

MERO Access Floor Type 5 / Wood

Innovative solutions from one source

Development

Consulting

Planning

Manufacturing

Installation

Access floor

Hollow floor

Floor covering and

Installation

Services



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

Floor systems

Multifunctional and flexible Access floor of wooden material



Office areas as well as lecture halls, surgeries, assembly halls or other commercially used space require more and more flexible use. The rapid development of the modern communication technology and the frequent reconfiguration of commercial space require quick and easy access to the free plenum under the floor for the installation of additional equipment and supply lines. This flexibility is given by an access floor system which surface can be provided with many different floor coverings.

Application

MERO access floor type 5 is used for:

- office areas with low traffic
- standard office areas
- areas with required increased static loads as lecture and assembly halls, meeting, rooms, surgeries and treatment rooms, construction offices
- storage spaces, work-shops with light operation or libraries as industrial floor
- computer centres

The access floor is available in different types and systems to meet the requirements of the user.

Advantages

- high flexibility
- easy installation of additional equipment and supply lines
- variable construction heights, more than 1.000 mm on request
- huge installation plenum
- easy handling of the panel material
- good fire protection properties
- good sound absorption values
- suitable for the application of various floor coverings

Floor panel

The MERO floor panel type 5 consists of high-density chipboard of the emission class E1 meeting highest requirements.

The emission tests are carried out acc. to international requirements (system tests = panel + pedestal):

- ASTM D 5116-97 (American Emission-Test). This Standard includes the Green Label, Hong Kong and refers to LEED (=Leadership in Energy and Environmental Design) requirement
- ISO 16000: worldwide approved emission test
- AgBB/DIBT: product emission test. This method is applied in Germany.

The panel edges are chamfered milled and protected all round by synthetic trim against mechanical damages and humidity.

The surface and/or bottom side of the panel can be provided with galvanized steel sheet or aluminium foil by advanced backing procedure. The panel is available in different qualities, thicknesses and dimensions.

MERO-TSK is using only environmental-friendly materials for their production. The material can be recycled or disposed without any problem for the environment.

Substructure

The MERO substructure can be used for all panel types.

The precision steel pedestals are adjustable in height and protected against corrosion by galvanization and passivation.

The pedestal base plates are stably glued to the subfloor and can additionally be dowelled on request.





During installation pedestal heads are provided with sound absorbing and electrically conducting gaskets which fix the panel. The gaskets can also be delivered with metal rivets if high frequency shielding is required. The use of galvanized stringers increases the load bearing capacity as well as the lateral stability of the whole system so that the MERO access floor is forming a self-supporting construction even without connection to the wall. The stringers can also be installed afterwards. To avoid frequency interferences stringers can be screwed to the pedestal head. The stringers are available as U or M type stringer for lateral stability or as C-type stringer for increased loads and lateral stability.

Planning instructions

Flexibility

To guarantee high flexibility panels with applied floor covering should be used. This allows e.g. to replace panels with mounting units by 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 or walls between different working areas should be installed directly on the sub-floor. Partition walls with fire resistance requirements can stand on the floor system and supplemented with fire fascias under the access floor on request.

Floor coverings

The access floor system type 5 can be provided with many different floor coverings. Elastic floor coverings like PVC, linoleum, rubber as well as laminate, which, however, must be applied at factory.

Textile floor coverings can be glued or loosely laid on the floor panels. Bonded floor coverings must be suitable for access floor which can be tested in our own laboratories. For loosely laid carpet tiles we recommend a system with aluminium or steel sheet on top of the panel. The steel sheet provides better protection during the construction phase and allows the application of magnetic floor coverings as MERO Magnetfloor. If loosely laid floor covering tiles are used please take care that the edge primer does not penetrate the joints to avoid bonding of the panels.

Floor covering tiles should always be applied middle over cross to the access floor module.

The gluing of carpet rolls is possible by additional measures only which, however, should be avoided as it stands against the flexibility of an access floor system.

Type 5 panels with steel sheet on the bottom side can also be provided with parquet at factory. However, not all parquet coverings are suitable due to their swelling behaviour. For detailed information please contact MERO-TSK.

Delivery and installation of floor coverings

MERO-TSK has standard floor coverings available on stock or can provide them on short notice. If the floor covering will not be applied at factory we recommend to have the application done by our expert staff which assures best workmanship and avoids overlaps with other trades on the construction site. Furthermore, it may also avoid needless costs for the contractor or the builder later on.

