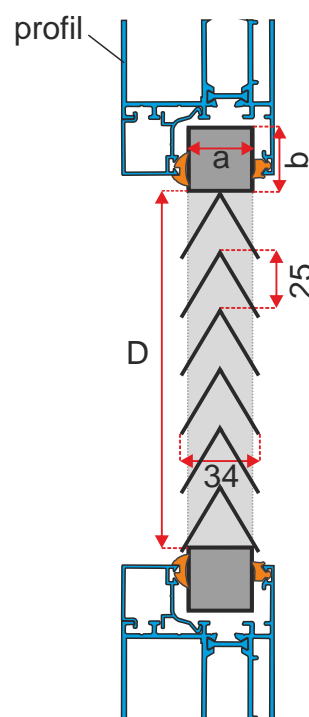
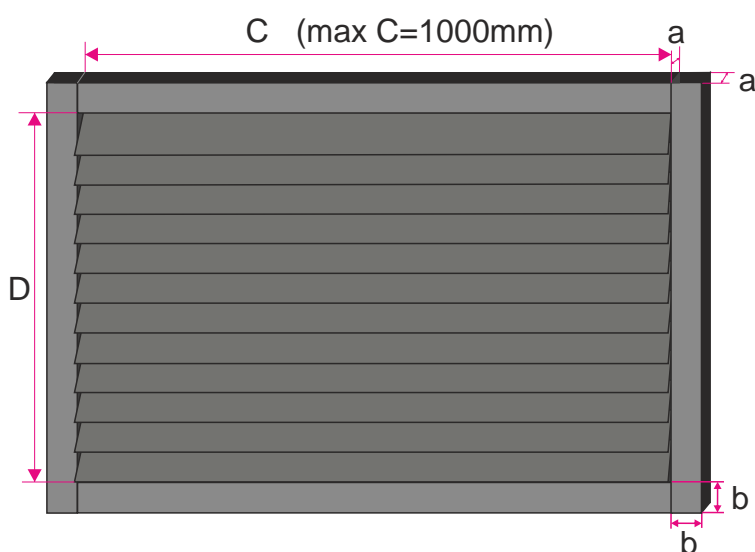
Panel grille has Hygienic Certificate HK/K/0522/01/2016

Material and workmanship

Grille is made from galvanized sheet steel powder coated to any RAL color (standard RAL9016). On request it is possible to make a grille from aluminum or stainless steel (1.4301 or 1.4404). Making the order give the information if the grille will be mounted inside or outside the building.

Dimensions and mounting method

Dimension "a" summed with material thickness.



Grille KWSP for mounting in a door or window profile we made to order in sizes adjusted to the individual customer needs.

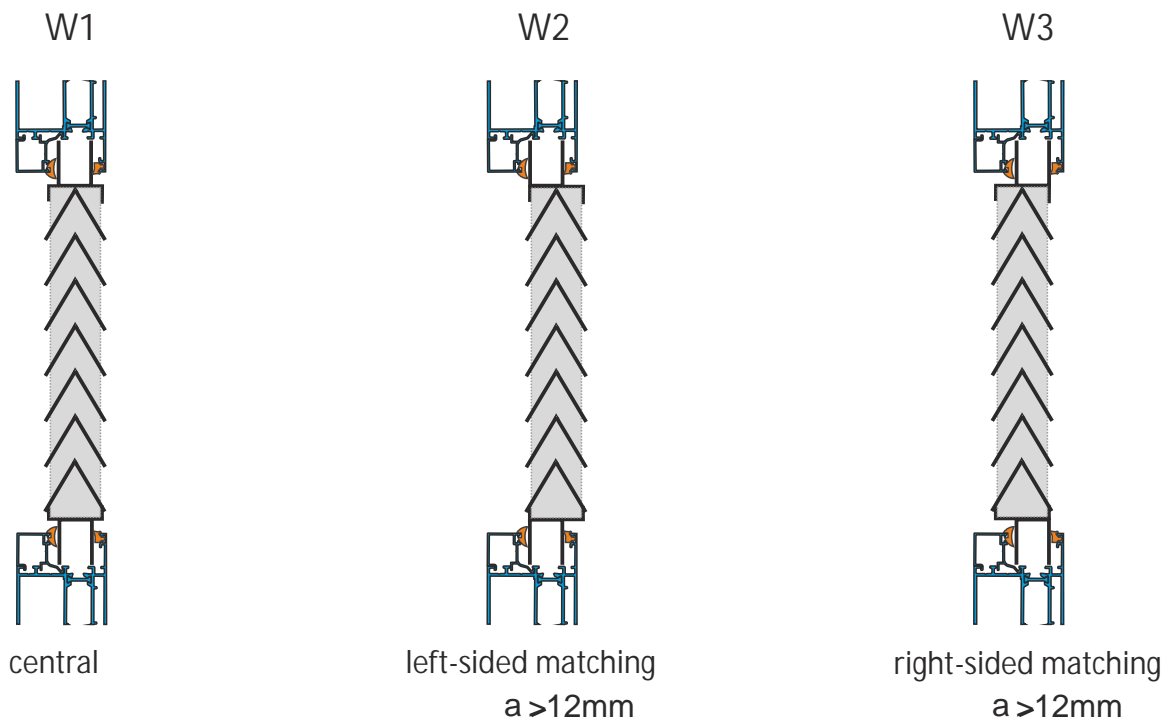
In case of dimension C > 1100mm Producer may propose splitting the grille (agreed with the client).

