

# PELICAN Wall a

Installation – Commissioning – Maintenance

20220307

## General

Rectangular perforated supply air diffuser for wall mounting, well-suited for constant or variable airflow. Rotatable nozzles behind the hinged diffuser face make it a simple task to readjust the air distribution pattern.

## Design

Rectangular supply air diffusers for installation in a wall, so-called rear-edge air diffuser. If the perforated air diffuser section is mounted in an ALV commissioning box, it is removable and is also equipped with adjustable type VARIZON air distribution nozzles.

## Installation

1. Cut an opening in the wall according to the wall opening dimensions specified.
2. Place the commissioning box in the opening.
3. Insert the mounting frame into the commissioning box and secure it by means of screws in the short sides to the commissioning box and to the wall structure.
4. The assembly and dismantling of the component parts are shown in Figure 2.
5. Press the diffuser face to engage it in the mounting frame.

## Commissioning

Commissioning must be carried out after the diffuser has been mounted and completely assembled. Pull the measuring tubes and damper adjustment cords out through the diffuser face. Connect a manometer to the measuring tubes. The desired commissioning pressure can be computed by applying the K-factor (rated coefficient of performance) of the air diffuser. Set the damper to the correct blade position and tie a commissioning knot on the damper adjustment cords to indicate the damper position. See Figure 1.

## Maintenance

The air diffuser can be cleaned, if necessary, using lukewarm water with dishwashing detergent added or by vacuum cleaning using a brush nozzle. The duct system can be accessed after the air diffuser section has been removed, the acoustic baffle has been withdrawn, the air distribution nozzles have been moved to the side and the damper has been turned and withdrawn from its fastener from the inlet. See Figure 1.

## Environment

The Declaration of Construction Materials is available from [www.swegon.com](http://www.swegon.com).

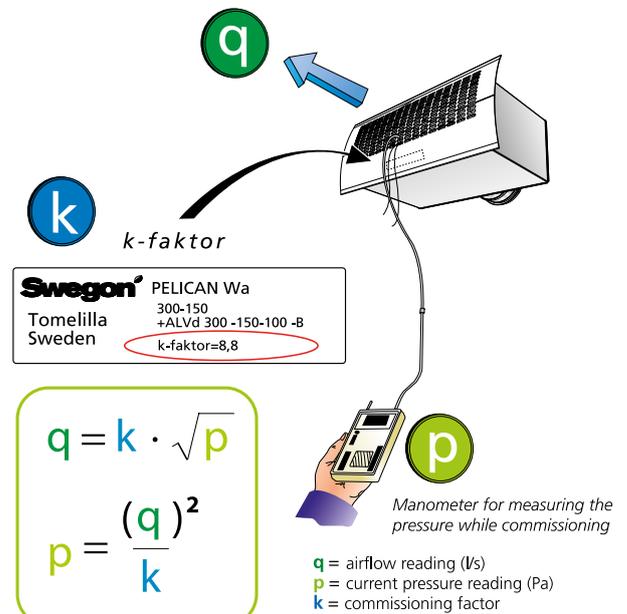


Figure 1. Commissioning.

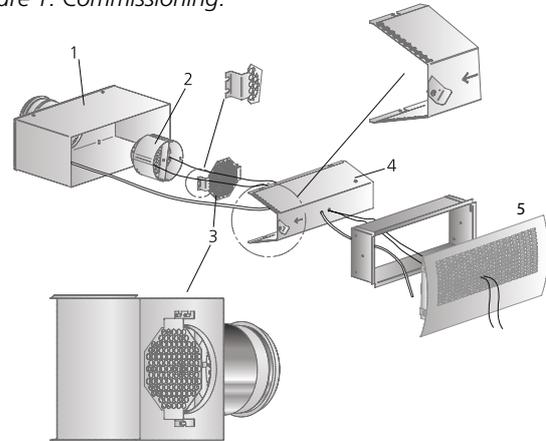


Figure 2. Installation.

To secure baffle (4) in bayonet catch and to secure the octagonal perforated face plate (3) against the duct connection.

1. Commissioning box
2. Damper action, bayonet catch
3. Octagonal air distribution plate
4. Air distribution plate
5. Mounting frame + air diffuser

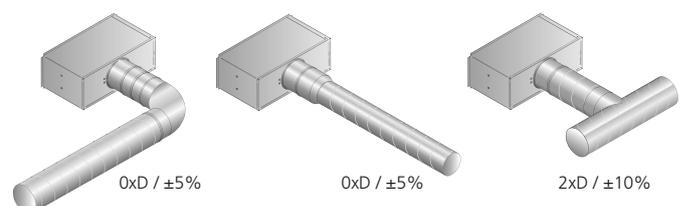


Figure 3. Installation alternatives, applies for all connections (B, K)

# Dimensions and weights

## PELICAN Wall

Size	A	B	D	E	G	G2	K	L	M	I x J	Weight, kg
300x150	350	200	99	295-375	225-305	270-350	85	145-225	195-275	305x155	3,0
400x150	480	200	124	295-375	225-305	331-411	85	180-260	240-320	405x155	3,5
400x200	480	250	159	315-395	225-305	331-411	100	145-225	225-305	405x205	4,0
550x250	650	300	199	360-440	251-331	371-451	120	145-225	245-325	555x255	6,5
550x300	650	350	249	385-465	251-331	425-505	145	145-225	275-355	555x305	7,0

Size of opening = dimensions I x J

The G2, K, L and M dimensions are applicable to a commissioning box with side connection spigot.

