

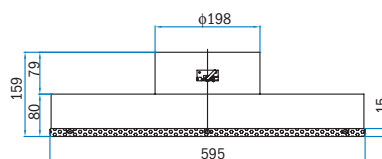
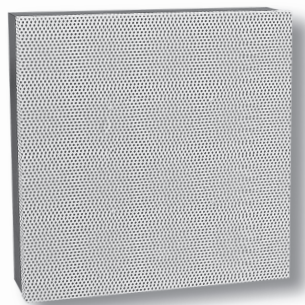
## Square diffuser KD-15

### Application

Square diffusers are designed for supply and extract air applications in the rooms with floor to ceiling heights from 2.4 to 4 m. They can be installed in panel ceilings why their dimensions fits the size of the ceiling panels. Inlet spigot dimensions are designed to fit standard duct sizes.

### Description

Square diffuser KD-15 consists of perforated diffuser face and plenum box with inlet spigot. Dispersing sheet steel allows different discharge angles (one, two, three or four directions). Dispersing sheet steel and housing are coloured in black and perforated diffuser face in RAL 9010, or according to customer's request.

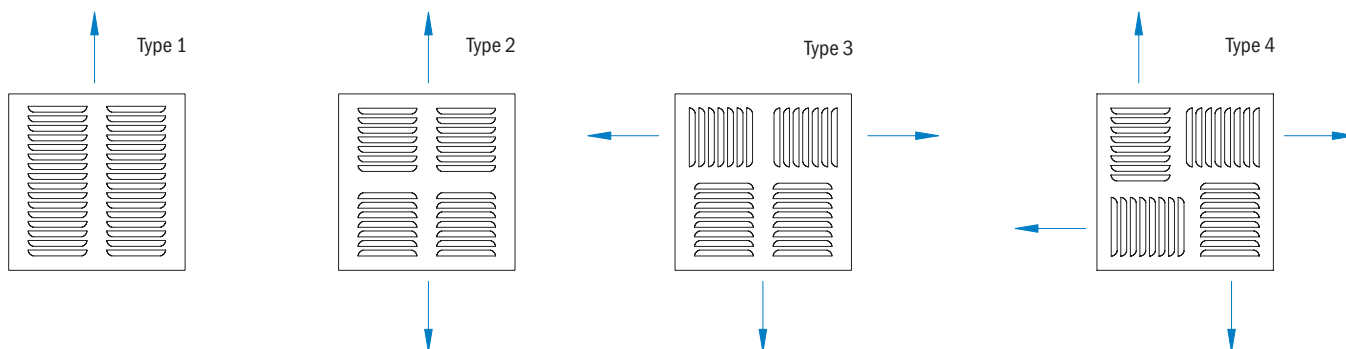


### Component parts:

1. Perforated diffuser face
2. Dispersing sheet steel
3. Housing
4. Inlet spigot
5. Volume control damper

Type	A	B	$\Phi A_{ef} (m^2)$
<b>KD-15/A</b>	595	595	0.13099

### Dispersing sheet steel types



### Ordering key

**KD-15A / M / 1 / I5**

1      2      3      4

1 Diffuser type

**KD-15A**      KD-15 with plenum box

2 Air regulation

**M**      Volume control damper

3 Dispersing sheet types

1

2

3

4

4 Insulation

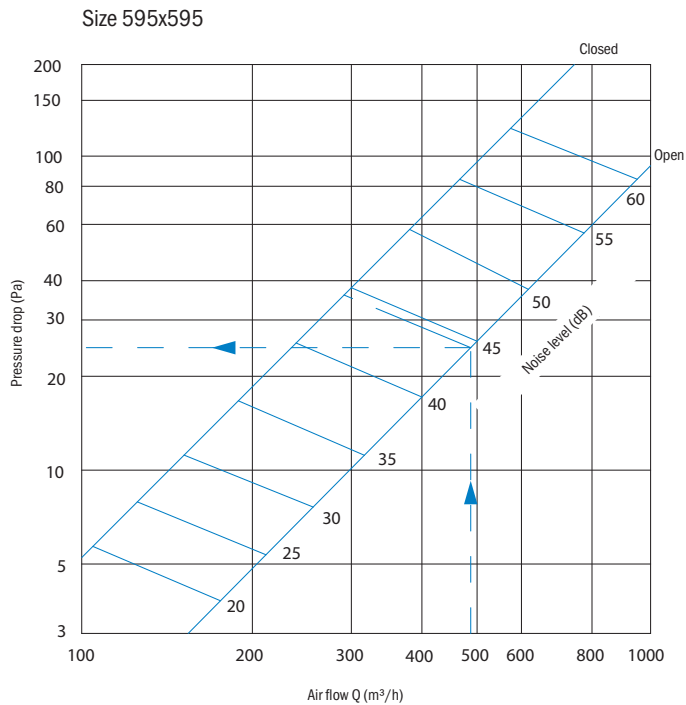
**I5**      5 mm PE thermal insulation outside of plenum box

**I9**      9 mm synthetic rubber based sound & thermal insulation (-40°C - 105°C) outside of plenum box

**I19**      19 mm synthetic rubber based sound & thermal insulation (-40°C - 105°C) outside of plenum box

**Pressure drop and sound power level diagram**  
 (Control flap angle: 90° – open, 0° – closed)

**Diagram for determination of throw distance**



**Example**

**Given data:**

Air flow volume:  $Q = 490 \text{ m}^3/\text{h}$ ,  $L = 1.4 \text{ m}$   
 Max. air velocity at the throw distance L:  $v_L = 0.20 \text{ m/s}$   
 Sound power level:  $L_{WA} = 44 \text{ dB(A)}$   
 Pressure drop:  $\Delta p = 24 \text{ Pa}$