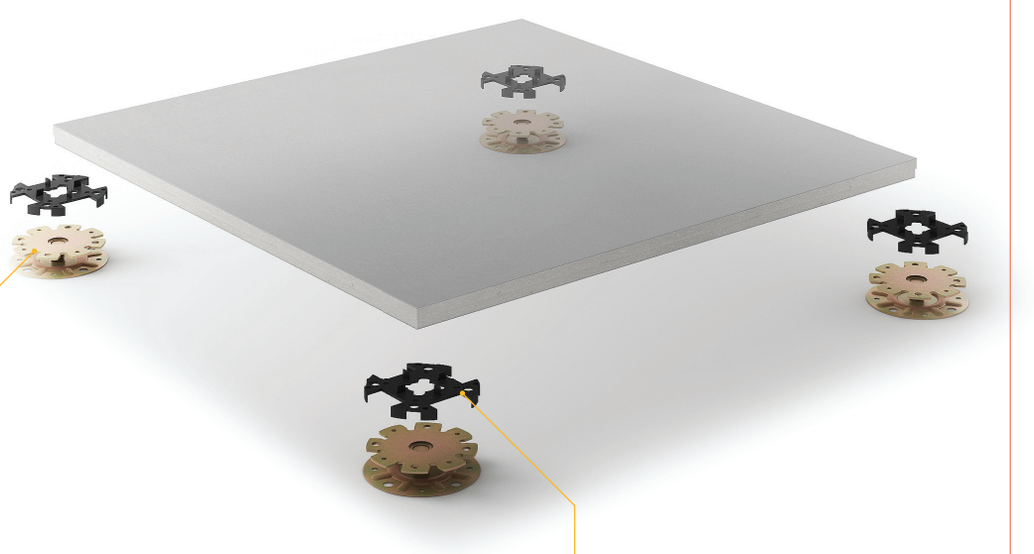
SUBSTRUCTURE
PANELS
TOP LAYERS
ACCESSORIES

Product Sheet

PEDESTAL TYPE 1

The substructure of rooms with limited height constraints.

Substructure
Assembly
This pedestal can be mounted to a concrete floor that has been levelled with a straight edge. The adjusting capabilities of the pedestal make it possible to always achieve a level floor.



Substructure
Pedestal Type 1
This type of pedestal is suitable for raised floors with a final height of approx 300 mm. This is an ideal solution for applications in offices and renovated buildings due to the limited height constrains that often play a role.

Substructure
Absorption Plate
Thickness
2 mm

Material
Conductive plastic, with ridges for positioning the panels

Diameter Foot Plate
98 mm

Thread
M16

Pipe Diameter Pedestal Head
20 mm

Diameter Pedestal Head
90 mm

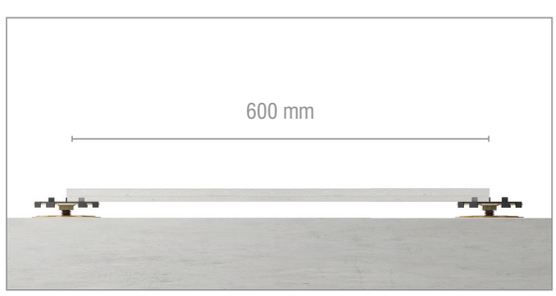
Material
Steel, galvanised, yellow passivated

Pedestal Height
25 mm - 260 mm (including damping plate)

Adjustment Range
Dependent on choice of pedestal height: +/- 3 mm to +/- 20 mm

Assembly
On construction floor with PU glue

Lattice Size
The pedestals are placed (centre-to-centre) 600 mm from each other, with the exception of the connections to structural parts.



The grid size of pedestal type 1 is 600 mm x 600 mm. Different sizes are possible.

This pedestal is obtainable in various heights depending on the floor height required.

Pedestal Load in accordance with DIN EN 12825

Failure load with eccentric load
> 10 kN (Tested at pedestal height of 398 mm)

Failure load with balanced load
> 20 kN (when carrying out this test the failure load was not reached and the test was stopped at 20 kN) (Tested at a pedestal height of 398 mm)

