**Technical data**: Hollow Floor Combi T

**Panels**
- Dimensions: 600 x 600 mm (tooth milling edge)
- System weight: ~ 36 kg/m² – 87 kg/m²
- Panel material: fibre-reinforced calcium sulfate panel 22 - 56 mm
- Glue: toothing glued together with premium solvent-free adhesive

**Substructure**
- Module: 600 x 600 mm
- Pedestal material: galvanized steel
- Construction height: from 85 mm
- Pedestal fixing: glued to subfloor and panel; continuously adjustable in height

**Floor coverings**
- Textile and elastic floor coverings, parquet, natural stone, artificial stone, liquid coatings

**Load values**
- **Concentrated load:** acc. to DIN EN 13213:
  - Ultimate load: 2.000 – 15.000 N
- **Fire protection**
  - Building, access floor systems, panel
  - EN 13501 T1: A1
  - Fire resistance class acc. to DIN 4102 T2: F30
  - Essential elements (panels, pedestals) are non-combustible

**Acoustic values**
- Sound reduction index \( R_{L,w,P} \): 39 – 54 dB
- Normalized impact sound pressure level \( L_{n,w,P} \): 42 – 91 dB
- Improvement of sound pressure level \( \Delta L_{w,P} \): 10 – 29 dB

**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

**Fire barrier**
- 63 – 34 – 21 – 4 – 5

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**Details**

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

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**Innovative solutions from one source**
Development
Consulting
Planning
Manufacturing
Installation
Services

**MERO Hollow Floor Combi T**

**Floor systems division**
Ladenstraße 7
D-67630 Pirmasens
Phone: +49 (0) 63 83 553-313
Fax: +49 (0) 63 83 553-318
E-mail: bodensysteme@mero-tsk.de
Internet: www.mero.de

**TÜV certified since 1997**

**MERO-TSK International GmbH & Co. KG**

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67630 Pirmasens
Phone: +49 (0) 63 83 203-313
Fax: +49 (0) 63 83 203-629
E-mail: bodensysteme@mero-tsk.de
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Gain space by the multifunctional hollow floor

Substructure

The MERO substructure consists of smooth, non-combustible panel material. The hollow and access floor panel rows simplify new and future under floor services. The variable substructure (depending on the mission of the building and serves similar purposes as high-tech access floors). The floor height (depending on the variable substructure) makes it possible that today even a standard system offers solutions to meet higher requirements.

Planning instructions

Flexibility

For the installation of any kind of equipment in the hollow floor cavity, sufficient inspec- tion openings of 600 x 600 mm should be foreseen, especially there, where the main wiring cables are running. The distance of 5 m between each opening should not be exceeded. Additional removable sections can simplify new and later installation of supply lines according to require- ments. MERO hollow and access floors are structurally compatible. Increased floor height allows greater flexibility for an increase of future under floor services.

Wall connections

The hollow floor is connected to the wall and rising building parts by means of a rectangular cutout which avoids the sound transmission from the building and serves similar purposes as high-tech access floors. The variable substructure (depending on the mission of the building) ensures that today even a standard system offers solutions to meet higher requirements.

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Gain space by the multifunctional hollow floor

Not only refurbished old buildings but also new buildings require more and more quick and efficient work flow in order to save time and energy. It is useful to bring in this multifunction principle which allows early access for future services. A single system like the MERO Combi T can be used as a base to apply the floor covering over one day only. The non-combustible system offers solutions from standard office buildings to heavy duty areas in production plants or airport terminals.

Application
- standard offices
- offices with increased static loads like laboratories and assembly halls, transport rooms and construction offices, mines
- large halls, exhibition sites and work-shops with high operation or storage demands.

Advantages compared to wet systems
- dry construction
- incredible flexibility of floor covering and subfloor without drying time and air ventilation costs

Construction principle
Floor panel
The MERO hollow floor Combi T consists of one or two-layer reinforced calcium sulfate panels, enable 800 x 800 mm. The panels are provided at each end with a tongue and groove which are fixed together to ensure the adaption to all floor systems possible.

Flexibility
For the installation of any kind of equipment in the hollow floor cavity sufficient inspection openings of 600 x 600 mm should be considered. The distance of 5 m between each opening should not be exceeded. Additional removable sections can be provided with a new and last installation of supply lines and cutouts for mounting units like sockets, air outlets etc. whether round, square or rectangular can either be done at factory or on site. However, we recommend to use round cutouts as it is more compliant to cat精子 square openings afterwards.

Partitions walls
For an unrestrained use of the cavity under the hollow floor access floor partition walls should always be installed on the system floor. Only the access walls in radio-technical rooms or rooms with increased static loads should be installed directly on the subfloor.

Floor coverings
The hollow floors can be provided with many different floor coverings. However, high covering, an aesthetic or artificial design or highly active coverings such as good open space require special floor covering and high fire protection properties.

Advantages compared to concrete slabs
- easy installation of pipe and supply line
- huge installation plenum
- non-combustible panel material
- high fire protection properties
- ring capacity
- comfortable to walk on, high load bearing
- immediate installation of floor covering
- huge plenum for installation systems in any direction.

Planning instructions
Flexibility
The installation of any kind of equipment in the hollow floor cavity requires sufficient inspection openings of 600 x 600 mm should be considered. The distance of 5 m between each opening should not be exceeded. Additional removable sections can be provided with a new and last installation of supply lines and cutouts for mounting units like sockets, air outlets etc. whether round, square or rectangular can either be done at factory or on site. However, we recommend to use round cutouts as it is more compliant to cat精子 square openings afterwards.

