

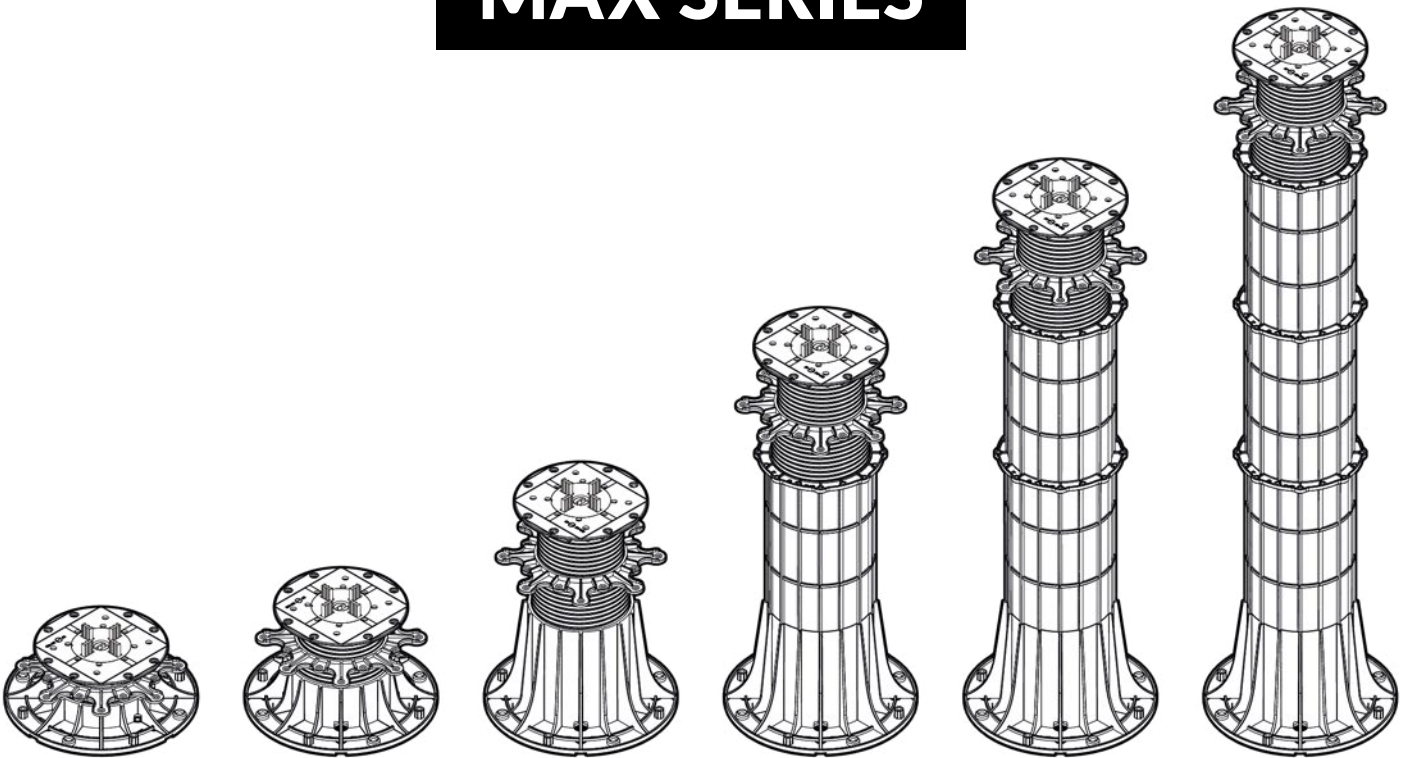
SOLVER.

ADJUSTABLE PEDESTALS

for tiles and decking terraces

USER INSTRUCTION AND MAINTENANCE GUIDE

MAX SERIES

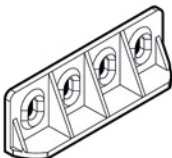
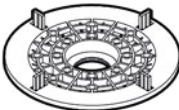


45 mm - 950 mm ($1 \frac{12}{16}$ " - $37 \frac{12}{16}$ ")

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PRODUCTS DESCRIPTION

No.	ELEMENT	NAME	DESCRIPTION
1		GAP SPACER 3 MM D3	Gap spacers are used to set the assembly gap (distance between tiles) with a width of 3 and 5 mm. They are compatible with the entire MAX pedestals system. They are used in the case of a typical tile arrangements, other than a rectangular plate grid.
2		GAP SPACER 5 MM D5	
3		JOISTS ADAPTER AKCW-AD	Joist adapter is attached to the head of the adjustable pedestals with hooks and is used to attach the terrace joist to the adjustable pedestals with screws.
4		GAP DISC 3 MM AKCW-D3	Gap spacer discs are used to set the gap mounting (distance between tiles) ext. 3 and 5 mm. They are compatible with all pedestals system. They are used in the case of a typical rectangular grid of terrace tiles.
5		GAP DISC 5 MM AKCW-D5	
6		RUBBER SHIM SH145	Rubber pads for MAX adjustable pedestals with a thickness of 1.5 mm for leveling and soundproofing the floor. They can also be used to compensate for uneven tiles thicknesses.
7		SELF LEVELING HEAD UPPER PART AKCW-LE145-TOP	The self-leveling head consists of an upper and a lower part. Including as an additional element put on the screw the adjustable pedestals is used to self-level the terrace under the the weight of the tiles on slopes with a slope of self leveling head 0% to 6%. For use on terraces with a slope on the ground. The height of the self leveling head is 36.5 mm.
8		SELF LEVELING HEAD LOWER PART AKCW-LE145-BOTTOM	
9		SCREWDRIVER BIT AKCW-PPK	Additional accessory for quick screw adjustment pedestals. Requires the use of a cordless screwdriver.

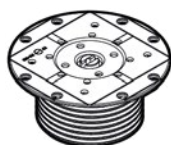
PRODUCTS DESCRIPTION

10



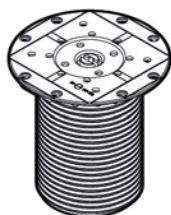
SCREW
MAX S1

11



SCREW
MAX S2

12



SCREW
MAX S3

MAX Adjustable pedestals screws are available in 3 thread height ranges for six adjustable pedestals heights (MAX S1 for MAX 045-075; MAX S2 for MAX 075-150, MAX S3 for MAX 150-350, 350-550, 550-750, 750-950). A sleeve nut is screwed onto the screws and together they are screwed onto the base of the adjustable pedestals

13



SCREW RING
MAX TN1

14



SCREW RING
MAX TN2

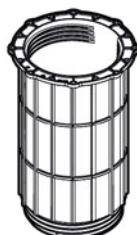
MAX adjustable pedestals sleeves are available in 3 thread height ranges for six pedestals heights (MAX TN1 for MAX 045-075; MAX TN2 for MAX 075-150, MAX TN3 for MAX 150-350, 350-550, 550-750, 750-950). Element screwed in with bolt to the base of the adjustable pedestals.

15



SCREW RING
MAX TN3

16



HEIGHT COUPLER
200 MM
MAX-DS200

The height coupler / distance sleeve is used to increase the height range of the adjustable pedestals MAX 200 mm (7 7/8"). A distance sleeve as an extension is placed in the support base and a sleeve nut with a screw is put on the top.

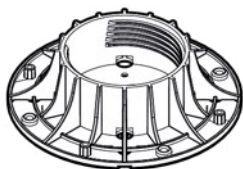
PRODUCTS DESCRIPTION

17



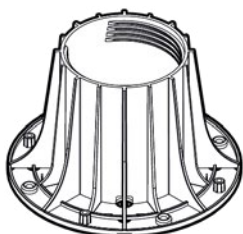
BASE
MAX P1

18



BASE
MAX P2

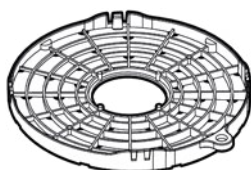
19



BASE
MAX P3

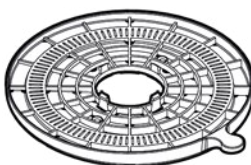
The bases of MAX adjustable pedestals are available in 3 sizes for six pedestals heights (MAX P1 for MAX 045-075; MAX P2 for MAX 075-150, MAX P3 for MAX 150-350, 350- 550, 550-750, 750-950). A distance sleeve or a sleeve nut with a screw are placed in the bases.

20



SLOPE CORRECTOR
UPPER PART
MAX-SC-TOP

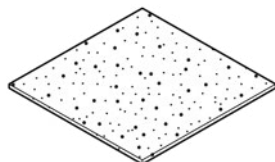
21



SLOPE CORRECTOR
LOWER PART
MAX-SC-BOTTOM

The base corrector consists of an upper and a lower part. Together as an additional element placed under the base of the adjustable pedestals with it's wedge construction it is used for manual leveling of the terrace on slopes with a slope of 0% to 8%.

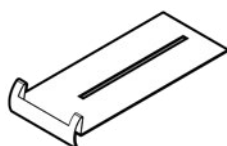
22



RUBBER GRANULATE
PAD
AKCW-SBR220X220

3 mm and 8 mm thick rubber pad with protective and soundproofing properties for use under the slope corrector or the base of the pedestals, on surfaces requiring additional protection or soundproofing.

23



UP TO WALL
PERIMETER CLIP
UPPER
AKCW-WA

The up to wall clip / perimeter clip is placed on the upper head of the pedestals to create a gap between the wall and the terrace slab. It prevents the tiles next to the wall from shifting.

PRODUCTS DESCRIPTION

24



WINDPROOF

Windproof / Kerf / Tie down system of holding tiles with pedestals together and prevents from lifting due to strong wind uplift.

25

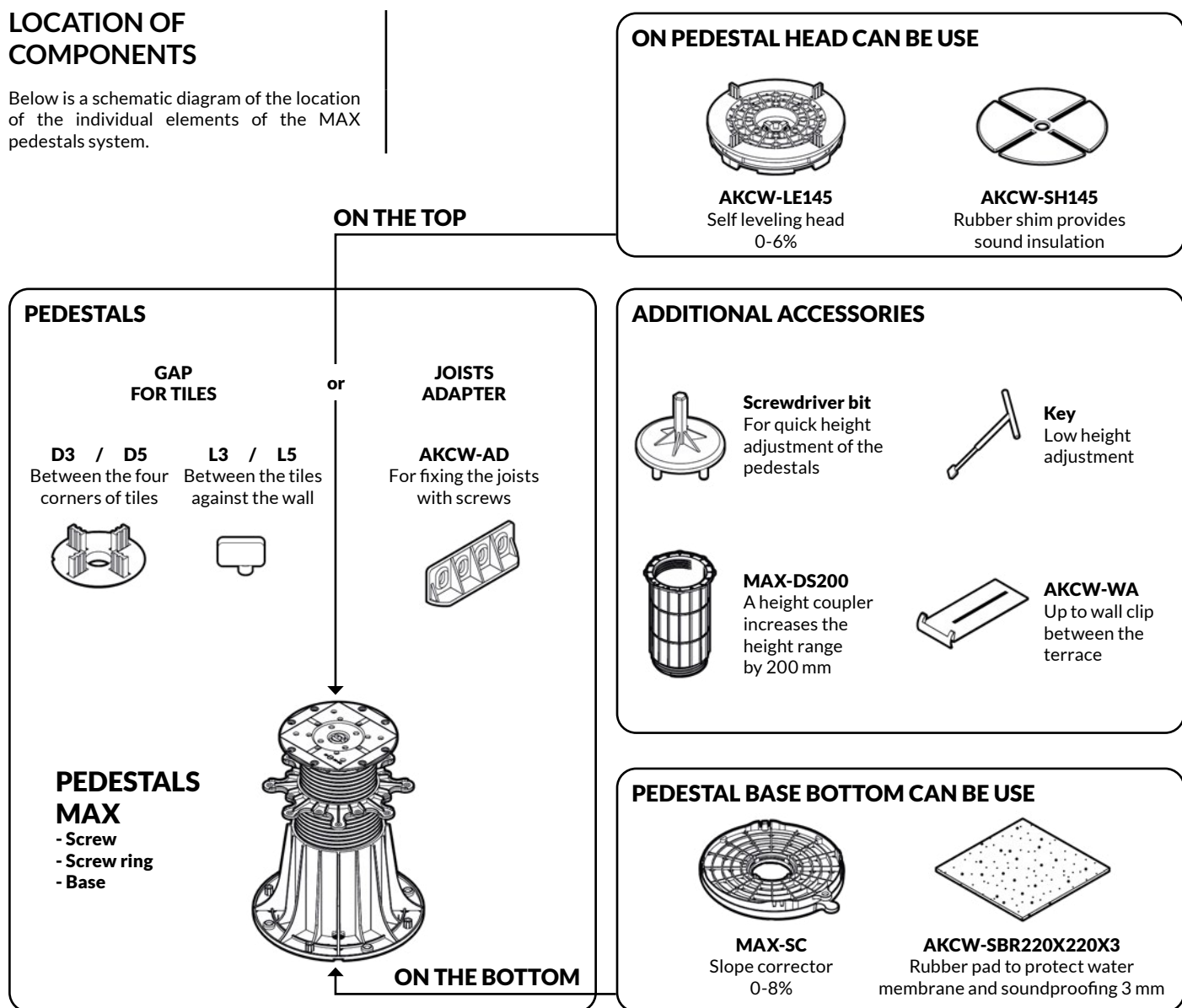


KEY AKCW-MPK

The key is used to make small adjustments to the height of the support after the boards have been laid.

LOCATION OF COMPONENTS

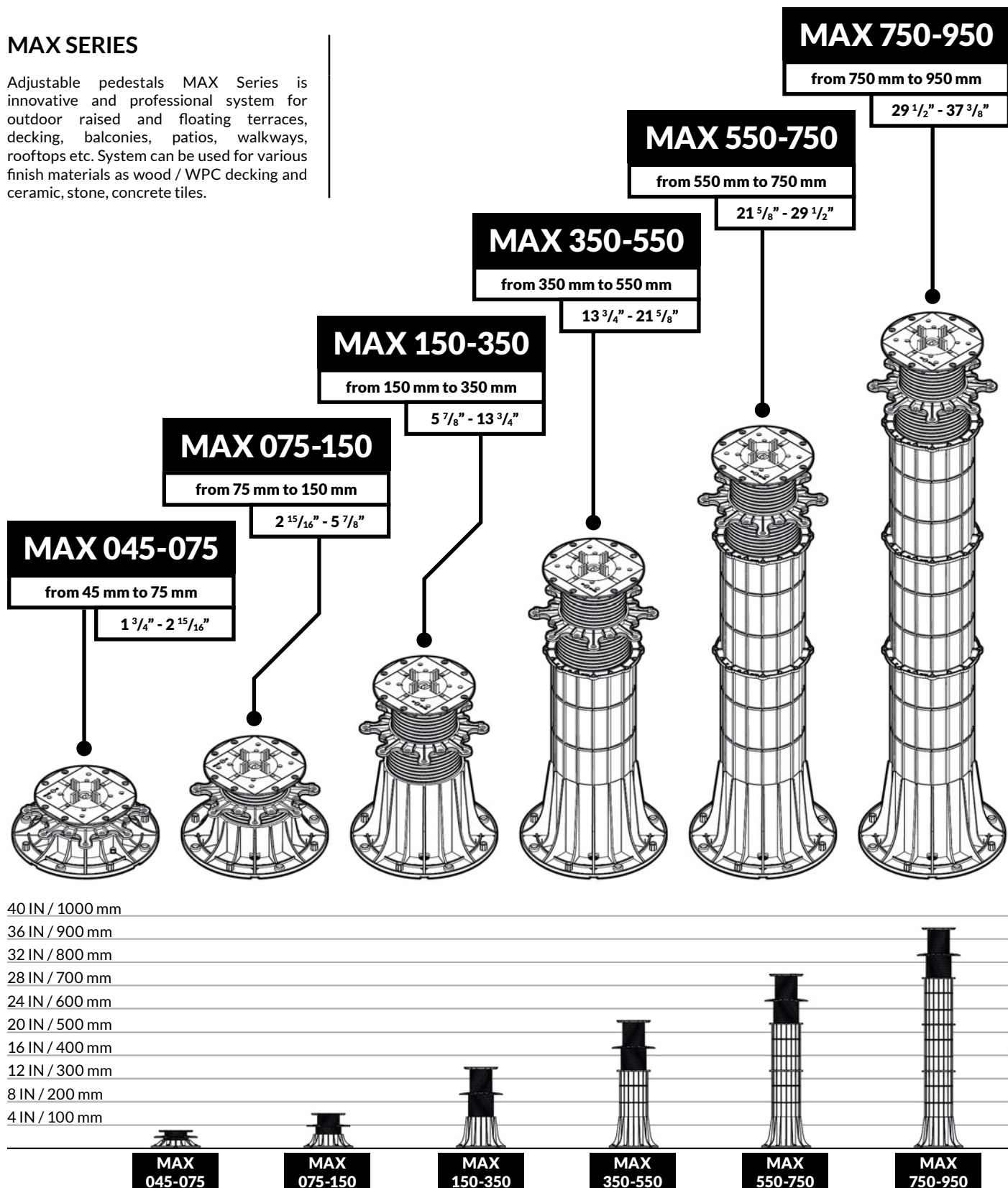
Below is a schematic diagram of the location of the individual elements of the MAX pedestals system.



ADJUSTABLE PEDESTALS MAX SYSTEM

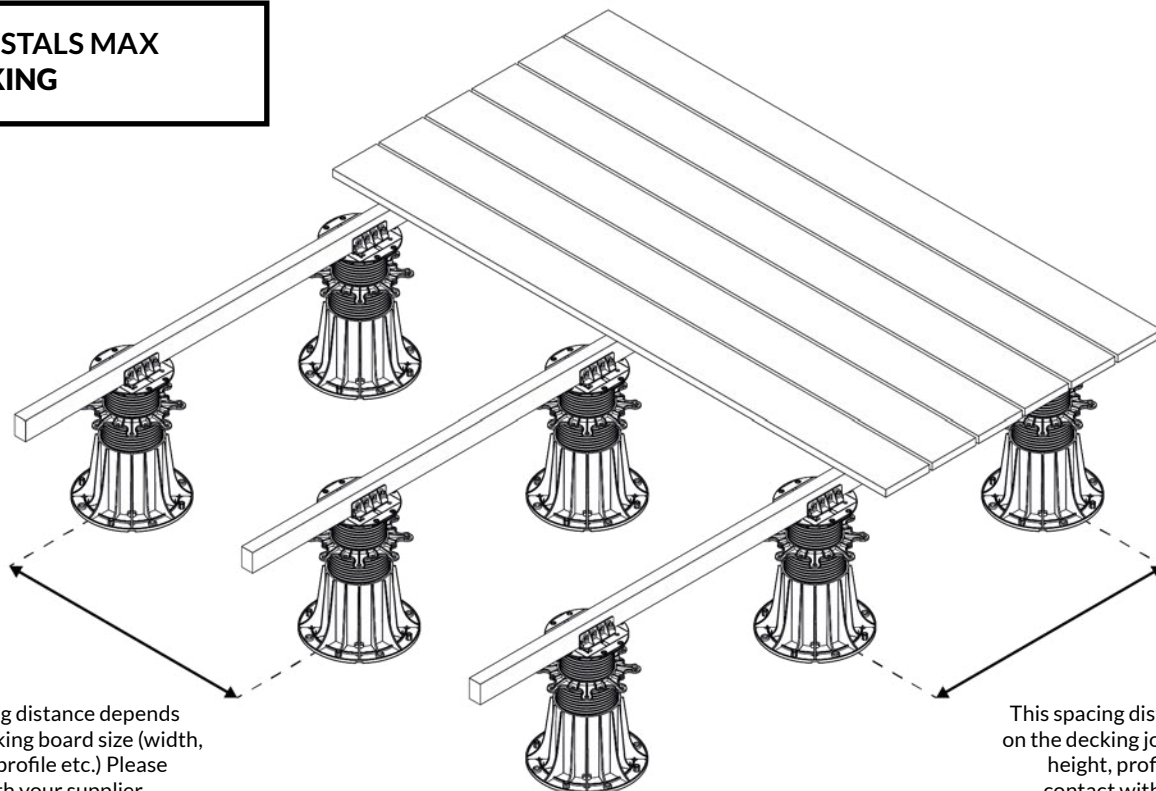
MAX SERIES

Adjustable pedestals MAX Series is innovative and professional system for outdoor raised and floating terraces, decking, balconies, patios, walkways, rooftops etc. System can be used for various finish materials as wood / WPC decking and ceramic, stone, concrete tiles.

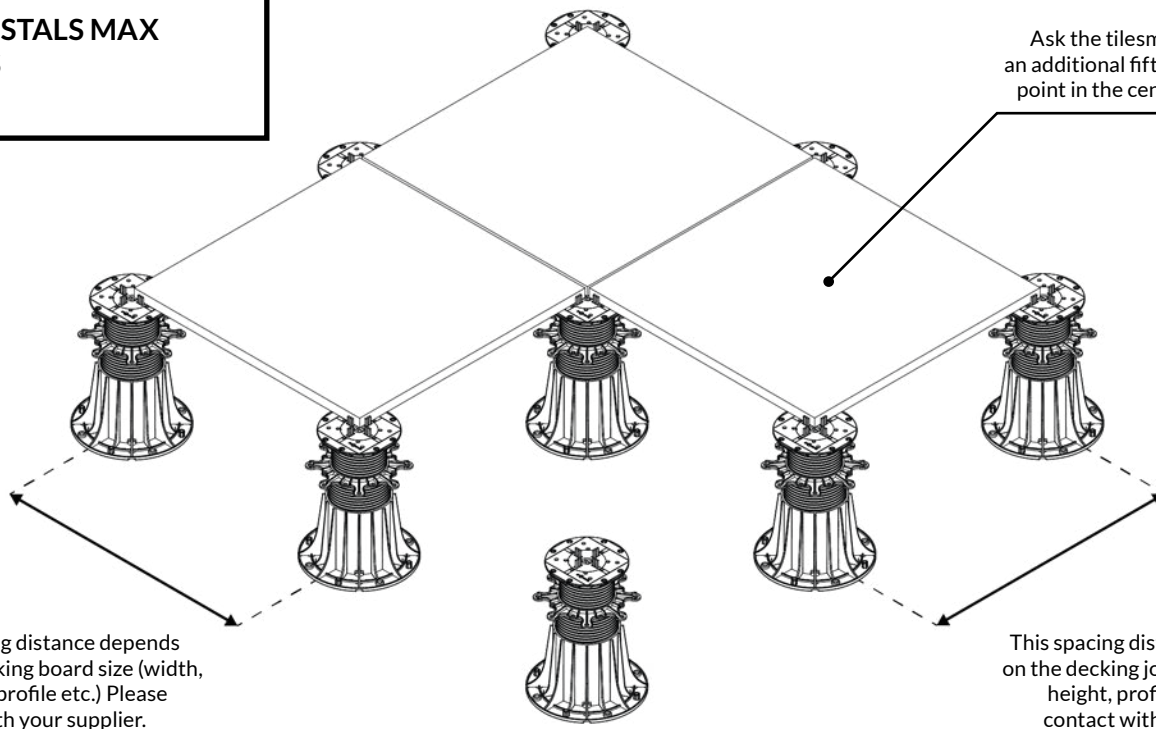


EXAMPLES OF PEDESTALS USAGE

PEDESTALS MAX DECKING



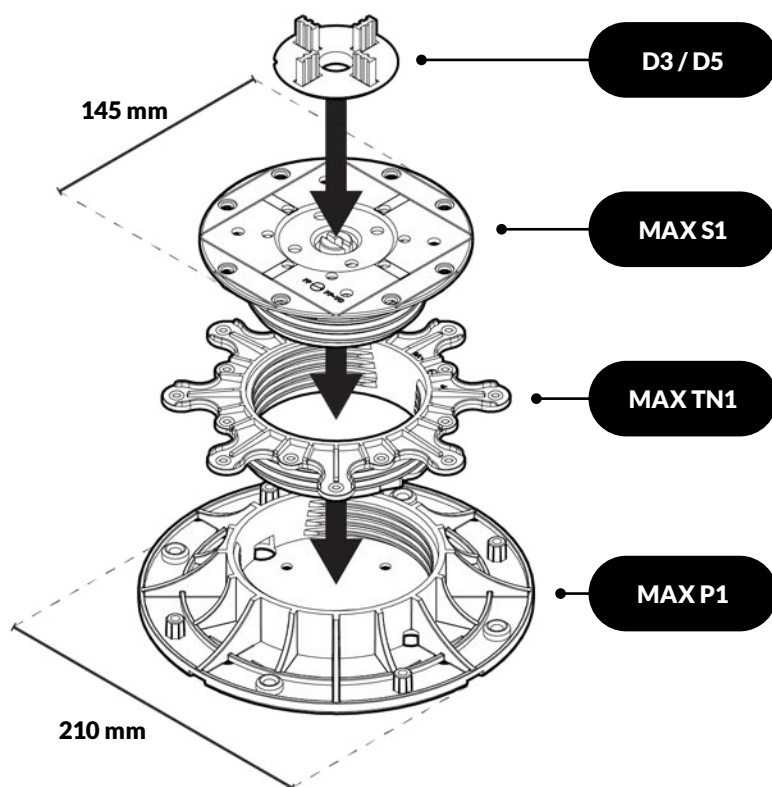
PEDESTALS MAX TILES



Ask the manufacturer of the tiles about the recommended support of the tiles on the adjustable pedestals.