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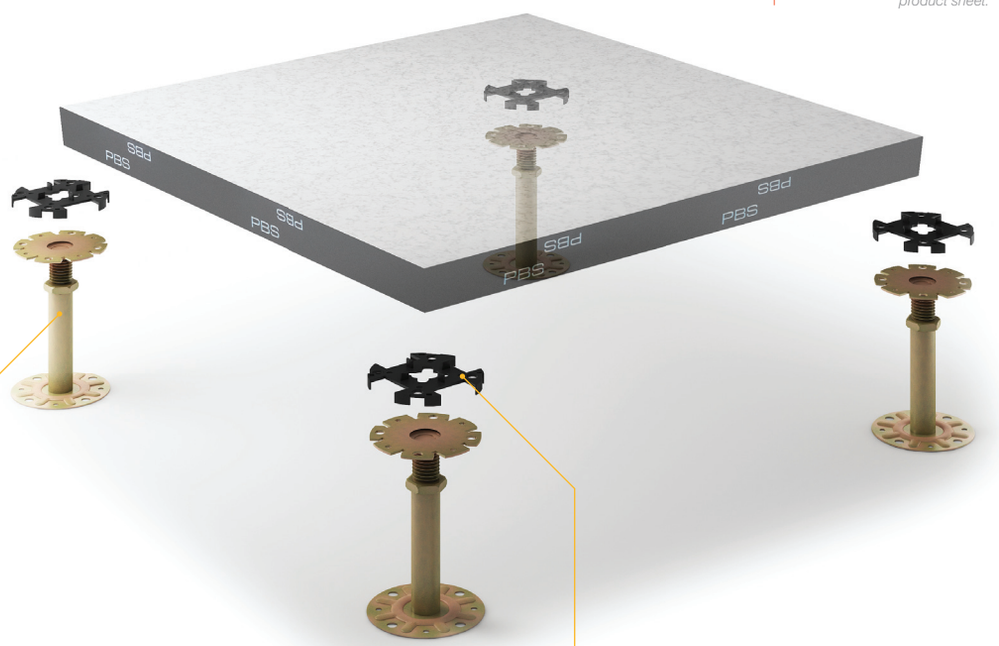
PEDESTAL TYPE 2, M20

This substructure is suitable for floors up to a final height of 600 mm.



Substructure
Assembly
This pedestal can be mounted to a concrete floor that has been levelled with a straight edge. The adjusting capabilities of the pedestal make it possible to always achieve a level floor.

Substructure
Pedestal Type 2
This type of pedestal is suitable for raised floors with a final height of approx 250 mm to approx. 600 mm. For floors higher than 500 mm we advise the use of a pedestal with lateral girders (Pedestal Type 2R).

Substructure
Absorption Plate
Thickness
2 mm

Material
Conductive plastic, with ridges for positioning the panels

Diameter Foot Plate
98 mm

Thread Pedestal Head
M20

Pipe Diameter Pedestal Head
Outside diameter 24 mm, pipe thickness 2 mm

Diameter Pedestal Head
90 mm

Material
Steel, galvanised, yellow passivated

Pedestal Height
210 mm - 560 mm (including damping plate)

Adjustment Range
+/- 25 mm

Assembly
On construction floor with PU glue

Lattice Size
The pedestals are placed (centre-to-centre) 600 mm from each other, with the exception of the connections to structural parts.

The grid size of pedestal type 2 is 600 mm x 600 mm. Different sizes are possible.

Pedestal Load in accordance with DIN EN 12825

Failure load with eccentric load
> 9 kN (At a height of 1200 mm)

Failure load with balanced load
> 18 kN (At a height of 1200 mm)

This pedestal is obtainable in various heights depending on the floor height required.

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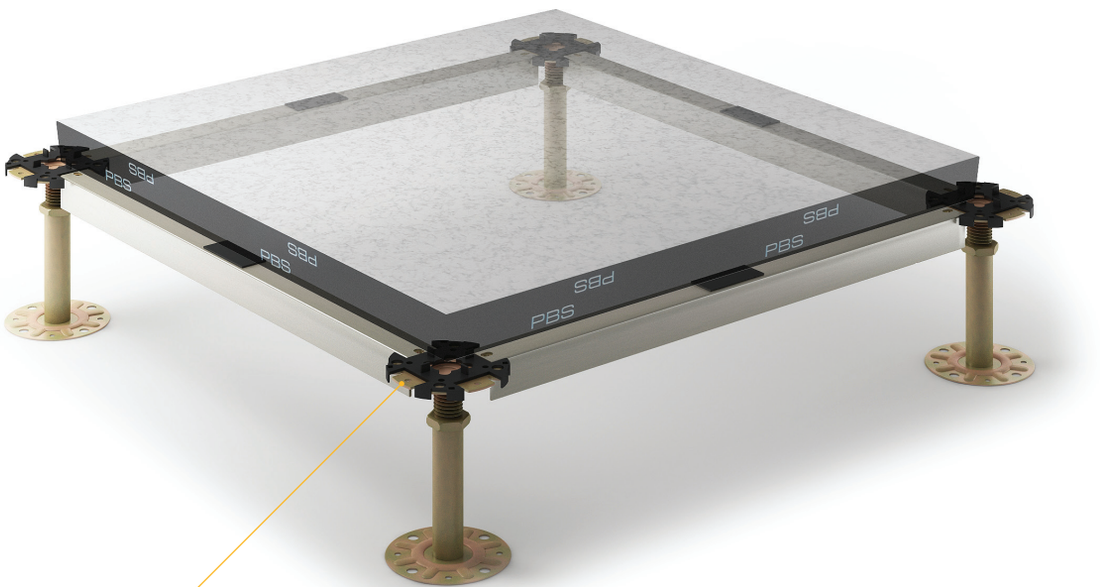
PEDESTAL TYPE 2R

A Pedestal Type 2R is used for rooms where extra sideways stability is required.