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Not only refurbished old buildings but also new building projects require more and more quick and efficient work flow in order to save time and energy. It is useful to bring in this multi redundancy as possible, a floor system must be available which should allow saving time and energy. MERO Combi T can be applied adjusting the floor covering on site day after day. The non-combustible system offers solutions from standard office buildings to heavy duty areas in production plants or airport terminals.

**Application**
- standard offices
- offices with increased static loads like factories and assembly halls, treatment rooms and construction offices, hospitals
- loading docks and work shops with high operation as industrial floor
- airport terminals

**Advantages**
- comfortable to walk on, high load bearing capacity
- high protection properties
- non-destructible panel material
- huge installation areas
- easy installation of pipes and supply lines due to variable pedestal grid
- height adjustable pedestals allow arrangement of the concrete slabs
- easy access
- adaption to height possible
- installation of induced power possible
- adaption to floor systems possible

**Flooring system**

**Construction principle**
- Floor panel
- Construction principle
- Planning instructions
- Flexibility
- Installation instructions
- Substructure
- Advantages compared to wet systems
- Application
- Planning Instructions
- Details
- Gain space by easy installation of pipe and supply line future underfloor services.
- huge installation plenum
- non-combustible panel material
- comfortable to walk on, high load bearing capacity
- flexible access floor panel rows simplify new and future under floor services.
- huge plenum for installation systems in any direction. Further load classes can be achieved by additional elements.

**Planning instructions**
- Flexibility
- For the installation of any kind of equipment in the hollow floor cavity sufficient inspec- tion openings of 600 x 600 mm should be foreseen, especially there, where the main house wiring cables are running.
- The distance of 10 cm between each opening should not be exceeded. Additional removable insulation panel covers without affecting the inspection works. However, we recommend to use rounded cutouts as it is more complicated to cut square openings afterwards. Additional panels for missing units like sockets, air outlets, etc. can be used at any time. Inspectors can easily enter the installation openings of 600 x 600 mm through the access floor in the inspection zones, e.g. in the corridors, etc.
- It is recommended to use self-laying heavy load area, also for dynamic loads. The variable substructure (depending on the floor height) and the double-layer rails guarantee a high degree of flexibility for an increase of height, e.g. in the corridors, etc., and the use of the cavity underfloor services.

**Substructure**

The MERO substructure consists of precision laser cut panels with which continuity be achieved. All panels are produced according to DIN EN 13213 and certified by independent institutes.

**Advantages compared to wet systems**
- easy construction
- incredible flexibility of floor covering and utilization without waiting time and avoiding crooked floor covering and hollow floor system.
- different height levels can be achieved by ad- ditional elements.

**Application**
- for an unlimited use of the cavity under the hollow and access floor partition walls should always be installed on the system floor. Only the access floor walls or walls be- neath the partition walls may be installed after the concrete covering.
- The pedestals have and head plates are securely glued to the concrete slab and the panel. The smallest grid of 600 x 600 mm offers a huge plenum for installation systems in any direction.
- Higher load classes can be achieved by addi- tional elements.

**Planning instructions**
- Flexibility
- Installation instructions
- Substructure
- Advantages compared to wet systems
- Application
- Planning Instructions
- Details
- Gain space by easy installation of pipe and supply line future underfloor services.
- huge installation plenum
- non-combustible panel material
- comfortable to walk on, high load bearing capacity
- flexible access floor panel rows simplify new and future under floor services.
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Technical data*: Hollow Floor Combi T

Panels
- Dimensions: 600 x 600 mm (tooth milling edge)
- System weight: ~ 36 kg/m² – 87 kg/m²
- Panel material: fibre-reinforced calcium sulfate panel 22 - 56 mm
- Glue: toothing glued together with premium solvent-free adhesive

Substructure
- Module: 600 x 600 mm
- Pedestal material: galvanized steel
- Construction height: from 85 mm
- Pedestal fixing: glued to subfloor and panel; continuously adjustable in height

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

Load values
- Concentrated load: acc. to DIN EN 13213:
  - Ultimate load: 2,000 – 15,000 N
  - Class 1– 6
- Fire protection
  - Building, sound insulation class of panel acc. to EN 13501 T1: A1
  - Fire resistance class acc. to DIN 4102 T2: F30
  - Essential elements (panels, pedestals) are non-combustible
  - at the clearance of ≤ 200 mm F30 proof is not necessary (acc. to MBO)
  - can also be installed in corridors up to ffh ≤ 1150 mm, as non-combustible
  - F30 including access floor elements and junctions

Acoustic values
- (depending on system and floor covering)
  - Sound reduction index $R_{L,w,P}$: 39 – 54 dB
  - Normalized impact sound pressure level $L_{n,w,P}$: 42 – 91 dB
  - Improvement of sound pressure level reduction $\Delta L_{w,P}$: 10 – 29 dB

Accessories
- For further technical data please ask for our product data sheets.

Details

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Innovative solutions from one source
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Technical data*: Hollow Floor Combi T

**Accessories**
- Door for acoustic or air outlets at factory
- Wall Abd. 45°
- Expansion joints
- Technical or impact sound insulation

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**Floor coverings**
- Textile and elastic floor coverings, parquet, natural stone, artificial stone, liquid coatings

**Load values**
- Concentrated load:
  - acc. to DIN EN 13213:
  - Ultimate load:
    - 2.000 – 15.000 N
    - > 4.000 – 30.000 N

**Fire protection**
- Building, acoustic or visual panel
- Class 1– 6
- Fire resistance class acc. to DIN 4102 T2: F30
- Building elements (panels, pedestals) are non-combustible
- At the clearance of ≤ 200 mm F30 proof is not necessary (acc. to MBO)
- Can also be installed in corridors up to ffh ≤ 1150 mm, as non-combustible
- F30 including access floor elements and junctions

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- Sound reduction index R L,w,P
  - 39 – 54 dB
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