

# Open pedestal systems



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# OPEN PEDESTAL SYSTEMS

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## (Not to be confused with raised access flooring systems for internal use)

The pedestal raised deck supports are designed for use on external terraces, walkways, balconies and ballasted flat roof constructions. They can also be used for decorative purposes to create raised patio and wooden decked areas in gardens.

Depending on the system used, they can accommodate from a few centimetres up to ½ a metre in height, giving a wide range of adjustment, with some types giving fine adjustment on the levelling head.

## Self-Levelling Head

Some pedestals have self-levelling heads which can compensate for gradients up to 5°. They are usually made of polypropylene and rubber to provide an anti-noise and anti-slip bedding surface.

## Self-Spacing

Most have locating blades on the head to assist with the positioning of slabs/tiles etc, and for maintaining open joints when required. If required, (for different tile formats), the locating blades can be removed, (see below).

## Robust

Resistant to temperatures from -40° to +120°C and are UV stable and resistant to acids.

## Installation

Pedestal systems are fairly quick and easy to install, and provide fast, efficient drainage through the open joints of the slabs/tiles to the concealed drainage below.

The system is ideal for any waterproofed substructure and especially for inverted roof constructions where ballasted insulation is laid onto the waterproofing layer of the flat roof. Traditional bedding and grouting materials are not required, and once installed; the slabs/tiles can be easily lifted for simple inspection of the drainage outlets and for substructure maintenance. A stable sub-base and, in the case of exposed external use, an adequate means of surface water drainage are virtually the only requirements for the system. Irregular, stepped, uneven or sloping sub-bases can usually be easily surmounted by the system resulting in a new level raised floor.



# THE SYSTEM

## Open pedestal systems



MB1

MB2

MB3

MB4



MB5

MB6

MB7



MB8

MB9

MB10

MB11



MB12

MB13

MB14

The pedestal system comprises 14 basic modules, each with supporting head and base component, allowing a wide range of void heights.

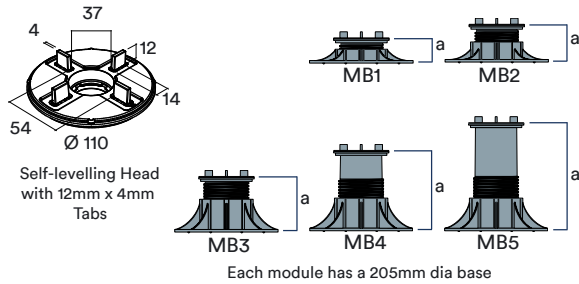
Modules are used either individually or in combination to give floor voids ranging from 37.5mm to 550mm.

### Installation sequence

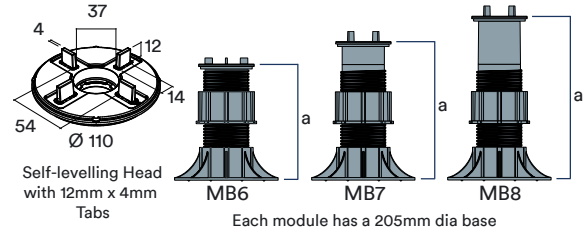
1. Check condition of sub-base, waterproofing and drainage points. Rectify any defects and clear drainage outlets as a preliminary measure.
2. Set out pattern of pedestal supports, ensuring the correct number for the tile size, selected to suit new deck height and paving modules.
3. Use supporting heads with linear blade configurations at edges of deck and at any intermediate surface interruptions.
4. Adjust pedestal screw-jacks to the approximate height required, checking for level and alignment.
5. Finalise the layout of the pedestals. For convenience, use a lightweight template for checking positions and to avoid undue lifting of heavy slabs/tiles.
6. Proceed to lay the slabs/tiles, ensuring that each slab corner is firmly seated on the pedestal head and butted up to the locating blades.
7. Final adjustment to level can be made by using the adjustment key.