DIMENSIONS OF THE ELEMENTS

ADJUSTABLE PEDESTALS MAX 45 - 75 MM



Gap disc 3 or 5 mm

code: D3 / D5

External dimensions:

Width: 65 mm

Length: 65 mm

Height: 22 mm

Screw MAX S1

code: MAX S1

External dimensions:

Width: 145 mm

Length: 145 mm

Height: 40,5 mm

Screw-ring MAX TN1

code: MAX TN1

External dimensions:

Width: 185 mm

Length: 185 mm

Height: 34,5 mm

Base MAX P1

code: MAX P1

External dimensions:

Width: 210 mm

Length: 210 mm

Height: 32 mm

Adjustable pedestals

MAX 045-075

code: MAX 045-075

Material: PP

Temperature range: from -20 °C to 65 °C

Capacity of the set: to 1500 kg*

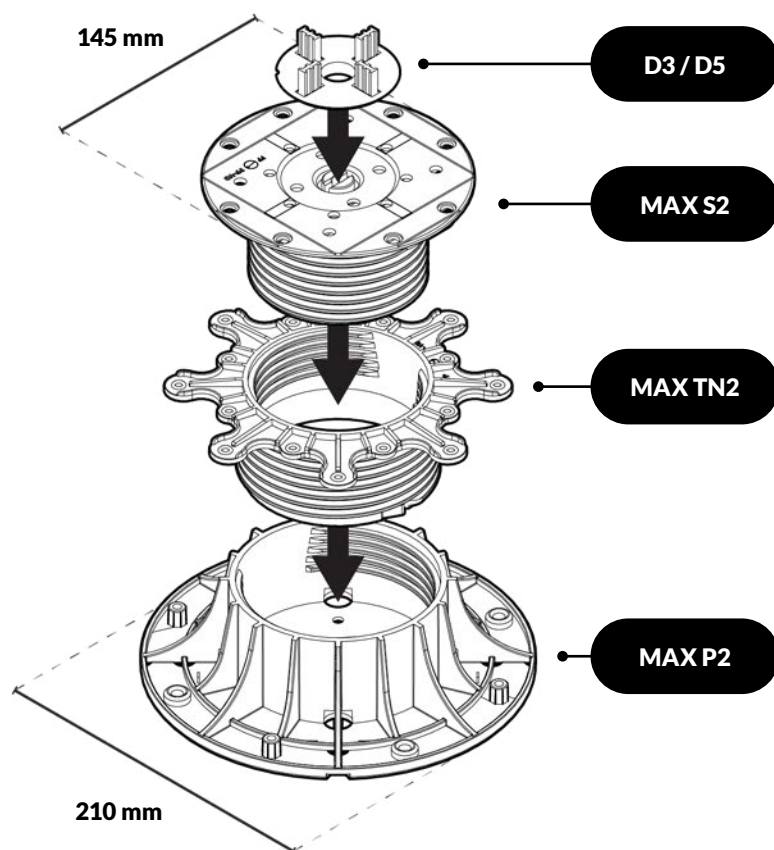
(* details of the load capacity in the MAX technical specification)

Height adjustment range:

45 - 75 mm ($1 \frac{3}{4}$ " - $2 \frac{15}{16}$ ")

DIMENSIONS OF THE ELEMENTS

ADJUSTABLE PEDESTALS MAX 75 - 150 MM



Gap disc 3 or 5 mm

code: D3 / D5

External dimensions:

Width: 65 mm

Length: 65 mm

Height: 22 mm

Screw MAX S2

code: MAX S2

External dimensions:

Width: 145 mm

Length: 145 mm

Height: 68 mm

Screw-ring MAX TN2

code: MAX TN2

External dimensions:

Width: 185 mm

Length: 185 mm

Height: 64,5 mm

Base MAX P2

code: MAX P2

External dimensions:

Width: 210 mm

Length: 210 mm

Height: 62 mm

Adjustable pedestals

MAX 075-150

code: MAX 075-150

Material: PP

Temperature range: from -20 °C to 65 °C

Load capacity of the set: to 1500 kg*

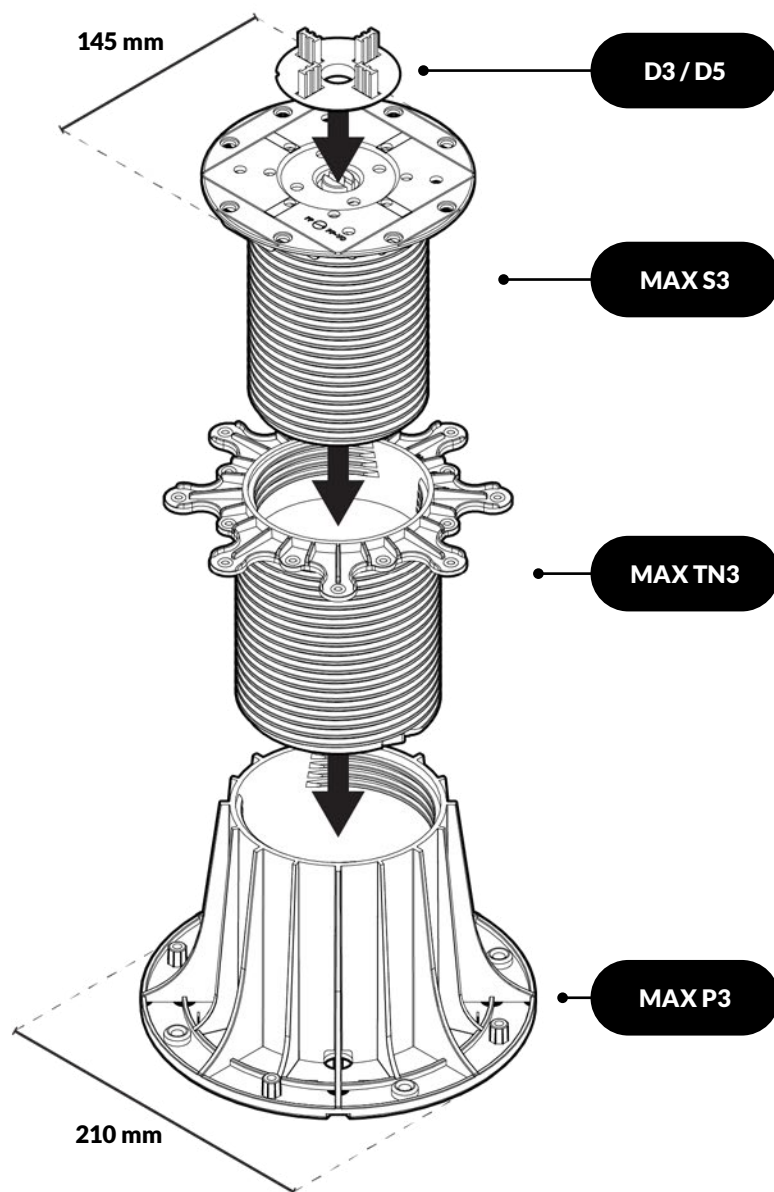
(* details of the load capacity in the technical specification MAX)

Height adjustment range:

75 - 150 mm ($2 \frac{15}{16}$ " - $5 \frac{7}{8}$ ")

DIMENSIONS OF THE ELEMENTS

ADJUSTABLE PEDESTALS MAX 150 - 350 MM



Gap disc 3 or 5 mm

code: D3 / D5

External dimensions:
Width: 65 mm
Length: 65 mm
Height: 22 mm

Screw MAX S3

code: MAX S3

External dimensions:
Width: 145 mm
Length: 145 mm
Height: 145 mm

Screw-ring MAX TN3

code: MAX TN3

External dimensions:
Width: 185 mm
Length: 185 mm
Height: 138 mm

Base MAX P3

code: MAX P3

External dimensions:
Width: 210 mm
Length: 210 mm
Height: 132 mm

Adjustable pedestals

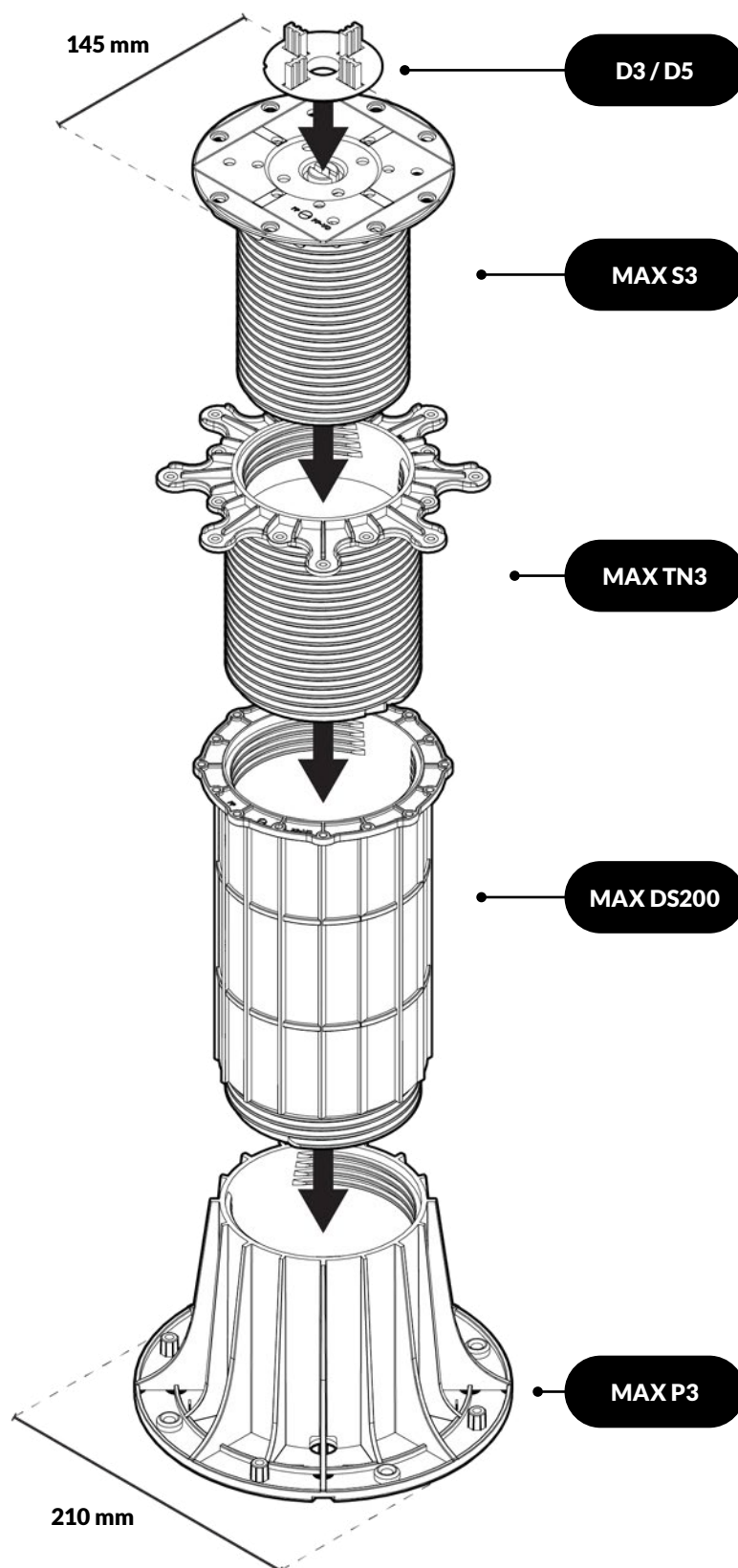
MAX 150-350

code: MAX 150-350

Material: PP
Temperature range: from -20 °C to 65 °C
Load capacity of the set: to 1500 kg*
(* details of the load capacity in the technical specification MAX)
Height adjustment range:
150 - 350 mm ($5 \frac{7}{8}$ " - $13 \frac{3}{4}$ ")

DIMENSIONS OF THE ELEMENTS

ADJUSTABLE PEDESTALS MAX 350 - 550 MM



Gap disc 3 or 5 mm code: D3 / D5

External dimensions:
Width: 65 mm
Length: 65 mm
Height: 22 mm

Screw MAX S3 code: MAX S3

External dimensions:
Width: 145 mm
Length: 145 mm
Height: 145 mm

Screw-ring MAX TN3 code: MAX TN3

External dimensions:
Width: 185 mm
Length: 185 mm
Height: 138 mm

Height coupler code: MAX DS200

External dimensions:
Width: 144 mm
Length: 144 mm
Height: 225 mm

Base MAX P3 code: MAX P3

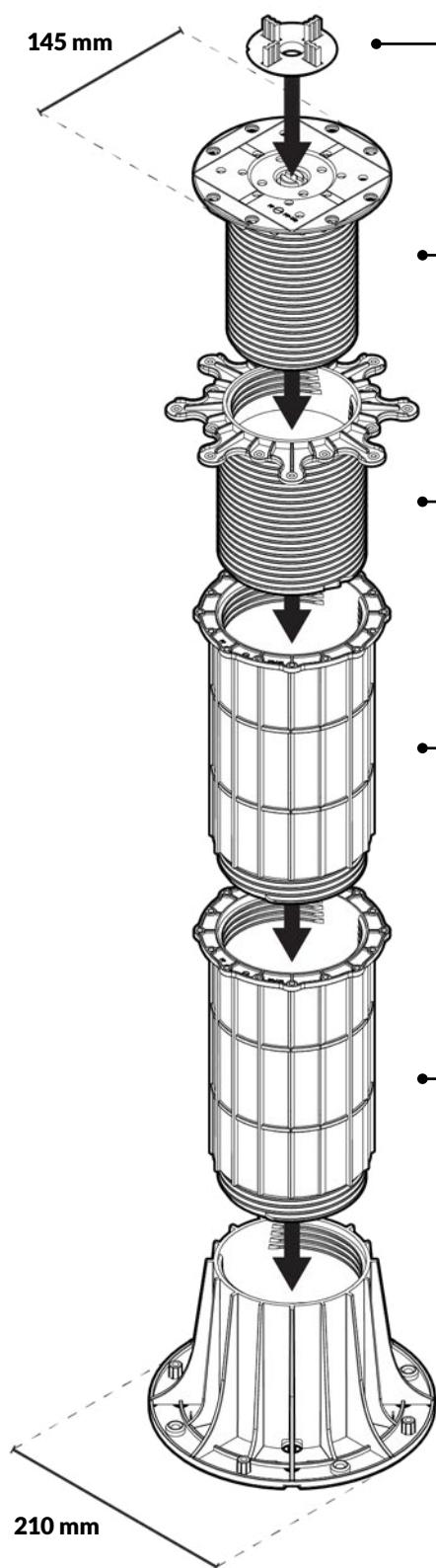
External dimensions:
Width: 210 mm
Length: 210 mm
Height: 132 mm

Adjustable pedestals MAX 350-550 code: MAX 350-550

Material: PP
Temperature range: from -20 °C to 65 °C
Load capacity of the set: to 1500 kg*
(* details of the load capacity in the technical specification MAX)
Height adjustment range:
350 - 550 mm (13 ³/₄" - 21 ⁵/₈")

DIMENSIONS OF THE ELEMENTS

ADJUSTABLE PEDESTALS MAX 550 - 750 MM



D3 / D5

Gap disc 3 or 5 mm

code: D3 / D5

External dimensions:
Width: 65 mm
Length: 65 mm
Height: 22 mm

MAX S3

Screw MAX S3

code: MAX S3

External dimensions:
Width: 145 mm
Length: 145 mm
Height: 145 mm

MAX TN3

Screw-ring MAX TN3

code: MAX TN3

External dimensions:
Width: 185 mm
Length: 185 mm
Height: 138 mm

MAX DS200

Height coupler 2 pcs.

code: MAX DS200

External dimensions:
Width: 144 mm
Length: 144 mm
Height: 225 mm

MAX DS200

Base MAX P3

code: MAX P3

External dimensions:
Width: 210 mm
Length: 210 mm
Height: 132 mm

MAX P3

Adjustable pedestals

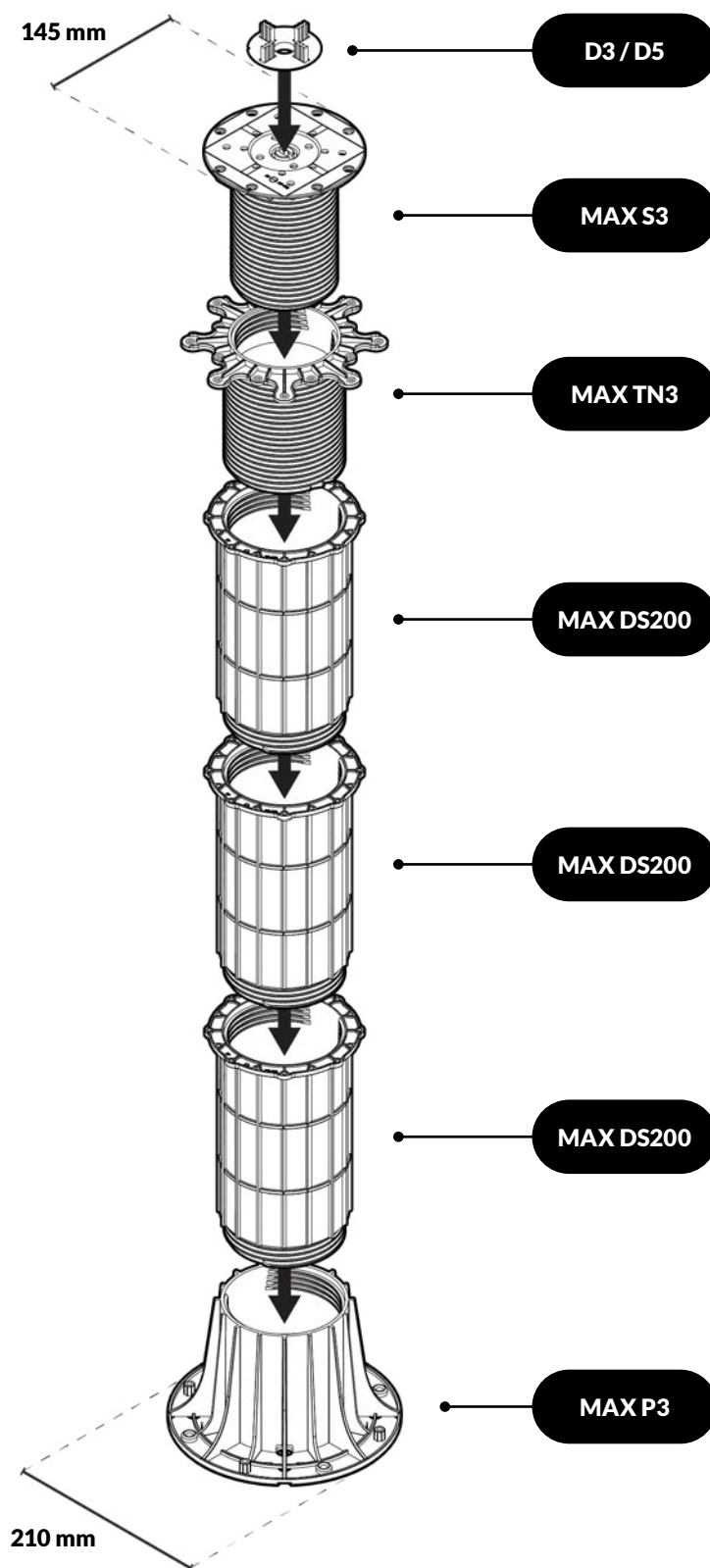
MAX 550-750

kod: MAX 550-750

Material: PP
Temperature range: from -20 °C to 65 °C
Load capacity of the set: to 1500 kg*
(* details of the load capacity in the technical specification MAX)
Height adjustment range:
550 - 750 mm (21 5/8" - 29 1/2")

DIMENSIONS OF THE ELEMENTS

ADJUSTABLE PEDESTALS MAX 750 - 950 MM



Gap disc 3 or 5 mm code: D3 / D5

External dimensions:
Width: 65 mm
Length: 65 mm
Height: 22 mm

Screw MAX S3 code: MAX S3

External dimensions:
Width: 145 mm
Length: 145 mm
Height: 145 mm

Screw-ring MAX TN3 code: MAX TN3

External dimensions:
Width: 185 mm
Length: 185 mm
Height: 138 mm

Height coupler 3 pcs. code: MAX DS200

External dimensions:
Width: 144 mm
Length: 144 mm
Height: 225 mm

Base MAX P3 code: MAX P3

External dimensions:
Width: 210 mm
Length: 210 mm
Height: 132 mm

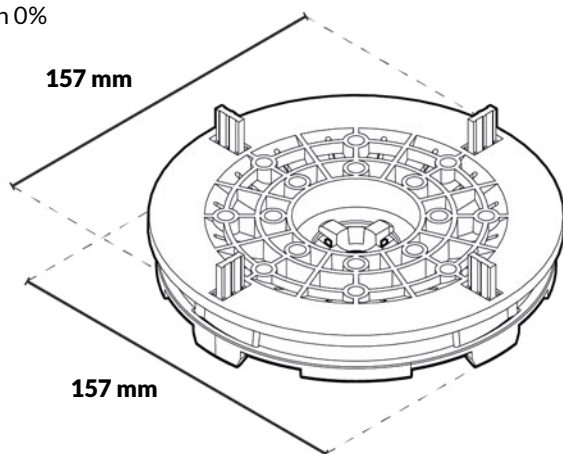
Adjustable pedestals MAX 750-950 code: MAX 750-950

Material: PP
Temperature range: from -20 °C to 65 °C
Load capacity of the set: to 1500 kg*
(* details of the load capacity in the technical specification MAX)
Height adjustment range:
750 - 950 mm (29 1/2" - 37 3/8")

DIMENSIONS OF THE ELEMENTS

SELF LEVELING HEAD

Neutral position 0%



Self leveling head

code: AKCW-LE145

External dimensions:

Width: 157 mm

Length: 157 mm

Height: 36,5 mm

Material: PP

Temperature range: from -20 °C to 65 °C

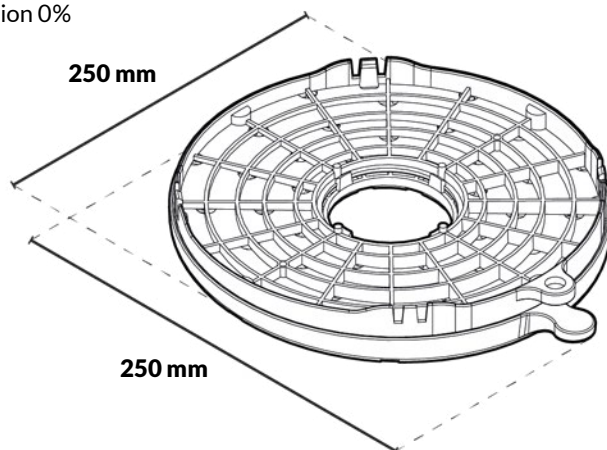
Height adjustment:

smooth from 0% to 6%

Recommended for use when the ground under the adjustable pedestals has a slope. Leave the application requirement to the contractor or architect's decision.

SLOPE CORRECTOR

Neutral position 0%



Slope corrector

code: MAX-SC

External dimensions:

Width: 220 mm

Length: 250 mm

Height: 30,5 mm

Material: PP

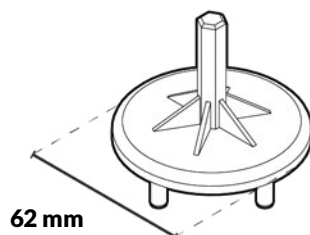
Temperature range: from -20 °C to 65 °C

Height adjustment:

smooth from 0% to 8% (manual)

Required for use on sloped adjustable pedestals greater than 350 mm.

SCREWDRIVER BIT



Screwdriver bit

code: AKCW-PPK

External dimensions:

Width: 62 mm

Length: 62 mm

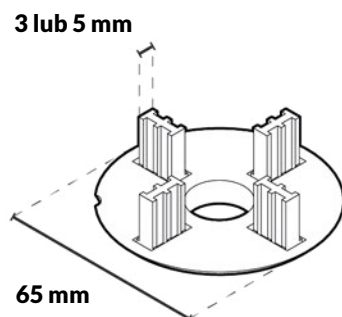
Height: 57 mm

Material: PAFG

Temperature range: from -20 °C to 65 °C

DIMENSIONS OF THE ELEMENTS

GAP SPACER DISC



Gap disc

code: AKCW-D3 / AKCW-D5

External dimensions:

Width: 65 mm

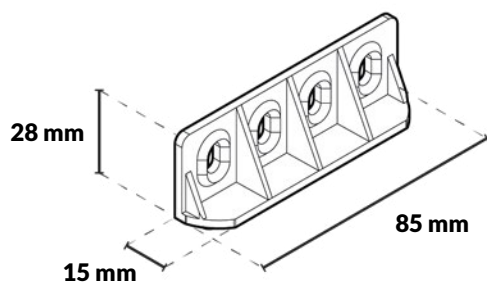
Length: 65 mm

Height: 22 mm

Material: PP

Temperature range: from -20 °C to 65 °C

JOIST ADAPTER



Joists adapter

code: AKCW-AD

External dimensions:

Width: 15 mm

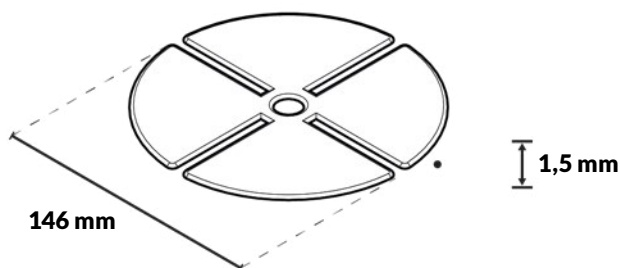
Length: 85 mm

Height: 32,5 mm

Material: PP

Temperature range: from -20 °C to 65 °C

RUBBER SHIM



Rubber shim

code: AKCW-SH145

External dimensions:

Width: 146 mm

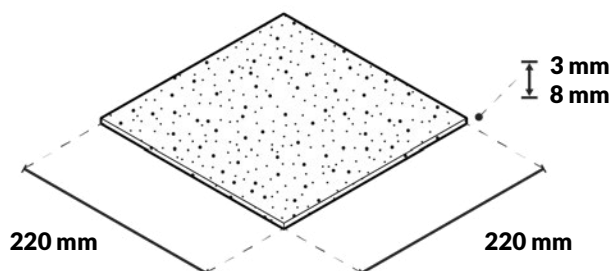
Length: 146 mm

Height: 1,5 mm

Material: Rubber

Temperature range: from -20 °C to 65 °C

SBR RUBBER GRANULATE PAD



Rubber granules pad

code: AKCW-SBR220X220X3

AKCW-SBR220X220X8

External dimensions:

Width: 220 mm

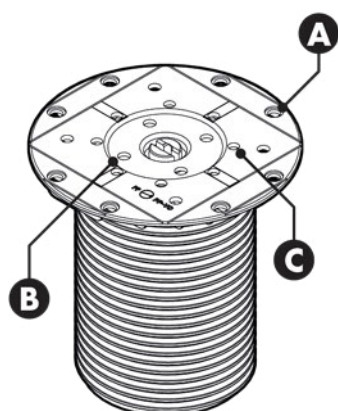
Length: 220 mm

Height: 3 mm

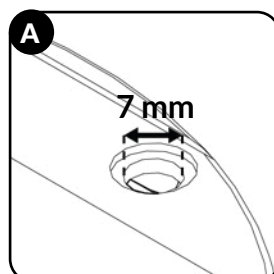
Material: Rubber granules

Temperature range: from -20 °C to 65 °C

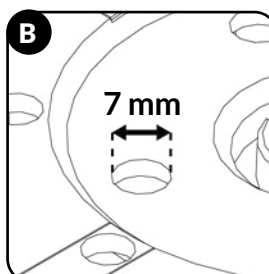
DIMENSIONS OF THE DETAILS



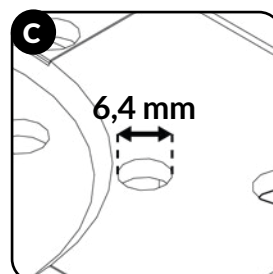
▼ Screw MAX S1 / S2 / S3



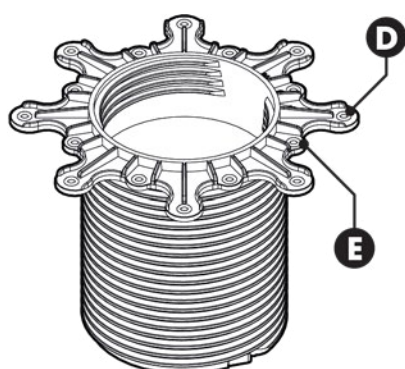
Hole for attaching a metal threaded sleeve



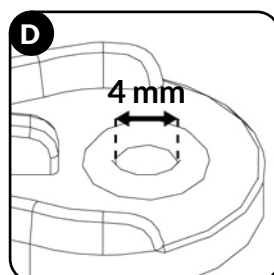
Screwdriver bit adjustment holes



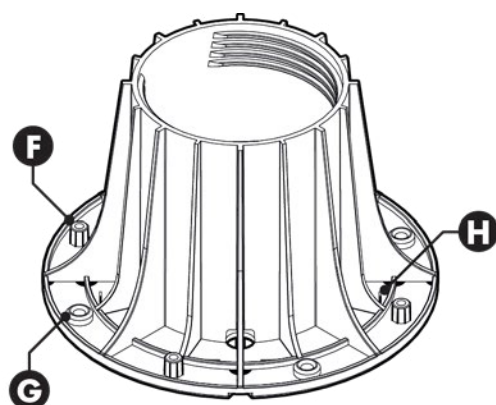
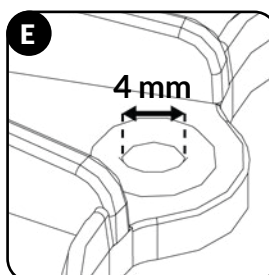
Holes for mounting joint spacers



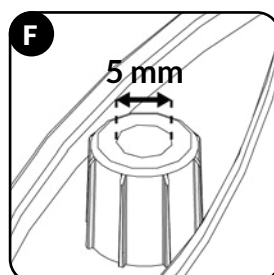
▼ Screw-ring MAX TN1 / TN2 / TN3



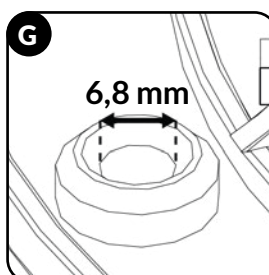
Holes for attaching the tension wire



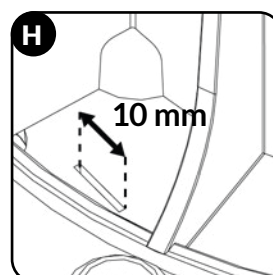
▼ Base MAX P1 / P2 / P3



Hole for attaching crossbeams



Hole for fixing to the ground



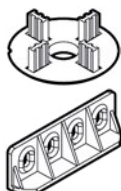
Hole for attaching the bottom clip to the masking clip

ASSEMBLING THE SETS

MAX 045-075

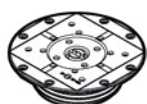
from 45 mm to 75 mm
 $1 \frac{3}{4}'' - 2 \frac{15}{16}''$

The combination of the MAX P1 base, screw-ring MAX TN1 and ring MAX S1 forms an adjustable pedestals MAX with a height range from 45 to 75 mm.



Gap disc or
joists adapter

+



Screw MAX S1

+



Screw-ring
MAX TN1

+



Base MAX P1

=

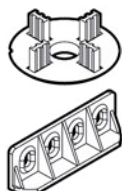


MAX 045-075

MAX 075-150

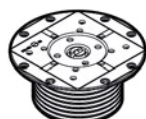
from 75 mm to 150 mm
 $2 \frac{15}{16}'' - 5 \frac{7}{8}''$

The combination of the MAX P2 base, screw-ring MAX TN2 and ring MAX S2 forms an adjustable pedestals MAX with a height range from 75 to 150 mm.



Gap disc or
joists adapter

+



Screw MAX S2

+



Screw-ring
MAX TN2

+



Base MAX P2

=

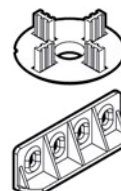


MAX 075-150

MAX 150-350

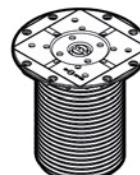
from 150 mm to 350 mm
 $5 \frac{7}{8}'' - 13 \frac{3}{4}''$

The combination of the MAX P3 base, screw-ring MAX TN3 and ring MAX S3 forms an adjustable pedestals MAX with a height range from 150 to 350 mm.



Gap disc or
joists adapter

+



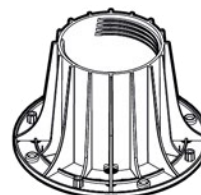
Screw MAX S3

+



Screw-ring
MAX TN3

+



Base MAX P3

=



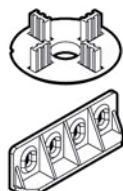
MAX 150-350

ASSEMBLING THE SETS

MAX 350-550

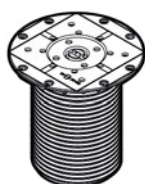
from 350 mm to 550 mm
13 3/4" - 21 5/8"

The combination of the MAX P3 base, screwing MAX TN3, height coupler and screw MAX S3 forms an adjustable pedestals MAX with a height range from 350 to 550 mm.



