

ALP VENTILATION GRILLES



Intended use:

ALP ventilation grilles are designed for low and medium pressure ventilation systems.

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The frame and fixed vanes of the grilles are made of aluminium anodised in natural colour or painted with RAL9010 white paint. It can also be coated to order with other RAL colour. The ALP type comes with vanes set at an angle of 15° as standard. The tilt angle of the vanes can be different ($\alpha = 0^\circ, 30^\circ, 45^\circ$).

Design

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Frame design

The grille frames and vanes are made of profiles, as shown in the figure below.

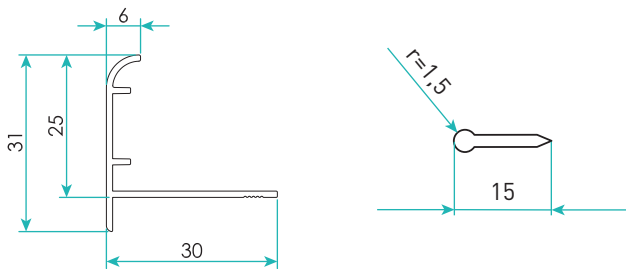


Figure 1. ALP frame construction.

Installation

It is possible to mount frames to a baffle:

- with screws, through the holes in the grille frame
- with latches that are invisible from the outside + an assembling frame or a plenum box



In the case of installation in a ceiling we recommend to use screws passed through holes in a grille frame. The grilles are fitted with visible supports for stiffening blades when: $C > 420$.

Dimensions

The standard dimensions of the grilles are presented below. On the Contracting Party's request it is possible to make custom-sized grilles.

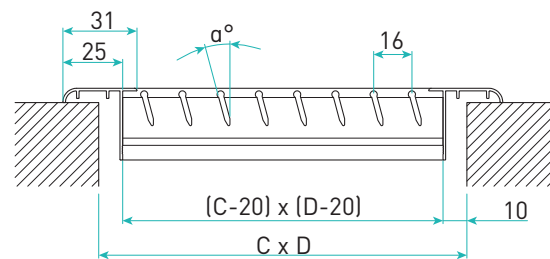
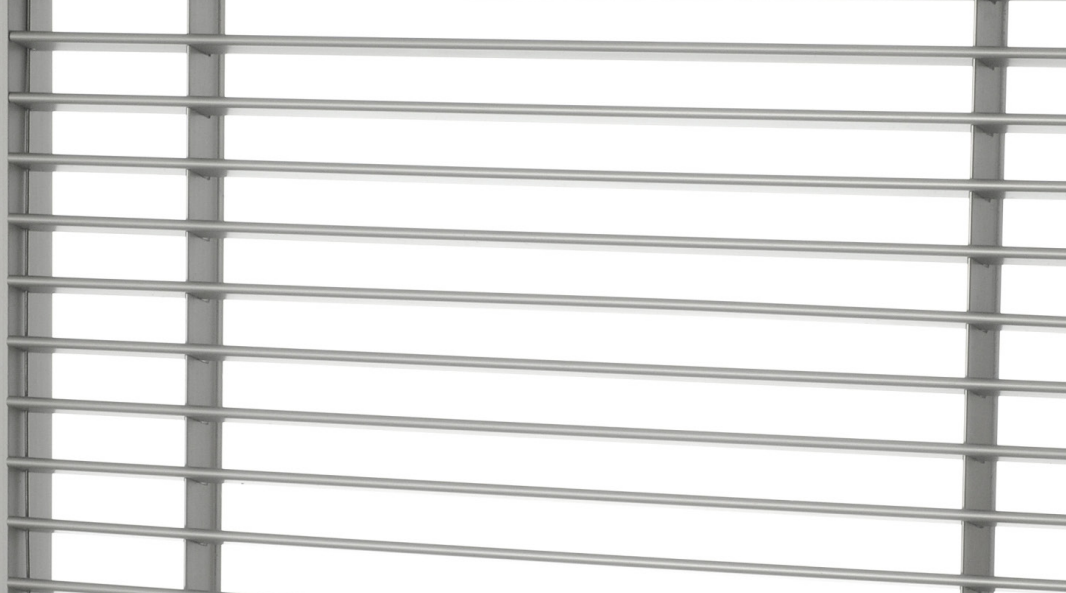


Figure 2. Size of ALP grilles.

Table 1. Effective area and weight of the ALP grille.

C	D	ALP	
		A _{eff}	Weight
[mm]	[mm]	m ²	kg
225	75	0,008	0,2
325	75	0,013	0,2
425	75	0,017	0,3
525	75	0,021	0,4
625	75	0,026	0,4
825	75	0,034	0,6
1025	75	0,043	0,7
1225	75	0,052	0,8
225	125	0,016	0,2
325	125	0,024	0,3
425	125	0,032	0,4
525	125	0,041	0,5
625	125	0,049	0,6
825	125	0,066	0,8
1025	125	0,082	1
1225	125	0,099	1,2
225	225	0,031	0,4
325	225	0,047	0,6
425	225	0,063	0,7
525	225	0,079	0,9
625	225	0,096	1
825	225	0,128	1,4
1025	225	0,16	1,7
1225	225	0,192	2



ALP - Ventilation grilles

When ordering, please provide information in accordance with the following pattern:

ALP - <C>x<D> - <M> - <P><RAL> / <ADD>

Where:

C	mounting hole width in mm
D	mounting hole height in mm
M	way of mounting*
	none - mounting with screws
	Z - invisible latch
P	finishing*
	AA - anodised aluminium (AL grilles)
	AL - painted aluminium (AL grilles)
RAL	colour as per RAL (for SL or AL finishing)**
ADD	specify additional accessories here, as below

Plenum box as per the configuration below:

<SR> <I> - <H> - <K> <D> <R>

I	insulation
	none - no insulation
	t - insulated
H	plenum box height in mm*
K	connection pipe position
	b - side
	g - top
D	connection pipe diameter in mm*
R	damper in the connection pipe
	none - no damper
	P - damper adjusted from outside the box
	Pc - damper adjusted from inside the box with a tie rod

Accessories**

GA	backward damper made of aluminium
GP	backward damper made of galvanised steel
GS	concurrent damper
GC	tangent-balance damper
GM	arc damper
GT	slot damper
RM	assembling frame
RM+F	assembling frame with a filter
LO1	screen deflector with effective area equal to 38% of the cross-section
LO2	screen deflector with effective area equal to 58% of the cross-section

* optional values, if they are not provided, the default values will be used

** for more information about accessories see the accessories sheet for grilles and diffusers

Example product marking:

ALP-825x225-Z-AL9010/GA,SRt-270-g160