

MERO Hollow Floor Combi T

Innovative solutions from one source

Development

Consulting

Planning

Manufacturing

Installation

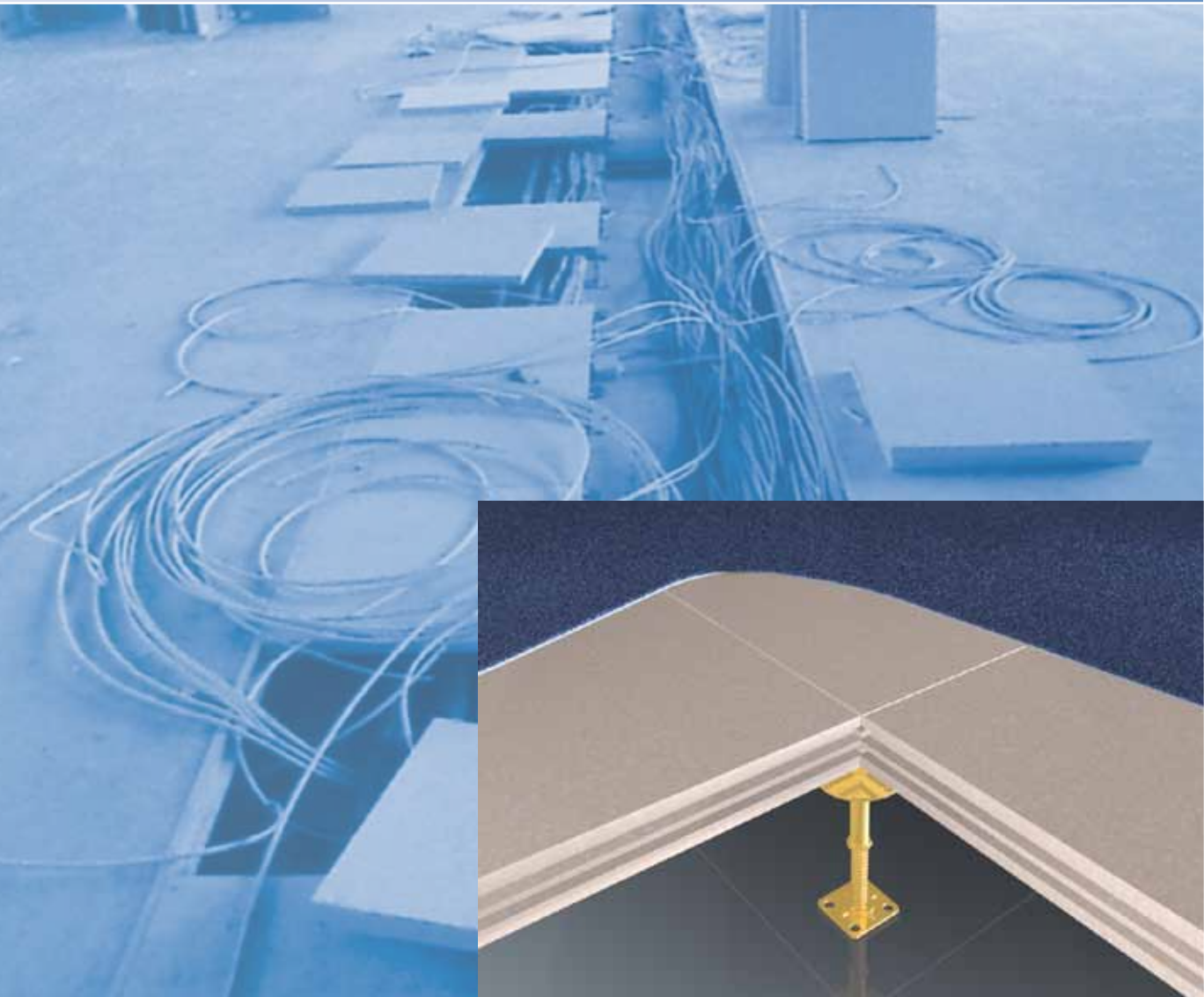
Access floor

Hollow floor

Floor covering and

Installation

Services



MERO  **TSK**

Floor Systems

Gain space by the multifunctional hollow floor



Barmenia Office Building - MERO hollow floor Combi T

The laying of the floor covering can be started one day after the installation of the dry hollow floor MERO Combi T. This floor system keeps your building flexible for future modifications.

