MERO TSK

FLOOR SYSTEMS

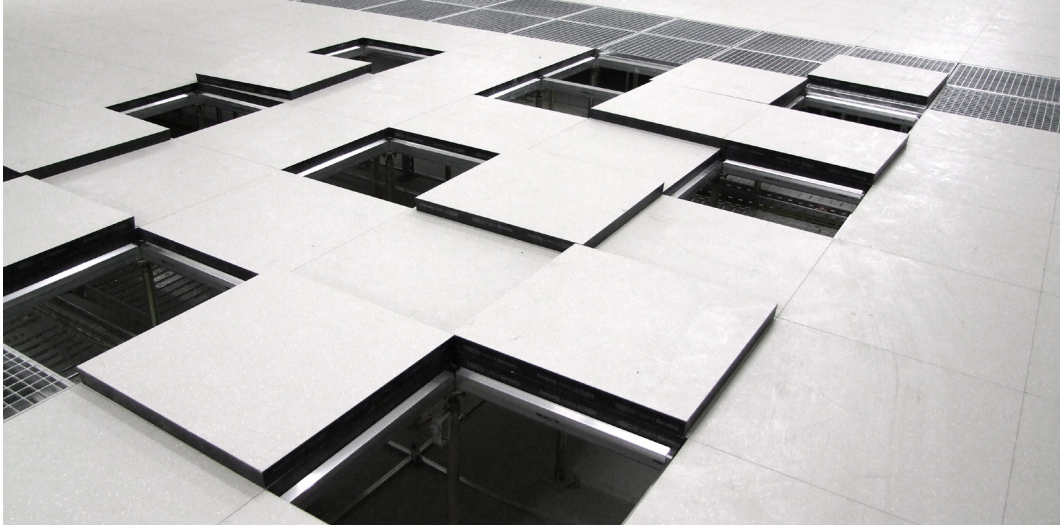
MERO Raised Access Floor Type 2

Functional floors Utility rooms and Heavy duty

Innovative All-in-one solution

- Development
- Consulting
- Project management
- Installation
- Production
- Raised Access Floor
- Coverings
- Hollow floor

TYPE 2



Stable and extremely flexible

Application range of
MERO Raised Access Floor type 2:

- Server rooms at Data centers
- Electrical rooms for middle and low voltage plants, battery rooms, UPS systems and emergency power generators
- Production sites
- Laboratories
- Store rooms with lift truck operations
- Earthquake resistent or accidental arc proof design possible
- Power stations

Link to Website

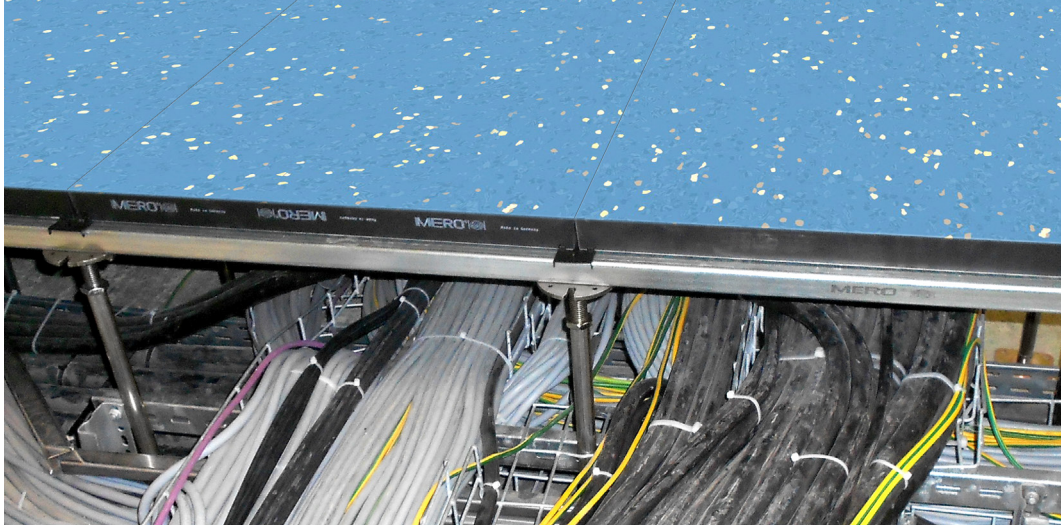
TYPE 2

Point load from 2.000 up to 20.000 N

Due to steadily increasing weights of server racks, battery-, UPS- and middle voltage plants in the market, we are significantly extending our product range for this type of system floor.

Type 2-600SX up to 20.000 N point load. Frame structure with single profile up to 8.000 N point load and 16.000 N/m linear load

MERO



Rigid and self-supporting substructure

The substructure of the walking area has a standard pedestal grid of 600 x 600 mm. Frame areas will be adjusted to rack dimensions and client requests. For high density installation areas, the walking area grid may be extended to 1.200 x 600 mm or even 1.200 x 1.200 mm.