Gap disc or
joists adapter

+



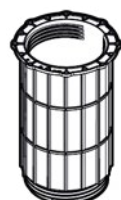
Screw MAX S3

+



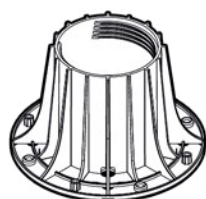
Screw-ring
MAX TN3

+



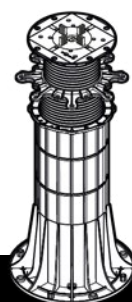
Height
coupler
MAX DS 200

+



Base MAX P1

=

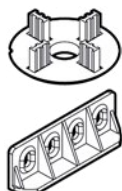


MAX 350-550

MAX 550-750

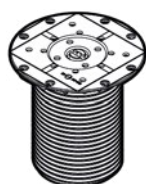
from 550 mm to 750 mm
21 5/8" - 29 1/2"

The combination of the MAX P3 base, screwing MAX TN3, two height coupler and screw MAX S3 forms an adjustable pedestals MAX with a height range from 550 to 750 mm.



Gap disc or
joists adapter

+



Screw MAX S3

+



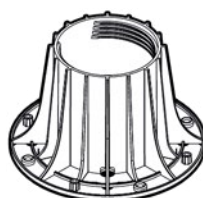
Screw-ring
MAX TN3

+



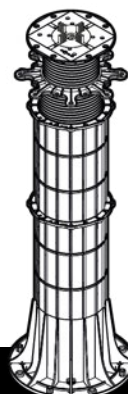
2 x Height
coupler
MAX DS200

+



Base MAX P3

=

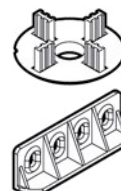


MAX 550-750

MAX 750-950

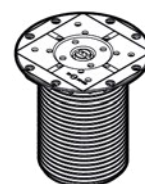
from 750 mm to 950 mm
29 1/2" - 37 3/8"

The combination of the MAX P3 base, screwing MAX TN3, three height coupler and screw MAX S3 forms an adjustable pedestals MAX with a height from 750 to 950 mm.



Gap disc or
joists adapter

+



Screw MAX S3

+



Screw-ring
MAX TN3

+



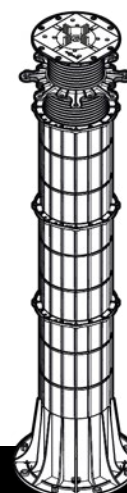
3 x Height
coupler
MAX DS200

+



Base MAX P3

=

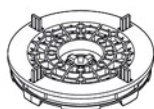


MAX 750-950

ASSEMBLING THE SETS

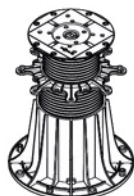
Adjustable pedestals MAX with self leveling head

The combination of any adjustable pedestals MAX with self leveling head enables self-leveling of the terrace under the influence of the weight of the boards on slopes with an inclination from 0% to 6%.



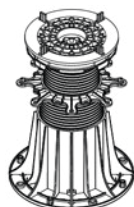
Self leveling head AKCW-LE145

+



Adjustable pedestals MAX
(without gap disc or joists adapter)

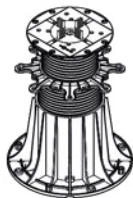
=



Automatic regulation to 6%

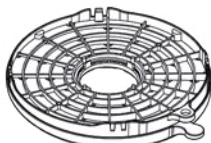
Adjustable pedestals MAX with slope corrector

The combination of any adjustable pedestals MAX with slope corrector makes it possible to use it on substrates with a slope from 0% to 8%.



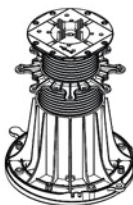
Adjustable pedestals MAX

+



Slope corrector MAX-SC

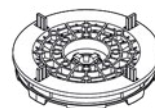
=



Manual regulation to 6%

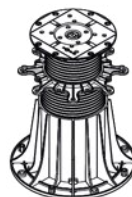
Adjustable pedestals MAX with self leveling head and slope corrector

The combination of any adjustable pedestals MAX with self leveling head and slope corrector makes it possible to use it on substrates with a slope from 0% to 14%.



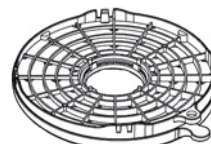
Self leveling head AKCW-LE145

+



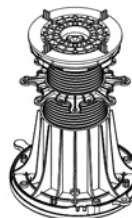
Adjustable pedestals MAX
(without gap disc or joists adapter)

+



Slope corrector MAX-SC

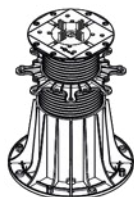
=



Semi-automatic regulation to 14%

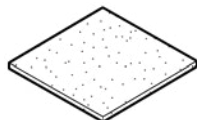
Acoustic isolation

When installing a terrace or floor on surfaces located above other rooms, it may require acoustic insulation. This applies in particular to residential and office spaces. An acoustic pad is intended for sensitive and hard surfaces without significant inclination.



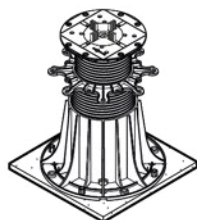
Adjustable pedestals MAX

+

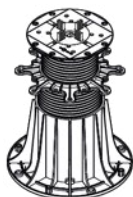


Rubber granulate pad

=

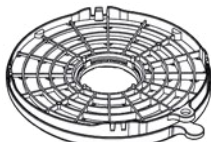


Soundproofing and safeting the adjustable pedestals



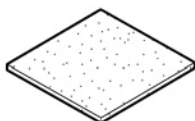
Adjustable pedestals MAX

+



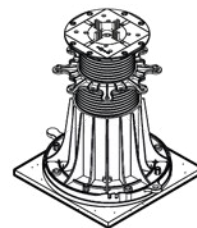
Slope corrector MAX-SC

+



Rubber granulate pad

=



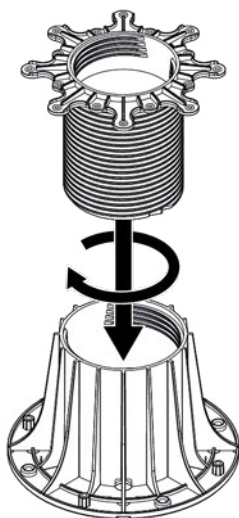
Additional soundproof and water membrane protection

Soundproofing and safeting the adjustable pedestals with slope corrector

JOINING THE PEDESTAL ELEMENTS

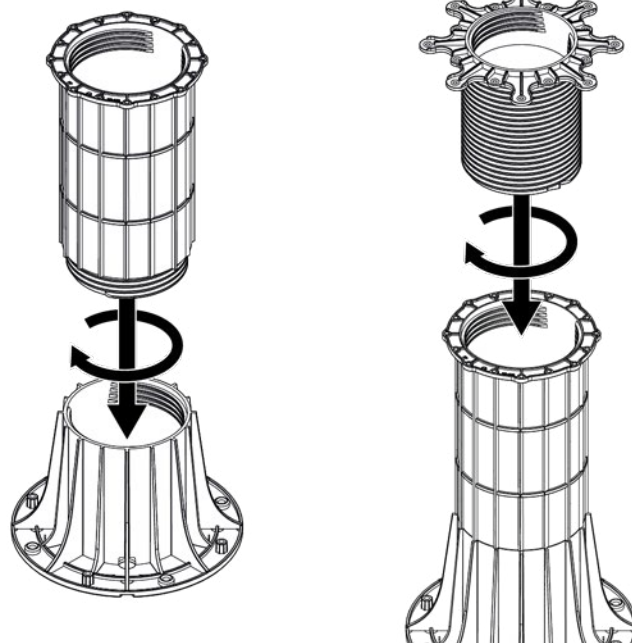
ADJUSTABLE PEDESTALS

1a



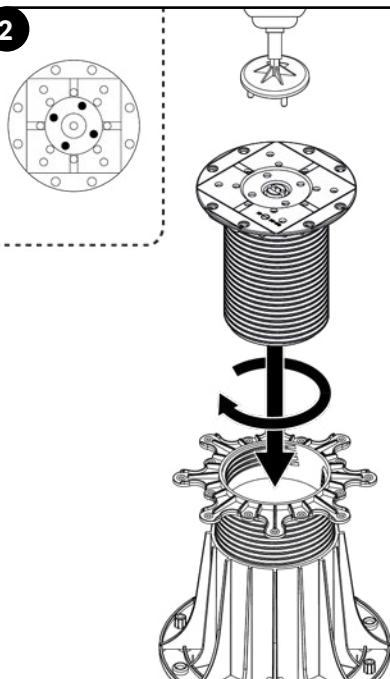
1a. Screw the screw-ring into the base (the adjustable pedestals are delivered to the customer in assembled form).

1b



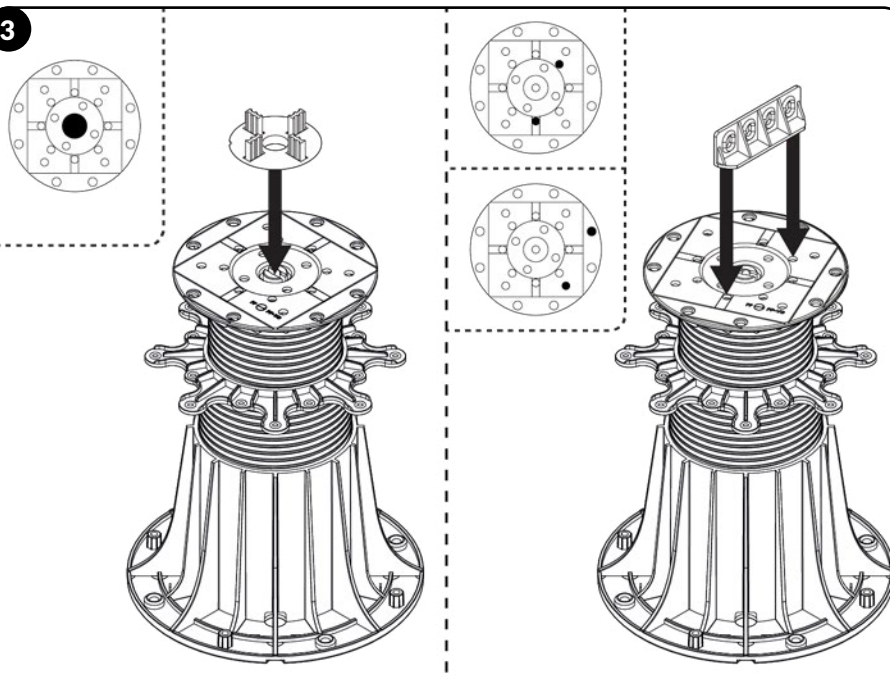
1b. In the case of adjustable pedestals MAX 350-550 and higher, first remove the screw and screw-ring. Screw in the height coupler. Re-thread the screw and screw-ring into the thread of the spacer sleeve.

2



2. Screw in the screw into the screw-ring. Use an optional screwdriver bit (more on page 32).

3

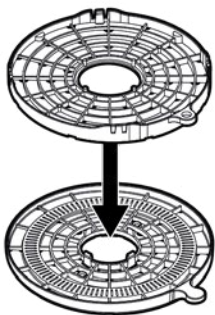


3. Depending on the type of terrace, insert a gap disc for a tiles terrace (more on p. 23) or an joists adapter for a wood & wpc decking (more on p. 29) in the screw.

JOINING THE PEDESTAL ELEMENTS

SLOPE CORRECTOR

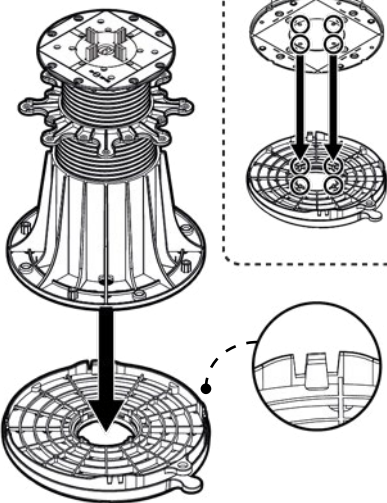
A1



CLICK

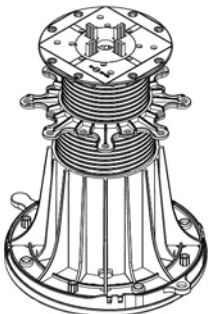
A1. Put the top element of the slope corrector on top of the bottom element. Press down to lock binding.

A2



A2. Put the base of the adjustable pedestals on the slope corrector. Align the position of the slope corrector with the cutouts in the base to secure the snaps.

A3

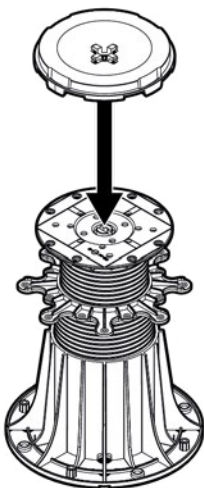


CLICK

A3. Press the adjustable pedestals to the slope corrector to lock the joint.

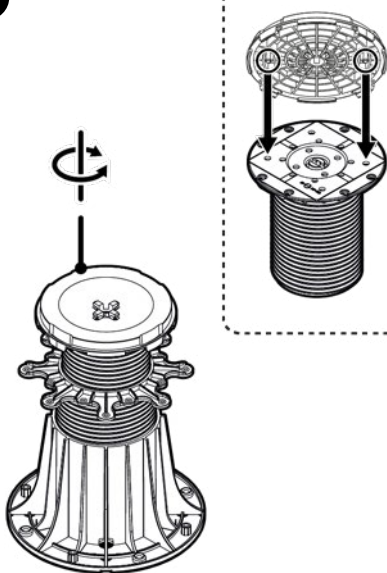
SELF LEVELING HEAD

B1



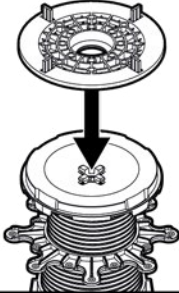
B1. Put the bottom element of the self-leveling head on the adjustable pedestals screws.

B2



B2. Rotate the element so that the pins on the bottom fit into the holes in the screw. Press down to lock binding.

B3



CLICK

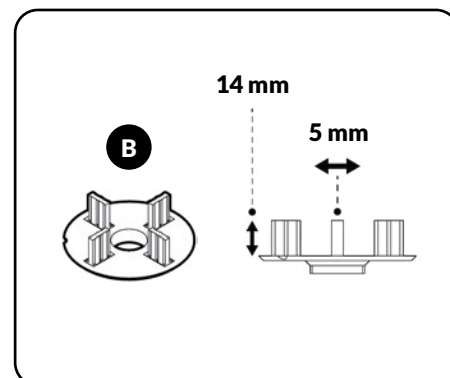
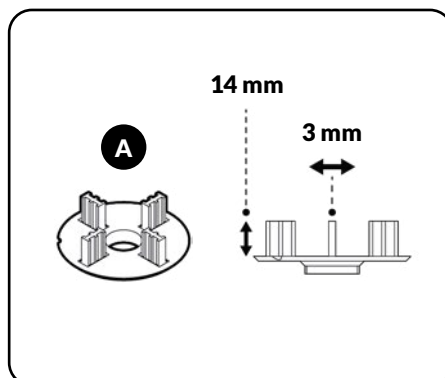
B3. Place the top piece of the self-leveling head on the bottom element and snap it into place.

INSTALLATION ON ADJUSTABLE PEDESTALS

TILES LAYING

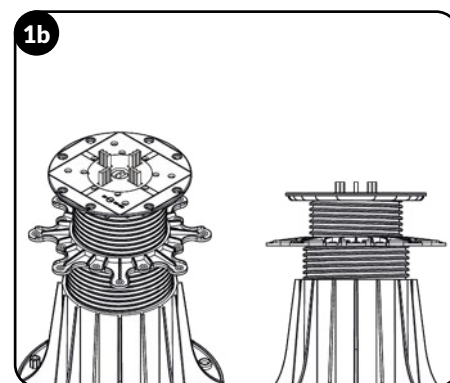
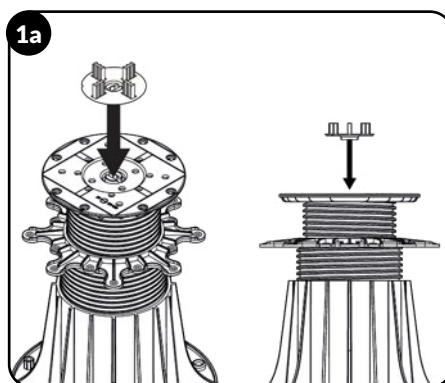
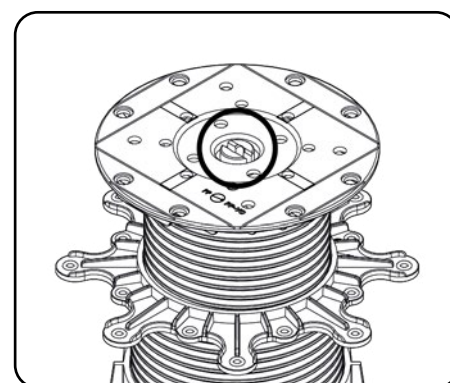
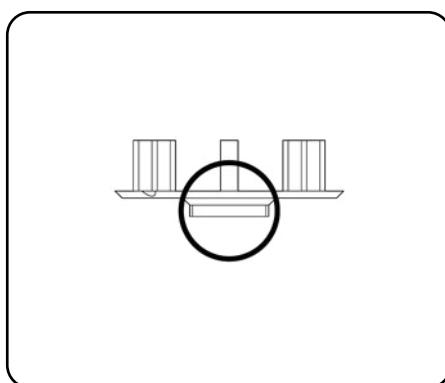
Gap discs

For montage tiles on adjustable pedestals use gap discs. Gap discs are used to mark the 3 mm wide (ill. A) and 5 mm (ill. B) installation gap (expansion gap). They are compatible with all adjustable pedestals MAX system.



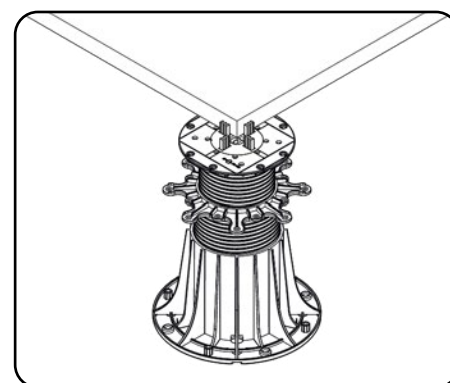
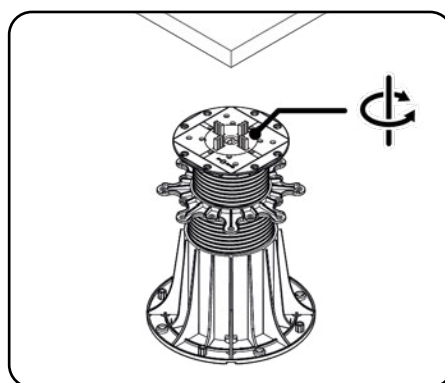
Gap disc insert

Put the gap disc into the screw hole.



Gap disc setup

The correct direction in relation to the tiles can be set by turning the disc. The tiles are montage with corner pieces on the adjustable pedestals.



INSTALLATION ON ADJUSTABLE PEDESTALS

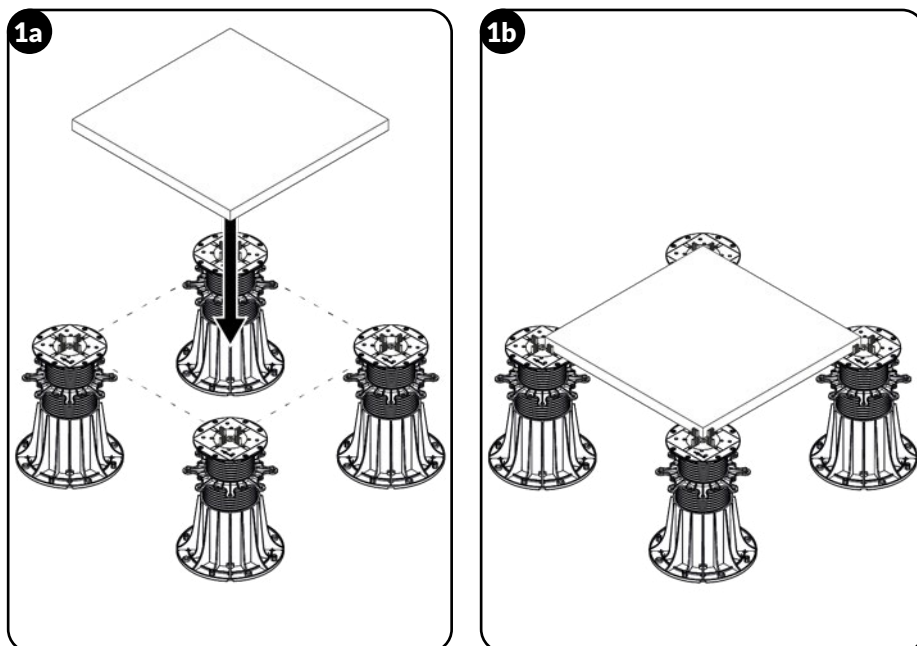
TILES LAYING

Tiles laying

The tiles is placed by laying it on the adjustable pedestals. As standard, the adjustable pedestals are located in the corners of the tiles.

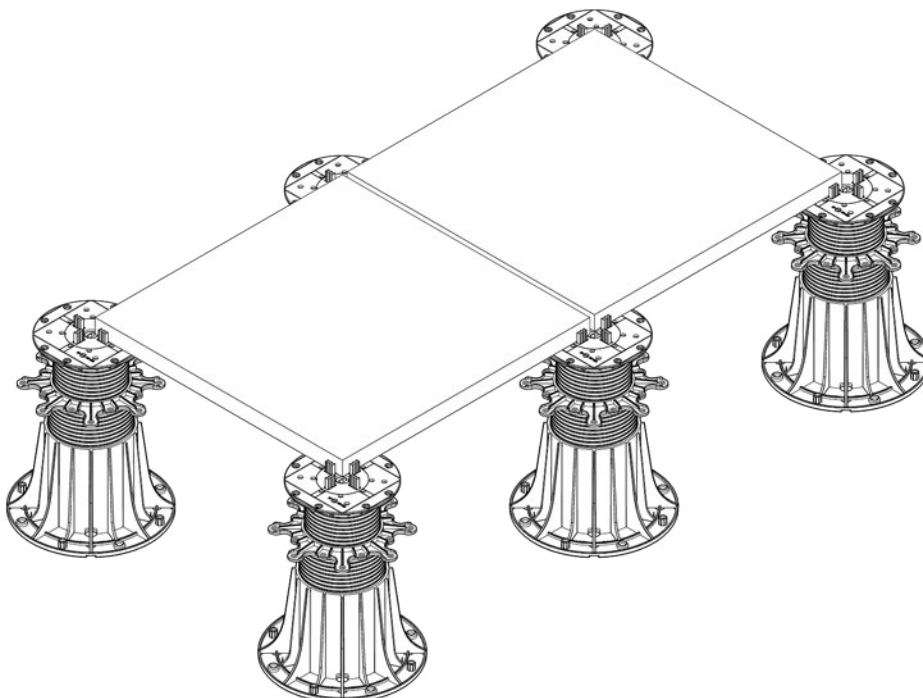
ATTENTION

Before laying the tiles, it should be checked whether the manufacturer allows them to be supported with pedestals and in how many support places.



Arrangement adjustable pedestals

Before starting the construction of the terrace, it is important to make a plan for the arrangement of the Adjustable pedestals. More information on page 49.



INSTALLATION ON ADJUSTABLE PEDESTALS

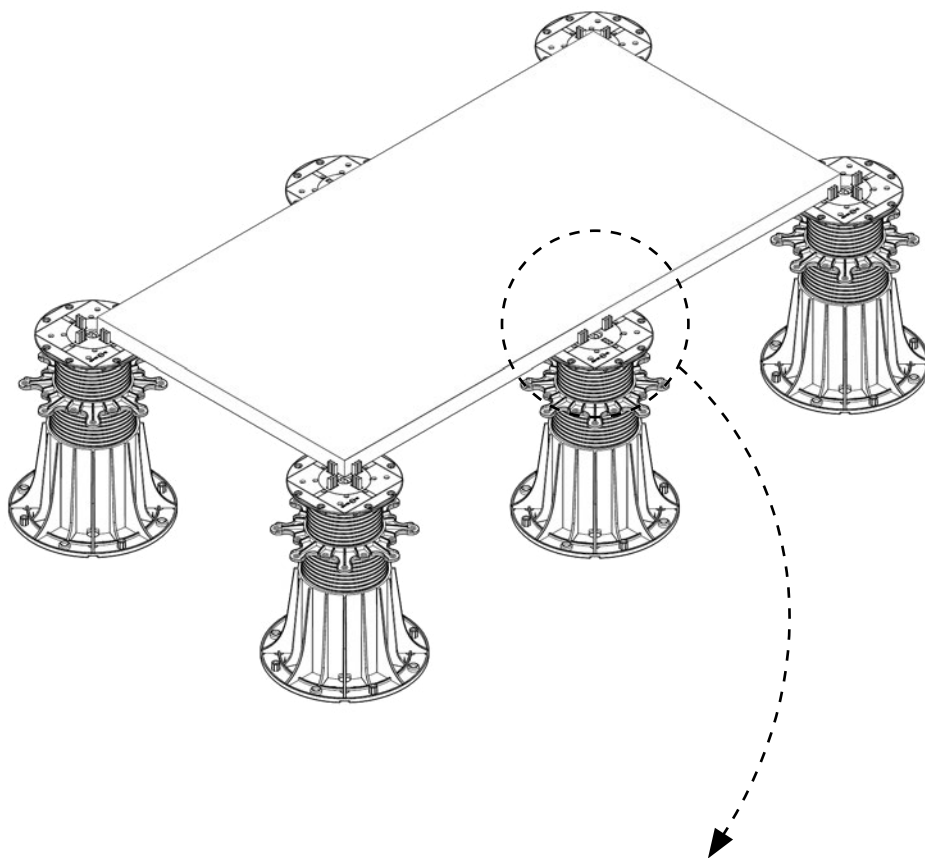
TILES LAYING

Long tiles

Long tiles may require additional support on the long edges. To position the adjustable pedestals on the edge of the tile, break two opposite spacers from the gap disc.

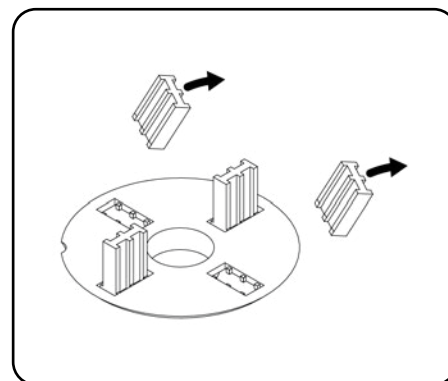
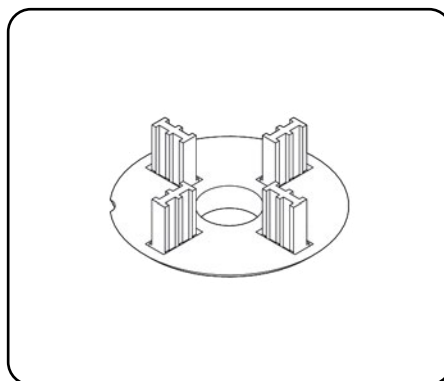
ATTENTION

Before laying the tiles, it should be checked whether the manufacturer allows them to be supported in points and in how many places.



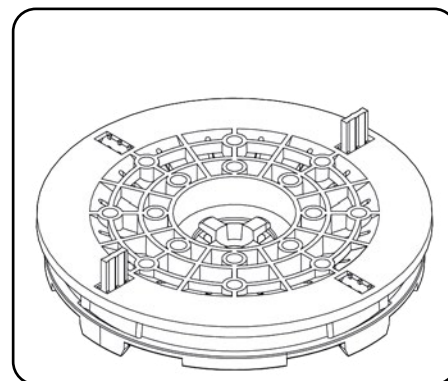
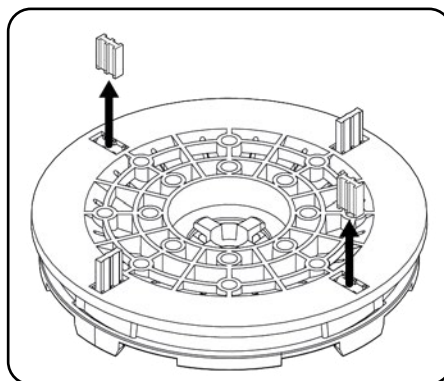
Breaking off distances from the gap disc

To prepare the gap disc for the adjustable pedestals at the edge of the tile, break off two opposite spacer tabs.



Breaking off distances from the self leveling head

To prepare the self leveling head for the adjustable pedestals located at the edge of the tile, break off two opposite spacers.