# THE COMPONENTS

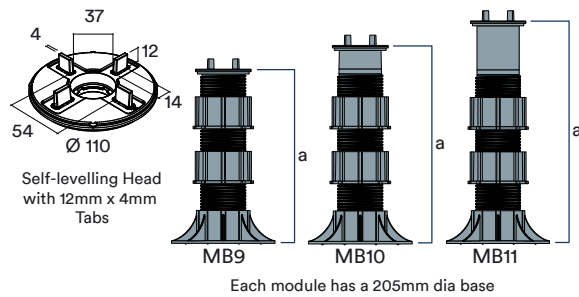
## Open pedestal systems



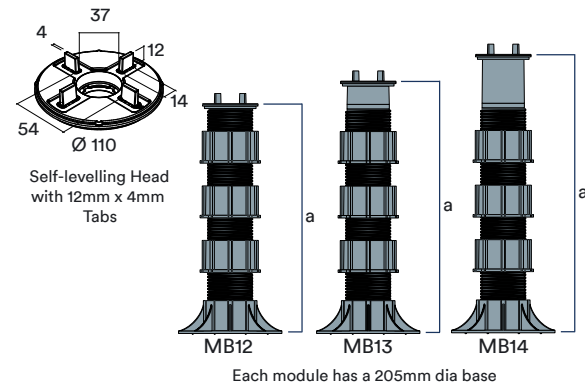
Module Combination	Height Adjustment (mm)	Product Code
Module without extension coupler	37.5 - 50	MB1
Module without extension coupler	50 - 75	MB2
Module without extension coupler	75 - 120	MB3
Module without extension coupler	120 - 170	MB4
Module without extension coupler	170 - 215	MB5



Module Combination Type	Height Adjustment (mm)	Product Code
Module with 1 extension coupler	140 - 230	MB6
Module with 1 extension coupler	185 - 275	MB7
Module with 1 extension coupler	235 - 325	MB8

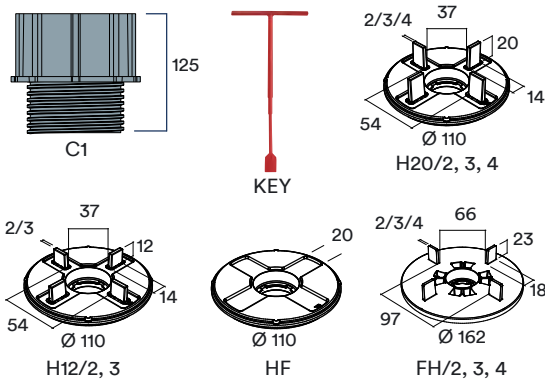


Module Combination Type	Height Adjustment (mm)	Product Code
Module with 2 extension couplers	205 - 345	MB9
Module with 2 extension couplers	250 - 385	MB10
Module with 2 extension couplers	300 - 400	MB11



Module Combination Type	Height Adjustment (mm)	Product Code
Module with 3 extension couplers	270 - 455	MB12
Module with 3 extension couplers	315 - 500	MB13
Module with 3 extension couplers	365 - 550	MB14

## Optional accessories



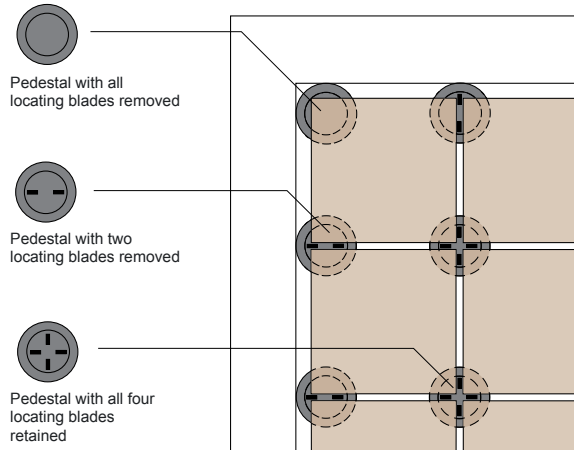
### Component Options

Component Options	Product Code
Extension Coupler	C1
Self-levelling Head with 20mm x 2mm Tabs	H20/2
Self-levelling Head with 20mm x 3mm Tabs	H20/3
Self-levelling Head with 20mm x 4mm Tabs	H20/4
Self-levelling Head with 12mm x 2mm Tabs	H12/2
Self-levelling Head with 12mm x 3mm Tabs	H12/3
Self-levelling Flat Head	H/F
Fixed Head with 23mm x 2mm Tabs	FH/2
Fixed Head with 23mm x 3mm Tabs	FH/3
Fixed Head with 23mm x 4mm Tabs	FH/4
Adjustment Key	KEY