Substructure

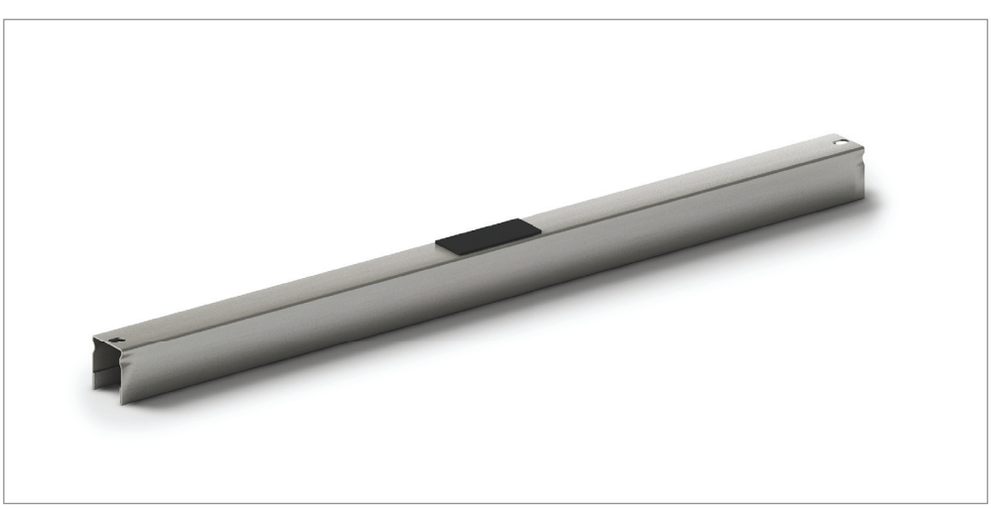
PEDESTAL TYPE 2R

This type of pedestal is suitable for raised floors with a final height of between approx. 250 mm to 1,200 mm. Lateral girders are installed for extra sideways stability and optionally screwed to the pedestal head For floors higher than 1,000 mm we advise the use of a box girder substructure (KW60 or KW120).

Substructure

Assembly

This pedestal can be mounted to a concrete floor that has been levelled with a straight edge. The adjusting capabilities of the pedestal make it possible to always achieve a level floor.



The lateral girder shown is of the U Clamp type. It is possible to use various types.

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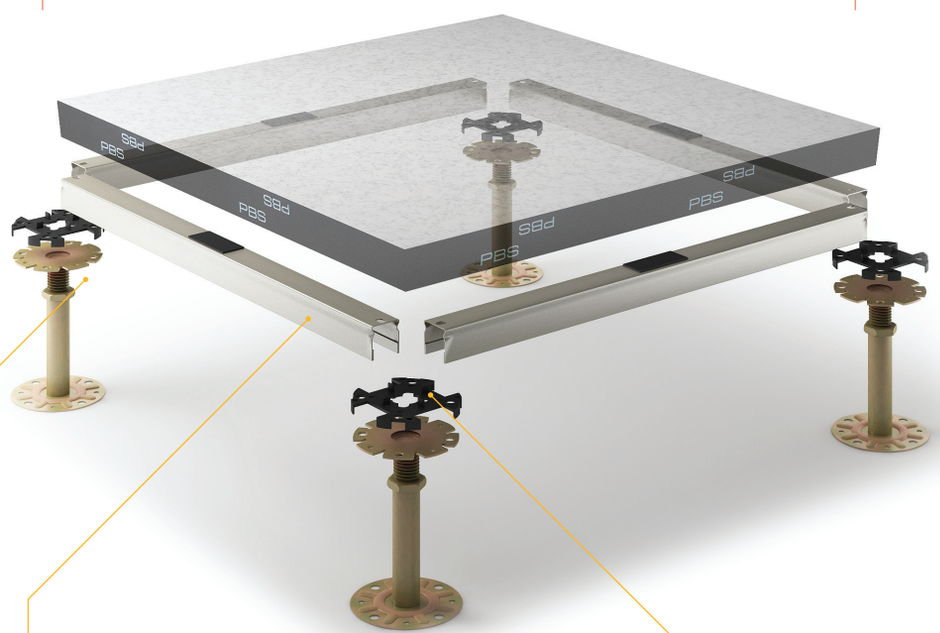
PEDESTAL TYPE 2R



Substructure
PEDESTAL TYPE 2R

Diameter Foot Plate
98 mm

Thread Pedestal Head
M20

Pipe Diameter
Outside diameter 24 mm, pipe thickness 2 mm

Diameter Pedestal Head
90 mm

Material
Steel, galvanised, yellow passivated

Pedestal Height
Dependent on the final height: 210 mm - 1,160 mm (including damping plate)

Adjustment Range
+/- 25 mm

Assembly
On construction floor with PU glue

Lattice Size
The pedestals are placed (centre-to-centre) 600 mm from each other, with the exception of the connections to structural parts.

