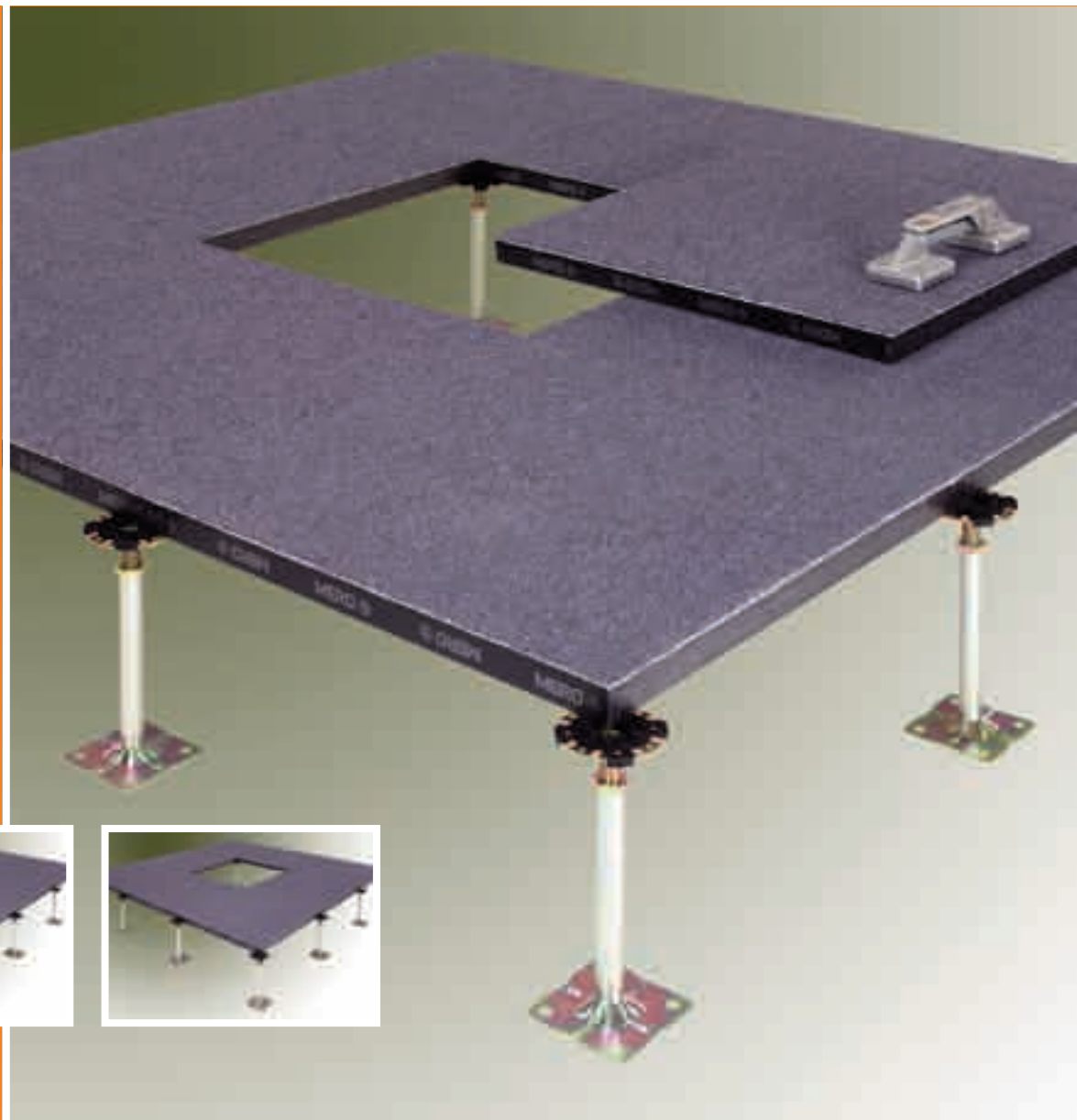


## MERO Access Floor Typ 5 / Wood

### Innovative solution out of one hand

Development  
Consultation  
Project management  
Production  
Installation

Access floor  
Hollow floor  
Loose covering tiles and  
Laying  
Change of applied coverings