Mounting units

Cutouts for mounting units like sockets, air outlets etc. can either be done at factory or

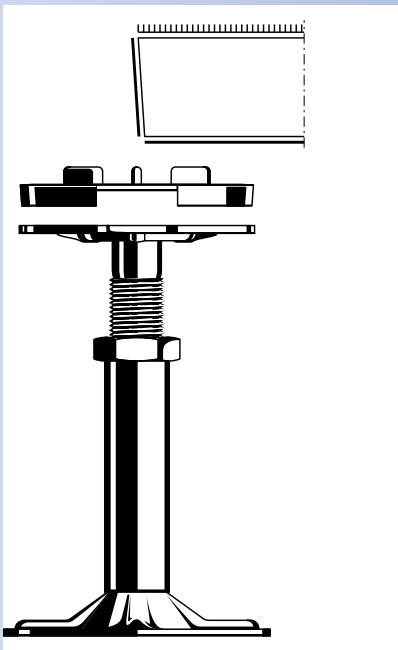
on jobsite. However, step bores for twist air outlets can only be done at factory.

Wall connections

The connection of the access floor system to walls or rising building parts is done by special self-adhesive foam tape which avoids impact sound transmission. At rigid fixtures like heating tubes etc. a distance of 120 mm should be kept from the wall to allow the installation of system pedestals. They avoid costly and sound transmitting wall supports. The cut edges of access floor panels must always be sealed.

Special advice

The climate conditions during the time of installation and the later use should be the same.



Technical data*: Access floor type 5 / wood

Accessories: (see pamphlet)

Cutouts
Special wall connections
Power supply units
Air outlets
Air conditioning panels
Fascias
Bridgings
Expansion joints
Stairs and ramps
Additional impact sound insulation
MERO-TSK floor coverings

Renovation:

MERO-TSK has the know-how and the machinery for an access floor renovation. Worn floor coverings will be removed and new ones applied by expert staff.
For the refurbishment of old buildings with limited finished floor heights MERO-TSK offers a low-height access floor system (see pamphlet).

*For further technical data

please ask for our product data sheets.

Panel

Dimensions:	600 x 600 mm
Panel thickness: (without covering)	~ 23 - 39 mm
Panel surface:	<ul style="list-style-type: none"> • without coating • galvanized steel sheet • aluminium foil on request • galvanized steel sheet
Panel bottom:	
System weight: (without covering, floor height 1000 mm)	~ 23 - 36 kg/m ²
Panel weight:	~ 7,5 - 12 kg/piece
Panel material:	high-density chipboard

Substructure

Module:	600 x 600 mm
Pedestal material:	galvanized steel
Construction height: (without covering)	~ 55 - 2400 mm
Recommendation:	Stringers should generally be used at a height of > 500 mm

Load values

Concentrated load:		
• acc. to DIN EN 12825	Class 1 - 5	
• Nominal load	2.000 - 5.000 N (higher loads on request)	
• Ultimate load	> 4.000 - 12.000 N	

Electrostatic

(independant from system and covering) > 10⁵ Ohm

Fire protection

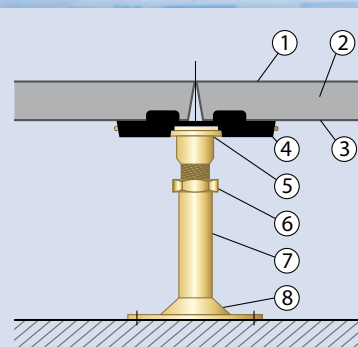
Building material class acc. to DIN 4102 T1:	B2 or B1
Building material class acc. to DIN EN 13501 T1:	B-s2,d0 or C-s1,d0
Fire resistance class acc. to DIN 4102 T2:	F30 (depending on system and covering)

Thermal conductivity

Base material: ~ 0,13 W/mk

Acoustic values

Sound reduction index R _{L,w,P}	44 - 57 dB	New denomination acc. to DIN EN
Normalized impact sound pressure level L _{n,w,P}	71 - 45 dB	Normalized flank level difference D _{n,f,w,P}
Improvement of impact sound reduction ΔL _{w,P}	15 - 32 dB	Normalized flank impact sound level L _{n,f,w,P}
		Improvement of impact sound level ΔL _{w,P}



1. Floor covering / steel sheet
2. Floor panel
3. Steel sheet or aluminium coating
4. Gasket
5. Pedestal head
6. Hexagonal nut
7. Tube
8. Base plate glued to the subfloor, dowelled on request



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