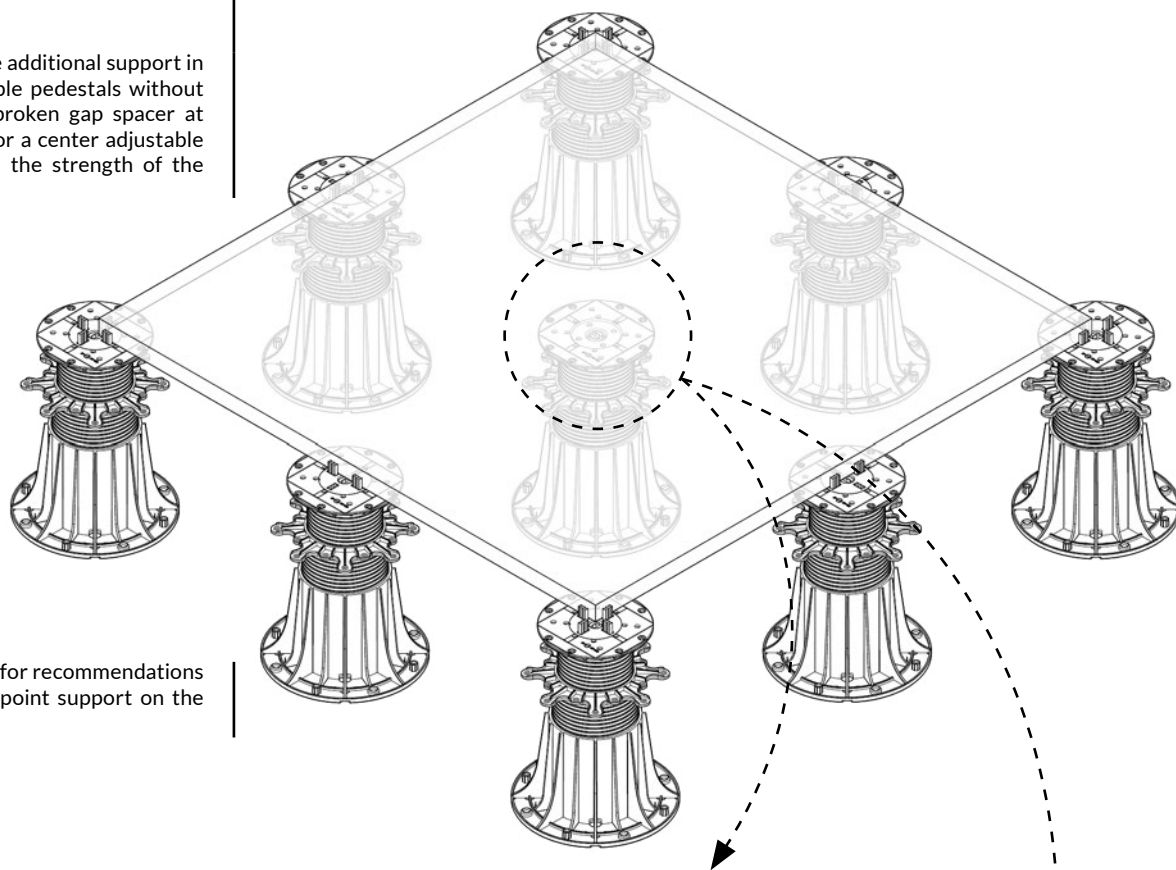


INSTALLATION ON ADJUSTABLE PEDESTALS

TILES LAYING

Large tiles

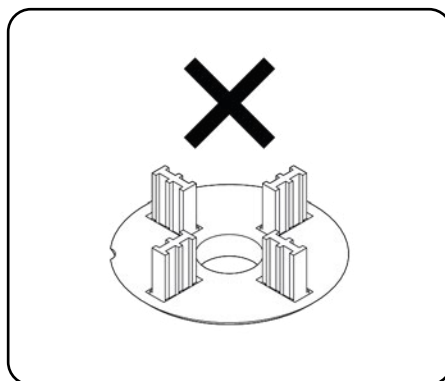
Large tiles may require additional support in the form of a adjustable pedestals without a gap disc and with broken gap spacer at the edges. The need for a center adjustable pedestals depends on the strength of the tiles.



Ask your tiles supplier for recommendations on laying panels with point support on the adjustable pedestals

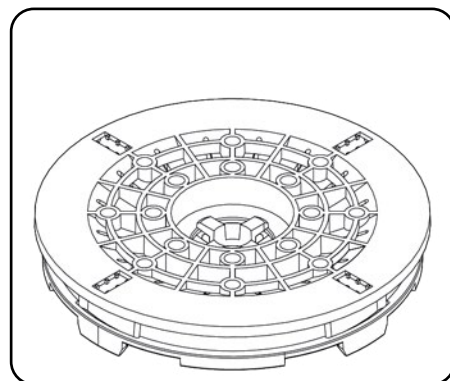
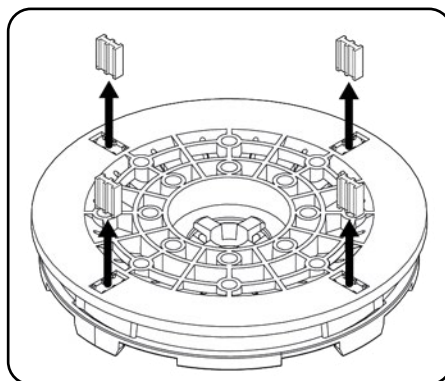
Adjustable pedestals under the tile

The adjustable pedestals located under the tile do not have gap spacers. A description of how to break off the gap spacers for adjustable pedestals on the board edges can be found on page 25.



Breaking off distances from the self leveling head

To prepare the self leveling head for the adjustable pedestals under the tile, break off four gap spacer.

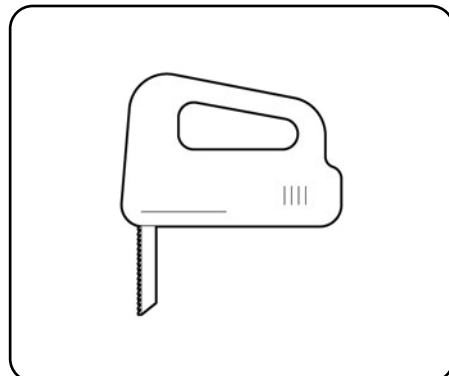
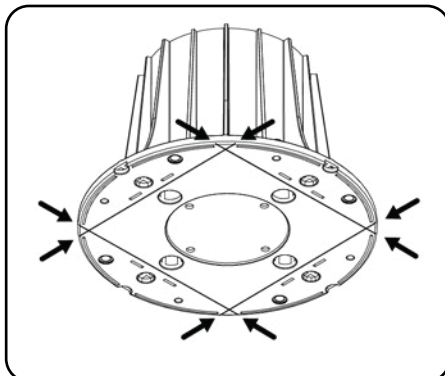


INSTALLATION ON ADJUSTABLE PEDESTALS

CUTTING THE BASE

If there is a need to reduce size of the base of the adjustable pedestals

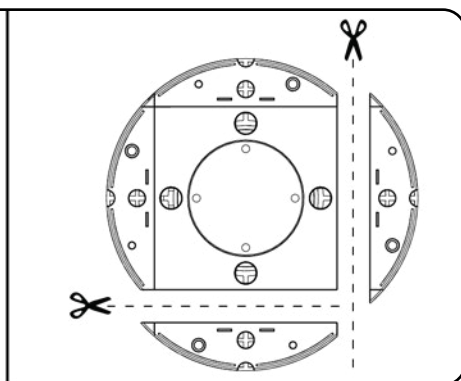
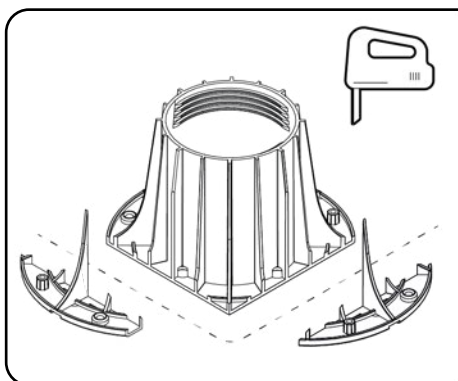
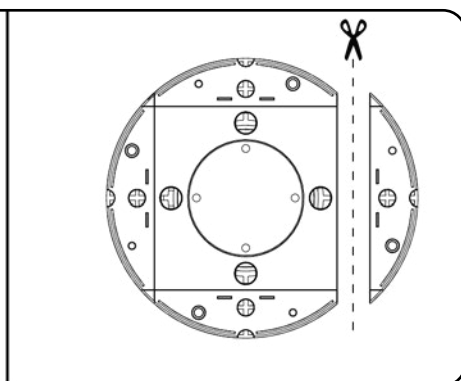
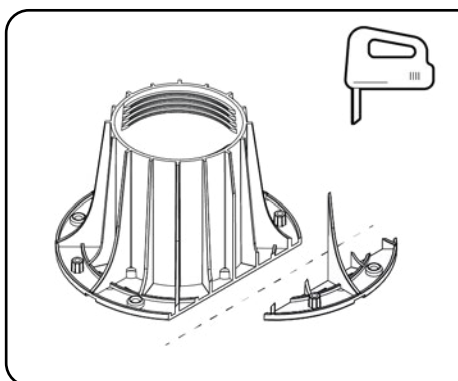
Each adjustable pedestals base has guidelines indicating where to trim the base. Use a jigsaw or saw.



Cut the base

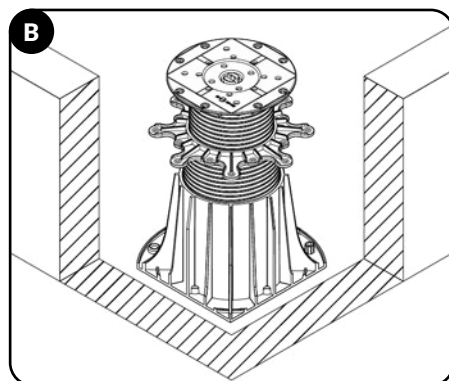
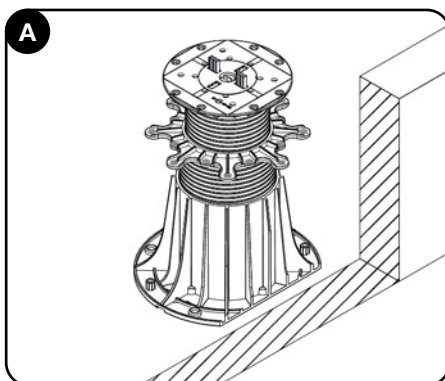
Sometimes it is required to bring the adjustable pedestals as close as possible to the edge of the terrace or corner for better support of tile or joist. In this case, cut the base of the adjustable pedestals.

Remember to round the sharp edges of the cutting base to avoid damaging the isolations or to use a rubber granulate pad under the adjustable pedestals.



Corner

Sample positioning of the adjustable pedestals with the cutting base along the wall (A) and in the corner (B).

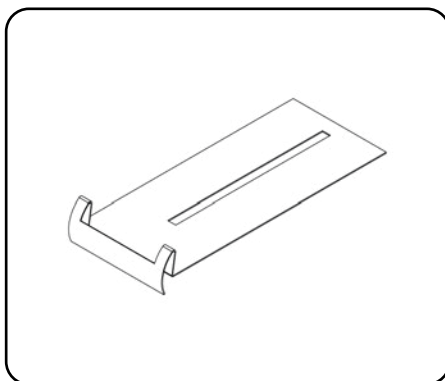


INSTALLATION ON ADJUSTABLE PEDESTALS

WALL PERIMETER GAP SPACER CLIPS

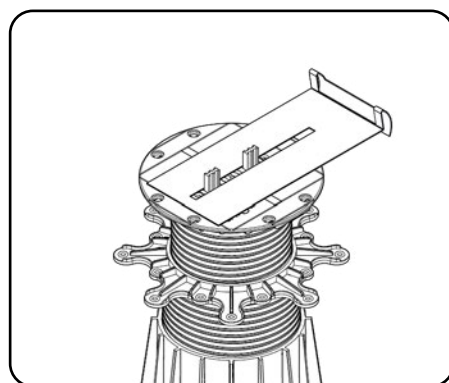
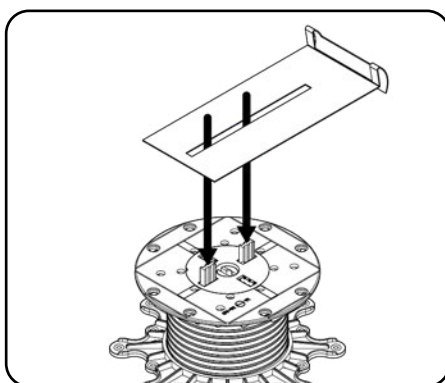
Up to wall clip

Use the up to wall clip when installing the tiles against the wall. It creates a distance gap between the wall and the tile.



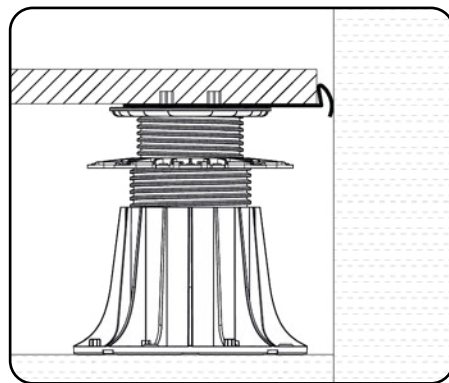
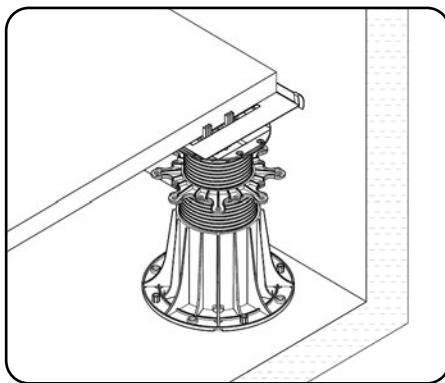
Montage up to wall clip

Use the up to wall clip when installing the tiles against the wall. It creates a distance gap between the wall and the tile.



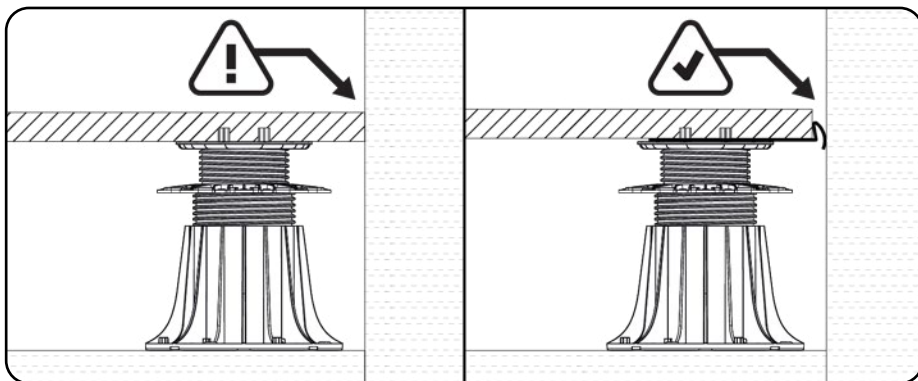
Perimeter gap

By pressing the clip against the wall, set the gap size from 4 to 12 mm.



Perimeter gap

We recommend using up to wall clips. A tile without an up to wall clip touches the wall and causes constant moisture.

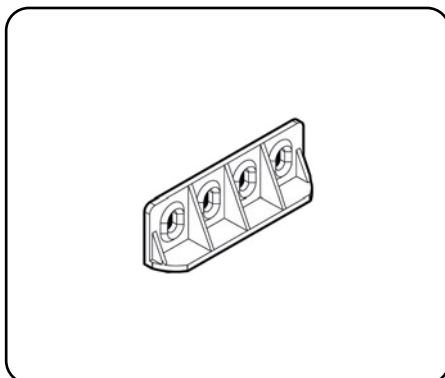


INSTALLATION ON ADJUSTABLE PEDESTALS

JOIST ASSEMBLY

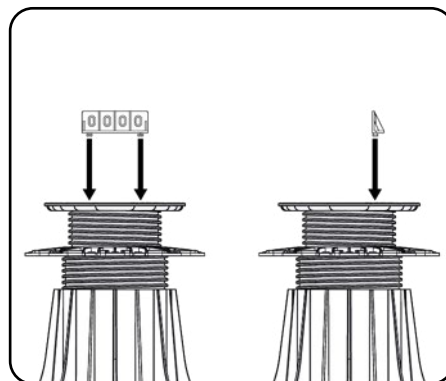
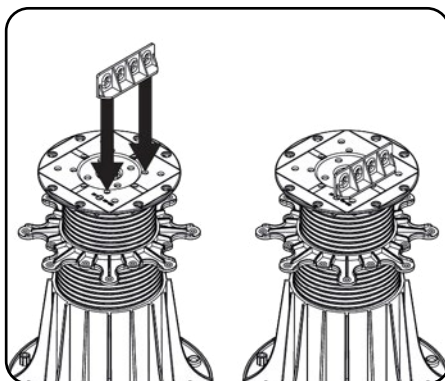
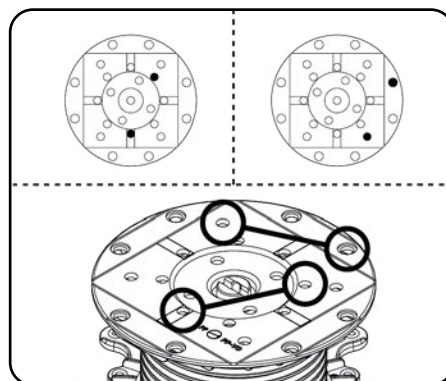
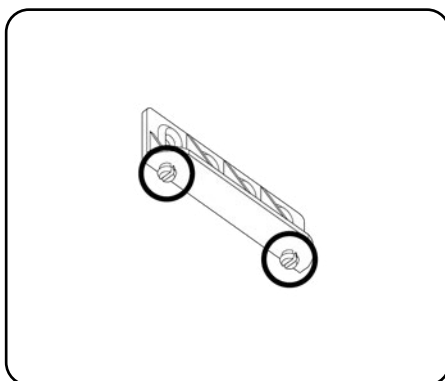
Joists assembly

For assembly joists on adjustable pedestals MAX use joists adapter instead gap spacer discs.



Adapter insert

Put the joist adapter in the screw holes with the flat side facing the inside of the adjustable pedestals.

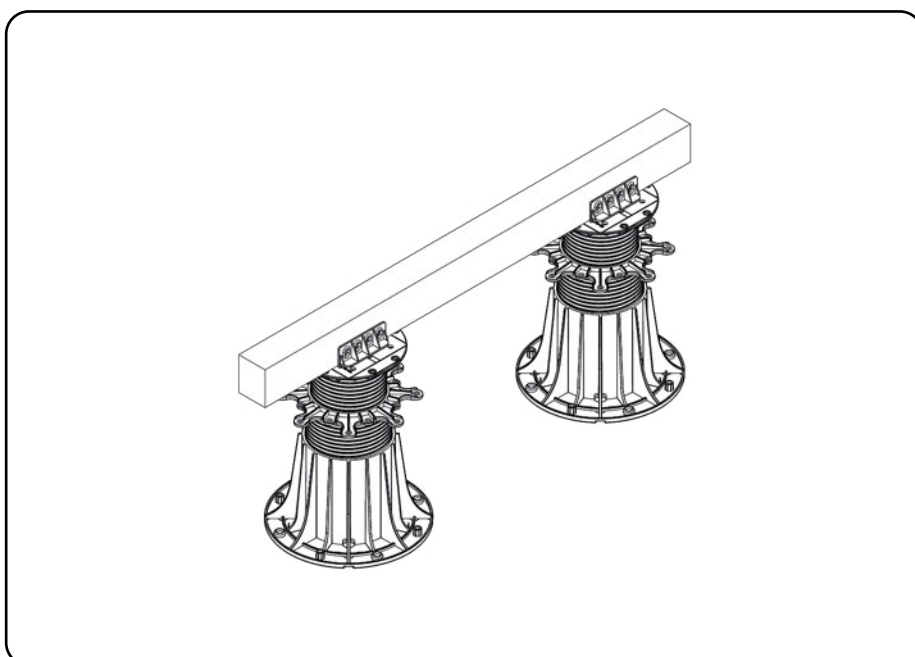
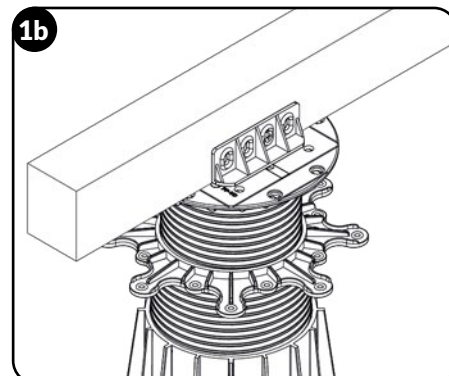
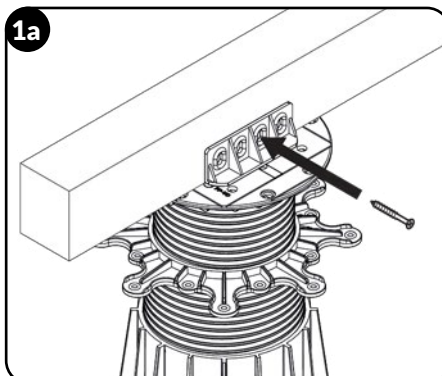


INSTALLATION ON ADJUSTABLE PEDESTALS

JOIST ASSEMBLY

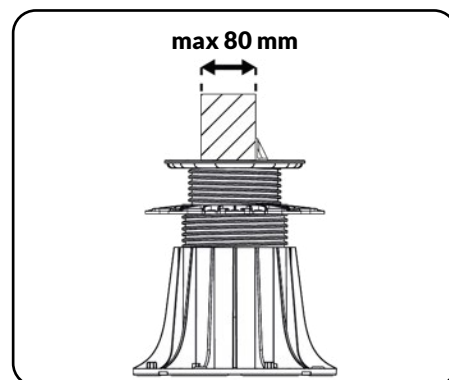
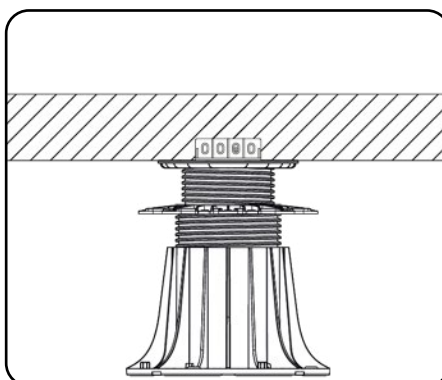
Joist assembly

Place the joist on the pedestal. Lock the joist by screwing a screw through the hole of the adapter.



Joist width

The recommended maximum width of the joist for the adjustable pedestals MAX is 80 mm.

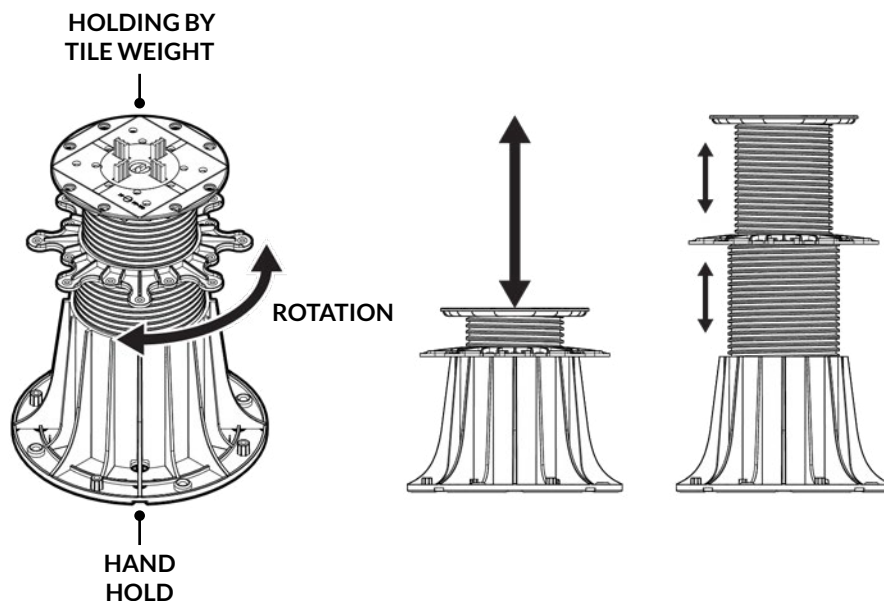


HEIGHT REGULATION

REGULATION

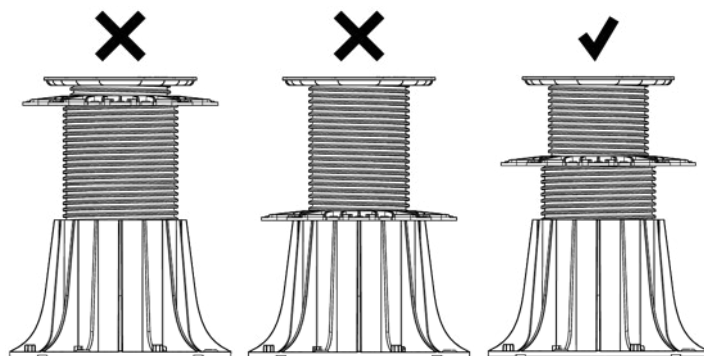
Adjustable pedestals regulation

The adjustable pedestals is regulation by turning the screw ring while the base and the screw are stationary.



ATTENTION

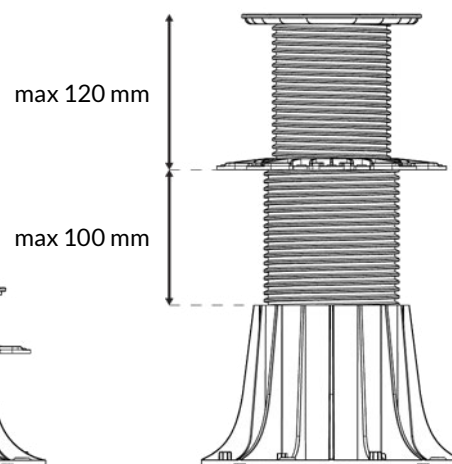
The adjustable pedestals should be unscrewed evenly by turning the screw ring so that each thread was unscrewed evenly.



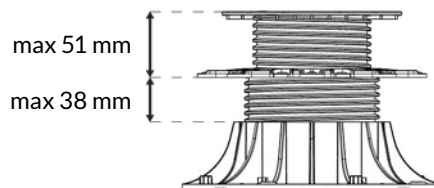
Maximum ranges of deflection of elements

Try to keep the screw and screw ring loosening as evenly as possible. It is unacceptable that, for example, the screw is twisted to the maximum and the screw ring is fully unscrewed. The maximum unscrewing values for the screw and screw ring are shown in the adjacent illustrations.

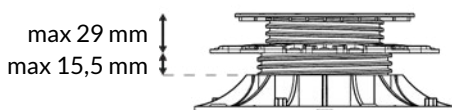
Adjustable pedestals MAX 150-350 / 350-550 / 550-750 / 750-950



Adjustable pedestals MAX 075-150



Adjustable pedestals MAX 045-075

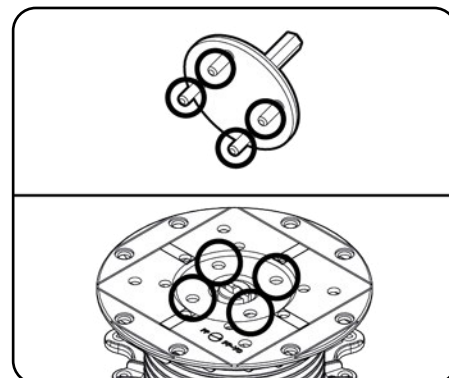
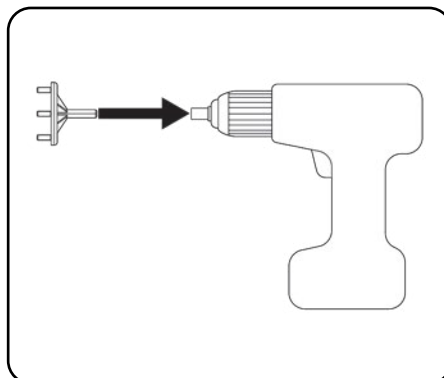


HEIGHT REGULATION

FAST REGULATION

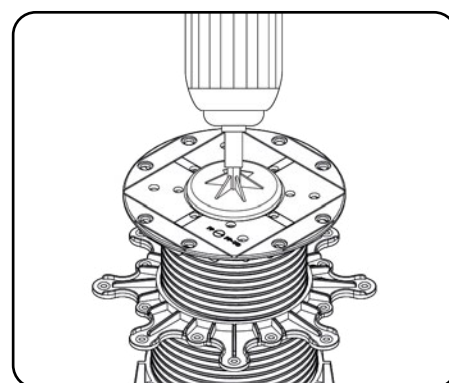
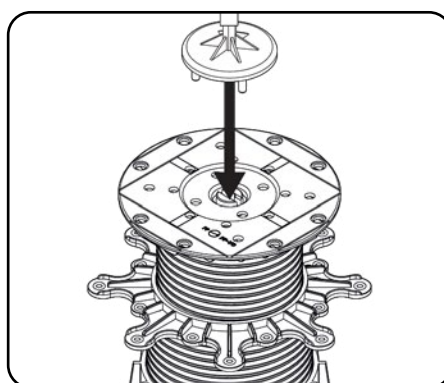
Screwdriver bit

Attach the component to the screwdriver. Place the four protruding parts in the holes in the screw.