Substructure
Cross Girder

Material
Steel, U Profile, Sendzimir galvanised

Dimensions
537 mm x 30 mm x 30 mm

Assembly
Applied standard with pedestals installed (centre-to-centre) at 600 mm. The lateral girders are clamped standard between the pedestals. Optionally the lateral girders can be screwed to the pedestal head and the lateral girders can be used across the entire area (also where pedestals are not installed at 600 centre-to-centre).

Substructure
Absorption Plate

Thickness
2 mm

Material
Conductive plastic, with ridges for positioning the panels

The grid size of pedestal type 2R is 600 mm x 600 mm. Different sizes are possible.

This pedestal is obtainable in various heights depending on the floor height required.

Pedestal Load in accordance with DIN EN 12825

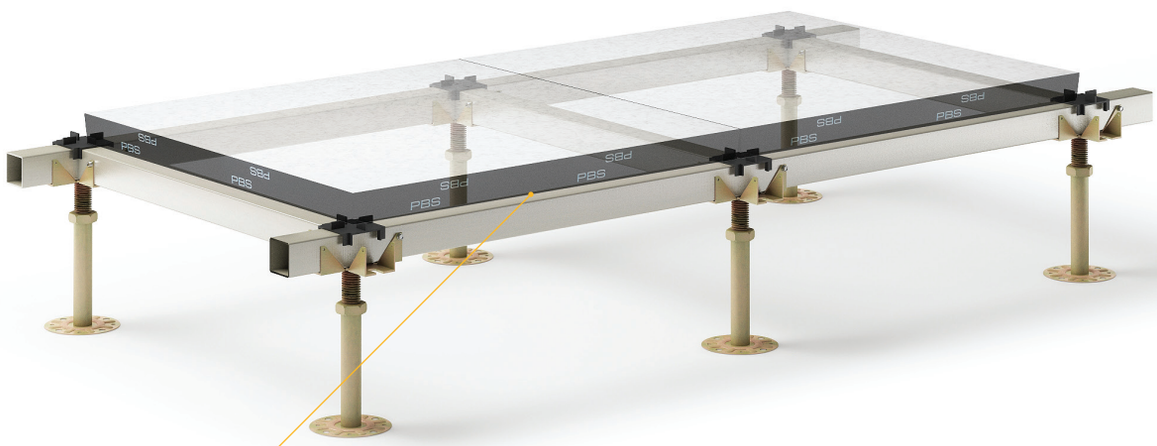
Failure load with eccentric load
Approx. > 9 kN (Test at pedestal height of 1,200 mm)

Failure load with balanced load
> 18 kN (Tested at pedestal height of 1,200 mm)

Product Sheet

BOX GIRDER SUBSTRUCTURE KW60

The substructure for use in data centres, technical and computer rooms and rooms where high demands are made on load bearing.



Substructure

Box Girder Substructure KW60

This substructure is extremely suitable for environments where grounding, carrying capacity and sideways stability are very important. These could be data centres, computer rooms, technical rooms and clean rooms. Thanks to a more compact frame the KW60 is designed to absorb (dynamic) loads. This makes this substructure also suitable for finished heights of up to 2,000 mm.

Due to the entire substructure being made of steel and all parts being screwed together, this structure has zero resistance per 2.4 meters (0,00 Ohm). This means that the box work floor is excellently suitable as a grounding grid.

Substructure

Safety and Stability

This substructure is a stand alone system and can be assembled without panels. Because all adjusting screws are interconnected with ducts and are screwed together a large stable structure is formed. This means that multiple panels can be removed without affecting the integrity of the construction. In this way a safe environment for people and equipment is formed. This construction also copes with sideways forces effortlessly (these come into play when using forklifts, for example).

Substructure

Assembly

This pedestal can be mounted to a concrete floor that has been levelled with a straight edge. The adjusting capabilities of the pedestal make it possible to always achieve a level floor.

