



FLOOR SYSTEMS

MERO Access Floor Type 2

Data centres | Power supply | Heavy-duty areas

Innovative
all-in-one solution

Development

Production

Consulting

Access Floor

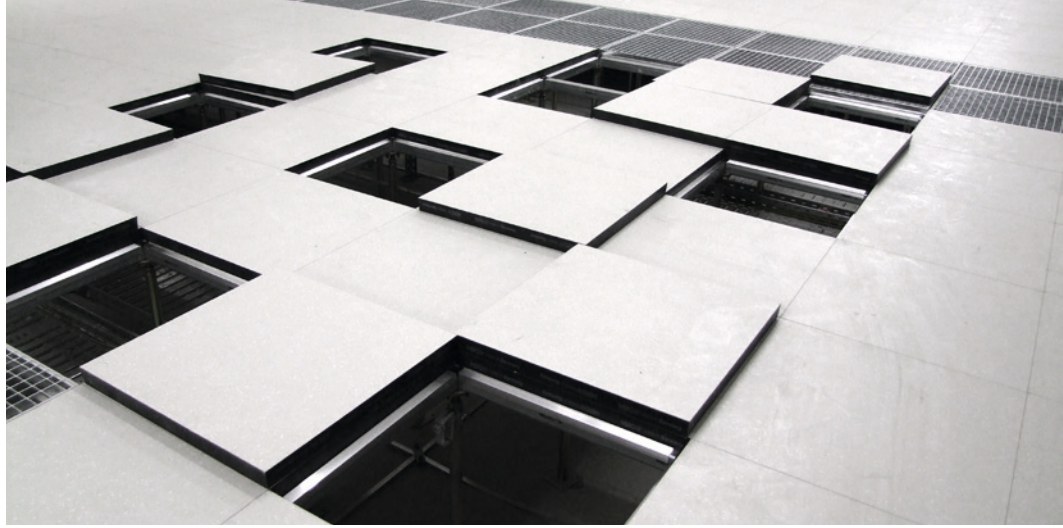
Planning

Coverings

Installation

Hollow Floor

TYPE 2



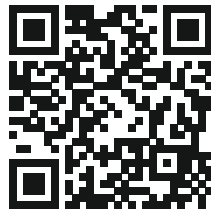
Stable and highly flexible



Areas of application for
MERO Access Floor Type 2:

- Server rooms in data centres
- Power supply rooms with medium/low-voltage, battery and UPS systems and emergency generators
- Manufacturing facilities
- Clean rooms
- Laboratories
- Storage rooms with forklift traffic
- Earthquake-resistant or arc-fault-resistant design possible

[Link to website](#)



TYPE 2

Point Loads from 2,000 to 20,000 N

Due to the steadily increasing weights of server racks, battery, UPS and medium-voltage systems on the market, we have significantly expanded our product range for this type of system floor.

Type 2-600SX up to 20,000 N point load. Frame construction with single profile up to 8,000 N point load and 16,000 N/m linear load





Rigid, self-supporting substructure

The substructure of the walking area has a standard pedestal grid of 600 x 600 mm. The frame areas are adapted to cabinet dimensions and customer requirements. For high installation density, the grid of the walking area can be extended to 1,200 x 600 mm or even 1,200 x 1,200 mm.



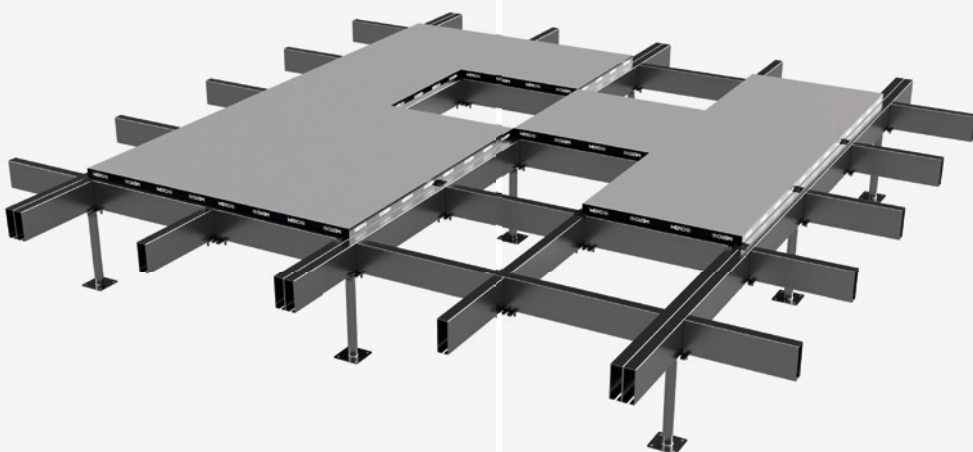
Type 2-1200-600S with 10,000 N point load