TYPE 2

Type 2-1200-600S with 10.000 N point load

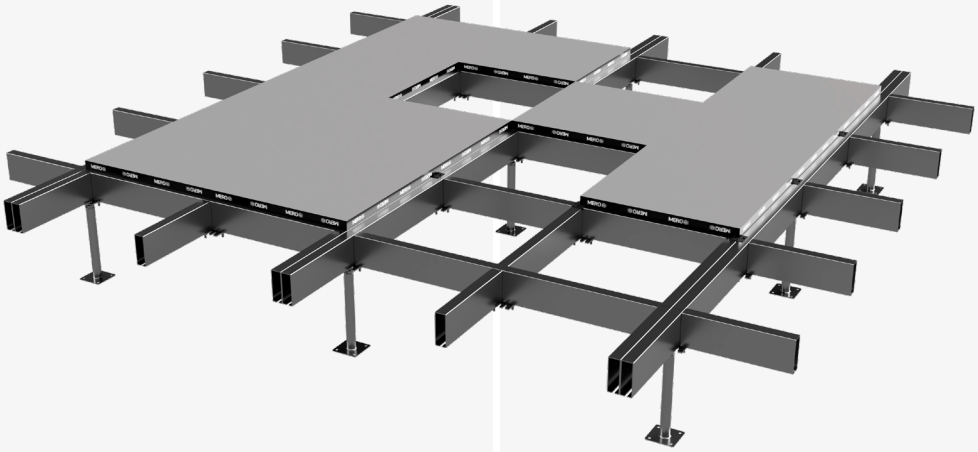
Additional space for installation

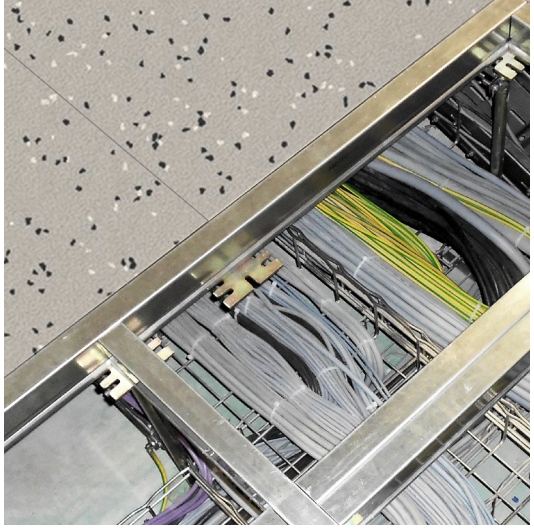
Our support frame system is connected with threaded bolts so can be modified multiple times with no loss of quality.

Standard panels are manufactured 600 x 600 mm and are removable by using a suction lifter. Panels are available as calcium sulphate or chipboard panels.

Depending on the load class, the bottom side of the access floor panels are covered with a steel sheet, or if necessary laminated with a steam tight aluminum 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 any application

On top various coverings can be applied at our factory. Laterally attached edge trims are executed to the top of the covering, protecting the panel‘s edge against damages. For reasons of personal protection, or if necessary for protection of sensitive electrical components, the panel structure will be adjusted regarding minimum insulation and conductivity.

TYPE 2

Carefully engineered systems

The profile heights of 30/72.5/115 mm are selected to let the frame area profiles stay slightly higher than the top of the walking area for almost any of our panel and covering combination. With this the access floor panels stay removable in case a rack may be overlapping slightly in size.

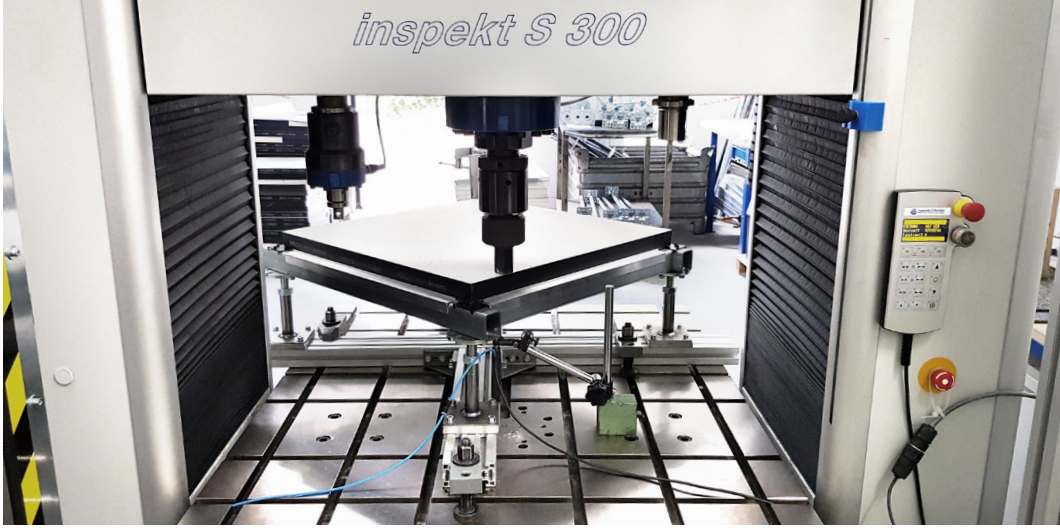
Type 2-1200 up to 5.000 N point load

All from one source

The product range of our perforated steel panels for up to 15.000 N, up to 65% free airflow and comfortably adjustable from the top air flow controls meets the thickness of the surrounding access floor panels.