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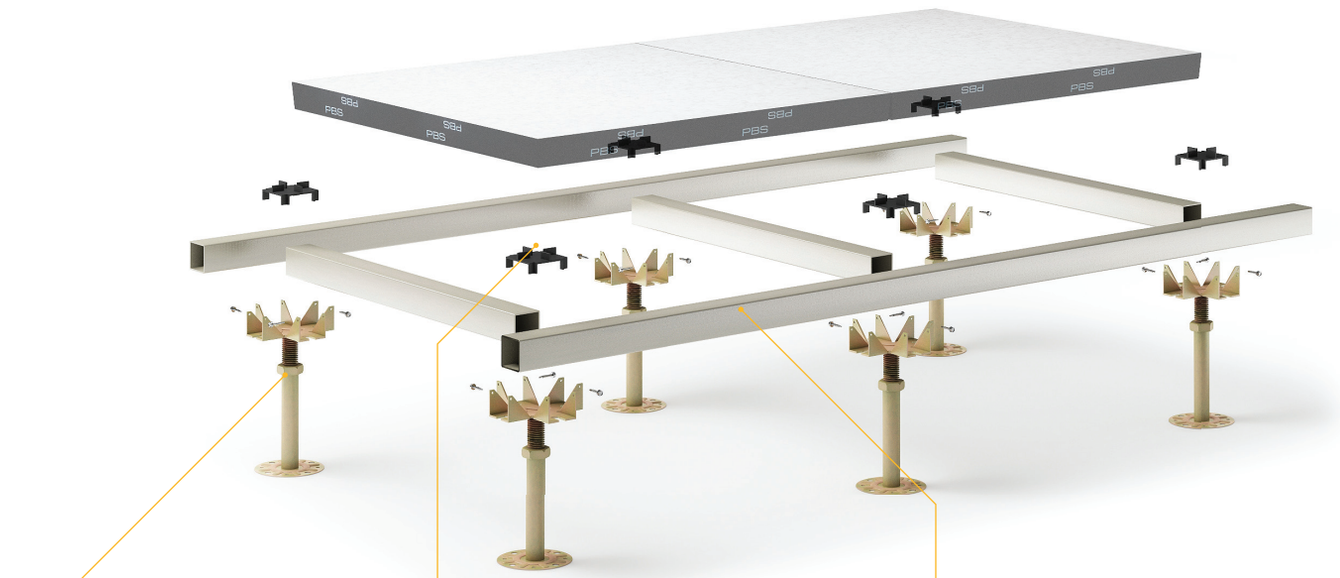
BOX GIRDER SUBSTRUCTURE KW60



Substructure **Pedestal**

Pedestal Type
Type 5 (to a construction height of 1,160 mm)
Type 5H (to a construction height of 1,960 mm)

Diameter Foot Plate
98 mm

Thread Pedestal Head
M20

Pipe Diameter
Type 5: outside diameter 24 mm, pipe wall thickness 2 mm
Type 5H: outside diameter 20 mm, pipe wall thickness 3 mm

Material
Steel, galvanised, yellow passivated

Pedestal Height
Type 5: 170 mm - 1,120 mm
Type 5H: 170 mm - 1,920 mm

Adjustment Range
+/- 25 mm

Assembly
On construction floor with PU glue

Lattice Size
The pedestals are placed (centre-to-centre) 600 mm from each other, with the exception of the connections to structural parts.

Substructure **Absorption Plate**

Thickness
2 mm

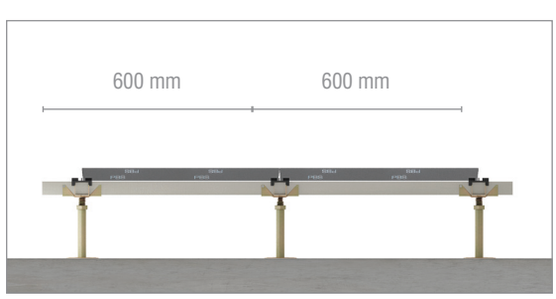
Material
Conductive plastic, with ridges for positioning the panels

Substructure **Box Girder**

Dimensions breadth x length x height
40 mm x 40 mm x 2 mm

Material
Steel, electrolytic galvanised

Assembly
The box girders are attached on one side with a self tapping screw to the pedestal head.



The grid size of this substructure is 600 x 600 mm Different sizes are possible.

This pedestal is obtainable in various heights depending on the floor height required.