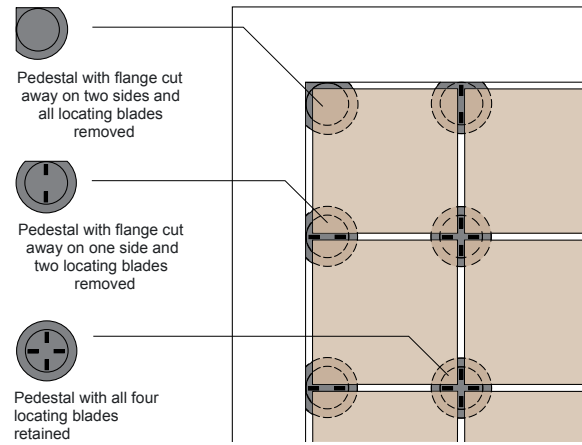
## Edging details

### Alternative edge details

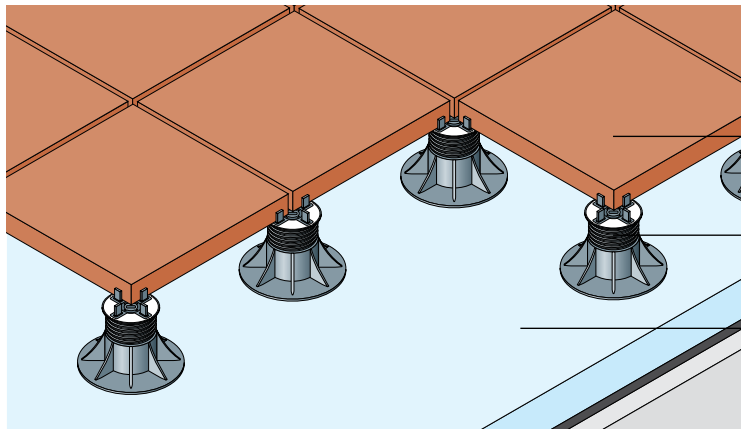
1. With wide open joint at perimeter.



2. With narrow open joint at perimeter.



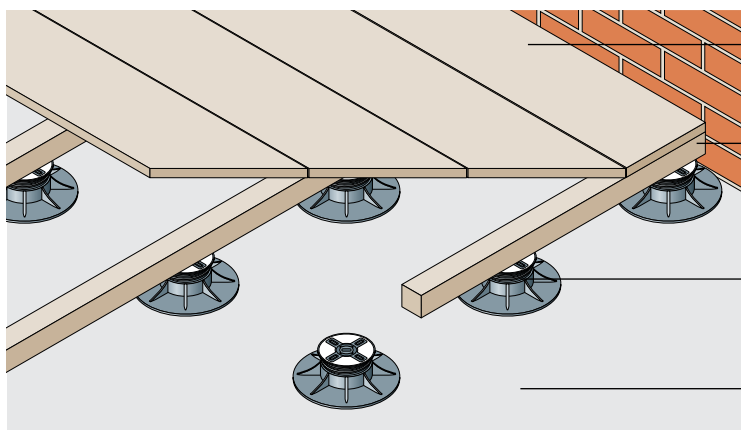
## Types of application



Tiles / slabs with open drain joints

Pedestal deck support

Rigid insulation and waterproofing over concrete deck



Treated timber slats screwed to cross battens

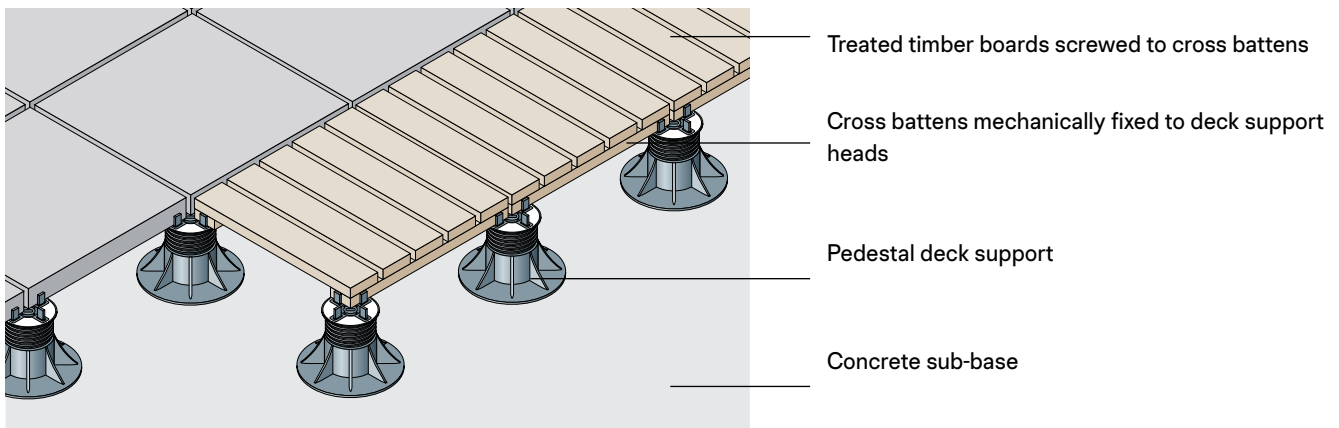
Cross battens mechanically fixed to deck support heads

Pedestal deck support

Concrete sub-base



## Open pedestal systems



### Garden area project

In this instance the pedestals were mechanically fixed to submerged concrete piles, set in the ground, to approximately mirror where the pedestals were to be set.



Using a spirit-level the pedestals were set to the approximate height required.



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As per the installation sequence use a light-weight template to ensure that the pedestals are in the correct position, adjust as necessary. Once completed, tiles can be set into position, any fine tuning of the heads to adjust the tile surface can be done using the adjustment key.

Boarding and steps can be added to cover the open ends and sides enhancing the project, giving the raised patio area the complete look.



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