Technical data - effective area of air flow (sample size)

D \ C	225	325	425	525	625	825	1025	1225
mm	Aef (m ²) effective area							
125	0,008	0,012	0,015	0,018	0,022	0,029	0,035	0,041
225	0,018	0,026	0,034	0,042	0,051	0,066	0,082	0,099
325		0,040	0,052	0,065	0,077	0,103	0,128	0,153
425			0,069	0,085	0,102	0,135	0,168	0,202
525				0,106	0,127	0,168	0,210	0,250
625					0,157	0,208	0,262	0,310

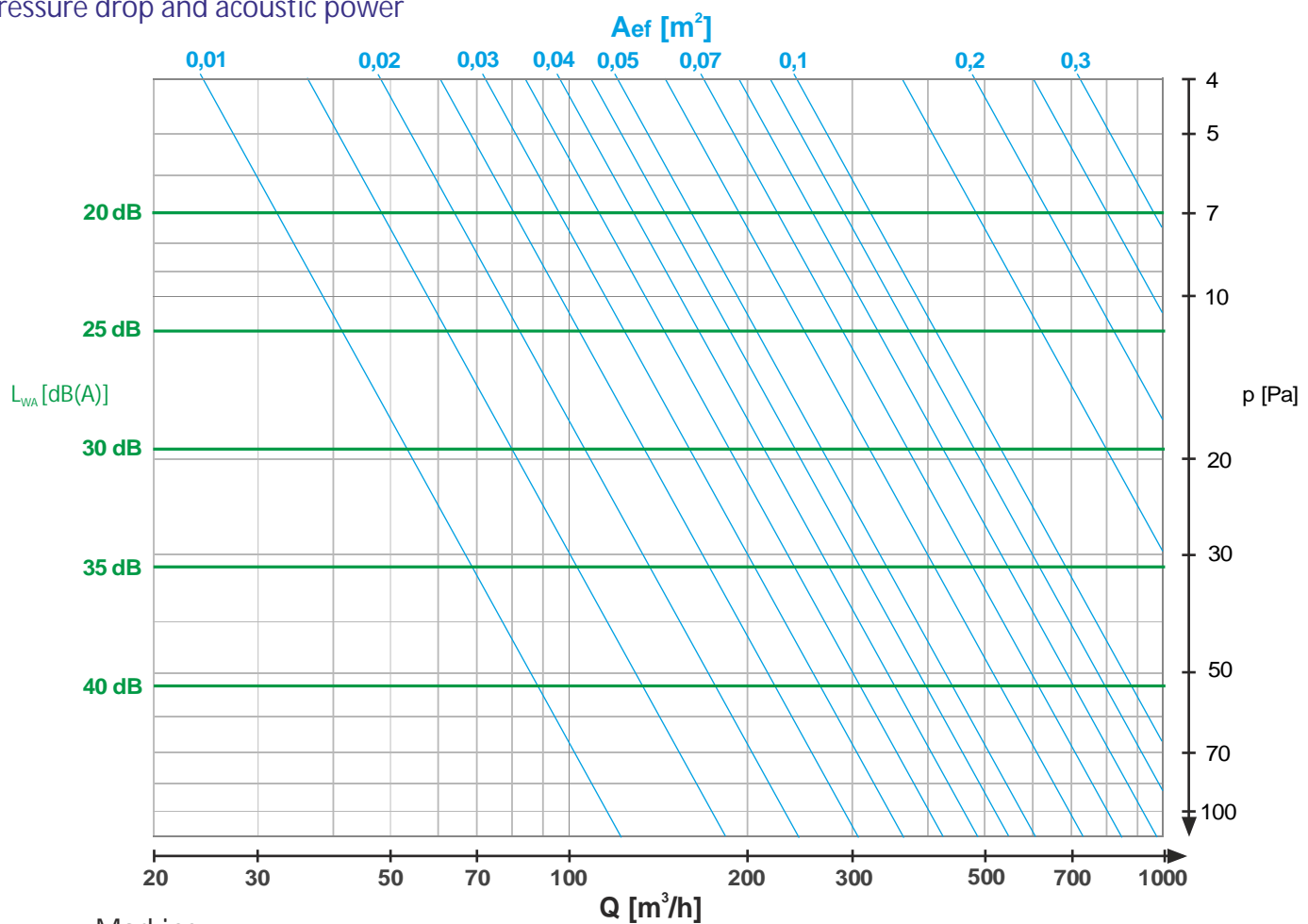
Grilles are produced to order. Dimensions in the table are used only to evaluate the effective area grille.

