

## MERO Access Floor Type 6 / Mineral

### Innovative solutions out of one hand

Development  
Consulting  
Planning  
Manufacturing  
Installation

Access floor  
Hollow floor  
Floor covering and  
Installation  
Services



## Fields of application

The access floor type 6 can be offered in different variants/systems. Depending on the requirements of the user, systems are suitable for.:

- Standard office areas
- Offices with increased static load bearing capacity like lecture rooms, training and performance rooms, therapy rooms and construction offices
- Industrial plants with light operations like storage rooms, laboratories with light operations, libraries
- Computer centres, electric switching station rooms

On request, systems reinforced by additional equipment can be delivered for industrial and workshop floors

## Advantages

MERO-TSK access floor systems are tested acc. to DIN EN 12825 and certified by independent laboratories.

- High flexibility
- Simple treatment of the panel material
- Low panel and system weight
- Easy handling of later additional installations
- Huge installation void
- Achieves plenum as standard high preventive fire protection properties
- High sound protection properties
- Variable construction heights, heights of more than 1.000 mm on request
- Large variety of floor coverings can be applied

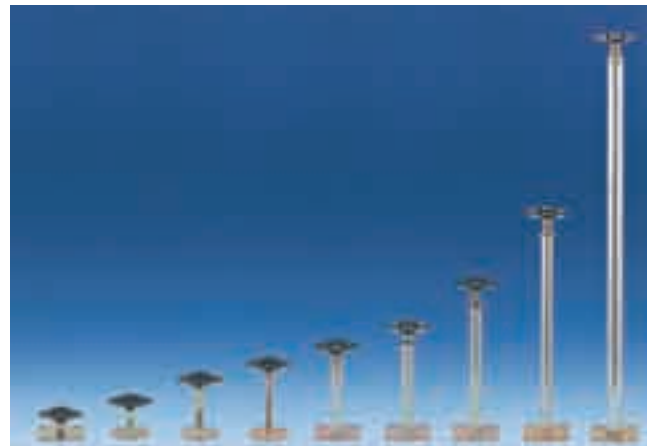
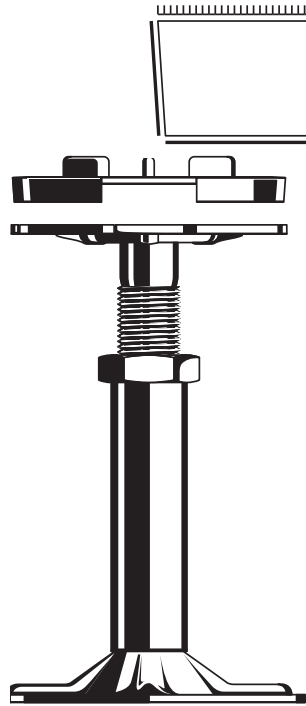
## Construction principle

### Floor panel

The floor panel type 6 consists of a fibre-reinforced mineral material of the building material class A2 (DIN 4102, Part 1). The material is classified A1 according to DIN EN 13501. The panel edges are chamfered milled and protected all round by synthetic trim. On request, panel surface and/or panel underside can be provided with galvanized steel sheet or aluminium foil. Panels are produced in different thickness.

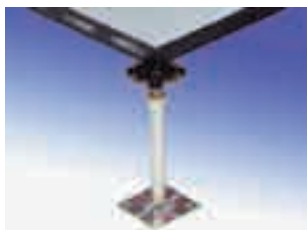
### Understructure

The understructure can be used for all panel types. It consists of steel pedestals adjustable in height to fit with precision. All pedestals are galvanized and passivated against corrosion.



## Planning instructions

The base plate of the pedestals is designed to be glued on the sub-floor. For special requirements the base plate can additionally be dowelled to the subfloor.



For installation pedestal heads are provided with a gasket for panel fixing and sound absorption.

The gasket is electrically conductive and can be provided with metal rivets in case high frequency shielding is required.



The use of stringers increases the lateral stability of the whole construction. Later installation of stringers is not a problem. The screwing of the stringers with the pedestal head avoids high frequency disturbance if required. Stringers are installed as U-type stringers for lateral stability and as C-type or M-type stringers for increase of load bearing capacity and lateral stability.



### Flexibility

The use of panels with floor coverings applied in the factory guarantees high flexibility. This variant allows to change panels with mounting units like sockets etc. against standard panels.

### Partition walls

For an unlimited use of the access floor cavity partition walls should always be installed on the access floor system. Only fire section walls respectively walls between different working areas should be installed directly on the subfloor. Partition walls with fire resistance requirements can be installed on the access floor system and supplemented with fire fascias below the access floor on request.

### Floor coverings

The MERO-TSK access floor system type 6 can be provided with different floor coverings.

Elastic floor coverings like PVC, linoleum, rubber as well as laminate can only be applied in the factory.

Textile floor coverings can be glued or loosely laid on the floor panels. Bonded floor coverings must be suitable for access floor. MERO-TSK has a lot of experience in this field and can even test the suitability of new floor coverings in their own laboratories.

During installation of loosely laid floor covering tiles please see that the glue used does not infiltrate the panel joints in order to avoid that panels stick together. Furthermore, floor covering tiles should always be installed middle over cross to the access floor module.