Electrical Conductivity

Resistance in the Substructure
Not measurable: 0,00 Ohm / 2.400 mm measured from pedestal to pedestal

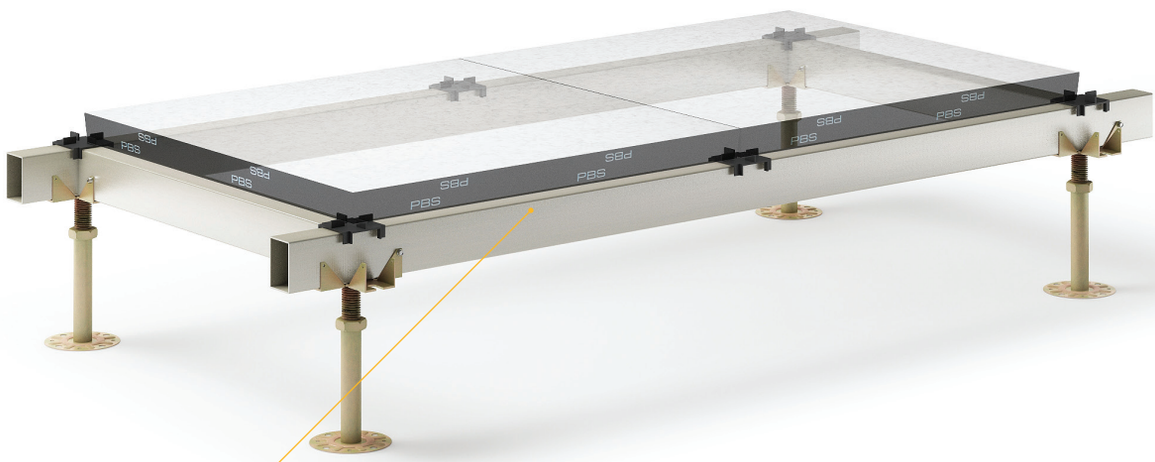
Pedestal Load in accordance with DIN EN 12825

Failure Load with Balanced Load
> 20.2 kN (Test at pedestal height of 990 mm)

Product Sheet

BOX GIRDER SUBSTRUCTURE KW120

The substructure for use in data centres, technical and computer rooms and rooms where high demands are made on load bearing.



Substructure

Box Girder Substructure KW120

This substructure is extremely suitable for environments where grounding, carrying capacity and sideways stability are very important. These could be data centres, computer rooms, technical rooms and clean rooms. Thanks to the spacious grid this substructure offers extra space under the floor for cabling. It also has less obstructions for air flow.

Due to the entire substructure being made of steel and all parts being screwed together, this structure has zero resistance per 2.4 meters (0,00 Ohm). This means that the box grid work floor is excellently suitable as a grounding grid.

Substructure

Safety and Stability

This substructure is a stand alone system and can be assembled without panels. Because all pedestals are interconnected with box girders and are screwed together a large stable structure is formed. This means that multiple panels can be removed without affecting the integrity of the construction. In this way a safe environment for people and equipment is formed. This construction also copes effortlessly with sideways forces (these come into play when using forklifts, for example).

Substructure

Assembly

This pedestal can be mounted to a concrete floor that has been levelled with a straight edge. The adjusting capabilities of the pedestal make it possible to always achieve a level floor.

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Product Sheet

BOX GIRDER SUBSTRUCTURE KW120

Substructure **Pedestal**

Pedestal Type
Type 5 (to a construction height of 1,160 mm)
Type 5H (to a construction height of 1,460 mm)

Diameter Foot Plate
98 mm

Thread Pedestal Head
M20

Pipe Diameter
Type 5: outside diameter 24 mm, pipe wall thickness 2 mm
Type 5H: outside diameter 26 mm, pipe wall thickness 3 mm

Material
Steel, galvanised, yellow passivated

Pedestal Height
Type 5: 170 mm - 1,100 mm
Type 5H: 170 mm - 1,400 mm

Adjustment Range
+/- 25 mm

Assembly
On construction floor with PU glue

Lattice Size
The pedestals are placed in one direction centre-to-centre 600 mm apart. Laterally the pedestals are placed at 1,200 mm from each other.
With the exception of the connections to structural parts.

Substructure **Absorption Plate**

Thickness
2 mm

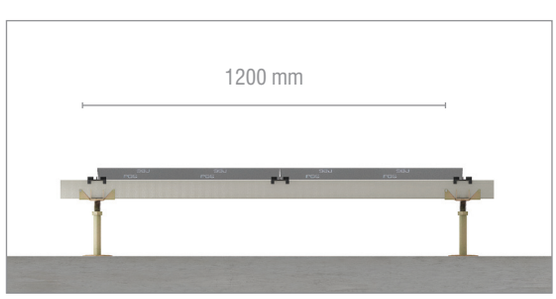
Material
Conductive plastic, with ridges for positioning the panels

Substructure **Box Girder**

Dimensions breadth x length x height
40 mm x 60 mm x 2 mm

Material
Steel, electrolytic galvanised

Assembly
The box girders are attached on one side with a self tapping screw to the pedestal head.



The grid size of this substructure is 600 mm x 1,200 mm. Different sizes are possible.

This pedestal is obtainable in various heights depending on the floor height required.