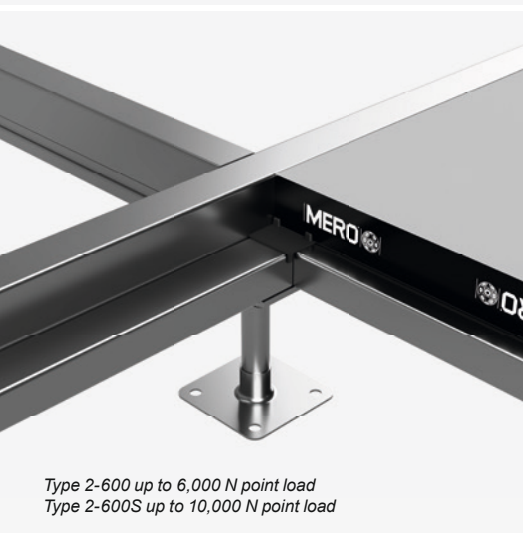
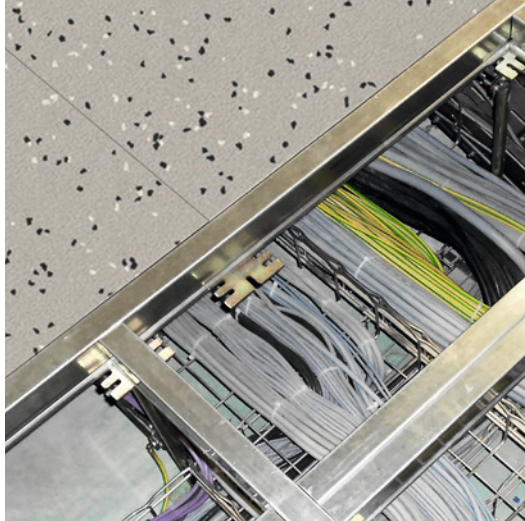
More installation space

All screw connections have a metric thread so that the system can be adjusted as required without any loss of quality.

The access floor panels, which can be removed using suction lifters, always have standard dimensions of 600 x 600 mm and are available in class A or B1 material depending on the application. Depending on the load class, the access floor panels are laminated on the underside with a steel sheet or, if necessary, with a vapour barrier layer in the form of aluminium foil.

Type 2-1200-1200 with 5,000 N point load





Type 2-600 up to 6,000 N point load
Type 2-600S up to 10,000 N point load

Solutions for almost all applications

A wide variety of coverings can be applied to the top surface at our factory. The edge trim applied to the sides extends up to the top edge of the covering and protects the edge of the panel from damage. The panel structure is adapted to the respective requirements regarding minimum insulation and electrostatic dissipation for the purpose of personal protection and, if necessary, also for the protection of sensitive electronic components.

Well-designed systems

The profile heights of 30/72.5/115 mm are chosen so that the frame profiles are slightly higher than the upper edge of the walking area for almost all panel and covering combinations. This means that the access floor panels can still be lifted should a switch cabinet protrude slightly.