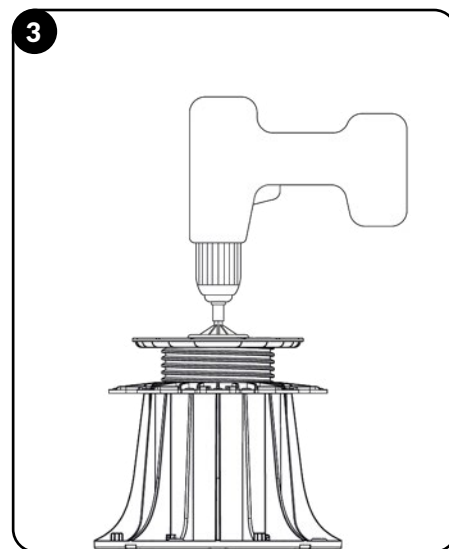
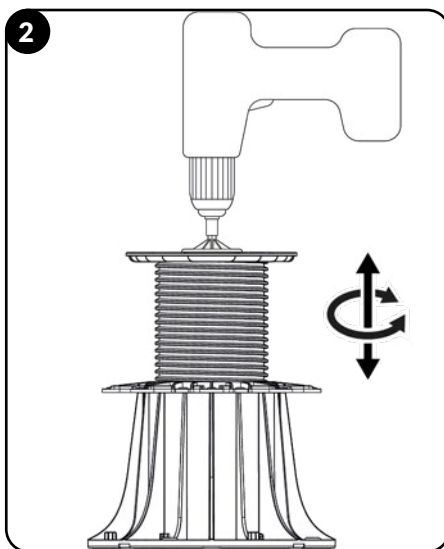
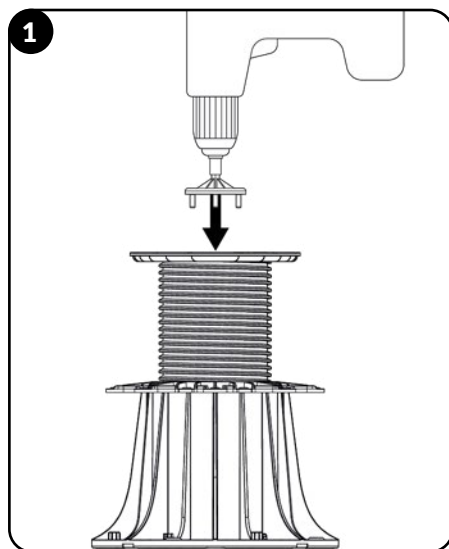
Height regulation

By unscrewing the adjustable pedestals, set the screwdriver rotation to the right, remove the screw, then set the screwdriver rotation to the left, unscrew the entire screw ring.



▼ Fast screw regulation

Regulation the screw with a screwdriver with a bit allows you to quickly increase or decrease the height of the adjustable pedestal. Unscrewing or twisting the screw consists in the appropriate setting of the direction of rotation of the screwdriver.



HEIGHT REGULATION

MANUAL HEIGHT REGULATION WITH A KEY FROM THE TOP

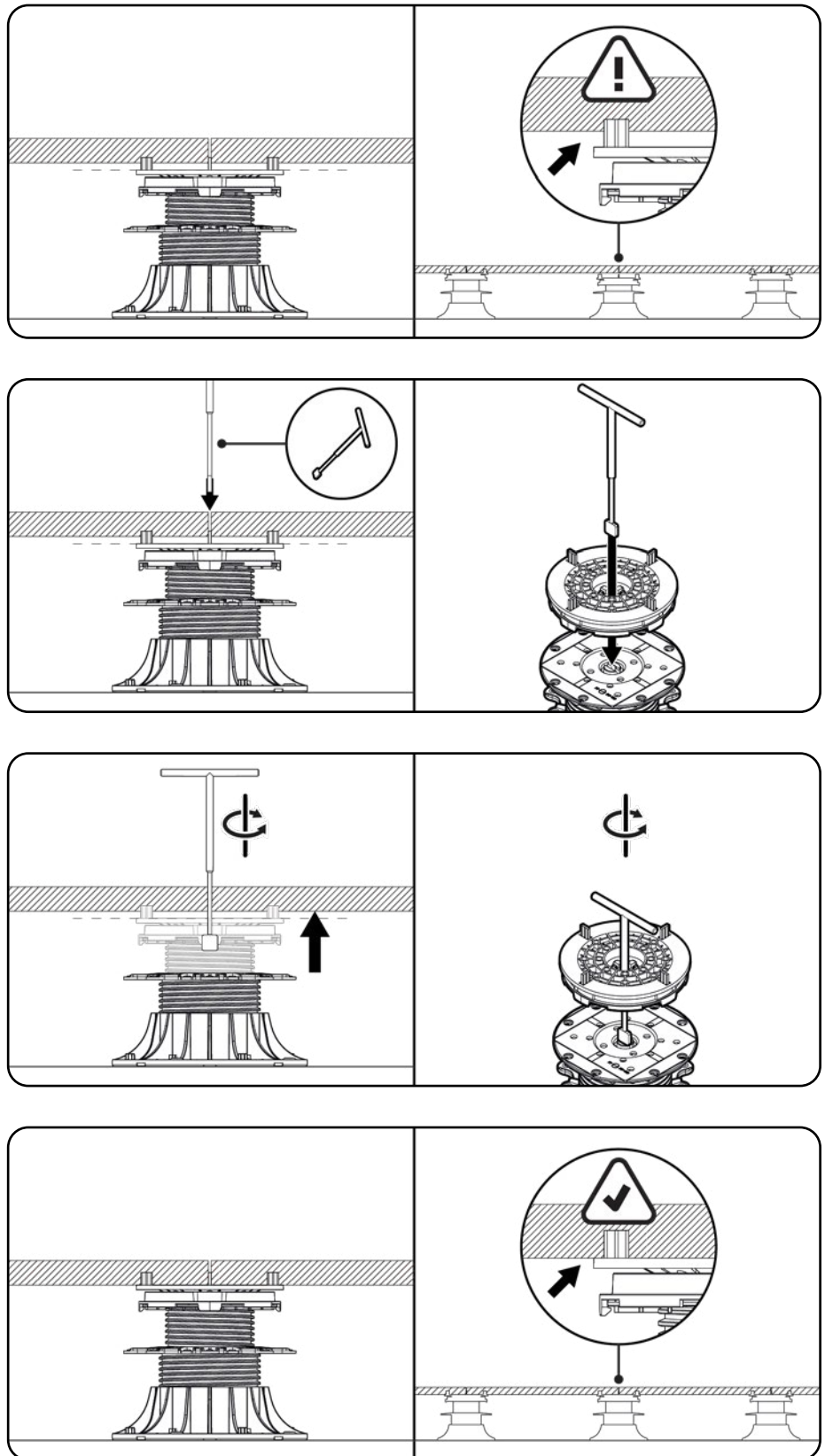
Low height regulation

It is possible to regulation the small height of the adjustable pedestal with the self-leveling head after laying the tiles without the need to disassemble them with a key from the top.

Put the key in the hole of the self-leveling head. The hole is in the joint gaps between the tiles (except for the adjustable pedestals completely under the tile).

Adjustment is possible only for adjustable pedestals with a self-leveling head. In this way, the adjustable pedestals located at the edges or corners of the panels can be regulation. Additional adjustable pedestals that are fully under the tile require disassembly of the tiles.

The height adjustment from above with the key only applies to the adjustable pedestals with the self leveling head.



PEDESTALS USAGE DEPENDING OF THE UNDERLAY SURFACE

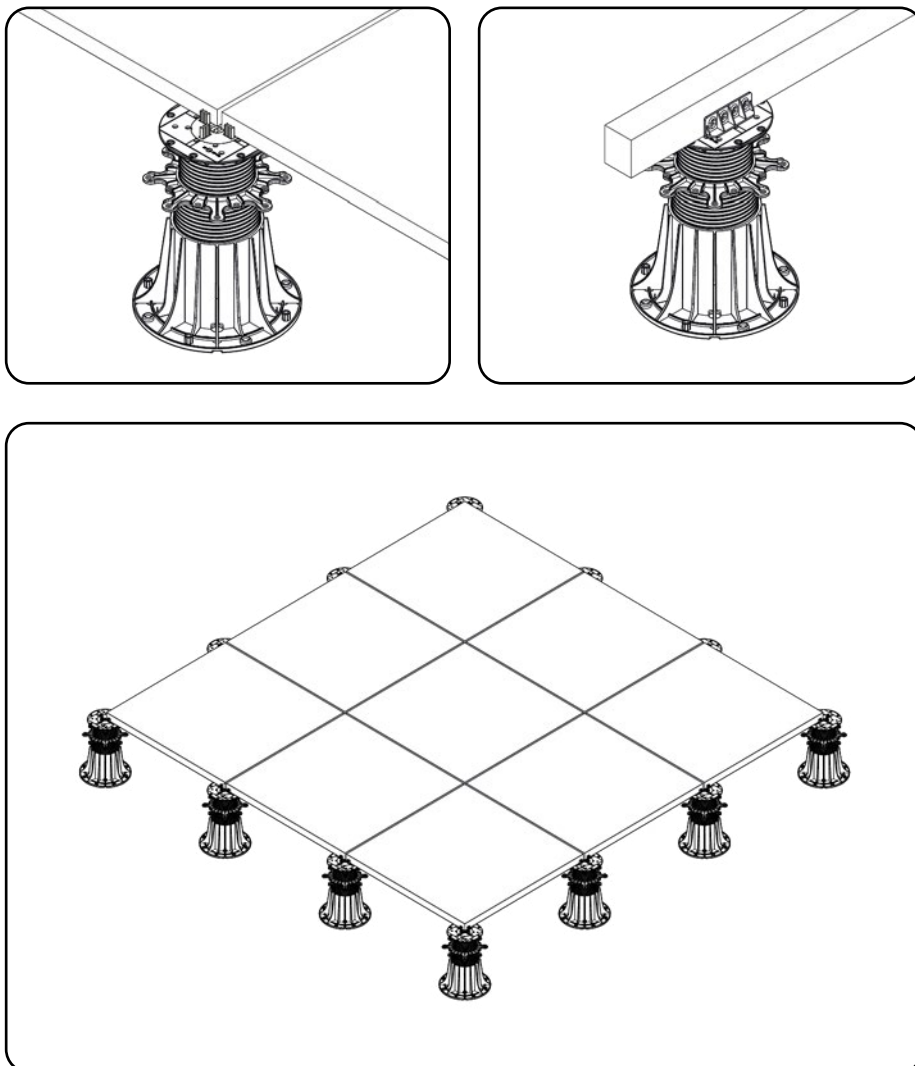
SOLID SURFACE WITHOUT SIGNIFICANT SLOPE

Solid substrate - a hard substrate is understood as an even and stable base such as concrete screed, concrete slabs, stone tiles, wood and other surfaces characterized by high pressure resistance.

Substrate without significant slope¹ - without of significant slope should be understood as a completely horizontal surface or with a slight slope not exceeding approx 1%.

In the case of installation assuming the slope of the installed surface in accordance with the direction of the slope of the substrate, the difference between the slope of the substrate and the planned slope of the surface should be taken into account.

A hard surface without a significant slope does not require the use of additional accessories for the adjustable pedestals. The MAX adjustable pedestals is sufficient for proper installation.



▼ Additional options:

Optionally, a rubber granulate pad can be used, for additional acoustic insulation, such a solution should be considered when installing a terrace or raised floor on the floor with living quarters underneath. The use of a rubber granulate pad will also improve the utility values of the terrace. The use of this solution will reduce unwanted noises when using the terrace, especially grinding caused by moving particles of concrete and sand under the supports.

¹ When assessing the inclination, it must be taken into account that the cantilever placed on the surface with the inclination does not transmit the pressure axially, which translates into a decrease in the strength of the structure.

The deviation of the adjustable pedestals from the vertical may cause a situation in which the tiles or joist does not adhere to the entire surface of the adjustable pedestals, leaving a significant gap and not providing a stable support for the tile or joist.

Each time, the assessment of the slope must be carried out in accordance with the construction practice, taking into account also other conditions individual for a given implementation, such as the planned slopes of the pavement being built, the uniformity of the slope distribution on the ground surface, the stiffness of the materials used for the substructure and the technique of its implementation, and other conditions related to the given implementation.

PEDESTALS USAGE DEPENDING OF THE UNDERLAY SURFACE

SENSITIVE SURFACE WITHOUT SIGNIFICANT SLOPE

Sensitive surface - sensitive substrate should be understood as:

a) surfaces covered with all kinds of additional coatings (most often waterproofing), for example with tar paper, membrane or liquid rubber, and any other coating that could be damaged under the pressure of the walls of the adjustable pedestals base,

b) a) surfaces made in the inverted roof technology, where the adjustable pedestals are placed directly or indirectly on insulation materials, eg XPS and the like.

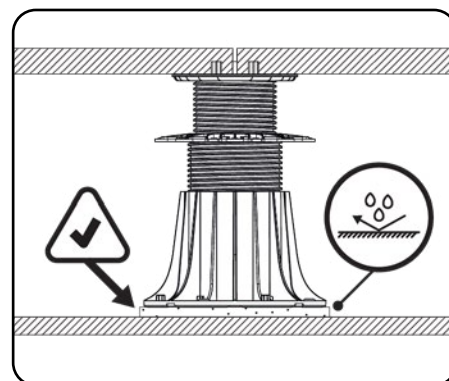
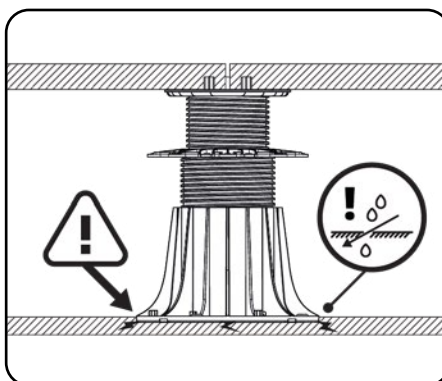
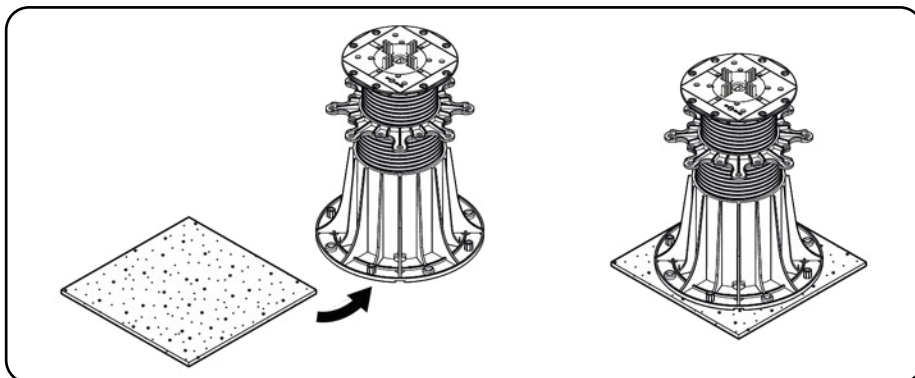
On sensitive surfaces without significant slopes, it is necessary to use a rubber granulate pad.

surface without significant slope²

- no significant slope should be understood as a completely horizontal surface or with a slight slope not exceeding approximately 1%.

On a sensitive surface without significant slope, it is recommended to use a rubber granulate pad in order to protect the surface from damage that may be caused by the base walls over time. The lack of a protective pad may also cause the bracket to dig into a sensitive surface.

The necessity to use protective rubber pads should be left to the decision of the terrace contractor, architect or supervision inspector.



² When assessing the inclination, it must be taken into account that the cantilever placed on the surface with the inclination does not transmit the pressure axially, which translates into a decrease in the strength of the structure.

The deviation of the adjustable pedestals from the vertical may cause a situation in which the board or joist does not adhere to the entire surface of the adjustable pedestals, leaving a significant gap and not providing a stable support for the tile or joist.

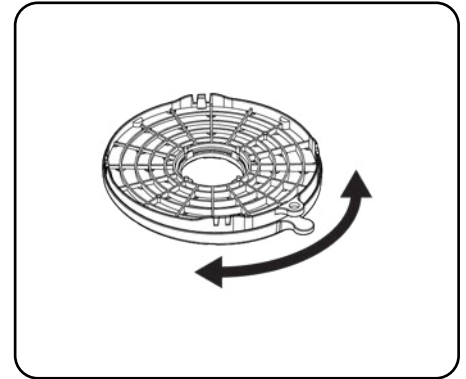
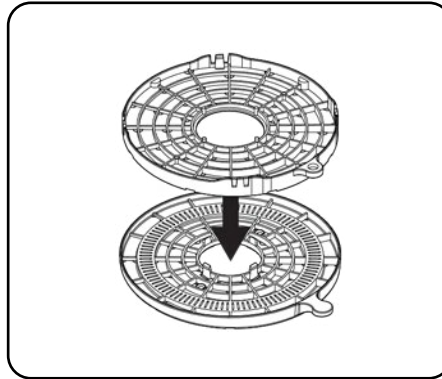
Each time, the assessment of the slope must be carried out in accordance with the construction practice, taking into account also other conditions individual for a given implementation, such as the planned slopes of the pavement being built, the uniformity of the slope distribution on the ground surface, the stiffness of the materials used for the substructure and the technique of its implementation, and other conditions related to the given implementation.

PEDESTALS USAGE DEPENDING OF THE UNDERLAY SURFACE

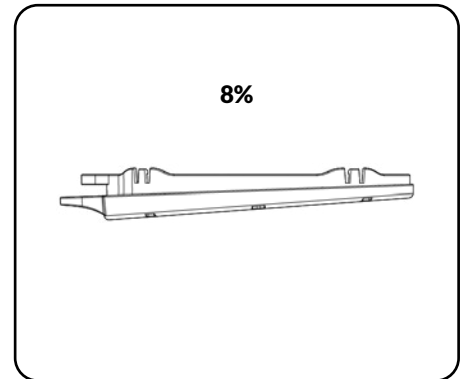
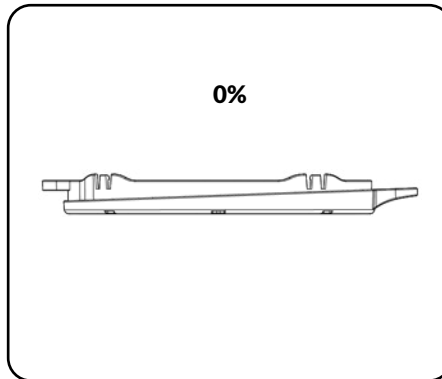
SURFACE WITH A SIGNIFICANT SLOPE OR WITH VARIOUS SLOPES

Substrate with significant slope or cross slopes - a substrate with a significant slope is understood as a surface slope higher than 1% or with irregular slopes.

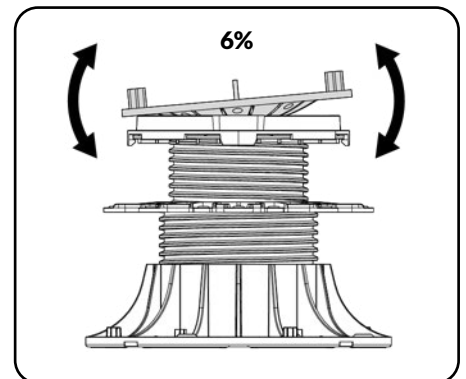
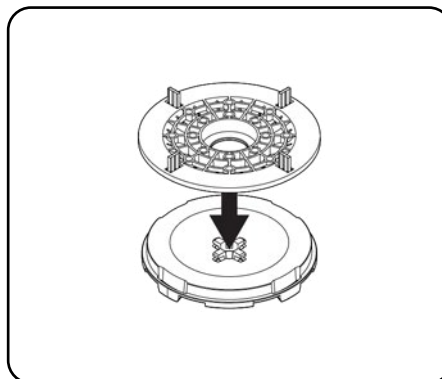
On the substrate with a significant slope, consider the use of a slope corrector (reduction of the slope to 8%) or a self-leveling head (reduction of the slope to 6%), which will level the slope of the surface up to a maximum of 14% (i.e. in the case of a level difference of up to 14 cm per 1 meter).



The slope adjustment with the slope corrector is carried out by smoothly rotating the two wedge cross-section discs in relation to each other.



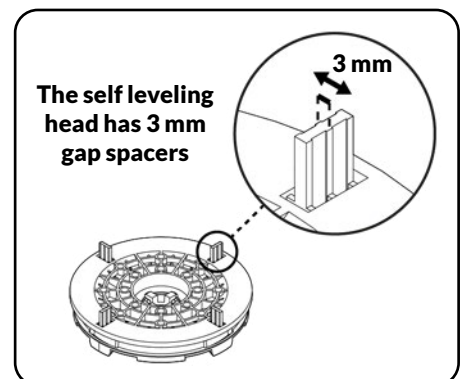
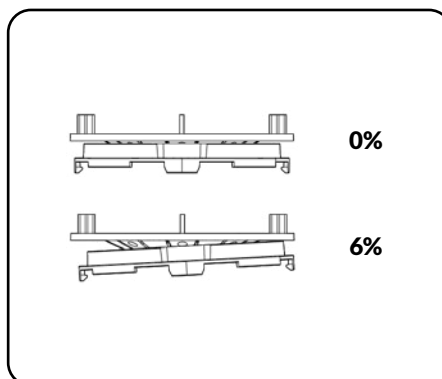
Slope regulation with the self leveling head is done automatically under the influence of the weight of the tiles or joists.



The use of slope corrector should be considered taking into account the fact that the support placed on a surface with a significant inclination deviates from the vertical, which may reduce its strength.

Deviation from the adjustable pedestals may cause a situation in which the tile or joist adheres only to one edge of the adjustable pedestals, leaving a significant gap in the remaining length, not providing a stable support for the tile or joist.

When considering the use of a slope corrector, in accordance with the art of construction, one should also take into account other conditions individual for a given implementation, such as the planned slope of the pavement being built, the evenness of the slope distribution on the ground surface, the stiffness of the materials used for the substructure and the technique of its implementation, as well as other conditions related to a given implementation.



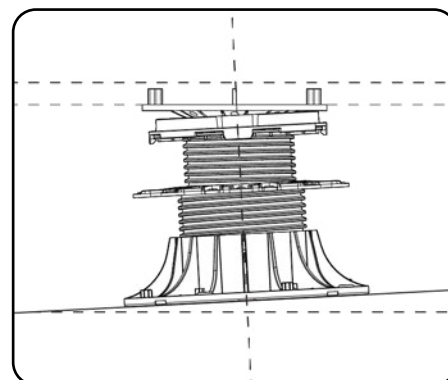
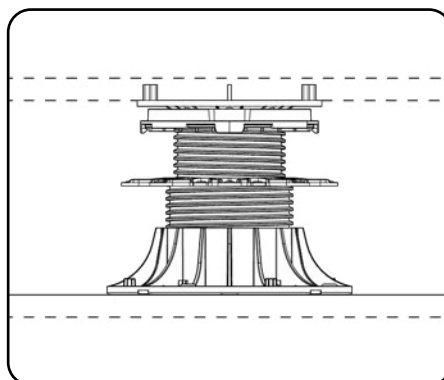
The adjustable pedestals on a properly adjusted slope corrector provides a stable support for the joist.

PEDESTALS USAGE DEPENDING OF THE UNDERLAY SURFACE

SUBSTRATE WITH A SIGNIFICANT SLOPE OR WITH VARIOUS SLOPES

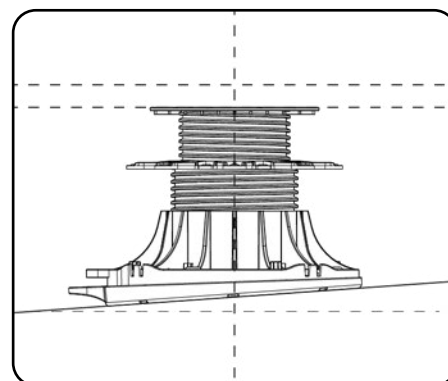
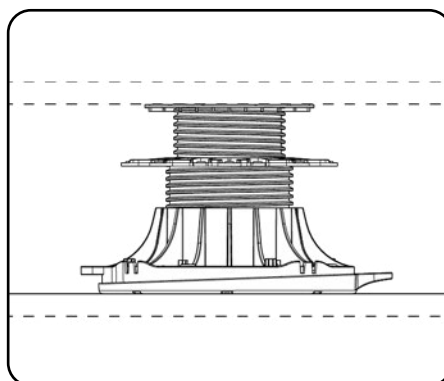
Leveling with self leveling head

The use of a self leveling head makes it possible to level a slope of up to 6%. The adjustable pedestals is compressed out of axis.



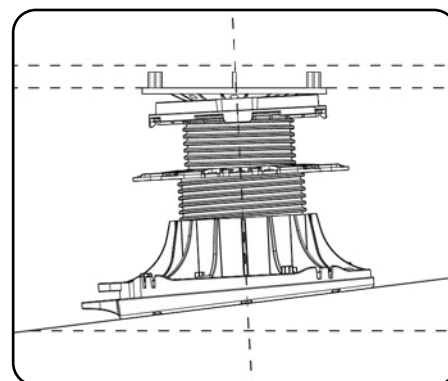
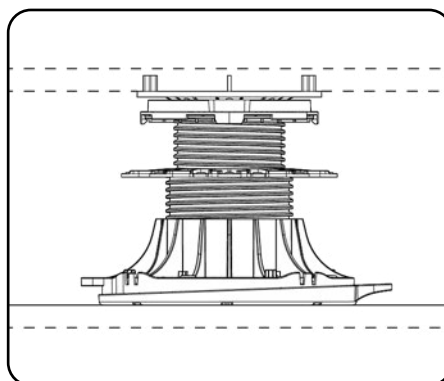
Leveling with slope corrector

The use of the slope corrector makes it possible to compensate for a decline of up to 8%. The adjustable pedestals is axially compressed. It is recommended to use the slope corrector when the adjustable pedestals is higher than 350 mm.



Leveling with self leveling head and slope corrector

The use of a self leveling head and a slope corrector makes it possible to level the slope up to 14%. The adjustable pedestals is compressed non-axially.



SOUNDPROOFING

RUBBER SHIM

▼ Terrace soundproofing

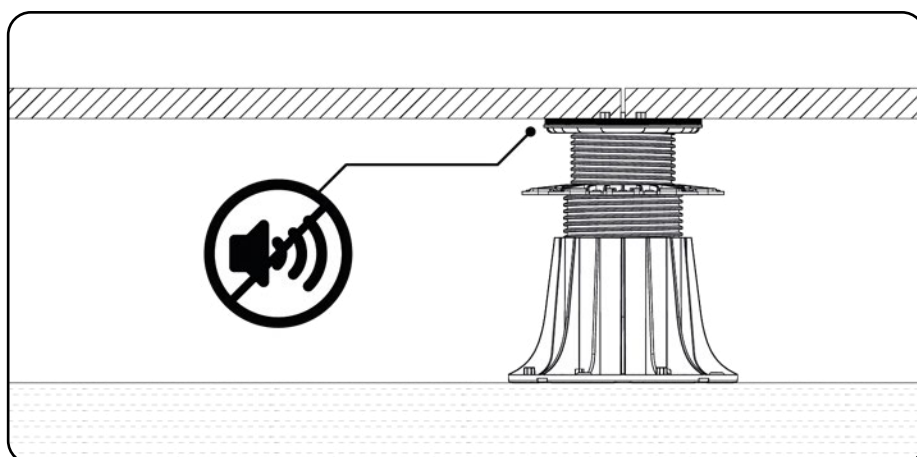
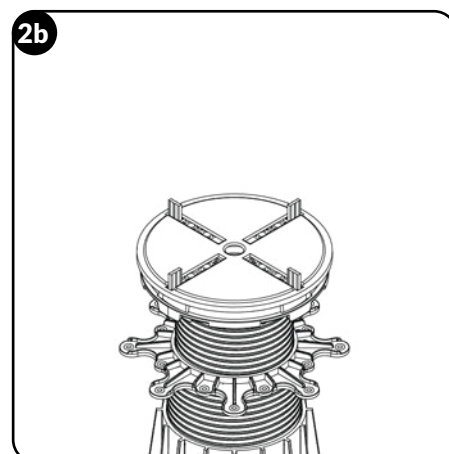
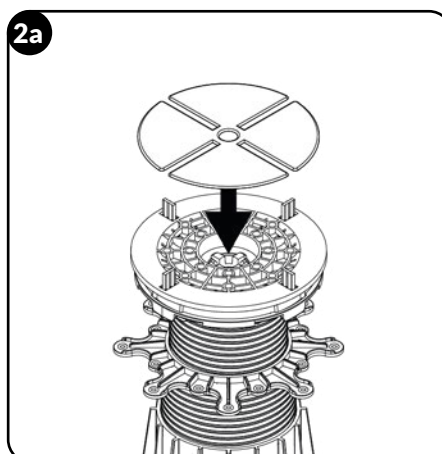
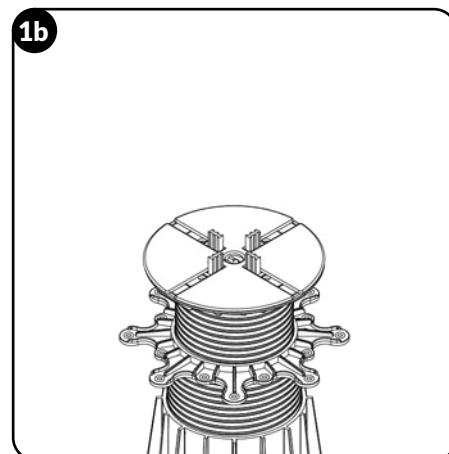
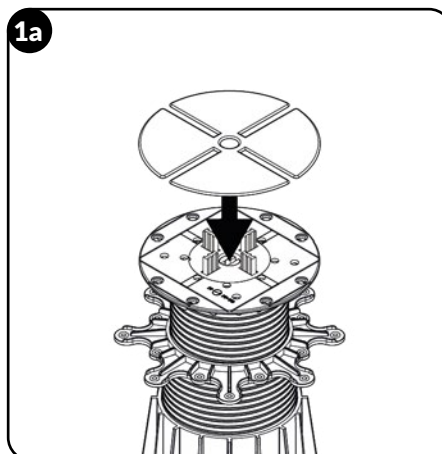
For additional soundproofing of the terrace, use rubber shims and rubber granulate pads.