Methods of mounting in a panel



Technical data

Pressure drop and acoustic power



Marking:

Q [m³/h]- air volume flow

L_{WA} [dB(A)]- acoustic power level

DP [Pa]- pressure drop

A_{ef} [m²]- grille effective area

EXAMPLE

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EXAMPLE

- efficiency grille $Q=400 \text{ m}^3/\text{h}$
- grille 625x325

Reading the table:

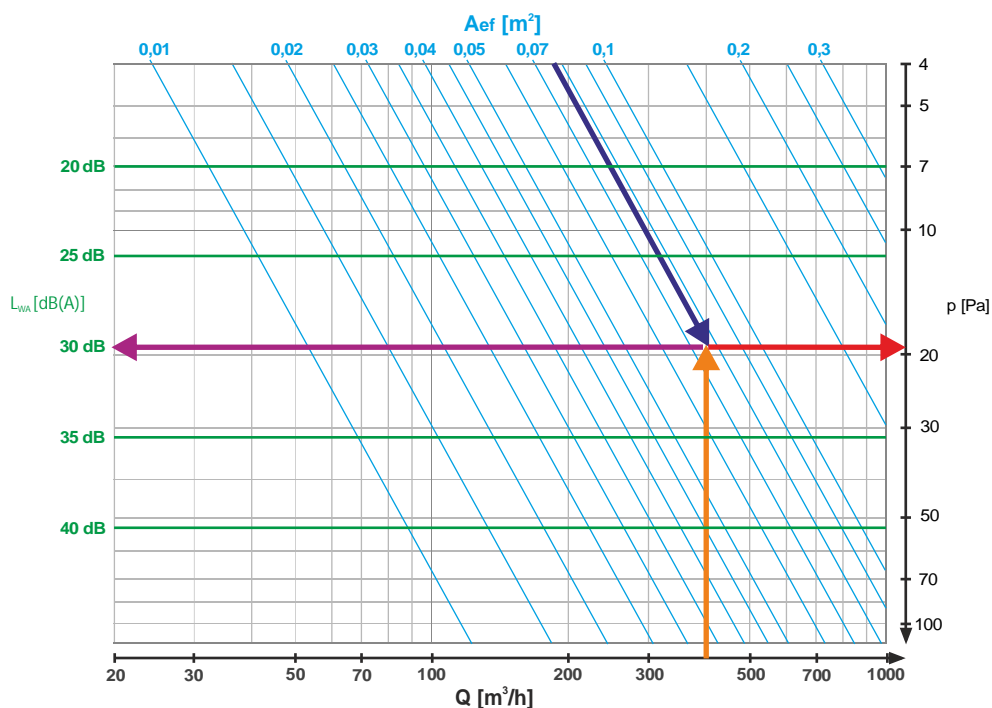
- $A_{ef}=0,077 \text{ [m}^2\text{]}$

EXAMPLE

- $A_{ef}=0,077 \text{ [m}^2\text{]}$
- efficiency grille $Q=400 \text{ m}^3/\text{h}$

Reading the graph:

- acoustic power $L_{WA}=30 \text{ dB}$
- pressure drop $p < 20 \text{ Pa}$



The method of placing an order

Please make orders according to the following formula:

$$\text{KWSP/P / 'Cx'D' / 'a' / 'b' / 'S' / 'RAL' / 'M' / 'MM'}$$

- 'Cx'D' - grille light surface dimension (width x height) in mm
- 'a' - depth of the frame
- 'b' - width of the frame
- 'S' - mesh
 - BS - without protective mesh*
 - ZS - with protective mesh
- 'RAL' - grille color according to RAL palette (standard RAL9016*)
- 'M' - material:
 - OC - powder coated steel*
 - AL - aluminum powder coated
 - 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
- 'MM' - mounting place
 - W - inside building
 - Z - outside building (elevations, outside doors)

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