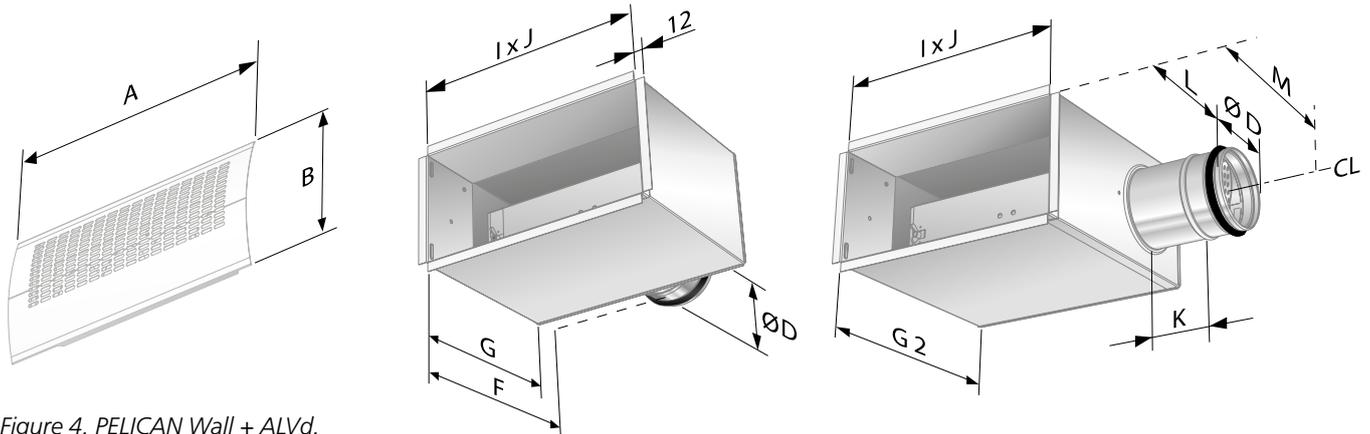


Figure 4. PELICAN Wall + ALVd.

## Various nozzle settings

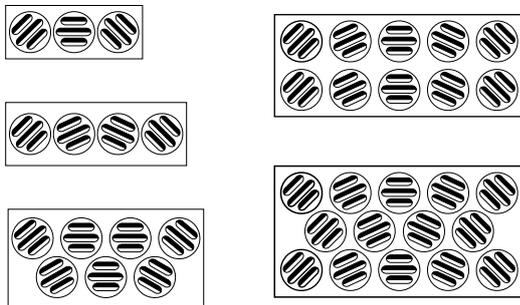


Figure 5. Air deflector settings for standard distribution pattern.

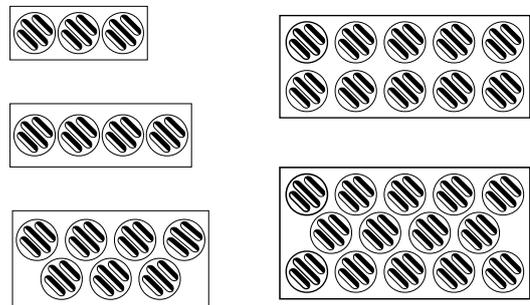


Figure 6. Air deflector settings for an alternative distribution pattern of 45° to the left.

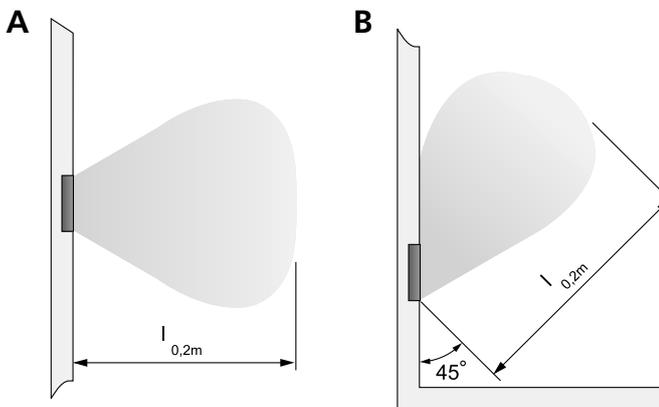


Figure 7. Isovel.

A. Standard distribution pattern, 0°.

B. Alternative distribution pattern, 45° to the left.

## K-Factor

Supply air			
PELICAN Wa	ALVe	Conn. B	Conn. K
300-150	300-150-100	8,8	8,1
200-150	400-150-125	10,9	11,1
400-200	400-200-160	17,3	17,3
550-250	550-250-200	25,6	25,1
550-300	550-300-250	32,2	32,6