



Air grilles
for induction units

ALWN

Hygienic certificate:
HK/B/1121/01/2007



Aluminium grilles ALWN ▲
with single row of stationary vanes
inclined under the angle of 45 degrees.

Air grilles ALWN are designed for application in the low- and medium-pressure ventilation systems. Because of the reinforced construction they are highly recommended for the facilities where the increased risk of mechanical damage occurs e.g. in gym or sport halls

The arrangement of the grille vanes causes two-way air supply. This type of the grille is recommended for using with the induction units.

Air grilles ALWN ALWN

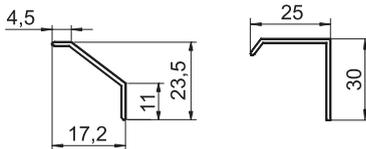


Material

The grille frame and stationary vanes are made out of the aluminium varnished in white RAL9010. On order, it is possible to varnish them in another RAL colour. ALWN has the vanes inclined under the angle of 45 degrees. Two of the vanes are juxtaposed in order to provide the two-way air supply.

Frame and vane construction

The grille frames and vanes are made out of the profiles as in the figure.



Assembly

The grilles can be mounted to the barrier:

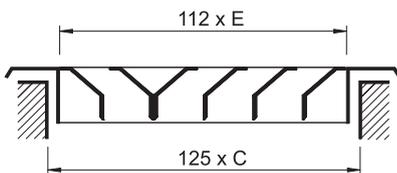
- with tap bolts through the holes in the grille frame
- on invisible-from-outside clasp locks
 - + assembling frame or plenum box
- on mounted-inside-grille assembling fasteners
 - + assembling frame or plenum box

NOTE: In case of mounting in the ceiling, it is recommended to apply the assembly with tap bolts through the holes in the grille frame or by means of assembling frame and assembling fasteners

Dimensions

The standard dimensions of the grilles are given below. On customer's request, it is possible to produce the grilles with the dimensions other than the standard ones.

The useful surface of ALWN amounts $A_{eff} = 0,035 \text{ m}^2$ for 1 m of the grille with reference to the dimension E.



C	E	ALWN	
		A_{eff}	Mass
[mm]	[mm]	m^2	kg
515	500	0,018	0,8
765	750	0,026	1,1
1015	1000	0,035	1,4
1265	1250	0,044	1,8
1515	1500	0,053	2,1

Where:

C - width of the assembly hole in mm

D - height of the assembly hole in mm

A_{eff} - active surface in m^2

Mass - grille weight in kg

Selection of ALWN



Nomograms presenting the hydraulic and acoustic characteristics of the grilles are on page XXX

Accessories and how to order ALWN

While making the order, it is necessary to provide the information according to the below-mentioned method:

ALWN - <C>x125 - <M> - <P><RAL> / <ADD>

Where:

- <C> - width of the assembly hole in mm
- x125 - height of the assembly hole = 125 mm
- <M> - assembly method: **
 - none = assembly with tap bolts**
 - Z = invisible clasp lock
 - S = assembling fastener ***
- <P> - finishing:
 - AL - varnished aluminium**
- <RAL> - colour according to the RAL palette*
- <ADD> - here you should determine the additional accessories as below:

Accessories **

- <GA> - backward damper made out of aluminium
- <GS> - concurrent damper made out of the galvanised steel
- <GC> - tangent-balance damper
- <GM> - arc damper
- <GT> - slot damper
- <RM> - assembling frame
- <RM+F> - assembling frame with filter
- <L01> - screen deflector with useful surface of 38% section
- <L02> - screen deflector with useful surface of 58% section
- <NDS><S> - NDS connector pipe for round ducts
(in <S> give the required connector diameter in mm)

Plenum box according to the configuration as below:

- <SR><I>-<H>-<K><D><R>
- <I> - insulation:
 - none = no insulation
 - t = insulated
- <H> - box height in mm *
- <K> - position of connector pipe:
 - b = lateral
 - g = upper
- <D> - connector pipe diameter in mm *
- <R> - damper in the connector pipe:
 - none = no damper
 - P = damper with regulation from outside the box

* optional values, when they are not given, the default values shall apply

*** available only with the assembling frame or plenum box, recommended assembly method of grilles in the ceiling

Example of the order:

ALWN - 1015x125 - Z - AL9010 / GA, SRt - 270 - b160

Notes

