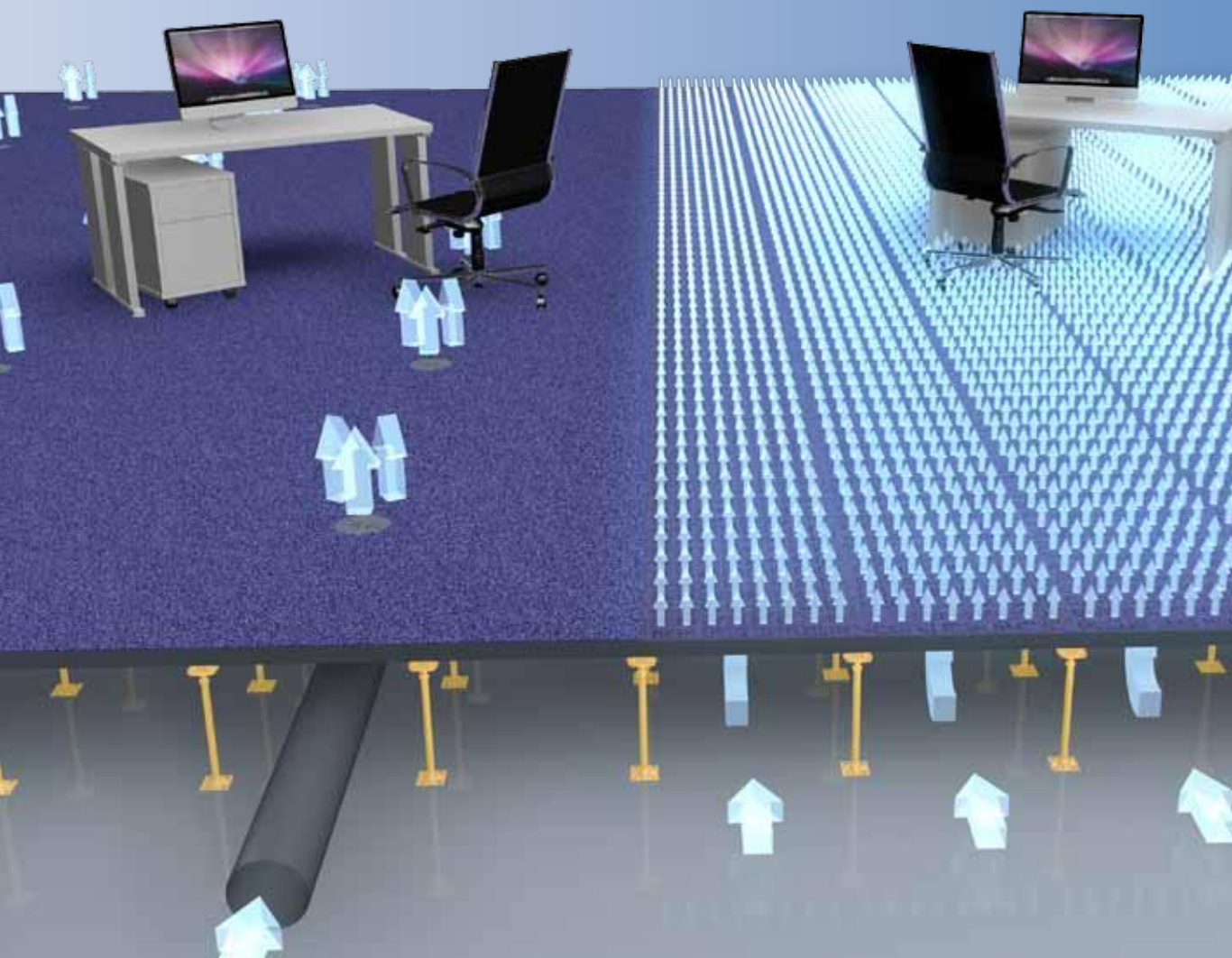


# MERO Access Floor / Air ventilation & Twist-air outlets – Floor systems for office areas

## Innovative solution from one source

Development  
Consulting  
Planning  
Manufacturing  
Installation

Access floor  
Hollow floor  
Floor covering and  
Installation  
Services



**MERO**  **TSK**

Floor systems

# The proven type of indoor ventilation – Twist-air outlets

Twist-air outlets with dust basket and air flow control are a low priced solution for the indoor ventilation.