Electrical Conductivity

Resistance in the Substructure
Not measurable: 0,00 Ohm / 2.400 mm measured from pedestal to pedestal

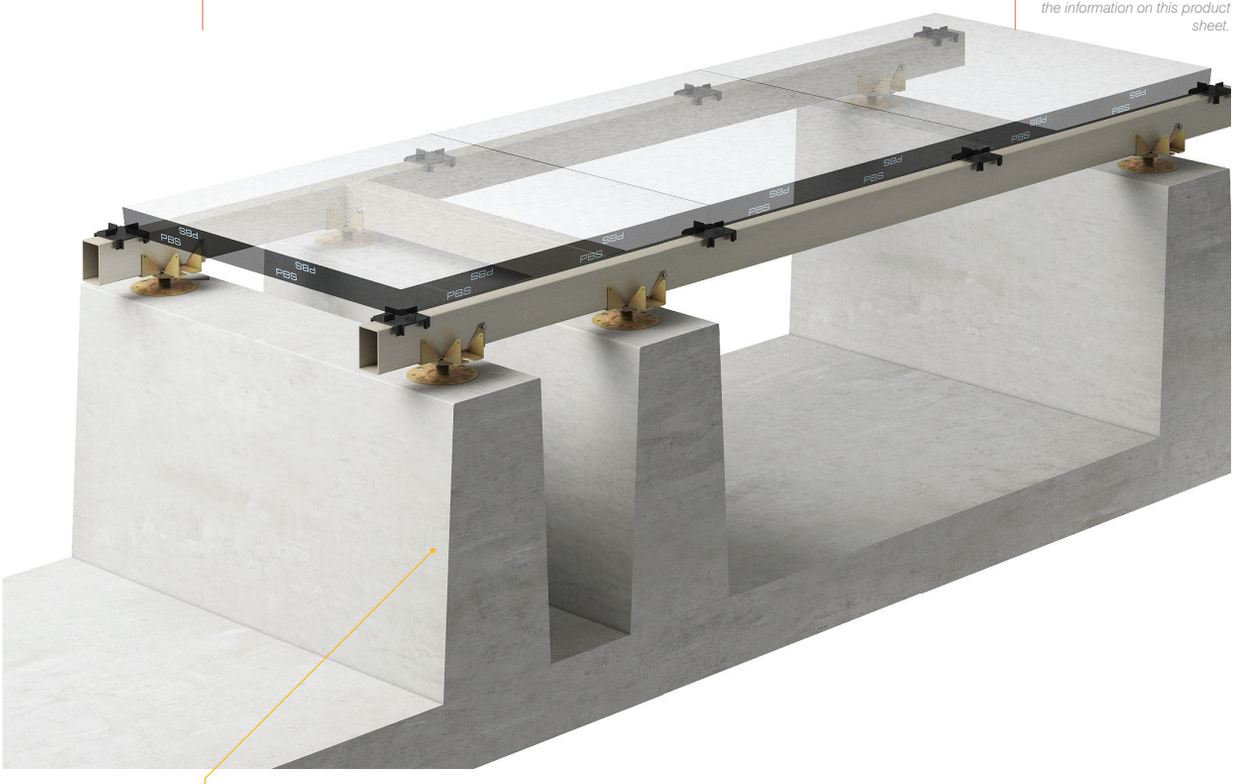
Pedestal Load in accordance with DIN EN 12825

Failure Load with Balanced Load
> 20.2 kN (Test at pedestal height of 990 mm)

Product Sheet

PEDESTAL TYPE 1KW

The substructure for environments without a fixed grid size!



Substructure

Pedestal Type 1KW

This substructure was developed to add flexibility to buildings where slimline or wing floors have been used. In order to install a raised floor there must be a mounting point every 600 mm for the pedestal. Slimline or wing floors usually have the IPE profiles of concrete joists mostly however not at standard distances apart. To solve this problem PBS developed Pedestal Type 1KW. With this substructure larger spans can be made and standard panels of 600 mm x 600 mm can still be used. Additionally with this type of pedestal a limited final height can be achieved.

Substructure

Load Bearing Capacity:

This construction conforms to Eurocode User Class B Consequence Class CC2, calculated with a point load of 3 kN. Span widths of up to 1,700 mm can be achieved standard. Larger spans are possible after consultation.

The adjust ability of this pedestal ensurse that a level result is always achieved.

Substructure

Assembly

This pedestal can be mounted on wooden, steel and concrete substructures.