Gluing of carpet rolls is only possible by additional measures. However, it should generally be avoided as it stands against the flexibility of an access floor system.

Type 6 panels can also be applied with parquet in factory. However, due to its swelling behaviour not all of parquet coverings are suitable. For detailed information please contact MERO-TSK.

### Delivery and installation of floor coverings

MERO-TSK has standard floor coverings being available at short notice. If the floor coverings will not be applied in our factory we recommend to have application and supply done by/ or under instruction of skilled MERO-TSK installers. This avoids problems between different suppliers which could become cost-intensive for the contractor or afterwards the builder.

### Mounting units

Cutouts for mounting units like sockets, air outlets etc. can either be done in the factory or on jobsite. However, step bores for twist air outlets can only be done in the factory.

### Wall connections

The access floor system connected to walls or rising building parts are done by special self-adhesive foam tape which avoids sound conduction and seals the connection joints. For rigid installations (e.g. heating tubes) a distance of 120 mm should generally be kept from the wall which enables the installation of system pedestals and avoids expensive and additional sound absorbing wall supports. The edges of cut panels have always to be sealed.

### Accessories:

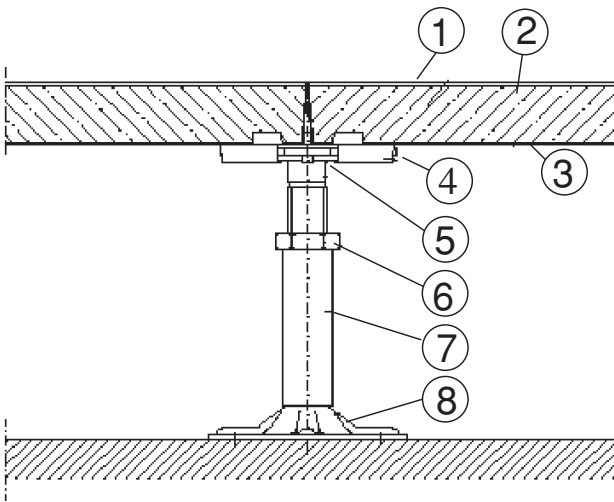
- Cutouts
- Special wall connections
- Sockets
- Air outlets
- Air conditioning panels
- Fascias (fire, acoustic, air conditioning)
- Front fascias
- Bridgings
- Expansion joints
- Stairs
- Ramps
- Additional foot fall sound absorption
- MERO-TSK underfloor heating/cooling
- MERO-TSK floor coverings

### Renovation:

MERO-TSK has the necessary knowhow for an access floor renovation. We have a machinery for the removal of worn floor coverings and the application and edging as well as its execution by professionals.

For the renovation of old buildings where only very low finished floor heights are possible (after removing of the screed height) special type 6 systems are highly appropriated.

## Technical Data\*: Access Floor Type 6 / Mineral



\*For detailed technical data please see the data sheets of the different type 6 systems or internet page under [www.mero-tsk.de](http://www.mero-tsk.de).

1. Floor covering, steel or aluminium sheet
2. Floor panel
3. Steel sheet, aluminium finishing or without finishing
4. Gasket
5. Pedestal head
6. Hexagonal nut
7. Tube
8. Pedestal base plate glued to the subfloor, doweled on request

<b>Panel:</b>	
Dimension:	600 x 600 mm (special module on request)
Panel thickness: (without floor covering)	~ 23 - 39 mm
System weight: (without floor covering, floor height 250 mm)	~ 43 - 70 kg/m <sup>2</sup>
Panel weight:	~ 14,5 - 23 kg/piece
Panel material:	fibre-reinforced mineral material

<b>Understructure:</b>	
Module:	600 x 600 mm
Pedestal material:	galvanized steel pedestals
Construction height: (without floor covering)	~ 55 - 1800 mm
Recommendation for use:	we recommend to use stringers from a finished floor height of 500 mm on, e.g. u-type stringers

<b>Load values:</b>	
Concentrated load:	
• acc. to DIN EN 12825	class 1 - 6
• Nominal load	2.000 - 6.000 N (increased load steps on request)
• Ultimate load	> 4.000 - 12.000 N

<b>Electrostatic:</b>	> 10 <sup>5</sup> Ohm (Depending on systems and floor covering)
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<b>Fire protection:</b>	
Building material class acc. to DIN 4102 T1:	A2
Fire resistance class acc. to DIN 4102 T2:	F30 or F60 (depending on system)

<b>Thermal conductivity:</b> (base material)	~ 0,44 W/mK
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<b>Acoustic values depending on system and floor covering:</b>			
		New terms acc. to DIN EN	
• sound reduction index $R_{L,w,P}$	52 - 58 dB	Standard flank level difference	$D_{n,f,w,P}$
• normalized impact sound pressure level $L_{n,w,P}$	63 - 40 dB	Standard flank impact sound level	$L_{n,f,w,P}$
• improvement of sound pressure level reduction $\Delta L_{w,P}$	18 - 35 dB	Impact sound reduction	$\Delta L_{w,P}$



TÜV certificate since 2005-01-20

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