Further accessories:

- Blank panels for retrospective use
- Metrical panel screwing
- Floor boxes
- Heavy duty cable outlets
- Staircases
- Ramps
- Hand rails
- Surface even fire detector markings



System tests at the company laboratory

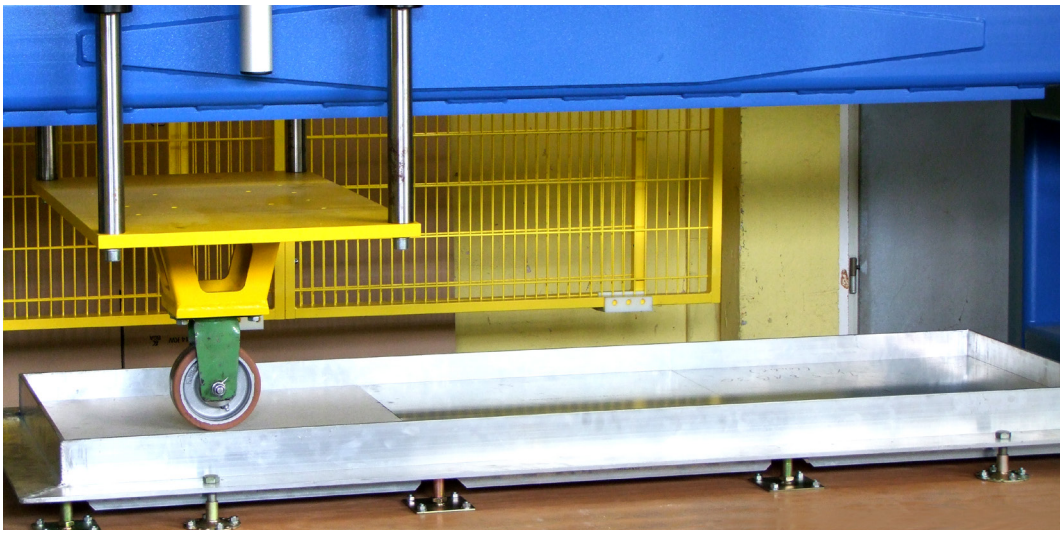
With our company laboratory, fitted according to the highest technical standards, we are able to develop project related special solutions quickly.

Our standard system types are monitored by SFE (System Flooring EWIV). The quality of almost all of our type 2 systems hereby is constantly checked and confirmed through certificates of conformity.

Climatic chambers are simulating fluctuations of temperature and humidity. Thus building-physical characteristics of components as well as project related extreme situations can be replicated.

With our rolling load test rig, components of a heavy strained floor system can be checked for their suitability.

TYPE 2



Technical data

Walking area

Panel:

Dimensions:	600 x 600 mm
Panel thickness:	~ 36 – 41 mm
Surface:	Textile and elastic floor coverings, parquet, natural stone, artificial stone, stoneware, aluminum sheet, steel sheet, without covering
Underside:	Aluminum foil, steel sheet, without covering
System weight:	~ 37 - 94 kg/m² (without covering, floor height 1.000 mm)
Panel weight:	~ 9 - 25 kg/piece
Panel material:	Chipboard, calcium sulphate

Understructure:

Pedestals walking area:	Galvanized steel, Grid 600 x 600; 600 x 1.200; 1.200 x 1.200 mm
Construction height:	160 - 2.500 mm FFH
Supp. profile walking area:	Galvanized steel; C-Profiles screwed to pedestals

Load values:

Point load:	2.000 N – 20.000 N
Load class according to DIN EN 12825:	Class 1 - 6
Breaking load:	≥ 4.000 N – 40.000 N
Safety factor:	≥ 2.0
Electrostatic: (DIN EN 1081 / DIN IEC 61340-4-1)	Depending on floor covering: R2 resp. RG > 10^5 Ω

Fire protection:

Classification of the supporting panel	
Building material class (DIN EN 13501-1):	Flame resistant up to A1
Fire resistance class (DIN 4102-2):	F30 possible up to FFH 2.000 mm
Fire resistance class (DIN EN 13501-2):	REI 30 possible up to FFH 2.000 mm

Type 2-600SX up to 20.000 N point load

TYPE 2

Frame area

Pedestals:	Galvanized steel; Pedestal grid according to rack dimensions
Construction height:	145 - 2.500 mm
Supporting profile frame area:	C-Profile 72.5 x 40 mm or 115 x 40 mm
Module frame profile:	Doubled C-Profile 115 x 40 mm

Load values:

Point load:	3.000 - 20.000 N
Breaking load:	≥ 6.000 - 40.000 N
Safety factor:	≥ 2.0
(Indentor 40 x 40 mm following	DIN EN 12825)
Linear load:	4.000 - 40.000 N/m

(Load application via longitudinal profiles; max. free span: 1.000 mm)

Module frame structures with doubled profiles for up to 20.000 N point load and 40.000 N/m linear load

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