Soundproofing of the upper part of the adjustable pedestals

Place a SH145 rubber shim between the screw (or the self-leveling head if use) and the tiles.

The thickness of the SH145 rubber shim is 1.5mm. Remember to take into account the thickness of the pad when planning the height of the terrace.

The use of this solution will reduce unwanted noises when using the terrace, especially grinding caused by moving particles of concrete and sand between the adjustable pedestals and the tile or joist.



SOUNDPROOFING

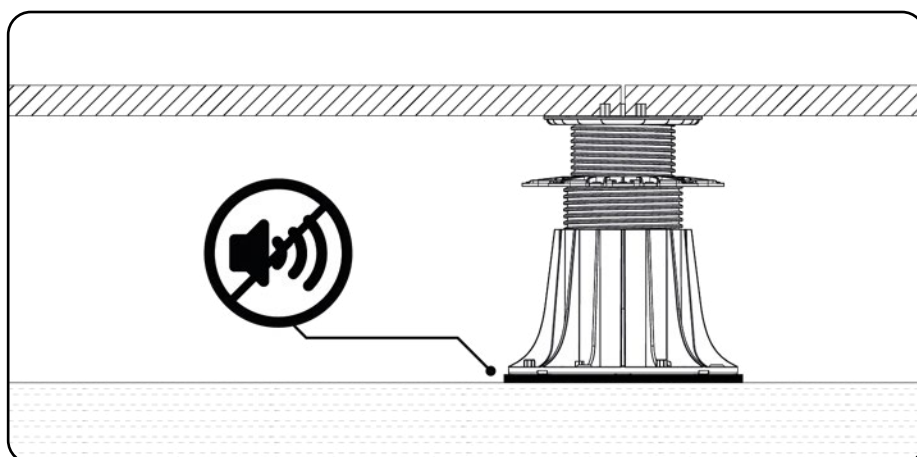
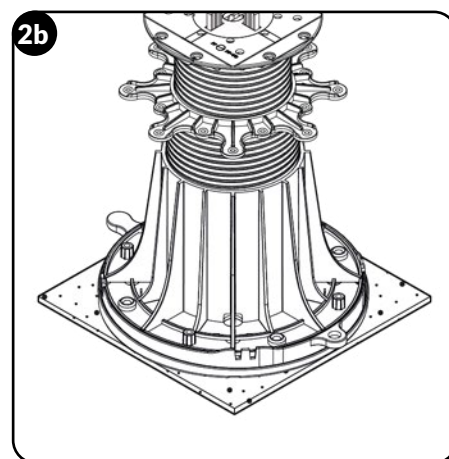
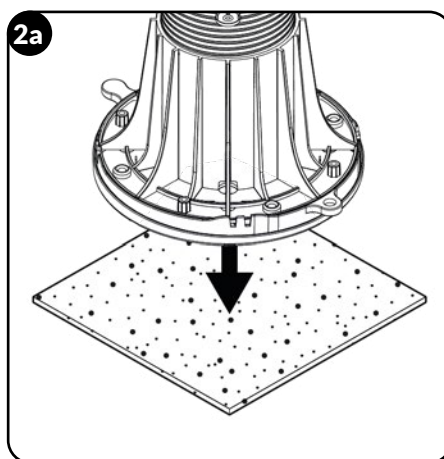
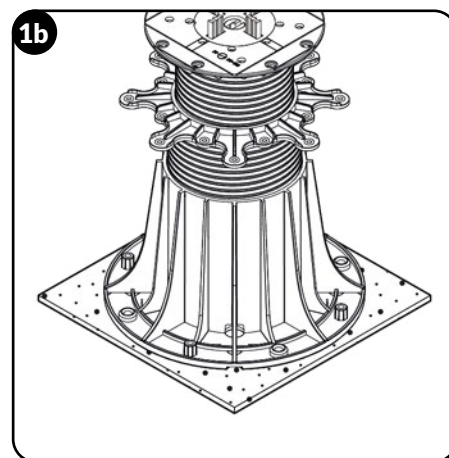
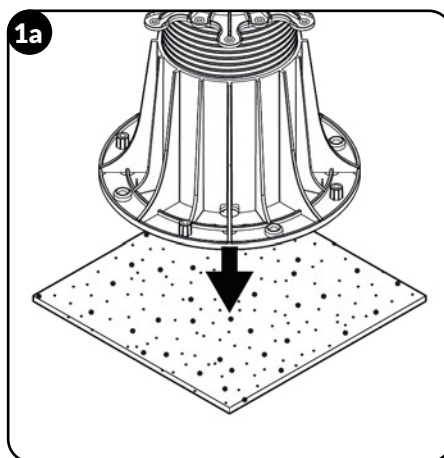
RUBBER SBR PAD

Soundproofing of the lower part of the adjustable pedestals

Optionally, a rubber granulate pad can be used, for additional acoustic insulation, such a solution should be considered when installing a terrace or raised floor on the floor with living quarters underneath. The use of a rubber granulate pad will also improve the utility values of the terrace.

The use of this solution will reduce unwanted noises when using the terrace, especially grinding caused by moving particles of concrete and sand under the adjustable pedestals.

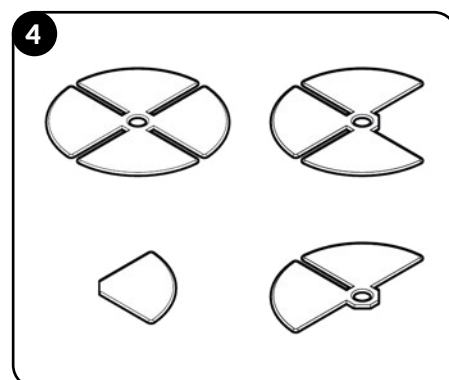
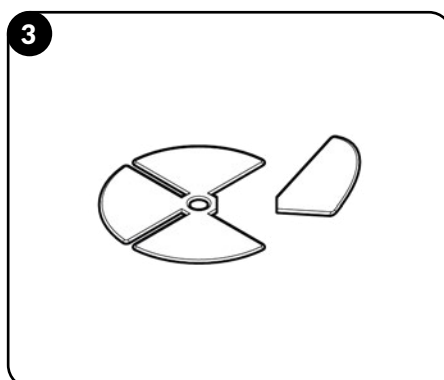
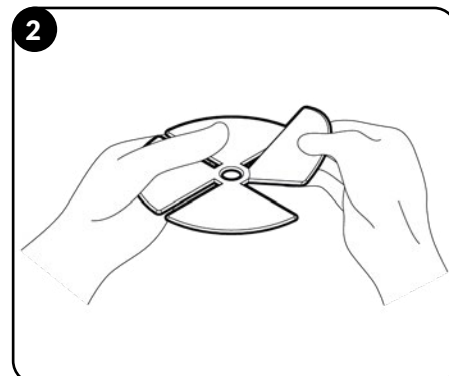
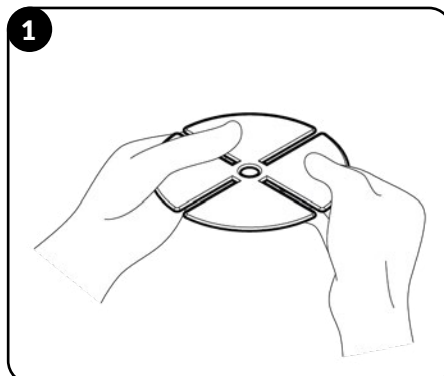
Place a granule rubber pad between adjustable pedestals base (or base slope corrector if used) and the substrate.



LEVELING THE TILES

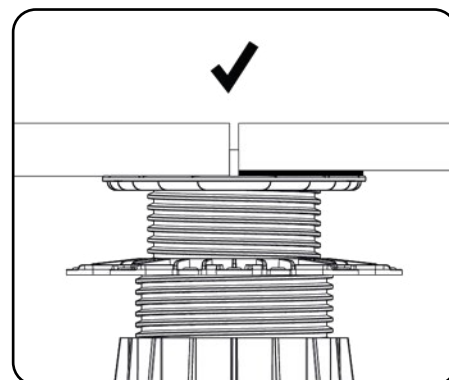
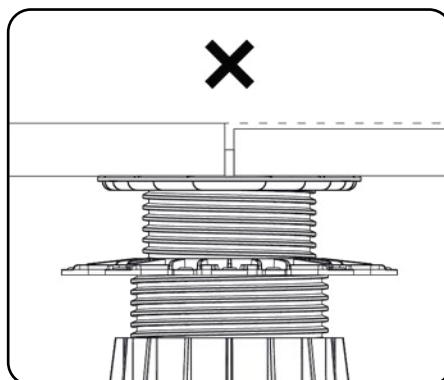
Cutting rubber shim into pieces

The rubber shim can be divided into parts. The parts can be used to leveling for differences in the height of terrace tiles and to soundproof the floor.



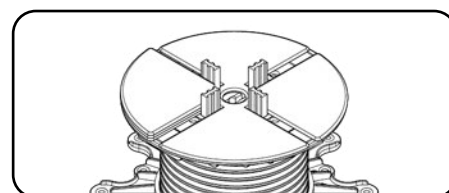
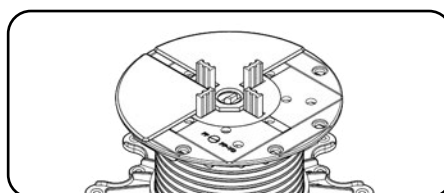
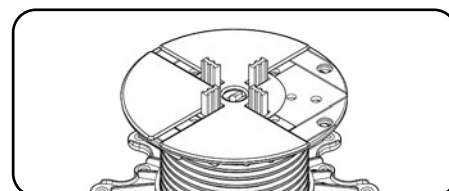
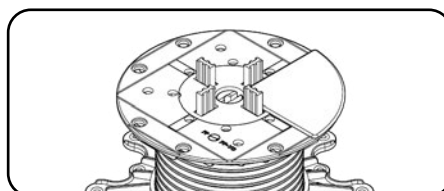
Leveling of the difference in height of the tiles

Placking parts of rubber shims are used to level the differences in the thickness of the terrace tiles. In the case of an uneven surface of the terrace resulting from the difference in the thickness of the terrace tiles, determine the thickness of the thickest tile and place an appropriate number of rubber pads under the remaining tiles. Properly arranged tiles with pads should create an even surface of the terrace.



Examples

An example of setting some rubber shims to compensate for the thickness of the boards. The parts of the washers can be stacked on top of each other.



FASTENING THE PEDESTALS TO THE GROUND

FASTENING WITH SCREW ANCHORS

▼ Mounting the adjustable pedestals with screws

If there is a risk of the adjustable pedestals moving, they must be secured against movement. Attaching the adjustable pedestals with screws is the surest way to fix it.

Attention - drilling in the substrate may damage the insulation. Make sure you can drill the substrate. Make sure that the clip-on adjustable pedestals is in the correct position!

You need:



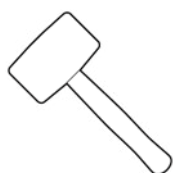
screwdriver



screws
Ø 4,5 mm



wall plugs
Ø 6 mm

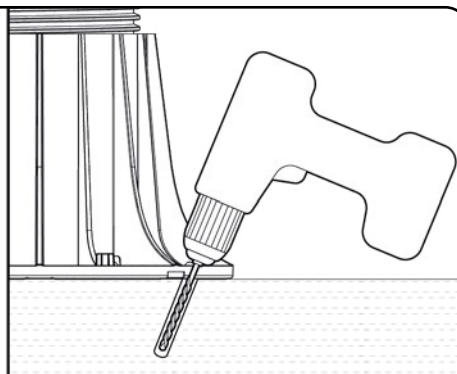
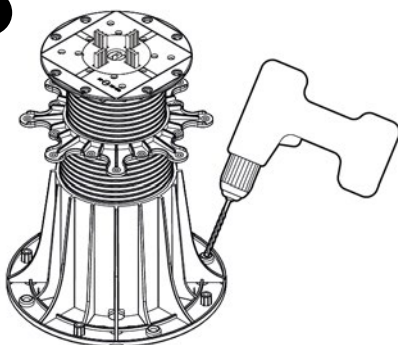


hammer



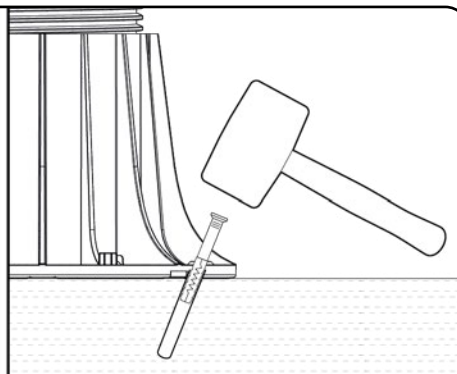
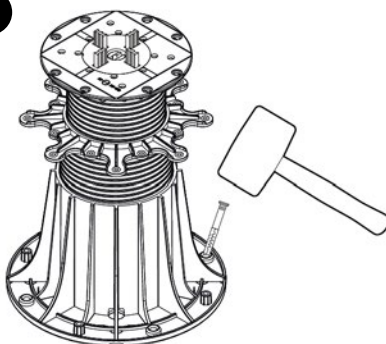
drill
Ø 6 mm

1



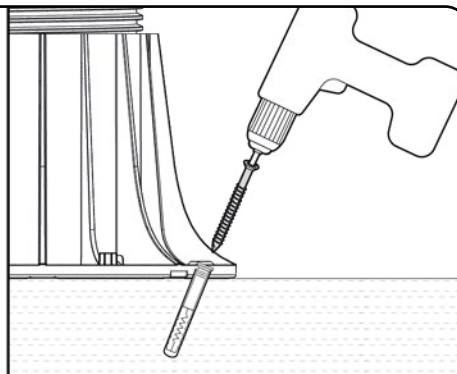
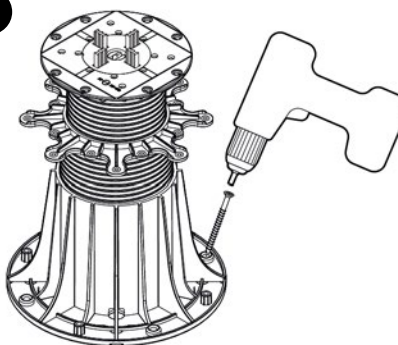
1. Drill a hole for expansion plug in the adjustable pedestals and the substrate.

2



2. Drive in the wall plug.

3



3. Screwing the screw to stabilize the adjustable pedestals.
Be careful not to damage the adjustable pedestals when you screwing the screw.

FASTENING THE PEDESTALS TO THE GROUND

FIXING ON GLUE

Fixing the adjustable pedestals with glue

In a situation where it is impossible to attach the adjustable pedestals with screws, e.g. due to the nature of the substrate, attach them with a special-purpose adhesive (e.g. to concrete).

You need:

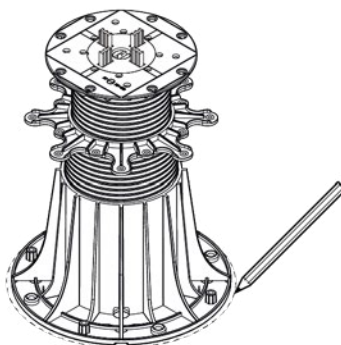


pencil



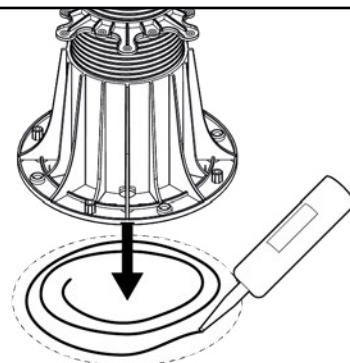
weather-resistant
adhesive mass

1a



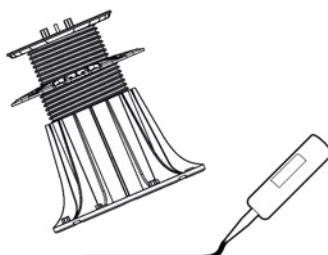
1. Draw the place of the base of the adjustable pedestals.

1b



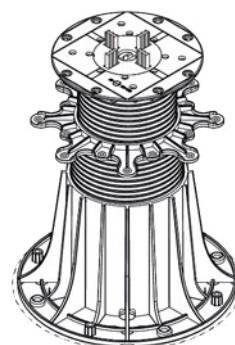
2. Apply the adhesive mass into the drawn contour.

2a



3. Place the adjustable pedestals on the glue point.

2b



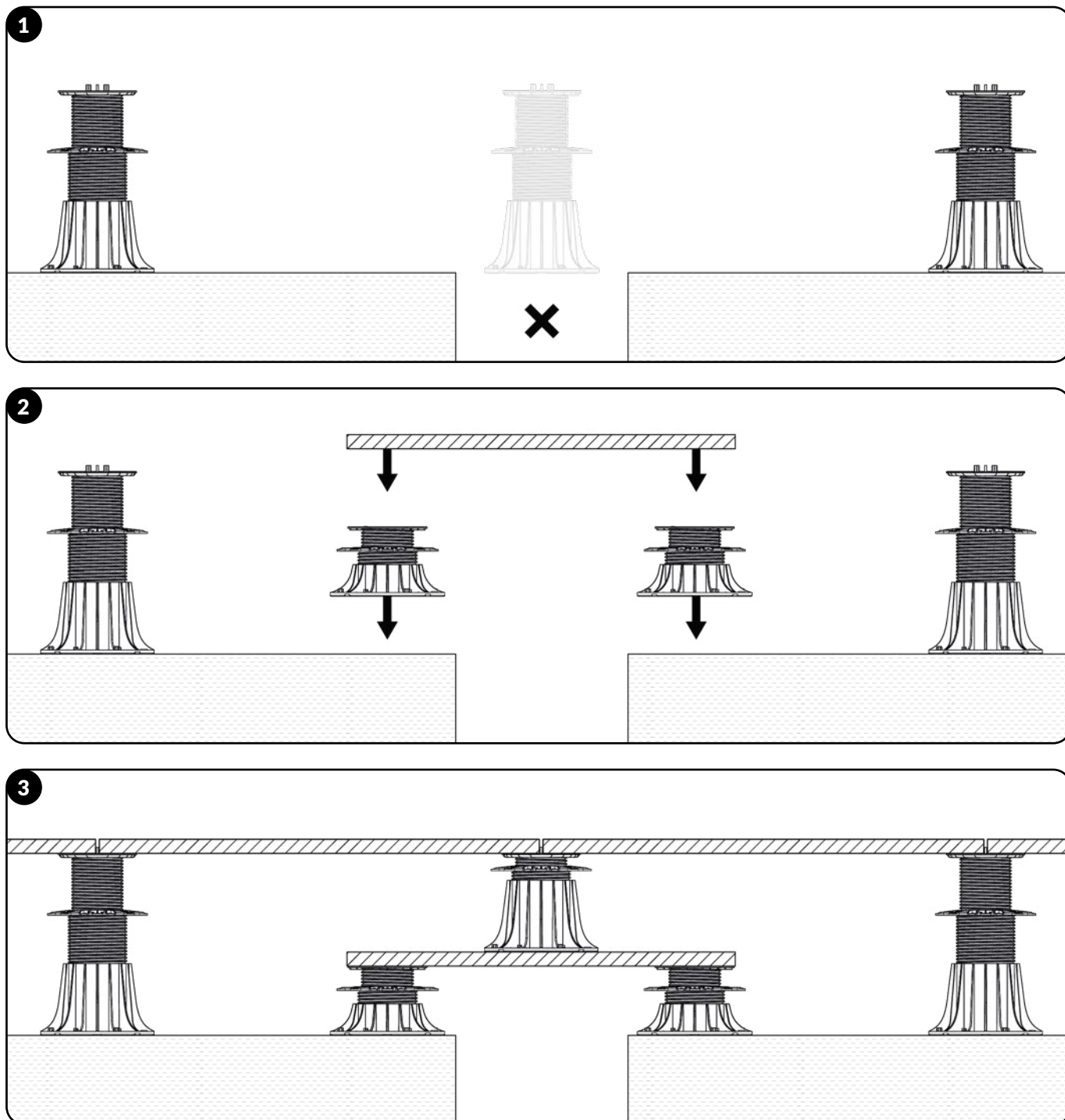
4. Before laying the tiles, check the setting time of the glue.

ARRANGEMENT OF THE PEDESTALS

ROOF DRAINING / GAPS

▼ Drains and holes

If there is a step in the place where the adjustable pedestals is to be located, make a „bridge” from additional adjustable pedestals and the terrace tiles.

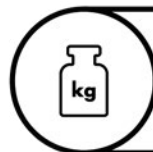


STRENGTH OF ADJUSTABLE PEDESTALS



Weight limit

Detailed information on the permissible loads on the adjustable pedestals can be found in the detailed technical specification - ask your supplier.

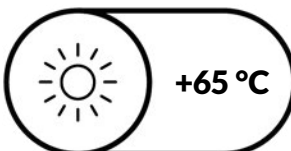


1000 - 1500 kg

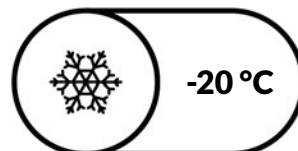


Temperature resistance

Detailed information on temperature resistance can be found in the detailed technical specification - ask your supplier.



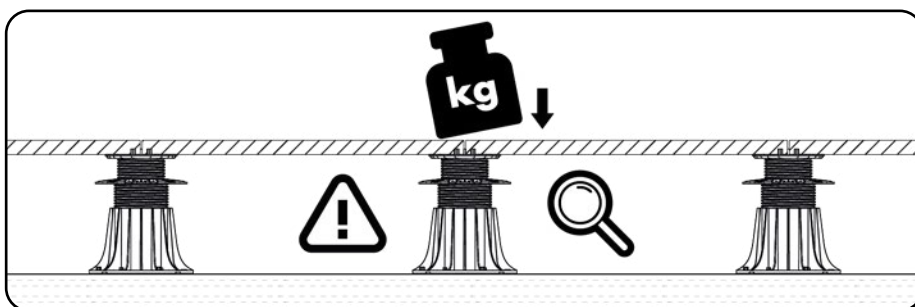
+65 °C



-20 °C

Temporary overload

In the event of a temporary overload of the adjustable pedestals, the technical condition of the adjustable pedestals should be inspected.

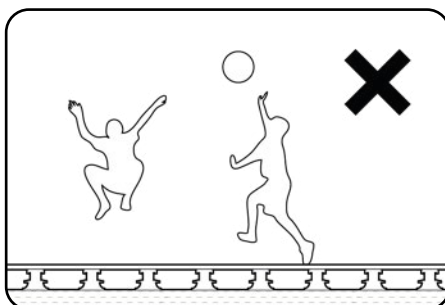
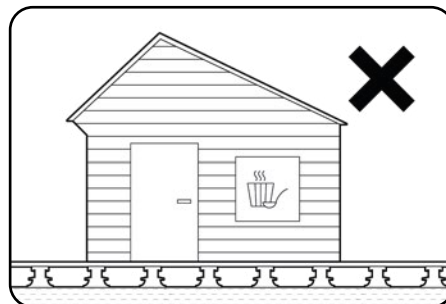
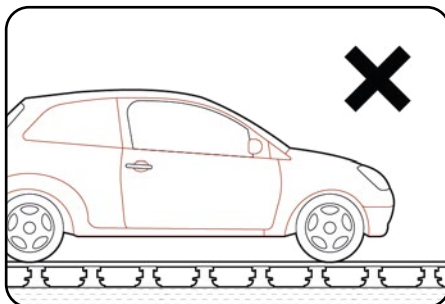


Use Restrictions

It is forbidden to drive on motor vehicles that can cause unpredictable dynamic loads

It is forbidden to place heavy objects, the weight of which exceeds the permissible load. If there is a need to set up a heavy object, such as a jacuzzi, strength calculations should be made.

Are prohibited activities that could cause dynamic loads exceeding the permissible loads.

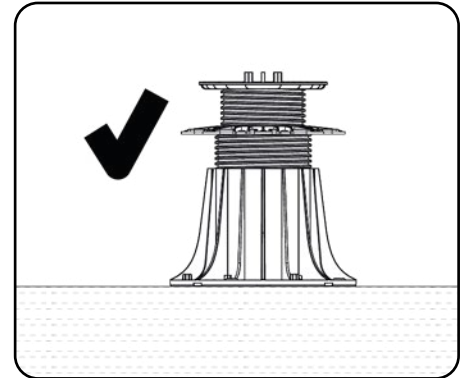
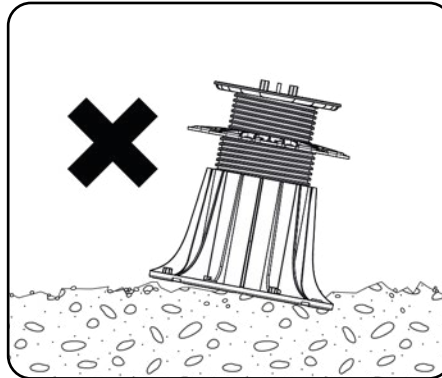


IMPORTANT INFORMATION

SUBSTRATE - GENERAL INFORMATION

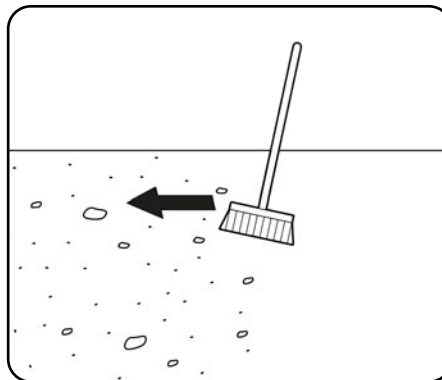
Flat substrate

The ground on which the adjustable pedestals are placed should be stable and flat.



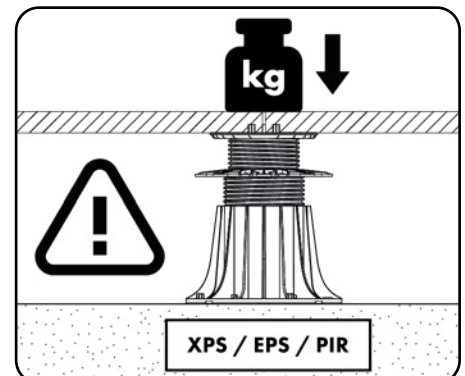
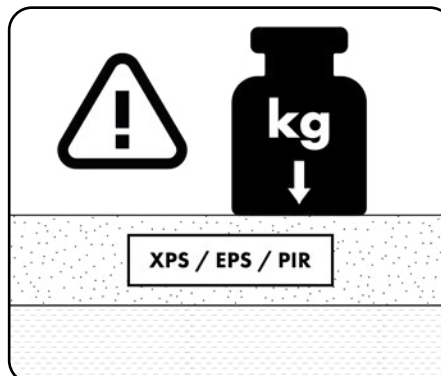
Clean surface

Before laying the adjustable pedestals, clean the ground of stones, sand and other dirt.



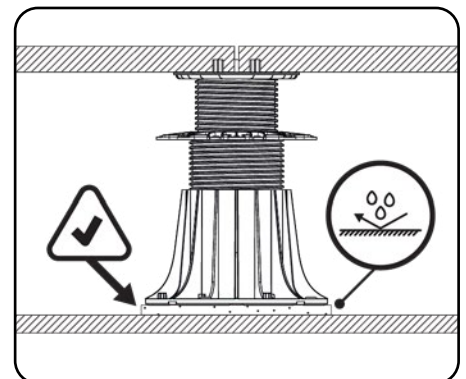
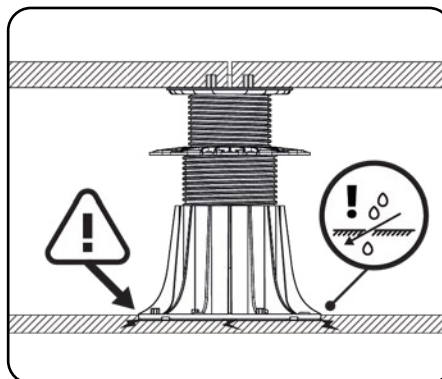
Type of substrate

Adjustable pedestals are often used on the roof on insulation tiles made of hard styrodur. Remember to check the strength of the base and the permissible loads on the surface on which the adjustable pedestals are placed. Based on the knowledge of the hardness of the substrate, calculate whether the planned load will not lead to a dent.