## Applications for twist-air outlets

Office and administration buildings

## Advantages of twist-air outlets

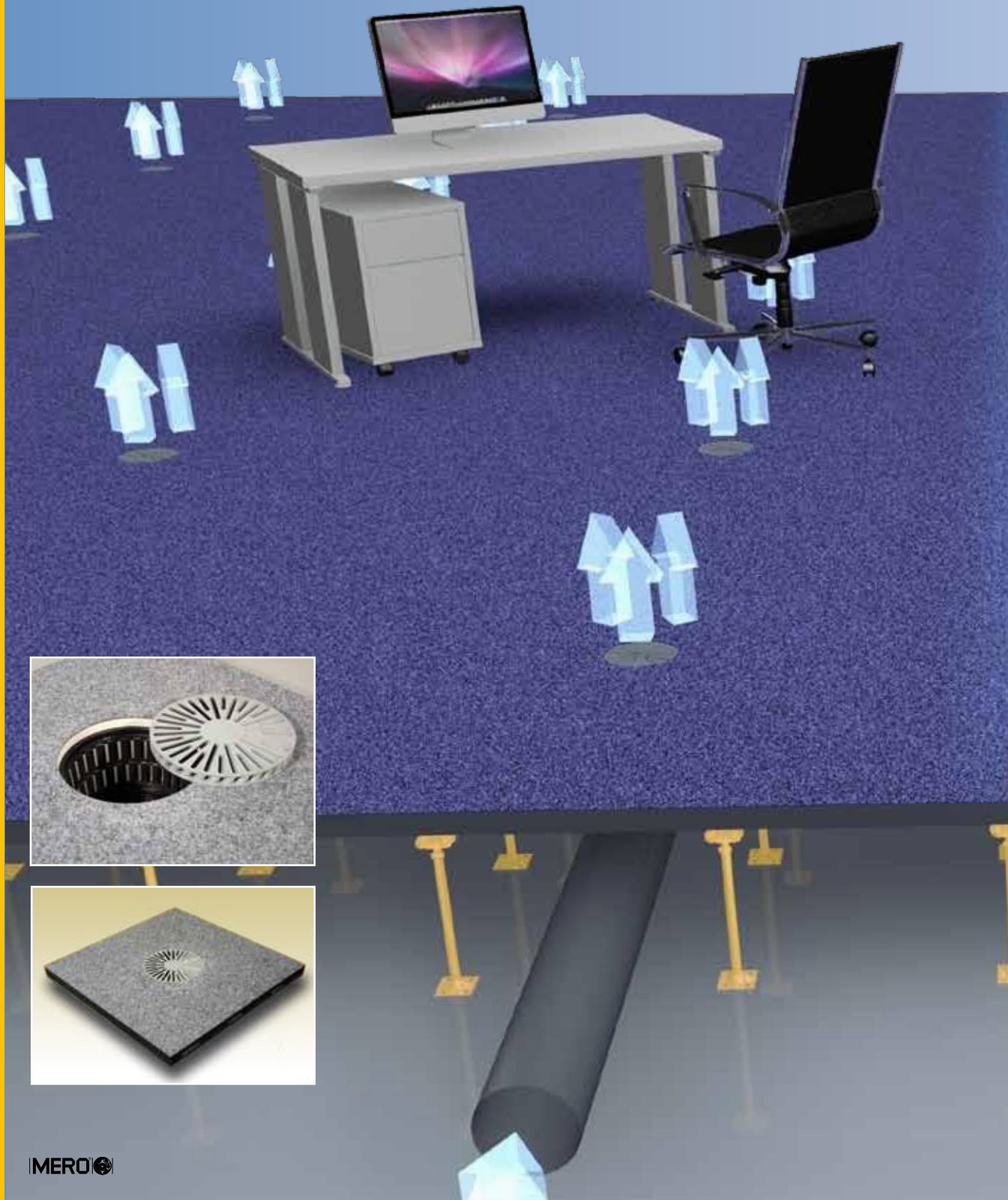
- Can also be used with elastic floor coverings

- Panels with twist-air outlets can be relocated in case of rearrangements
- Connection to the duct system is possible

## Construction principle:

The cavity of the access floor is put under pressure or the floor panels with outlet are connected to the duct

system by means of a flexible pipe. The twist-air outlets consist of ventilation plates with dust basket and air flow control. They can be inserted loosely and flush with the floor into a stepped bore or mounted into a through-hole fixed by a clamping flange.



# Air ventilation floor - the comfortable solution

Air ventilation floors allow an „invisible“ indoor air conditioning and ventilation without drafts. Therefore, they are perfect for rooms which require highest comfort.