## Fields of application

The access floor type 5 can be offered in different variants/systems. Depending on the requirements of the user, systems are suitable for:

- Standard office areas
- Offices requiring increased static load bearing capacity, e.g. lecture rooms, training and performance rooms, therapy rooms and construction offices
- Industrial buildings with light operations (e.g. storage rooms, laboratories with light operations, libraries)
- Computer centres
- Electric switching station rooms

On request, systems reinforced by additional equipment can be delivered for:

- Floors with fork-lift traffic, for industrial plants and laboratories

## Advantages:

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

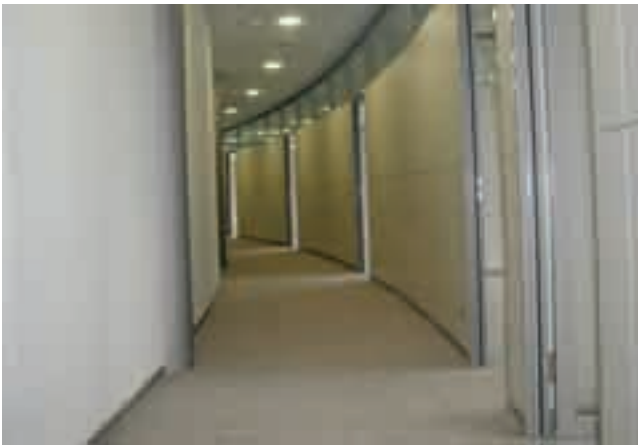
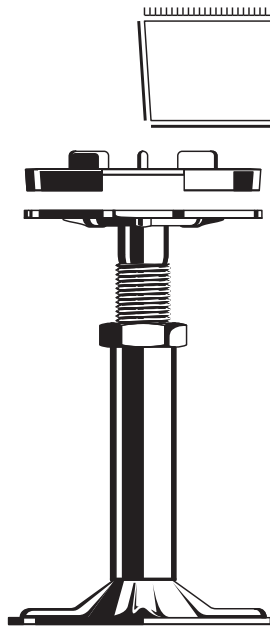
- High flexibility
- Easy processing of panel material for installation
- Low panel and system weight
- Easy handling of later additional installations
- Achieves plenum as standard
- High preventive fire protection properties
- High sound protection properties
- Variable construction heights, heights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

## Construction principle:

### Floor panel:

The floor panel type 5 consists of high density wooden material of emission class E1. The panel edges are chamfered 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. Panel can be produced in different thickness, density and dimension acc. to requirements.

MERO-TSK uses only environment friendly material. Therefore, waste disposal or recycling is not a problem.



## Planning instructions

### 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

The base plate is designed to be glued to the subfloor. On request, pedestal base plate can additionally be dowelled.

For installation pedestal head is provided with gasket for panel fixing and sound dampening.



The gasket is electrically conductive and can be provided with metal rivets if 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. On request, stringers can be screwed with pedestal head which avoids high frequency disturbances.

Stringers are installed as U-type stringers for lateral stability and as C-type stringers for increase of load bearing capacity and lateral stability.



### Flexibility:

The use of panels with floor coverings applied in 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 building sections 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 access floor systems MERO-TSK type 5 can be provided with different types of floor coverings.

Elastic floor coverings suitable for access floor 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. Glued 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 own laboratories.

For loosely laid textile floor covering tiles panels with aluminium foil or steel sheet on top should be used. Panels with steel sheet on top offers utmost protection during construction period and enables additionally the installation of magnetic floor coverings like MERO-TSK Magnetfloor. During installation of loosely laid floor covering tiles please see that the necessary release bond adhesive does not infiltrate the panel joints in order to avoid that panels stick together (not necessary with MERO-TSK Magnetfloor).

Furthermore, floor covering tiles should always be installed middle over cross to the access floor module.

Glueing 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 5 panels with steel sheet on the underside can also be used for parquet. However, due to its swelling behaviour not all parquet coverings are suitable. For detailed information please contact MERO-TSK.

