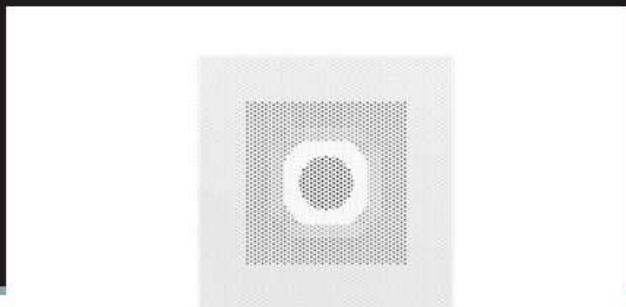# SDBP

PERFORATED RECTANGULAR DIFFUSER

Description:
A rectangular ceiling diffuser made of steel with perforated front panel.

Intended use

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

Design

The SDBP diffusers are made of galvanised steel and powder-coated in white, RAL 9010. They can also be coated in another RAL colour on request. The front panel of the diffuser is made of perforated steel. In the air supply version, SDBPN, the diffuser has steel vanes hidden behind the front panel. They provide a 4-directional air flow. The air exhaust version, SDBPW, does not have any air vanes.
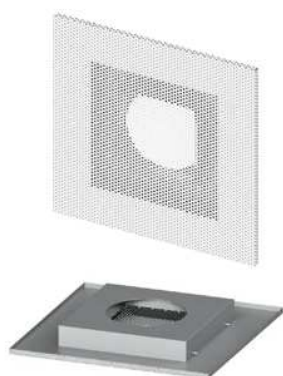
SDBP diffuser versions

SDBPN
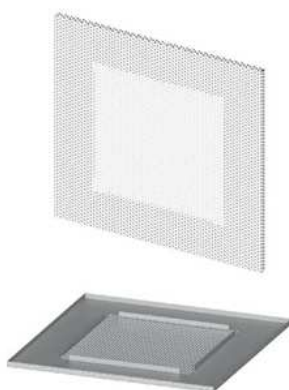
SDBPW

Figure 1. Air supply version with vanes.

Figure 2. Air supply version without vanes.

Installation

The diffusers are designed for installation in modular suspended ceilings with a single module dimensions of 600×600 mm.

> *i* 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.
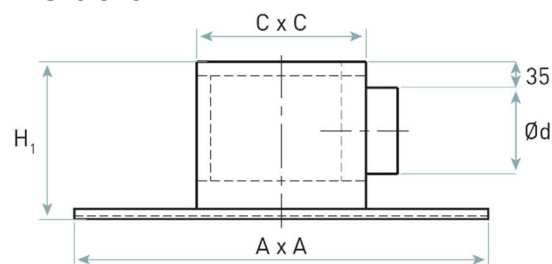
Dimensions

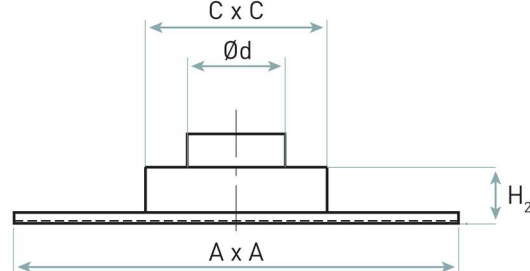*Figure 3. Dimensions of SDBP diffusers with a plenum box with a side connection.*

Figure 4. Dimensions of SDBP diffusers with a plenum box with a top connection.

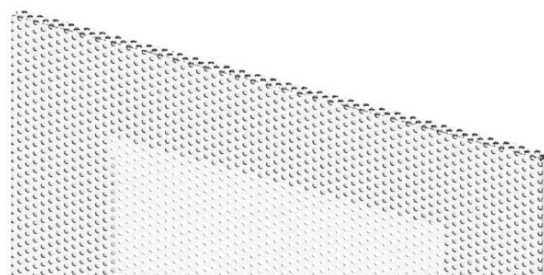Table 1. Standard dimensions of SDBP diffusers and plenum boxes

Size [mm]	A [mm]	Ød [mm]	C [mm]	H_1 [mm]	H_2 [mm]
250	593	125	240	225	65
300	593	160	305	260	65
400	593	200	380	305	70
500	593	200	475	315	80
550	593	250	550	385	100

SL   RAL

SDBP – Perforated rectangular diffuser

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

<Type> - <S> - <W> - SL<RAL> / <ADD>

Where:

Type	SDBPN (supply) or SDBPW (exhaust)
S	Diffuser dimensions 250, 300, 400, 500, 550
W	Number of air flow directions (only for SDBPN)
	4 – 4-directional flow
SL	Finish: coated steel
RAL	Colour according to the RAL colour chart*
ADD	Specify additional accessories here as follows

Accessories**

Plenum box as per the configuration below:

SR <I> - <K> <R>

Where:

I	Insulation*	
	None	**– No insulation**
	t	– Insulated (only when K= b)
K	Position of spigot *	
	b	**– Side**
	g	– Top
R	Damper in spigot *	
	None	**– No damper**
	P	– Damper adjusted from outside the box
	Pc	– Damper adjusted from inside the box with a tie rod

* Optional values – if not specified, default values will be used

** For more information see the accessories sheet

Example product labelling: **SDBPN-550-4-SL9010 / SRt-b**

ⓘ Blocks for Revit software,
a selection programme and
certificates are available at
www.smay.pl