Insulation protection

If there is a possibility of damaging the waterproofing insulation, it is recommended to use rubber granulate pads.

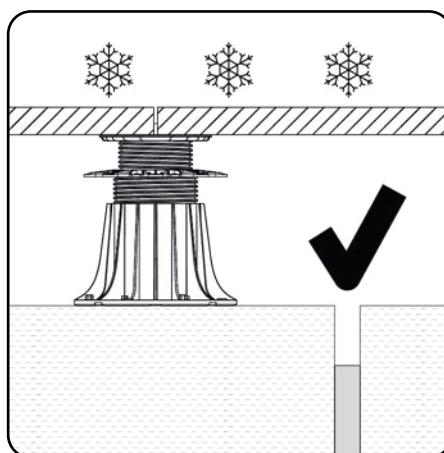
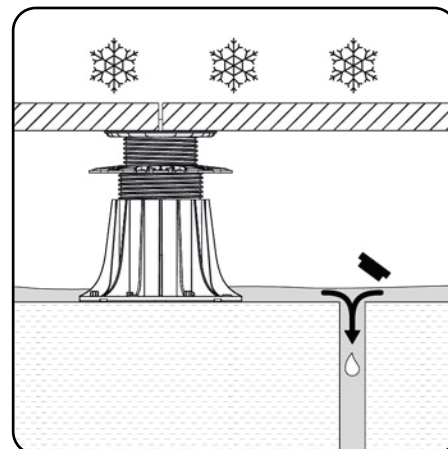
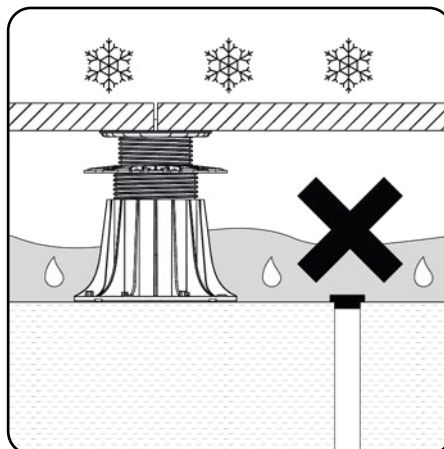


IMPORTANT INFORMATION

PEDESTALS IN THE WATER

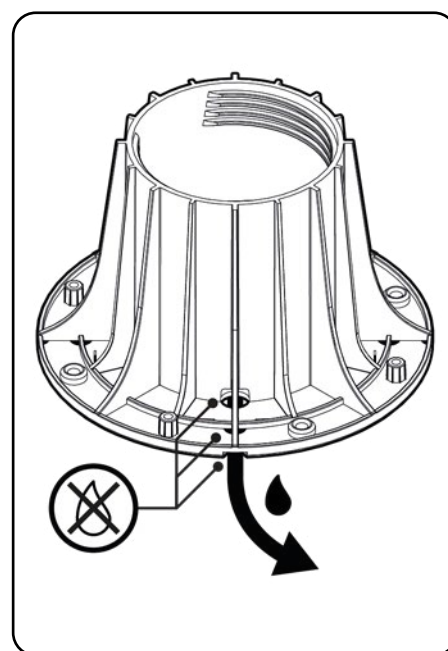
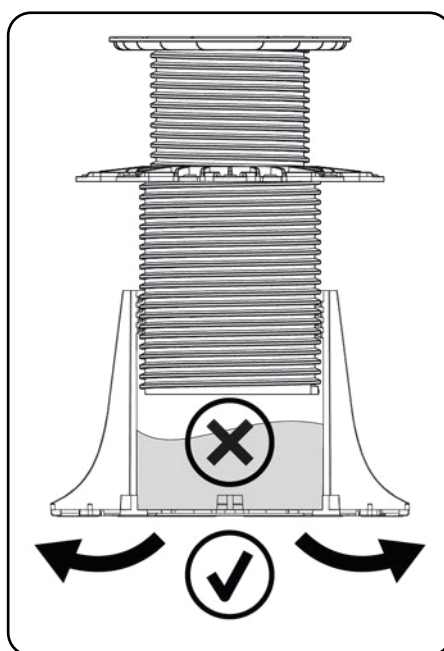
Adjustable pedestals in the water

If the adjustable pedestals are laying in water (e.g. in a fountain), let them out before the frost sets in.



Water in the adjustable pedestals

The adjustable pedestals have a water drainage system. There is no need to make additional holes to drain water from the tank during winter.



PEDESTALS LOCKING

Locking the adjustable pedestals

In order to stiffen and provide additional protection of the structure, the adjustable pedestals should be locked by screwing in a screw or hammering a nail.

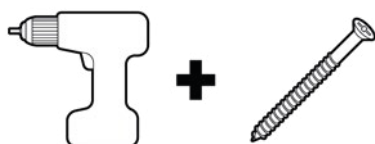
To lock the adjustable pedestals, drill and screwing the screw:

- into the screw ring and the end of the bolt located inside the screw ring (A);
- for adjustable pedestals XL1 - XL3, into the height coupler and the end of the screw ring located inside the height coupler. (B);
- into the base and the end of the screw ring located in the base (C);
- for adjustable pedestals XL1 - XL3, into the base and the end of the height coupler located inside the base (D);

ATTENTION

Remember to check the correctness of the height adjustment of the adjustable pedestals before their final locking.

You need:



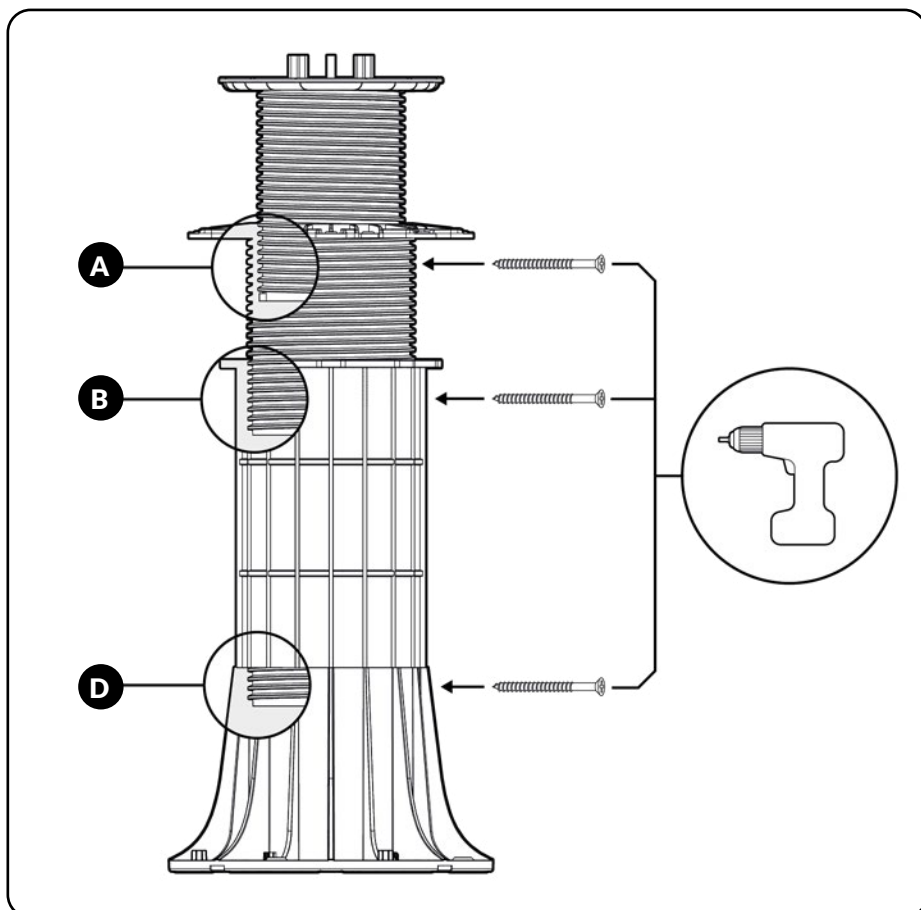
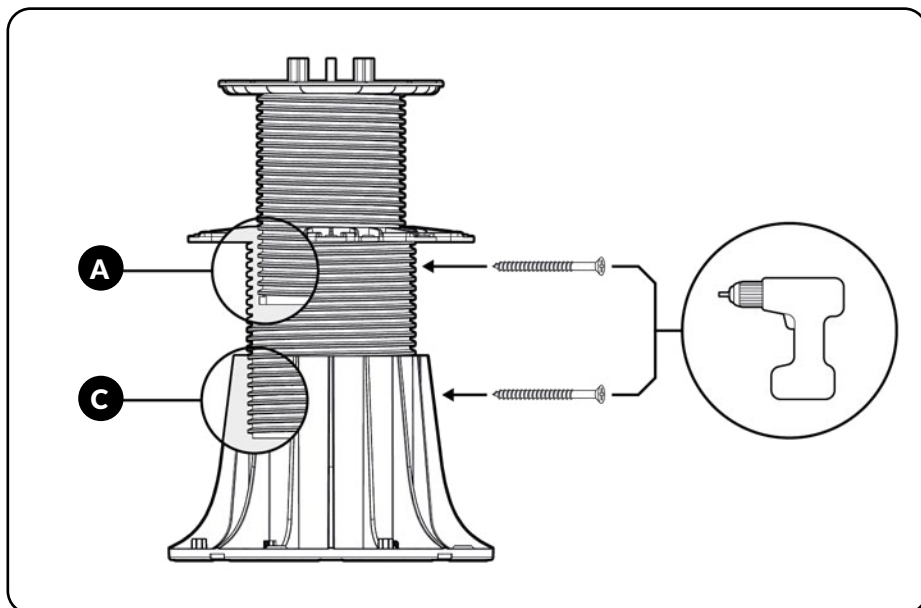
screwdriver

screws

First, drill a hole and then screw in the screw.

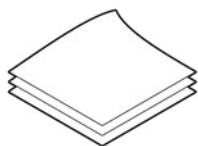
ATTENTION

Each time the need to lock the adjustable pedestals should be left to the decision of the terrace contractor or the supervision inspector.



TILES CUTTING

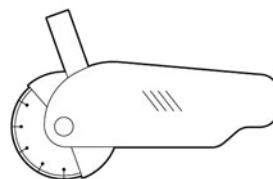
You need:



cardboard



knife

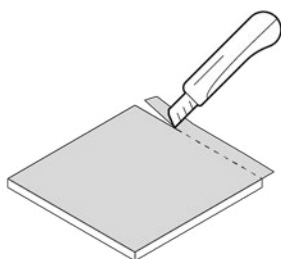


cutter



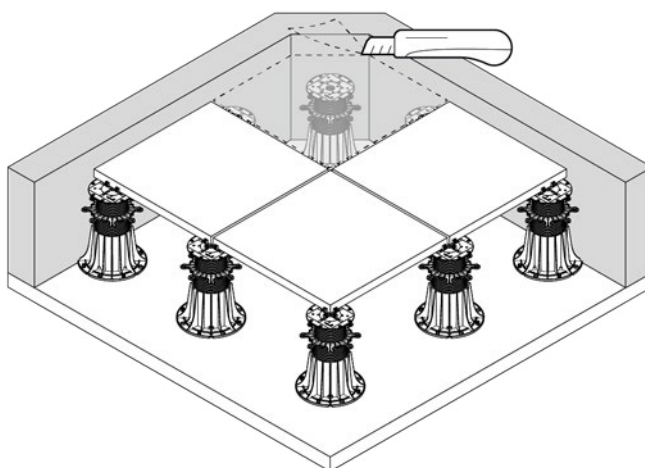
pencil

1



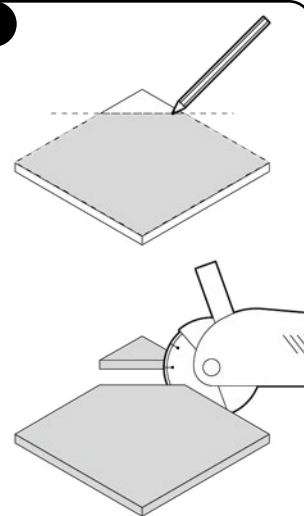
1. Cut the cardboard into the shape of the entire tile.

2



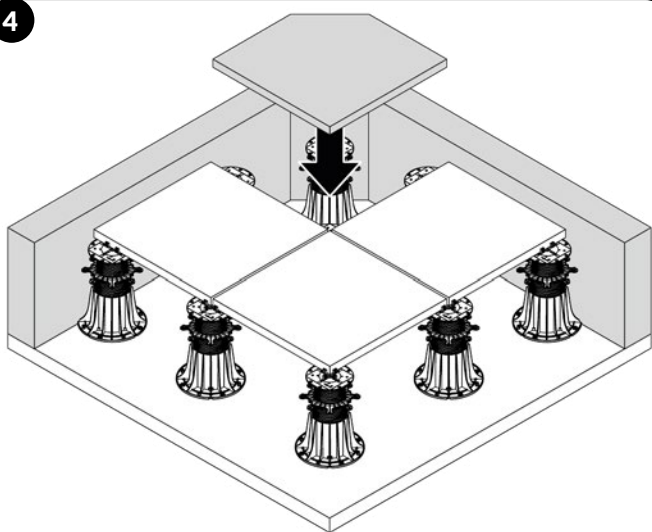
2. Try the cardboard to the place where the tile will be and cut the shape.

3



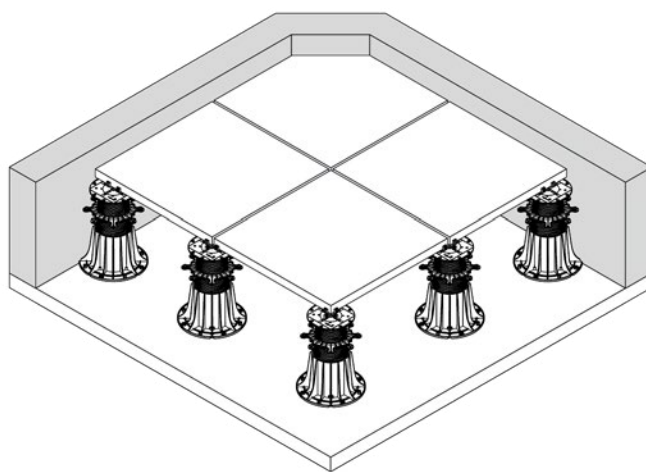
3. Draw the template from the cardboard on the board and cut it to the desired shape.

4



4. Place the tile on the adjustable pedestals.

5



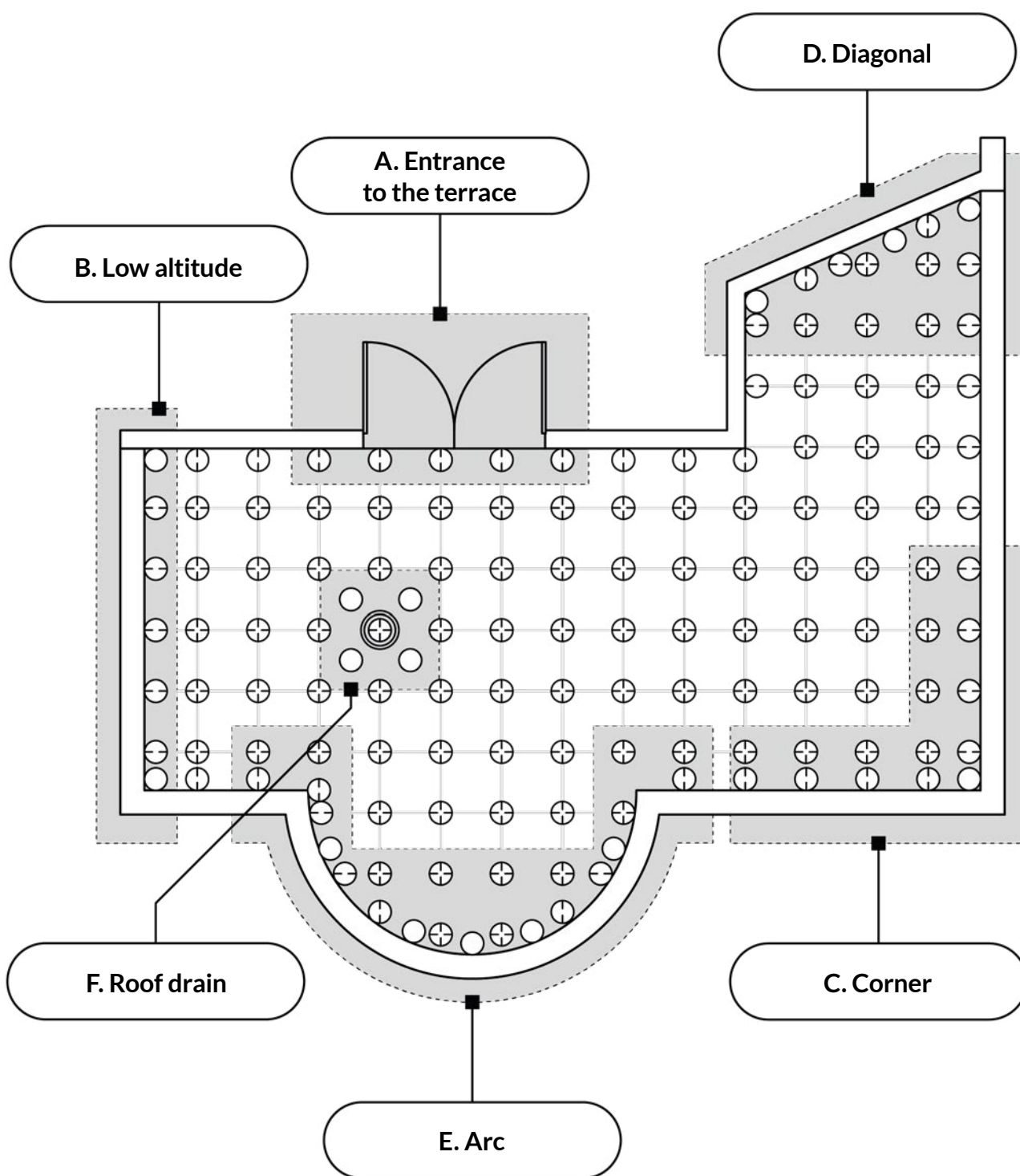
5. Check the stability of the constructed structure.

APPROPRIATE PEDESTALS PLACEMENT

PROJECT

▼ Planning the construction

The first step is to accurately measure the terrace so as to avoid unfavorable cutting of the tiles at the edge boundaries. Make a plan for the placement of adjustable pedestals taking into account the dimensions of the terrace tiles. A string is helpful for drawing straight lines.

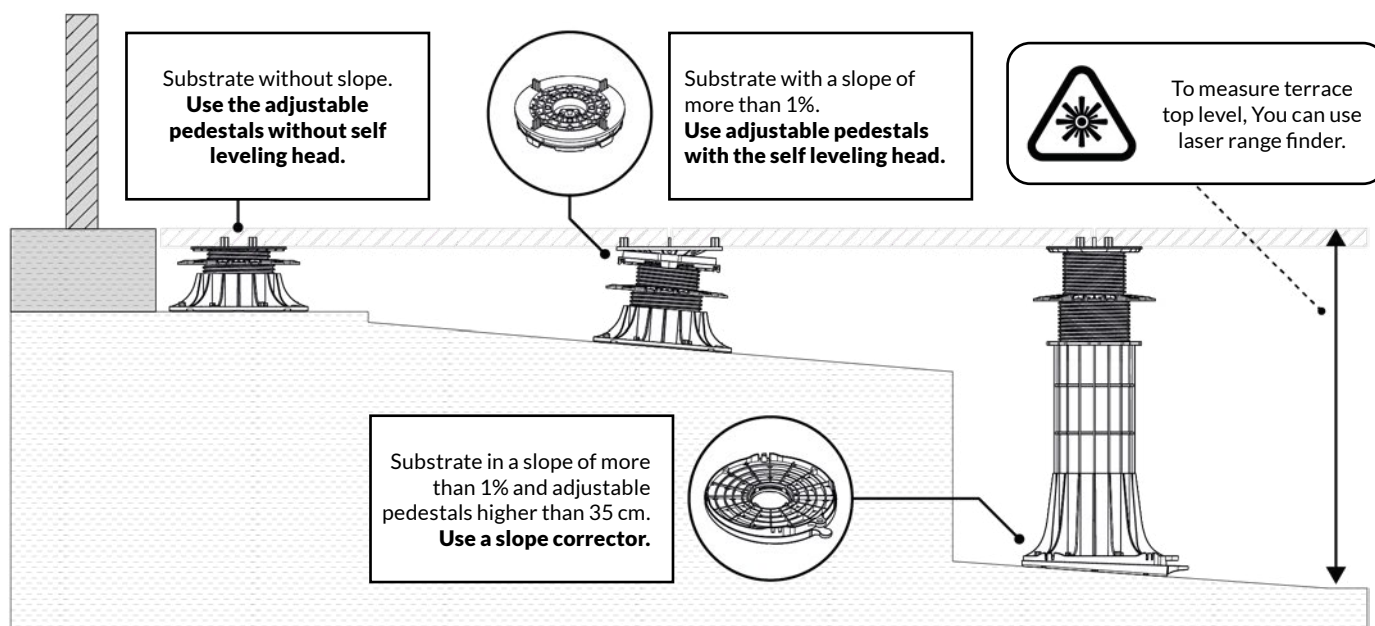


APPROPRIATE PEDESTALS PLACEMENT

HEIGHTS

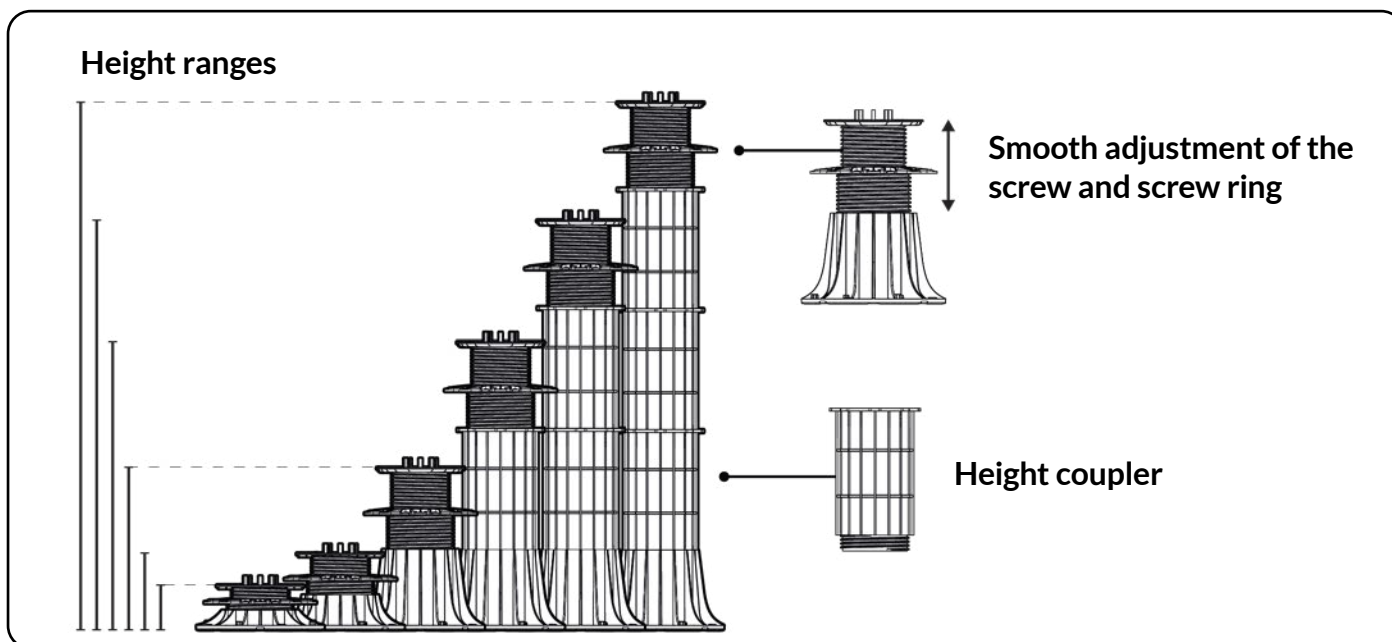
▼ Evaluating height of the terrace level

The correct top level of the terrace geometry is very important and decide about all other factors. Determine the exact height of the MAX adjustable pedestals that will be needed for laying the terrace, taking into account the thickness of the terrace tile. To check terrace level you can use laser range finder.



▼ Height ranges

When planning the montage of the terrace, remember about the available adjustable pedestals height range from 45-950 mm.



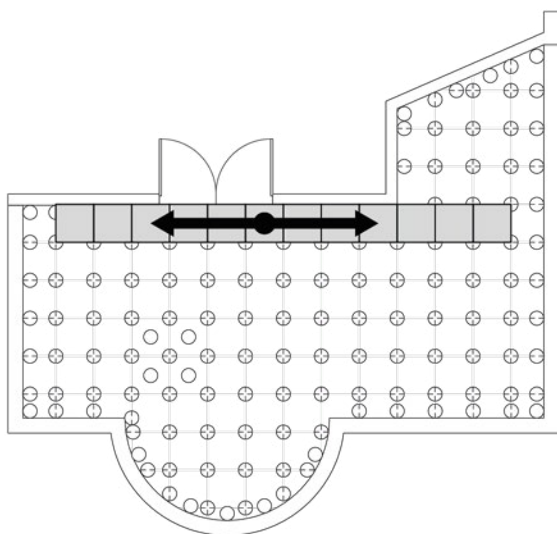
APPROPRIATE PEDESTALS PLACEMENT

START INSTALLATION

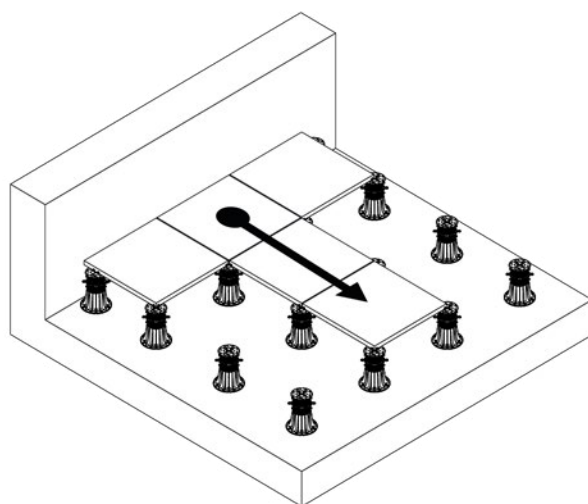
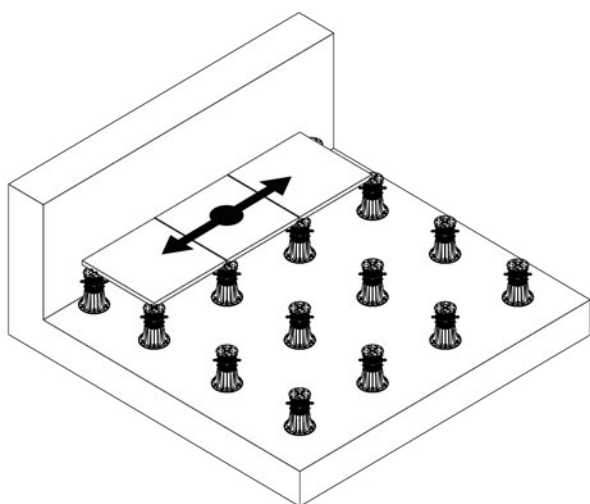
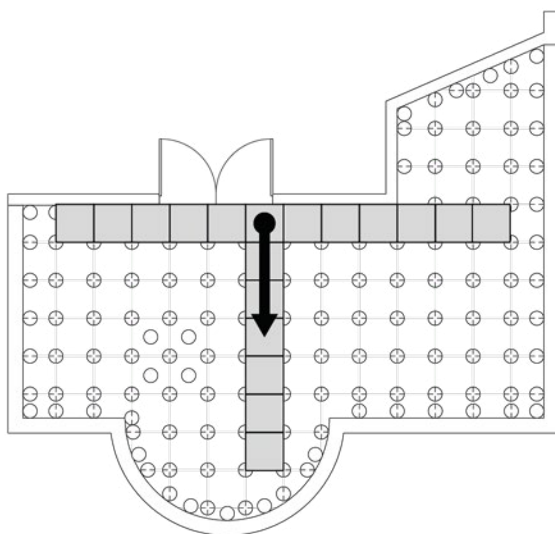
▼ Set start point

Lay the first line of tiles according to the design. Place only full tiles first. Then make a perpendicular line of tiles, the line should be approximately in the middle of the terrace surface. Next tiles fill the entire surface of the terrace up to the edge limits. Measure the terrace carefully to anticipate unfavorable small cuts at the edge of the terrace.