Application:

- Standard offices
- Offices with increased static loads like lecture and assembly halls, treatment rooms and construction offices, libraries
- in storerooms and work-shops with light operation as industrial floor
- Airport terminals
- Moist and wet areas
- Surgeries, doctor's offices, x-ray areas

Advantages:

- The supporting panels are available in chipboard, calcium sulfate or as cement-bound panels
- The floor system does not generate any moisture in the building
- Laying of the floor covering is possible one day after installation
- Extremely short construction time. Saving 4 weeks of drying time compared to wet systems
- No need of dehumidification or heating of the building
- High load bearing capacity (see brochure „Heavy duty floor“)
- Available as certified complete system with integrated floor heating/cooling (see brochure Combi T Thermo)
- Low system weight
- Huge installation plenum
- Easy installation of pipe and supply line systems due to variable pedestal grid
- Unevenness of the concrete slab is levelled by height adjustable pedestals
- Installation on inclined areas is possible
- Adaption to all MERO floor systems is possible

Construction principle

Floor panel:

The MERO hollow floor Combi T consists of one or two-layer calcium sulfate, chipboard or cement-bound panels. All panels are circumferentially provided with tooth milling. The panel joints are glued together. Factory application of certain stone coverings, stoneware or parquet is also possible.

Substructure

The MERO substructure consists of continuously height adjustable steel pedestals. The size of the pedestal grid is depending on the load bearing capacity and the construction height.

Flexibility

The access to the installation plenum goes through the access floor ducts in the sizes 600/1200/1800 mm, the inspection openings 600x600/ 600x1200/600x1800 or the access openings D=307.

Partition walls

If there are no fire protection, sound insulation or safety requirements, the partition walls should be installed on the top edge of the hollow floor in order to facilitate the retrofitting.

Floor coverings

All kind of floor coverings can be used for Mero Combi T. In case of natural stone, stoneware or solid parquet, the hollow floor, the adhesive and the floor covering have to be coordinated.

Mounting units

Cutouts for mounting units like sockets or twist-air outlets can be prefabricated at factory or later installed on site.



Wall connections

All connections to the walls and rising building parts are provided with a sealing cord which serves as expansion joint and avoids impact sound transmission. An additional fire sealing tape is available on request. All lines of the customer should be installed with a distance of approx. 10 cm to the wall to allow the installation of pedestals in the perimeter area.

Junctions

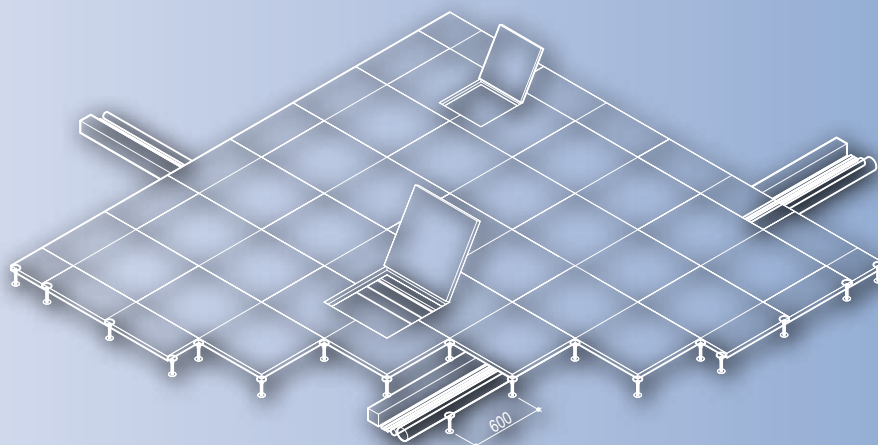
Hollow floor - Access floor

All MERO hollow floor and access floor systems can be easily combined.

