

### Characteristics:

A rectangular air supply or exhaust ventilation grille made of aluminium, with fixed vanes.

### Intended use:

The ALP ventilation grilles are designed for low- and medium-pressure ventilation systems. We particularly recommend to use the grilles with fan coil units.

### Design

The frame and fixed vanes of the grilles are made of aluminium anodised to a natural colour or painted in RAL9010 white. Other RAL colours are available upon request. The ALP type is equipped with vanes set at an angle of 15° as standard. Upon request, the tilt angle of the vanes can be different ( $\alpha = 0^\circ, 30^\circ$  or  $45^\circ$ ).

### Net surface area

Approximate net surface area of the ALP grilles:

$A = 82\% \times [(C-32) \times (D-32)]$  – for an angle of  $0^\circ$

$A = 81\% \times [(C-32) \times (D-32)]$  – for an angle of  $15^\circ$  (standard)

$A = 72\% \times [(C-32) \times (D-32)]$  – for an angle of  $30^\circ$

$A = 56\% \times [(C-32) \times (D-32)]$  – for an angle of  $45^\circ$



The technical data of the grilles, including pressure loss, noise level and stream ranges, is available at [smay.eu](http://smay.eu), in the document titled "Flow Characteristics for Grilles and Diffusers"

### Installation

The grilles can be installed:

- with screws through the holes in the frame (recommended for ceiling installation)
- with latches invisible from outside (an assembling frame or a plenum box required)

### Dimensions

The standard dimensions of the grilles are presented below. We can make custom-sized grilles upon request.

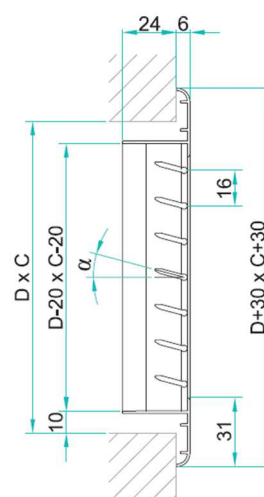


Figure 1. ALP grille dimensions

Standard dimensions of the ALP grilles:

- width **C = 225–1225 mm**
- height **D = 75–625 mm**

We can make custom-sized grilles or a set of multiple grilles upon request.



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

AA

AL

RAL



# ALP – Ventilation grilles with fixed vanes

When ordering, please provide information according to the following pattern:

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

Where:

<b>C</b>	mounting hole width in mm
<b>D</b>	mounting hole height in mm
<b>M</b>	installation method*
	<b>none</b> – with screws
	Z – with an invisible latch
<b>P</b>	Finish*
	AA – anodised aluminium
	AL – painted aluminium
<b>RAL</b>	colour as per RAL (for AL finishing)*
<b>ADD</b>	specify additional accessories here, as below

Accessories\*\*

<b>GA</b>	opposed blade damper made of aluminium
<b>GP</b>	opposed blade damper made of galvanised steel
<b>GT</b>	slot damper made of galvanised steel
<b>RM</b>	assembling frame made of galvanised or stainless steel
<b>RM-F</b>	assembling frame made of galvanised or stainless steel, with a filter
<b>L01</b>	screen deflector with a clearance equal to 40%, made of galvanised steel
<b>L02</b>	screen deflector with a clearance equal to 58%, made of galvanised steel
<b>NDS&lt;S&gt;</b>	NDS connection pipe for round ducts (in the <S> field provide requested diameter of the connection pipe in mm)

Plenum box as per the configuration below:

<SR> <I> – <H> – <K><D><R><P>

Where:

<b>I</b>	insulation*
	<b>none</b> – no insulation
	t – insulated
<b>H</b>	plenum box height in mm*
<b>K</b>	connection pipe position*:
	<b>b</b> – side
	g – top
<b>D</b>	connection pipe diameter in mm*
<b>R</b>	damper in a connection pipe*
	<b>none</b> – no damper
	P – damper adjusted from outside the box
	Pc – damper adjusted from inside the box with a tie rod
	Pd – damper adjusted from inside the box with a lever
<b>P</b>	design*
	<b>S0</b> – galvanised steel
	SN – stainless steel, quality 1.4301 (304 according to AISI, 0H18N9 according to PN)
	– stainless steel, quality 1.4404
	SM (316L according to AISI, 0H17N14M2 according to PN)

\* optional values – if not specified, default values will be used

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

Order example:

**ALP – 825x225 – Z – AL9010 / GA, SRt – 270 – g160**



Blocks for REVIT software, a selection programme and certificates are available at [www.smay.pl](http://www.smay.pl).