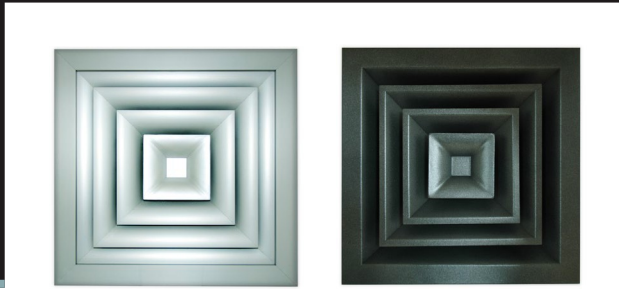


ALDA/SDA

RECTANGULAR CEILING DIFFUSER



Description:

Aluminium or steel rectangular ceiling diffuser with fixed blades.

Intended use

ALDA and SDA ceiling diffusers are designed for low- and medium-pressure ventilation systems.

Design

ALDA diffusers are made of aluminium anodised in natural colour or powder-coated in RAL 9010 white. They can also be coated in another RAL colour on request.

SDA diffusers are made of steel and powder-coated in RAL 9010 white. Other RAL colours and stainless steel versions are available on request (SDA-4 only).

ALDA and SDA ceiling diffusers are available with blades adjusted to 1-, 2-, 3-, or 4-directional flows.

Table 1. Standard dimensions of ALDA/SDA diffusers.

D x C	150	205	261	317	372	429	458	558	583
150	x								
205	x								
261	x	x							
317	x	x	x						
372	x	x	x	x					
429	x	x	x	x	x				
458	x	x	x	x	x	x			
558	x	x	x	x	x	x	x		
583	x	x	x	x	x	x	x	x	



Standard dimensions of rectangular diffusers Standard



dimensions of square diffusers There are no available



versions for this size

Installation

- With screws through the holes in the diffuser frame
- With latches invisible from the outside and a mounting frame or a plenum box
- With a central bolt (ALDA4, SDA 4 and SDA-4P square diffusers only) and a plenum box.



In the case of installation within a ceiling, we recommend using screws through the holes in the diffuser frame or a central bolt. The connection pipe of the plenum box is placed on side D by default.

Dimensions

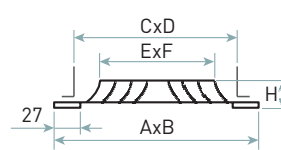


Figure 1. ALDA dimensions.

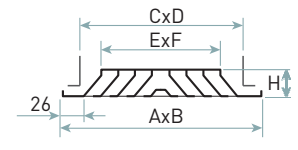


Figure 2. SDA dimensions.

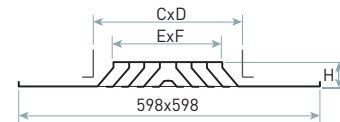


Figure 3. SDA-4P dimensions.

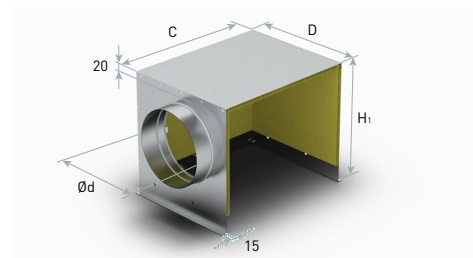


Figure 4. Dimensions of the SR square plenum box.

Table 2. Standard dimensions of ALDA and SDA diffusers and plenum boxes.

Size	A, B [mm]	E, F [mm]	H [mm]	ød [mm]	C, D [mm]	H1 [mm]
150	190	68	50	123	150	270
205	245	123	50	158	205	270
261	301	179	50	158	261	270
317	357	235	50	198	317	330
372	412	290	50	198	372	330
429	469	347	50	248	429	380
458	498	376	50	248	458	380
558	598	476	50	313	558	430
583	623	501	50	313	583	430

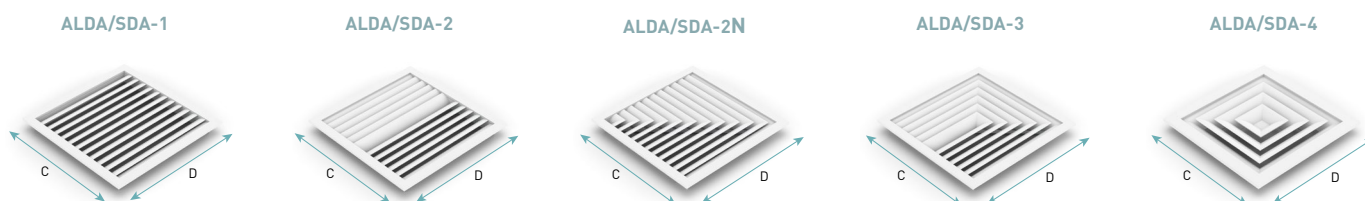


Technical data of the diffusers, including pressure loss, noise level and airflow ranges, is available at smay.eu, in the document "Flow Characteristics for Grilles and Diffusers".

AIRFLOW CONTROL AND DISTRIBUTION



ALDA/SDA diffuser versions



ALDA/SDA - Rectangular ceiling diffuser

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

ALDA/SDA - <W> - <C>x<D> - <M> - <P><RAL> / <ADD>

Where:

TYPE	ALDA or SDA
W	The number of the directions of flow* <ul style="list-style-type: none"> 1 – 1-directional flow, 2 – 2-directional flow, 2N – 2-directional corner flow (for square ceiling diffusers only) 3 – 3-directional flow, 4 – 4-directional flow 4P – 4-directional diffuser in a panel (SDA-4P)
C	Mounting hole width in mm
D	Mounting hole length in mm
M	Installation method:* <ul style="list-style-type: none"> K4 – With screws Z – With an invisible latch K1 – Installation with a central bolt (ALDA4, SDA4 and SDA-4P square ceiling diffusers only)
P	Finish:* <ul style="list-style-type: none"> SL – Painted steel (SDA and SDA-4P ceiling diffusers) SN – Stainless steel, grade 1.4301 (304 according to AISI, 0H18N9 according to PN, SDA-4 diffuser only) AA – Anodised aluminium (ALDA ceiling diffusers) AL – Painted aluminium (ALDA ceiling diffusers)
RAL	Colour as per RAL (for SL or AL finish)*
ADD	Specify additional accessories here as follows:

Accessories**

RM Mounting frame

Plenum box as per the configuration below:

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

I	Insulation* <ul style="list-style-type: none"> None – No insulation t – Insulated
H	Plenum box height in mm*
K	Position of spigot * <ul style="list-style-type: none"> b – Side g – Top
D	Spigot diameter in mm*
R	Damper in spigot * <ul style="list-style-type: none"> None – No damper P – Damper regulated from outside the box Pc – Damper regulated from inside the box with a cord Pd – Damper regulated from inside the box with a lever
P	Design* <ul style="list-style-type: none"> S0 – Galvanised steel SN – Stainless steel, grade 1.4301 (304 according to AISI, 0H18N9 according to PN) SM – Stainless steel, grade 1.4404 (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

Example product labelling:

ALDA-429x429-Z-AL9010/SR-380-b248P