Installation conditions

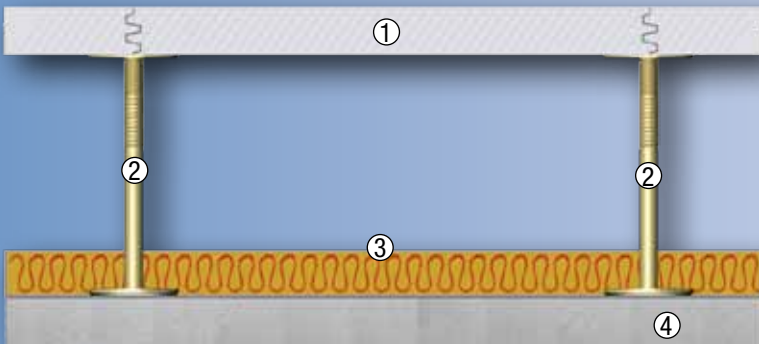
Indoor climate

The products are suitable for interior work (humidity 40-60% at 20°C). To counteract the effects of climate fluctuations, construction joints should be planned.



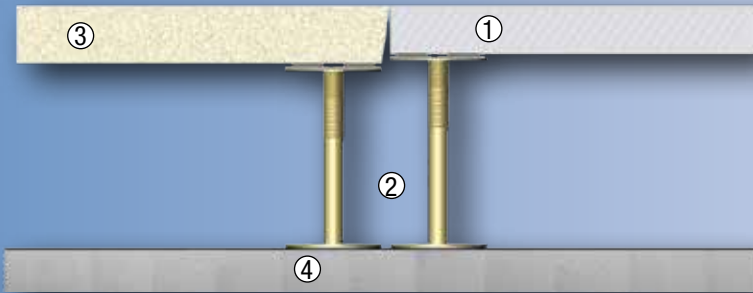
System Details

Thermal insulation



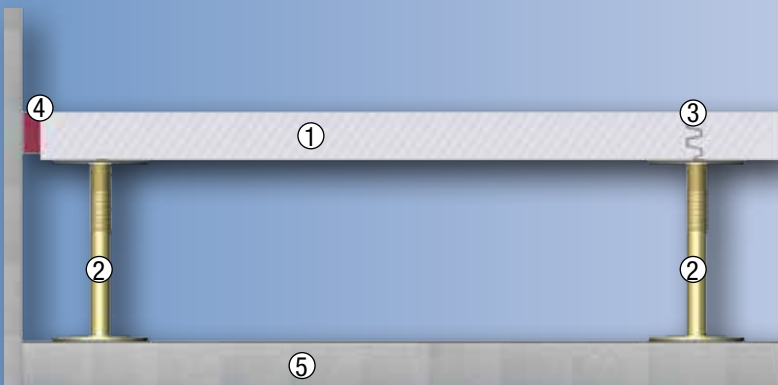
- 1 panel
- 2 pedestal
- 3 insulation
- 4 concrete slab