## Applications for the air ventilation floor:

- Plenary halls
- Casinos
- Training / meeting rooms
- High-quality office areas

## Advantages of the air ventilation floors:

- No drafts
- No noise
- Invisible ventilation
- Energy efficient by surface effect
- Fast adjustment if required

## Construction principle:

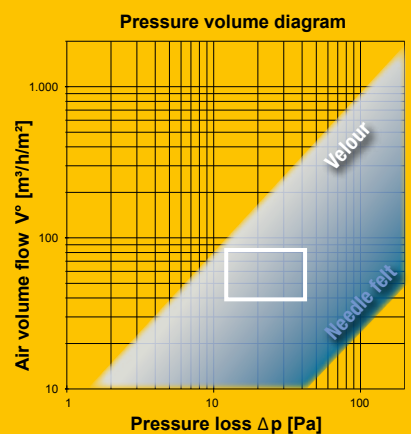
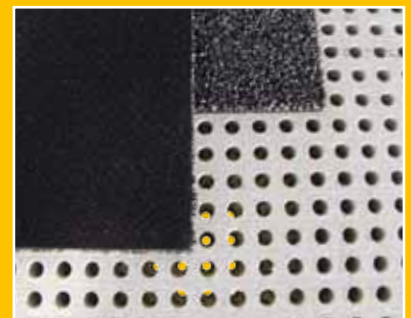
The cavity of the access floor generates an overpressure, which is pressing the air evenly through the carpet all over the area. The floor panels are available as perforated calcium sulfate panels or as slotted steel panels. The air volume can be determined through the air pressure, the air permeability of the selected carpet and the number of the perforated/slotted panels.



## An Important factor for air ventilation floors – the floor covering

The selection of the floor covering and the maintenance cleaning are very important.

The selected carpet is examined for its air permeability in the laboratory. The regular cleaning by brush vacuum keeps the carpet permeable and extends its life.



## Testing and development of air ventilation floors

The low air leakage rate (optimal joint tightness) ensures that sufficient air escapes evenly all over the area.

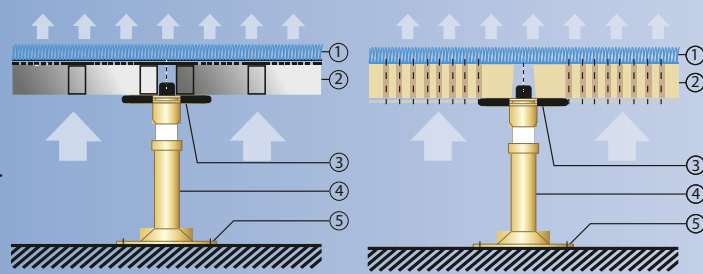


# Technical data\*: Air ventilation panels for office areas



System accessories:  
Continuously adjustable  
air flow control 0-32 %  
Screwed panels

\*For detailed technical data ask for our  
product data sheets which are avail-  
able on request.



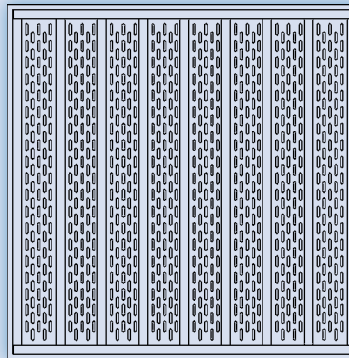
1. Floor covering
2. Access floor panel
3. Pedestal gasket
4. Access floor pedestal (type depends on floor height)
5. Base plate glued to the subfloor, doweled on request

## MERO Type 3

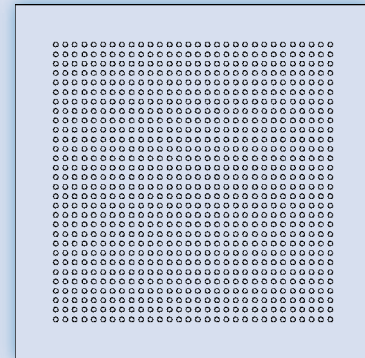
## MERO Type 6

### Panel:

#### Steel panel



#### Calcium sulfate panel



Dimensions: 600 x 600 mm  
Panel thickness (without covering): ~ 33 – 44 mm  
System weight: ~ 40 – 63 kg/m<sup>2</sup>  
(without covering, floor height 250 mm)  
Panel weight: ~ 14 – 22 kg/pc  
Panel material: steel construction,  
conductive powder coated

600 x 600 mm  
~ 36 – 40 mm  
~ 45 – 63 kg/m<sup>2</sup>  
~ 15 – 22 kg/pc  
fiber-reinforced calcium sulfate

### Air conditioning:

Free sections:	16 – 24 %	10 – 24 %
Air flow rate:	Depending on floor covering	Depending on floor covering

### Load values:

Concentrated load:	3.000 N – 6.000 N	2.000 N – 5.000 N
Element class acc. to DIN EN 12825:	Class 4 – 6	Class 1 – 5
Safety factor:	≥ 2,0	≥ 2,0

### Electrostatics: (DIN EN 1081; DIN 54345)

Depending on floor covering	> 10 <sup>5</sup> Ohm	> 10 <sup>5</sup> Ohm
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### Fire protection:

Building material class of supporting panel acc. to DIN 4102 T1:	A1	A2
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