Type 2-1200 up to 5,000 N point load

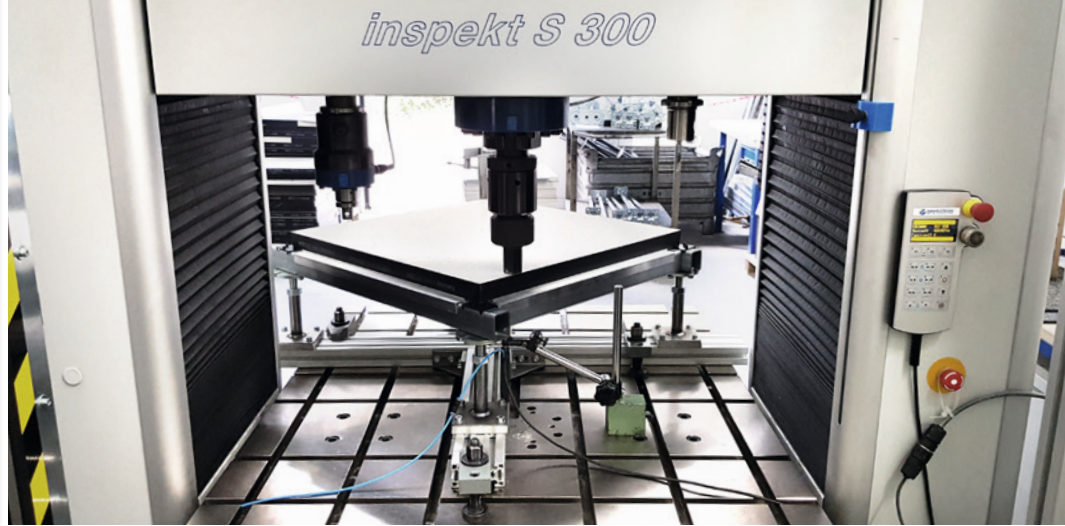


Everything from a single source

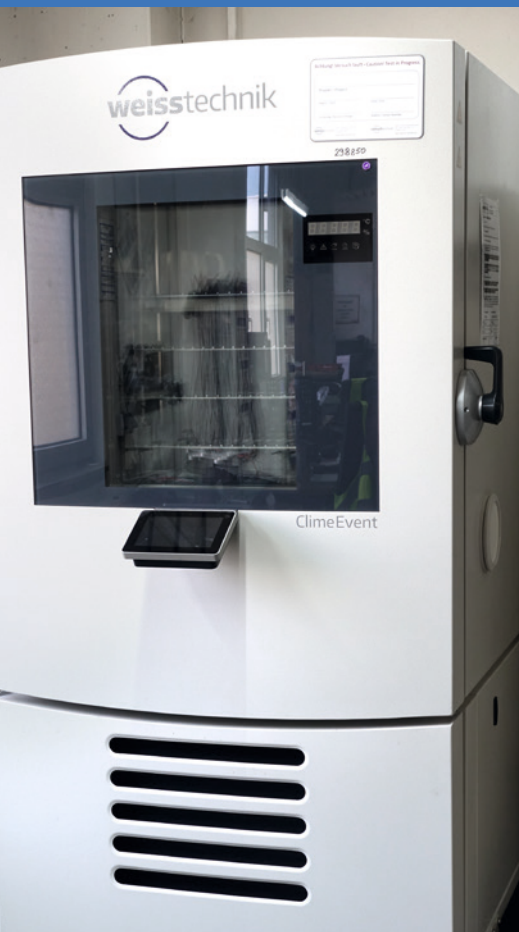
The range of perforated steel panels with a point load of up to 10,000 N, up to 65% open area and convenient airflow control adjustable from above is matched to the thickness of the surrounding panels.

Further examples of accessories:

- Covers for reserve fields
- Metric panel screw connections
- Service outlet inserts
- Cable outlets, including heavy-duty
- Stairs
- Ramps
- Railings
- Flush-mounted fire detector markings



System testing in our in-house laboratory



Our laboratory, equipped to the highest technical standards, enables us to quickly develop project-specific solutions. Our standard types are externally monitored by SFE (System Flooring EWIV).

The quality of almost all of our Type 2 systems is checked at regular intervals and confirmed by certificates of conformity.

Climate chambers simulate fluctuations in temperature and humidity. This allows the building physics properties of the materials to be tested or project-specific extreme situations to be recreated.

In the 'rolling load test', the components of a heavily used system floor are tested for serviceability.



Technical data

Walking area

Panel:	
Dimensions:	600 x 600 mm
Panel thickness:	~ 36 – 41 mm
Surface:	Textile and resilient coverings, parquet, natural stone, engineered stone, porcelain stoneware, aluminium coating, steel sheet, uncovered
Underside:	Aluminium coating, steel sheet, uncovered
System weight:	~ 37 – 94 kg/m ² (without covering, floor height 1,000 mm)
Panel weight:	~ 9 – 25 kg/panel
Panel material:	Wood-based material, calcium sulphate

Substructure:	
Pedestals (walking area):	Galvanised steel, grid 600 x 600; 600 x 1,200; 1,200 x 1,200 mm
Installation height:	160 – 2,500 mm FFL
Supporting profiles (walking area):	Galvanised steel, C-profile screwed to pedestals

Load values:	
Point load:	2,000 N – 20,000 N
Element class acc. to DIN EN 12825:	Class 1 – 6
Ultimate load:	≥ 4,000 N – 40,000 N
Safety factor:	≥ 2.0
Electrostatics: (depending on covering)	
Insulation resistance (VDE 0100-600):	> 5 x 10 ⁴ Ω or > 1 x 10 ⁵ Ω possible
Electrical resistance (DIN EN 1081 / DIN EN 61340-4-1):	Conductive, dissipative or special ESD requirements possible

Fire protection:	
Classification of the supporting panel to its fire behaviour (DIN EN 13501-1):	Hardly inflammable – A1
Fire resistance class (DIN 4102-2):	F30 possible up to FFL 2,000 mm
Fire resistance class (DIN EN 13501-2):	REI 30 possible up to FFL 2,000 mm

Seismic safety:	Project-specific calculation possible according to all common standards
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Building certification:	Contribution to BREEAM / DGNB / BNB / LEED building certification possible
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Type 2-600SX up to 20,000 N point load

Frame construction

Pedestals:	Galvanised steel; pedestal positions according to cabinet dimensions
Installation height:	145 – 2,500 mm
Frame construction:	C-profile 72.5 x 40 mm or 115 x 40 mm
Modular frame:	Double C-profile 115 x 40 mm

Load values:	
Point load:	3,000 – 20,000 N
Ultimate load:	≥ 6,000 – 40,000 N
Safety factor:	≥ 2.0
(Indenter 40 x 40 mm based on DIN EN 12825)	

Linear load:	4,000 – 40,000 N/m
(Load transfer via longitudinal profiles max. span 1,000 mm)	



Modular frame construction with double profile up to 20,000 N point load and 40,000 N/m linear load

Information about MERO-TSK



Mitglied der
DGNB
Deutsche Gesellschaft für Nachhaltiges Bauen
German Sustainable Building Council

Information on the wood-based supporting panel



Information on the mineral-based supporting panel



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