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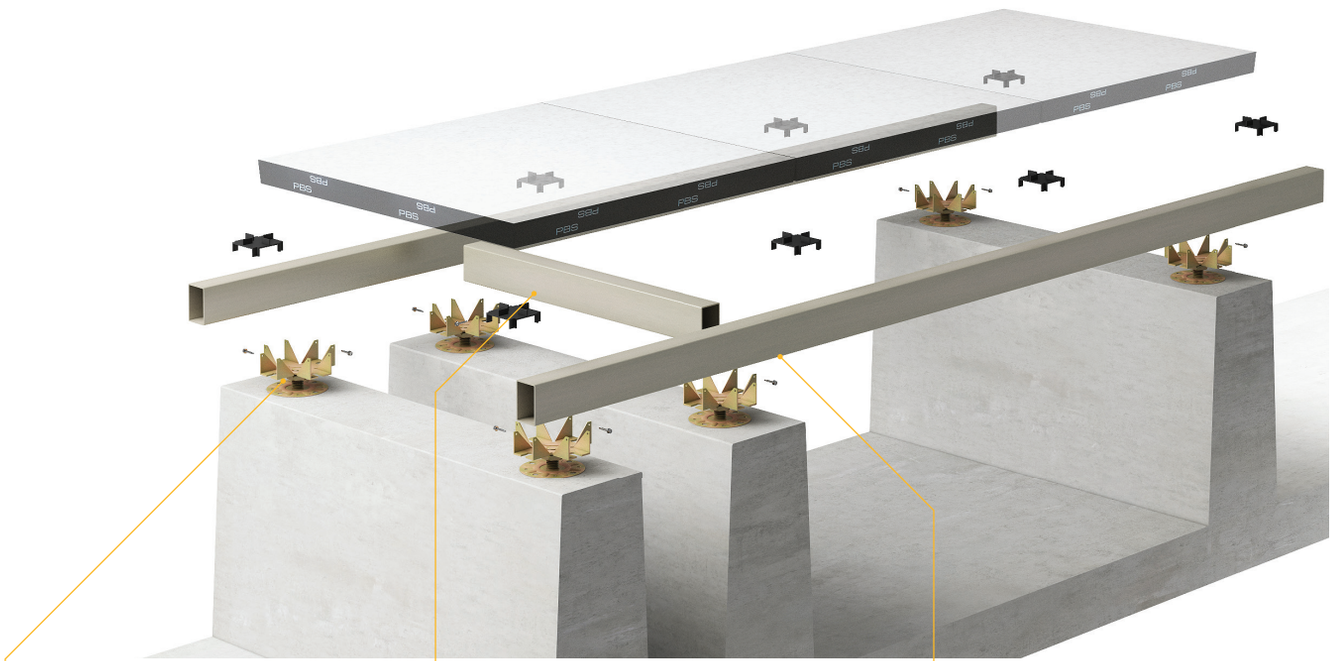
PEDESTAL TYPE 1KW



Substructure
Pedestal

Diameter Foot Plate
98 mm

Thread Pedestal Head
M16

Material
Steel, galvanised, yellow passivated

Pedestal Height
30 mm

Adjustment Range
+/- 3 mm

Assembly
On construction floor with PU glue

Lattice Size
The pedestals are placed in one direction centre-to-centre 600 mm apart. The lateral spacing distance of the pedestals must be determined per project. (There will be deviations in the grid at locations where there are connections to constructional elements.)

Substructure
Absorption Plate

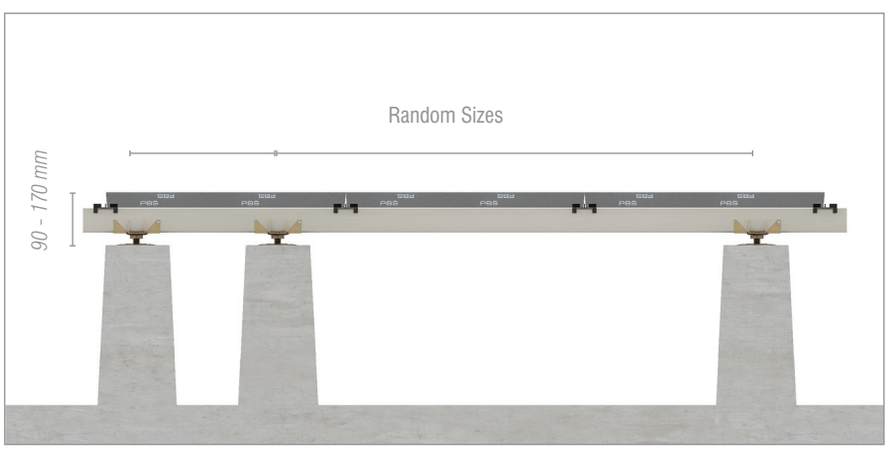
Thickness
2 mm

Material
Conductive plastic, with ridges for positioning the panels

Substructure
Box Girder

Dimensions
Breadth: 40 mm
Height: 40 - 100 mm (depending on the required span length)

Material
Steel, electrolytic galvanised



The height is 90 mm - 170 mm.
Depending on the span and type of panel.

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