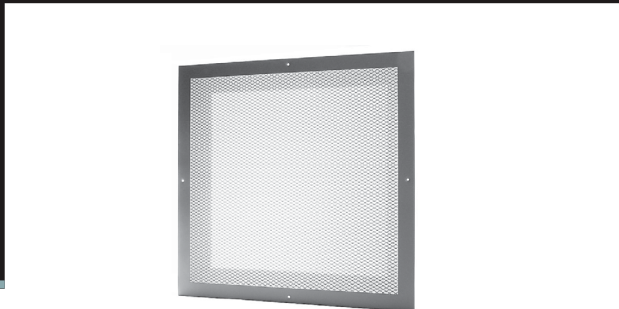


SDB

PERFORATED RECTANGULAR DIFFUSER



Description:

A square ceiling diffuser made of steel with perforated or mesh front panel.

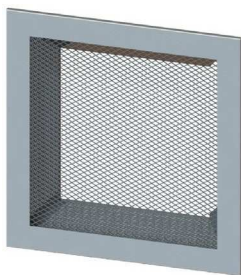
Intended use

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

Design

SDB diffusers are made of steel and powder-coated in white, RAL 9010. On request, other RAL colours are possible.

SDB-1



SDB-2

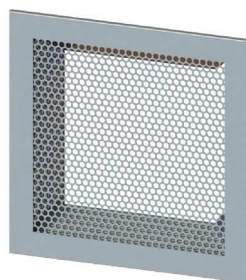


Figure 1. Front panel made of expanded metal mesh (65% clearance).

Figure 2. Perforated front panel with round mesh (58% clearance).

Installation

- With screws through the holes in the diffuser frame
- With latches invisible from the outside and an assembling frame or plenum box
 - Assembling frame
 - Plenum box



In the case of assembling within a ceiling, we recommend using screws through holes in the diffuser frame.



The technical data of the diffusers, including pressure drop, noise level and stream ranges, is available at smay.eu, in the "Flow Characteristics for Grilles and Diffusers" document.

Dimensions

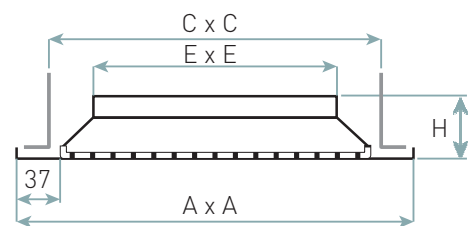


Figure 3. SDB front panel dimensions.

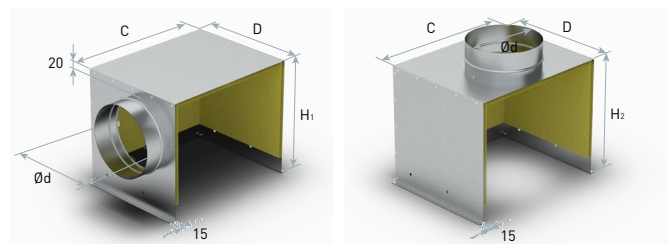


Figure 4. Dimensions of SR rectangular plenum boxes for SDB panels.

Table 1. Standard dimensions of SDB diffusers and boxes.

Size	A	E	H	Ød	C	H ₁	H ₂
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
150	190	68	50	123	150	270	270
205	245	123	50	158	205	270	270
261	301	179	50	158	261	270	270
317	357	235	50	198	317	330	330
372	412	290	50	198	372	330	330
429	469	347	50	248	429	380	380
458	498	376	50	248	458	380	380
558	598	476	50	313	558	430	430
583	623	501	50	313	583	430	430



Blocks for REVIT software, selection range and certificates are available at www.smay.pl.

SL

RAL

SDB – Perforated rectangular diffuser

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

SDB - <W> - <C> x <D> - <M> - SL <RAL> / <ADD>

Where:

W	Type of covering surface*
	1 – Made of expanded metal mesh (65% clearance) 2 – Made of round-mesh screen (58% clearance)
C	Mounting hole width in mm
D	Mounting hole height in mm
M	Installation method:*
	None – With screws Z – With an invisible latch

SL	Finish: coated steel
RAL	colour according to the RAL colour chart

Accessories**

GP	Backward damper made of galvanised steel
GSN	Combined damper made of stainless steel
RM	Assembling frame

Plenum box as per the configuration below:

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

I	Insulation*
	None – No insulation t – Insulated
H	Plenum box height*
K	Connection pipe position*
	b – Side g – Top
D	Connection pipe diameter in mm*
R	Damper in a connection pipe*
	None – No damper P – Damper adjusted from outside the box

	Pc – Damper adjusted from inside the box with a cord Pd – Damper adjusted from the inside with a lever
P	Version*
	SO – Galvanised steel SN – Stainless steel, grade 1.4301 (304 according to AISI, 0H18N9 according to PN) SM – Stainless steel, grade 1.4301 (316L according to AISI, 0H17N14M2 according to PN)

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

** For more information on accessories, see the accessories

sheet Sample order: **SDB-1-558x558-Z-SL9010/SRt-430-b313**