Junction to the access floor



- 1 panel
- 2 pedestal
- 3 sealing cord
- 4 concrete slab

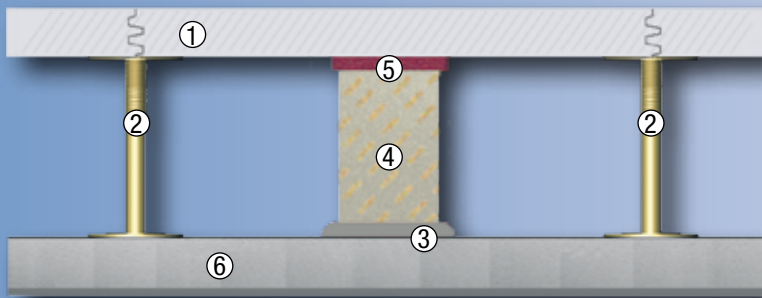
Wall connection



- 1 panel
- 2 pedestal
- 3 joint glue
- 4 perimeter strip
- 5 concrete slab

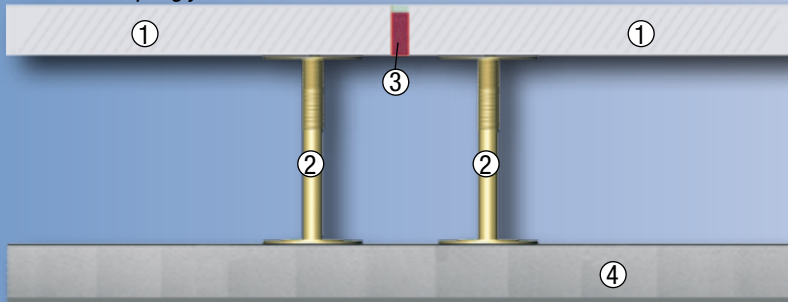
System Details

Fire barrier



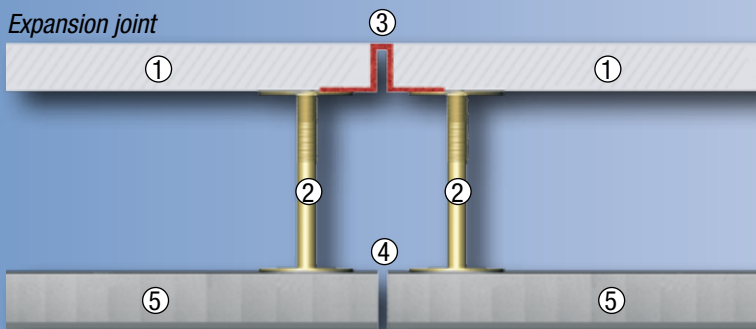
- 1 panel
- 2 pedestal
- 3 mortar bed
- 4 fascia
- 5 mineral wool (compressed)
- 6 concrete slab

Sound decoupling joint



- 1 panel
- 2 pedestal
- 3 sealing cord
- 4 concrete slab

Expansion joint



- 1 panel
- 2 pedestal
- 3 expansion joint
- 4 building expansion joint
- 5 concrete slab

Technical data*: Hollow Floor Combi T



Accessories:

Bores for sockets or air outlets at factory or on site
 Expansion joints
 Inspection openings
 Removable access floor panel row
 Cutouts
 Special wall connections
 Fascias
 Bridgings
 Thermal or impact sound insulation
 Stairs, ramps

*For further technical data please ask for our product data sheets.

Panel

Dimensions: 600x600 or 596x596 mm (Aqua)
 System weight: ~ 23 kg/m² – 125 kg/m²
 Panel material: fibre-reinforced calcium sulphate; chipboard; cementitious grout
 Glue: toothing glued together with premium solvent-free adhesive

Substructure

Module: 600 x 600 mm
 Pedestal material: galvanized steel
 Construction height: from 50 mm
 Pedestal: continuously adjustable in height
 Pedestal fixing: glued to subfloor and panel

Floor coverings

textile and elastic floor coverings, parquet, natural stone, artificial stone, liquid coatings

Load values

Concentrated load: 2,000 – 20,000 N
 acc. to DIN EN 13213: Class 1– 6
 Ultimate load: > 4,000 – 40,000 N

Fire protection

Building material class of panel
 acc. to EN 13501 T1: A1 possible
 Fire resistance class acc. to DIN 4102 T2: F30 possible

Acoustic values (depending on system and floor covering)

Sound reduction index $R_{L,w,P}$ 40 – 55 dB
 Normalized impact sound pressure level $L_{n,w,P}$ 33 – 83 dB
 Improvement of sound pressure level red. $\Delta L_{w,P}$ 15 – 33 dB

New denomination acc. to DIN EN

Normalized flank level difference $D_{n,f,w,P}$
 Normalized flank impact sound pressure level $L_{n,f,w,P}$
 Improvement of sound pressure level reduction $L_{w,P}$



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