### Delivery and installation of floor coverings:

MERO-TSK stores 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 delivery 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 factory or on jobsite. However, step bores for twist air outlets can be done in the factory only.

### Wall connections:

The access floor system connected to walls or rising building parts are done by a 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.

### Special advice for use:

With beginning of installation the thermal conditions of final use should already been given.

### Renovation:

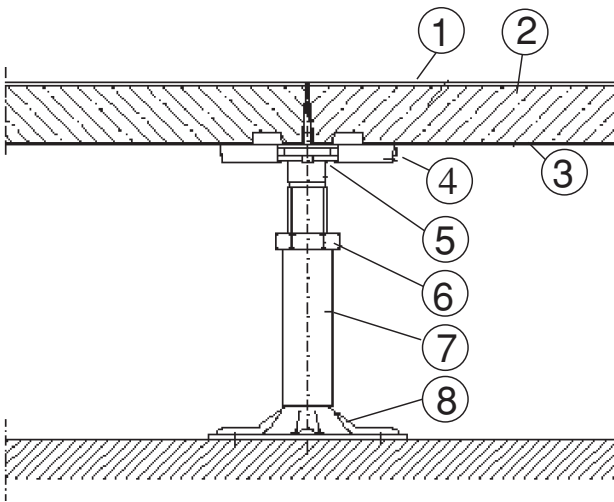
MERO-TSK has the necessary know how in the field of access floor renovation. We have a machinery for the removal of worn floor coverings, application and edging of new ones as well as its execution by professionals. For the renovation of old buildings with very low finished access floor heights (after removal of the screed height) please see our "special brochure" for type 5 systems.

### Accessories:

(see brochure)

- 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

## Technical Data\*: Access Floor Type 5 / Wood



\*For detailed technical data please see the data sheets of the different type 5 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, dowelled on request

### Panel:

Dimension:	600 x 600 mm (special module on request)
Panel thickness: (without floor covering)	~ 23 - 39 mm
Panel surface:	Aluminium foil, steel sheet or covering
Panel underside:	Aluminium foil or steel sheet
System weight:	~ 23 - 36 kg/m <sup>2</sup>
(without floor covering, floor height 250 mm)	
Panel weight:	~ 7,5 - 12 kg/piece
Panel material:	High density wood material panel

### Understructure:

Module:	600 x 600 mm
Pedestal material:	galvanized steel pedestals
Construction height: (without floor covering)	~ 55 - 2400 mm
Recommendation for use:	we recommend to use stringers from a finished floor height of 500 mm on, e.g. u-type stringers

### Load values:

Concentrated load:	
• acc. to DIN EN 12825	class 1 - 5
• Nominal load	2.000 - 5.000 N (increased load steps on request)
• Ultimate load	> 4.000 - 10.000 N

**Electrostatic:** > 10<sup>5</sup> Ohm (Depending on systems and floor covering)

### Fire protection:

Building material class acc. to DIN 4102 T1:	B2 or B1
Fire resistance class acc. to DIN 4102 T2:	F30 (depending on system)

**Thermal conductivity:** (base material) ~ 0,13 W/mK

### Acoustic values depending on system and floor covering:

		New terms acc. to DIN EN	
• sound reduction index $R_{L,w,P}$	44 - 57 dB	Standard flank level difference	$D_{n,f,w,P}$
• normalized impact sound pressure level $L_{n,w,P}$	71 - 45 dB	Standard flank impact sound level	$L_{n,f,w,P}$
• improvement of sound pressure level reduction $\Delta L_{w,P}$	15 - 32 dB	Impact sound reduction	$\Delta L_{w,P}$



TÜV certificate since 2005-01-20

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

Floor System Division  
 Lauber Straße 7  
 Germany  
 D-97357 Prichsenstadt/  
 Phone: +49 (0) 9383/203-351  
 Fax: +49 (0) 9383/203-629  
 Email: bodensysteme@  
 mero-tsk.de  
 Internet: [www.mero-tsk.de](http://www.mero-tsk.de)