1



2

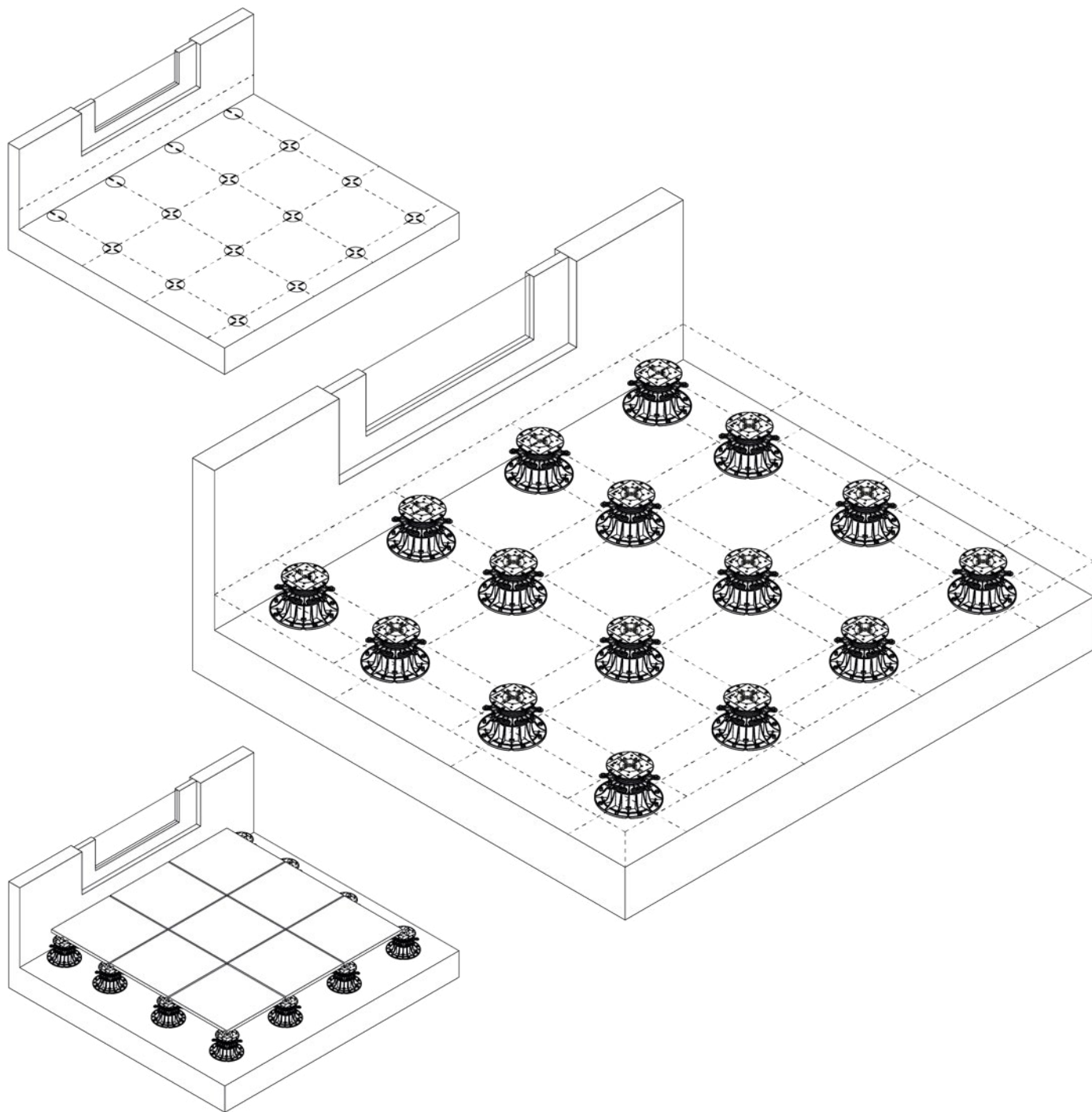


APPROPRIATE PEDESTALS PLACEMENT

A. ENTRANCE ON THE TERRACE

▼ Evaluating height of the terrace level

The entrance to the terrace is usually the place according to which we plan the height of the ventilated terrace. Properly adjusted height in relation to the threshold will allow for a comfortable transition from the room to the outside. It is recommended that the height between the terrace surface and the threshold of the balcony door should not be higher than the (comfortable) step of the stairs.

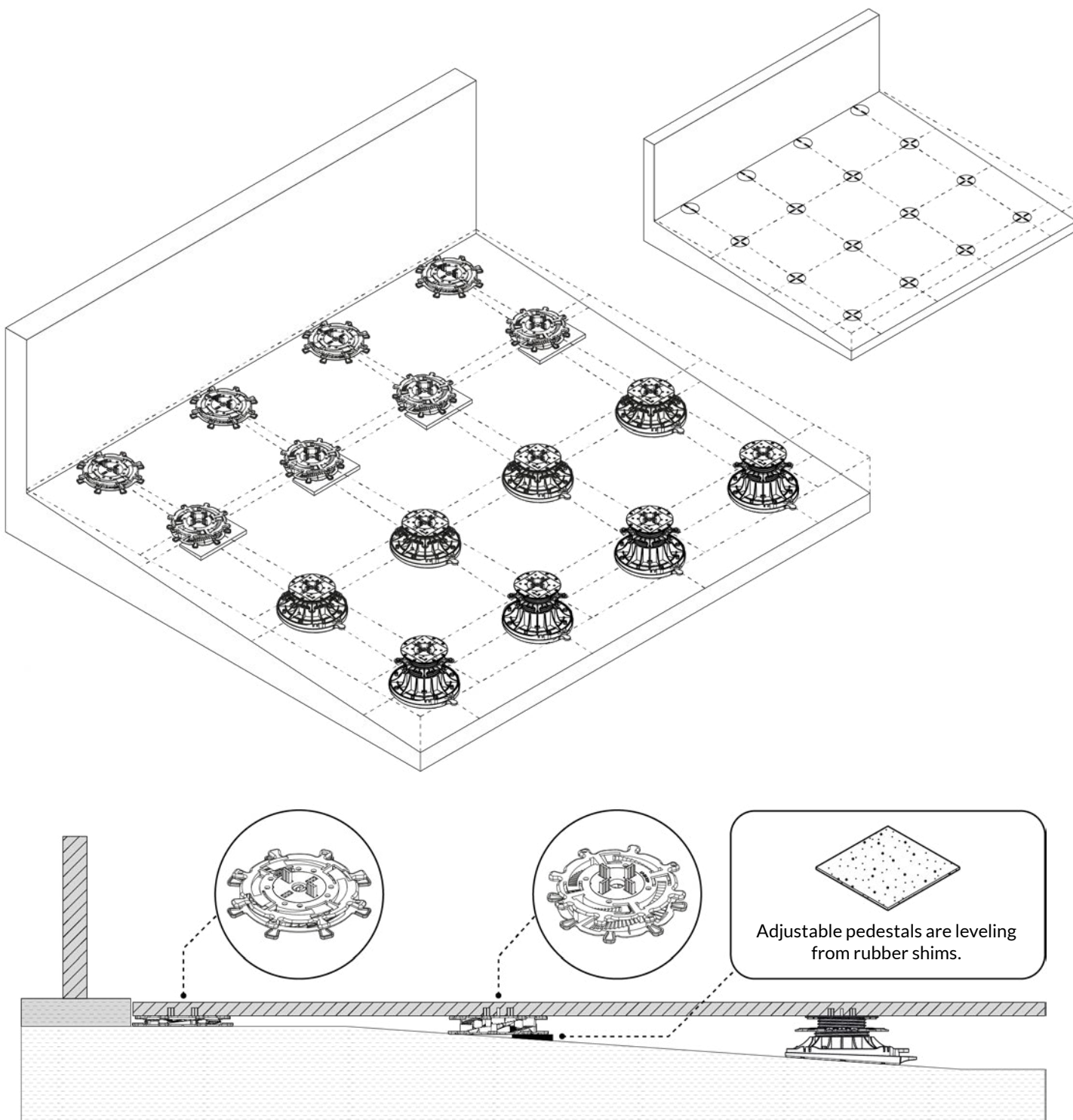


APPROPRIATE PEDESTALS PLACEMENT

B. LOW CAVITY

▼ Low height – selection of adjustable pedestals

In the event that the ventilated terrace has a slope starting from „zero“, use the SPIRAL series terrace adjustable pedestals with an adjustment range from 10 to 50 mm or fixed height support pads (for terrace tiles) or rubber support pads (for terrace joists). SOLVER Adjustable Pedestals can, if necessary, be leveled with general purpose rubber pads in construction underneath on one side.

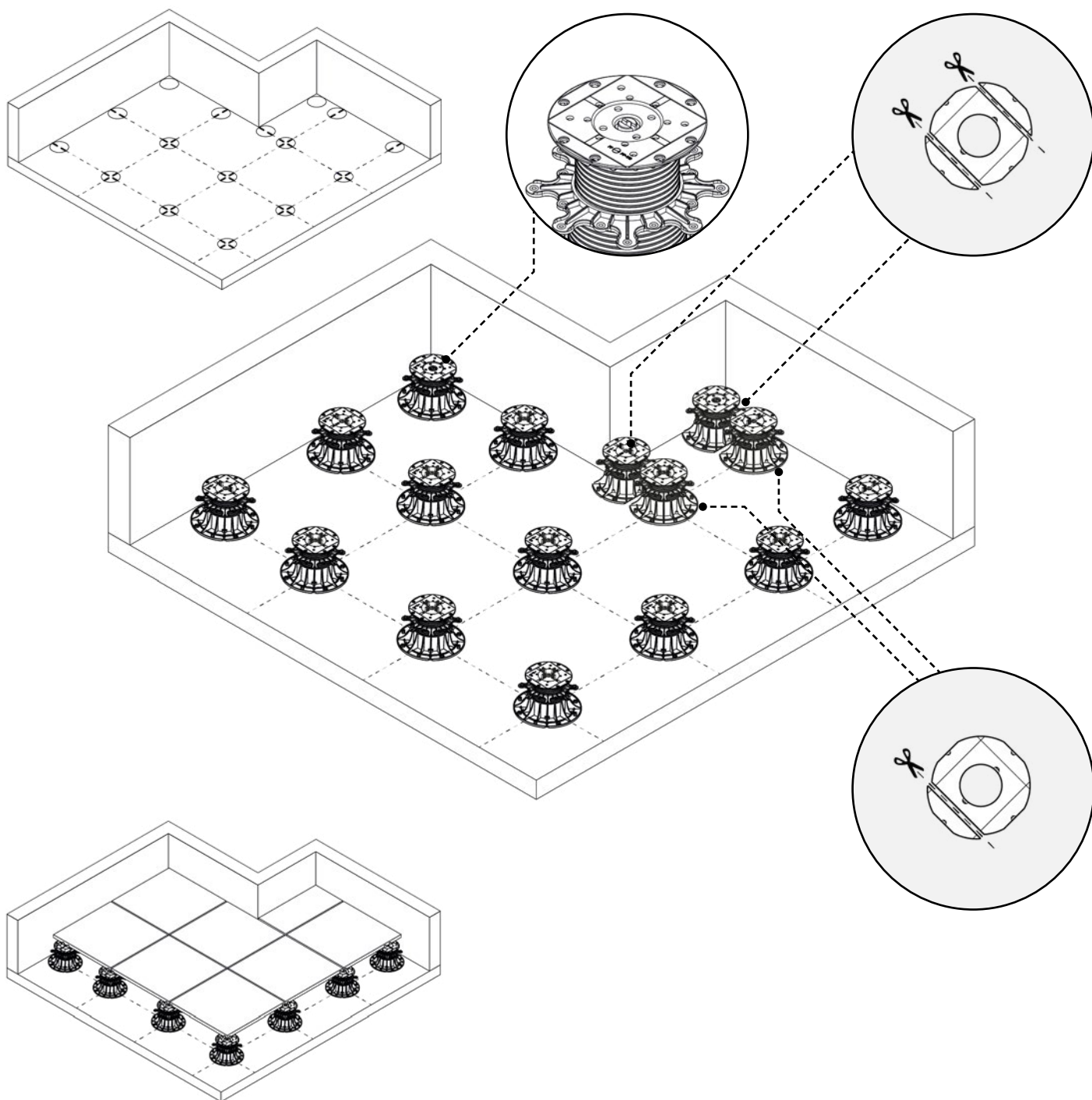


APPROPRIATE PEDESTALS PLACEMENT

C. CORNERS

▼ Adjustable pedestals in the corners

The corner of the terrace requires the use of the MAX corner adjustable pedestals, i.e. without any gap spacers, we place it under the tile. If the bases of the MAX pedestals do not fit due to the small distance between them, cut the base.

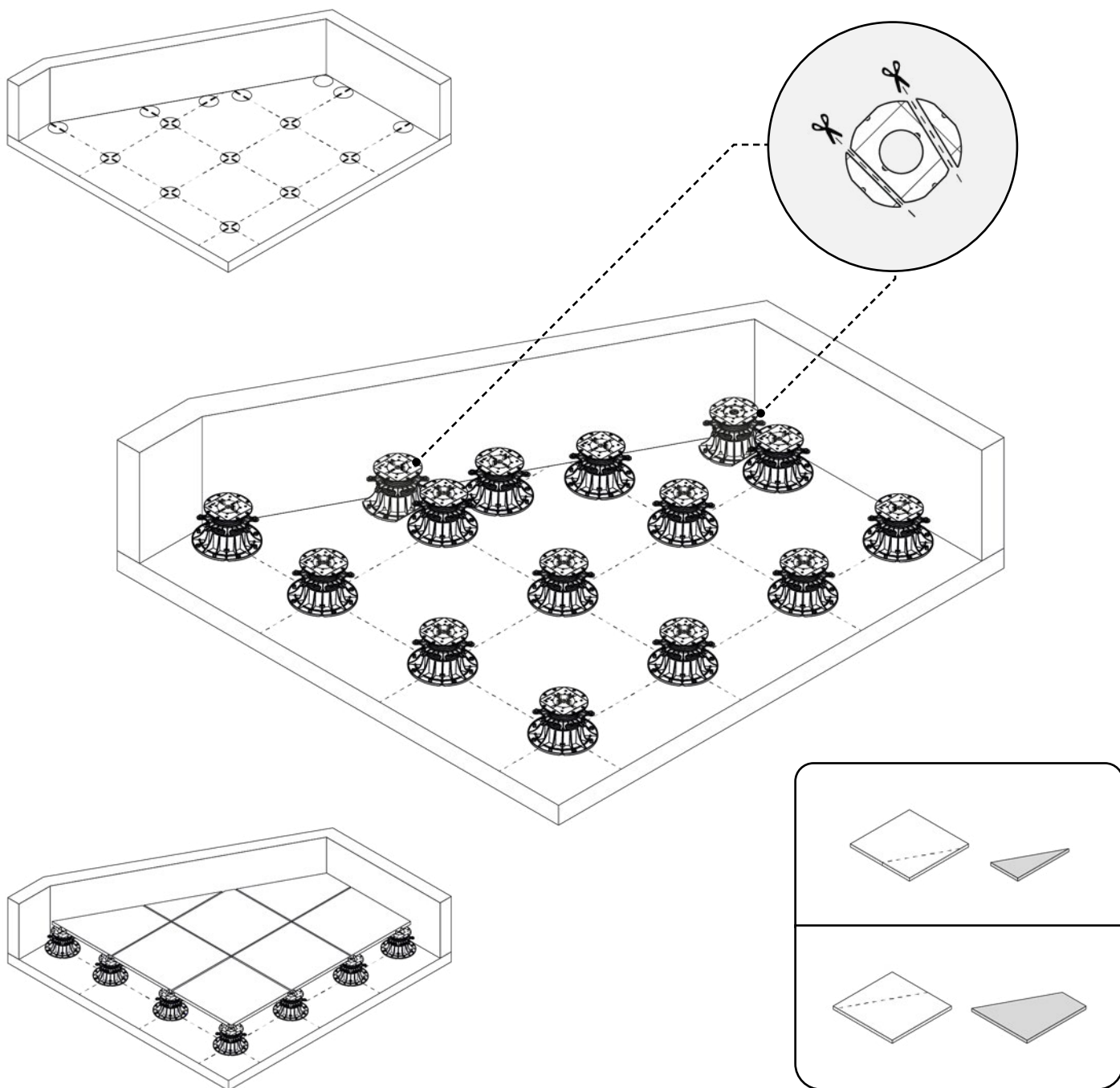


APPROPRIATE PEDESTALS PLACEMENT

D. DIAGONAL

▼ Condensation and cutting the adjustable pedestals

Diagonal lines require cutting terrace tiles into trapezoids or triangles. This requires a non-standard placement of the MAX pedestals and the appropriate matching of the tiles. The size of the tiles after cutting them should be planned at the stage of starting the laying of the terrace.

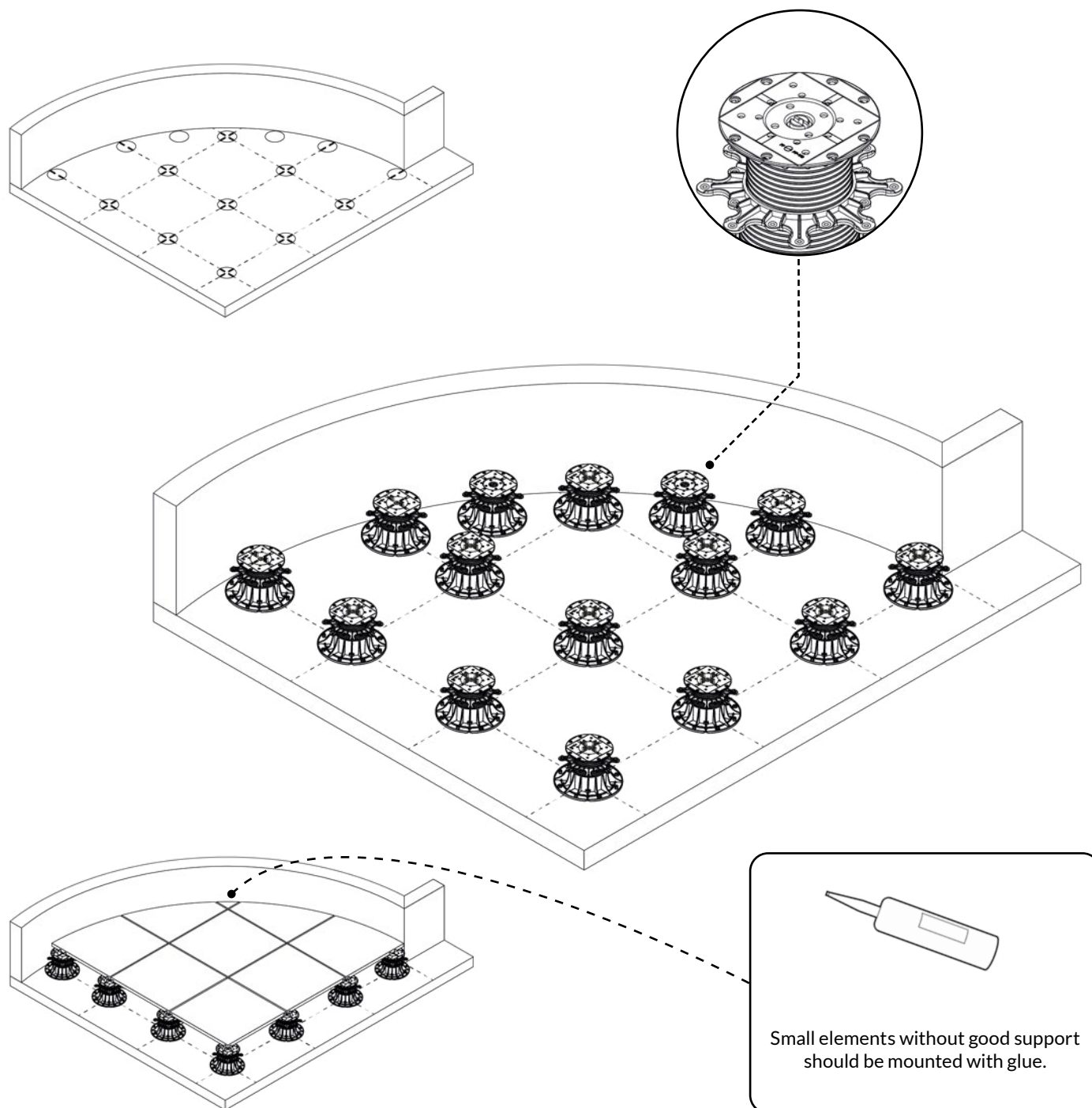


APPROPRIATE PEDESTALS PLACEMENT

E. ARC

▼ Cutting pedestals and tiles

Each terrace has its own unique geometry. Often the terraces have arched parapet walls. In this case, the arrangement of the SOLVER pedestals and the cutting of the tiles will require greater precision and the density of the SOLVER pedestals. Cutting the boards along the arc should be planned at the stage of starting the installation terrace tiles.

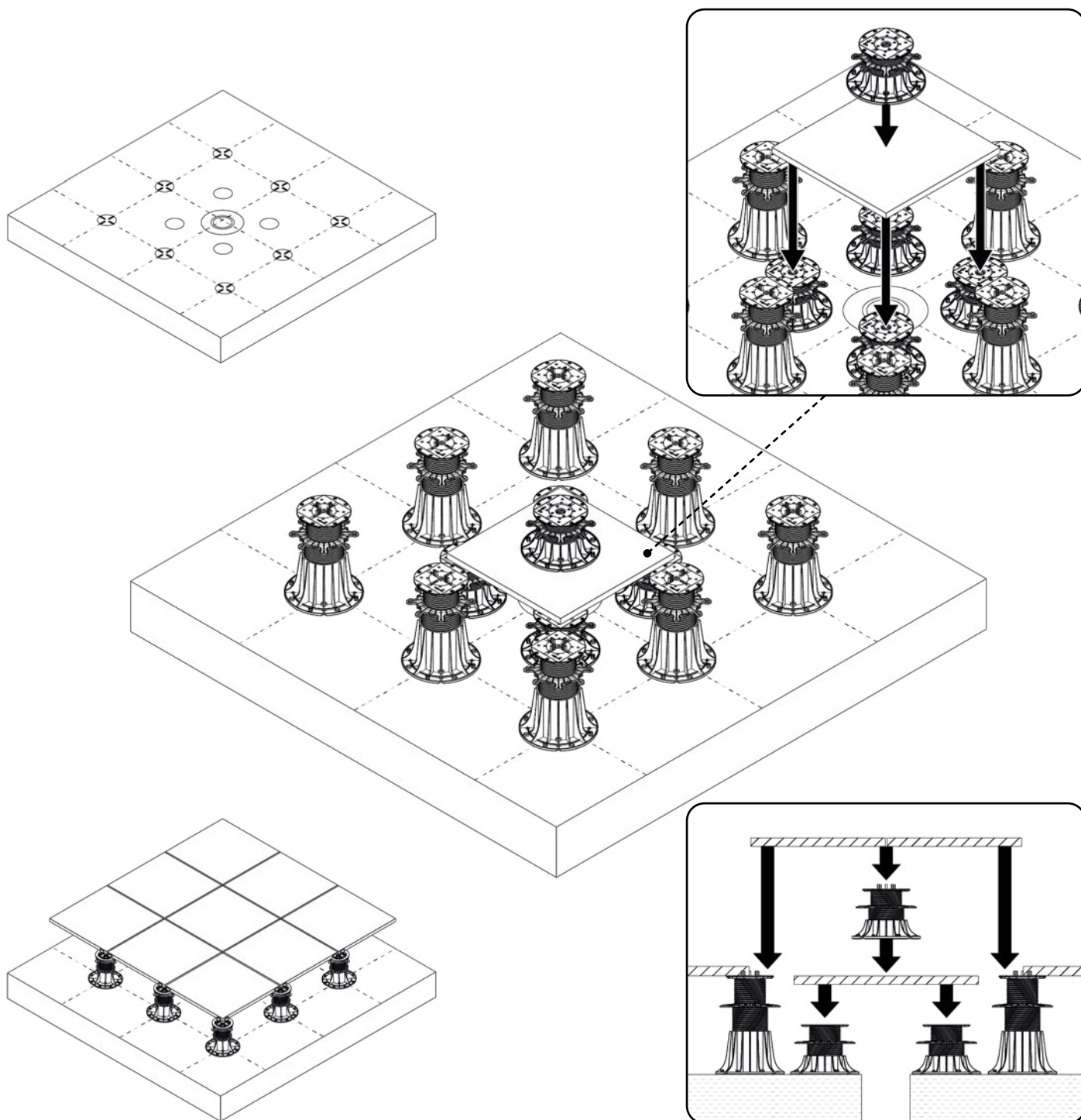


APPROPRIATE PEDESTALS PLACEMENT

F. ROOF DRAIN

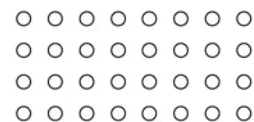
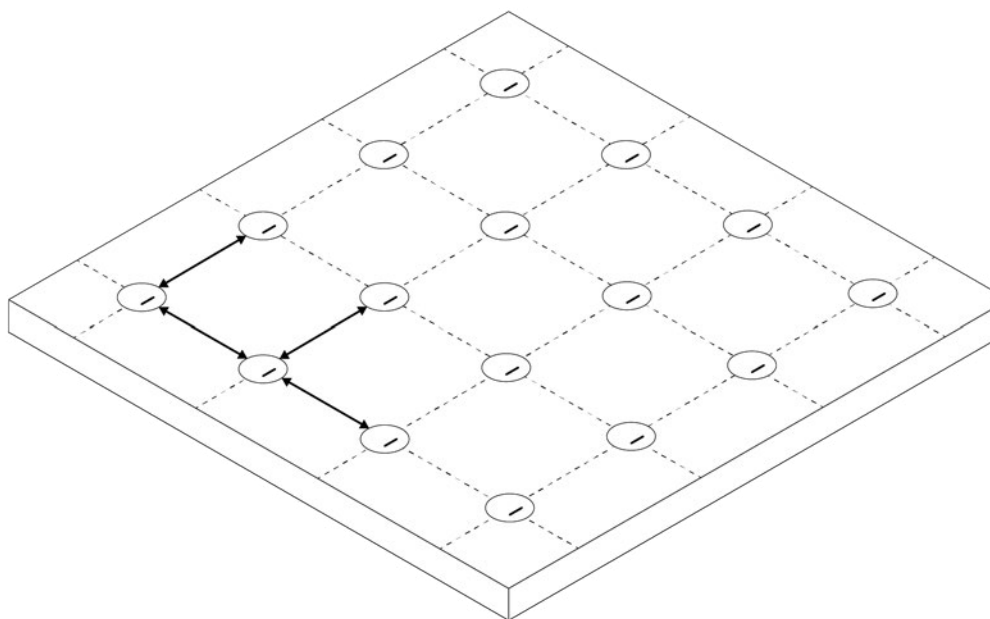
▼ Assembling additional support

The roof drain is usually located at the lowest point of the terrace. Due to the basket, the SOLVER adjustable pedestals cannot be placed directly on the drainage. The replacement should be performed by placing the MAX adjustable pedestals next to the roof drain, on which the tile is laying, on which the target MAX adjustable pedestals supporting the terrace tiles is laying.



JOISTS INSTALLATION

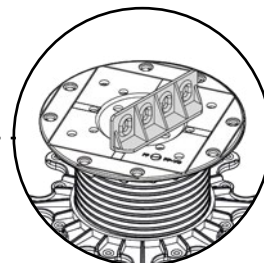
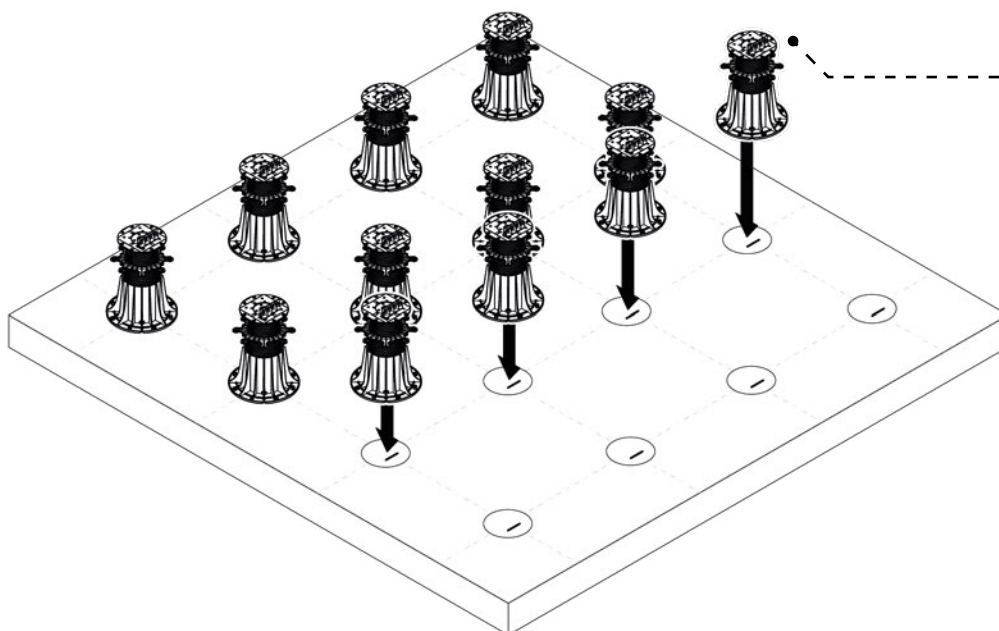
1



More pedestals use when You have thin joist made of soft material and terrace foundation is made of sensitive material. Fewer pedestal You can use when joist cross section is big and its made of hard material.

1. Make a drawing of adjustable pedestals placement plan, with great attention to places such as corners, thresholds, and doors. The spacing of the pedestals depends on the size of the joist cross-section and the weight of the terrace. A string is helpful when drawing straight lines.

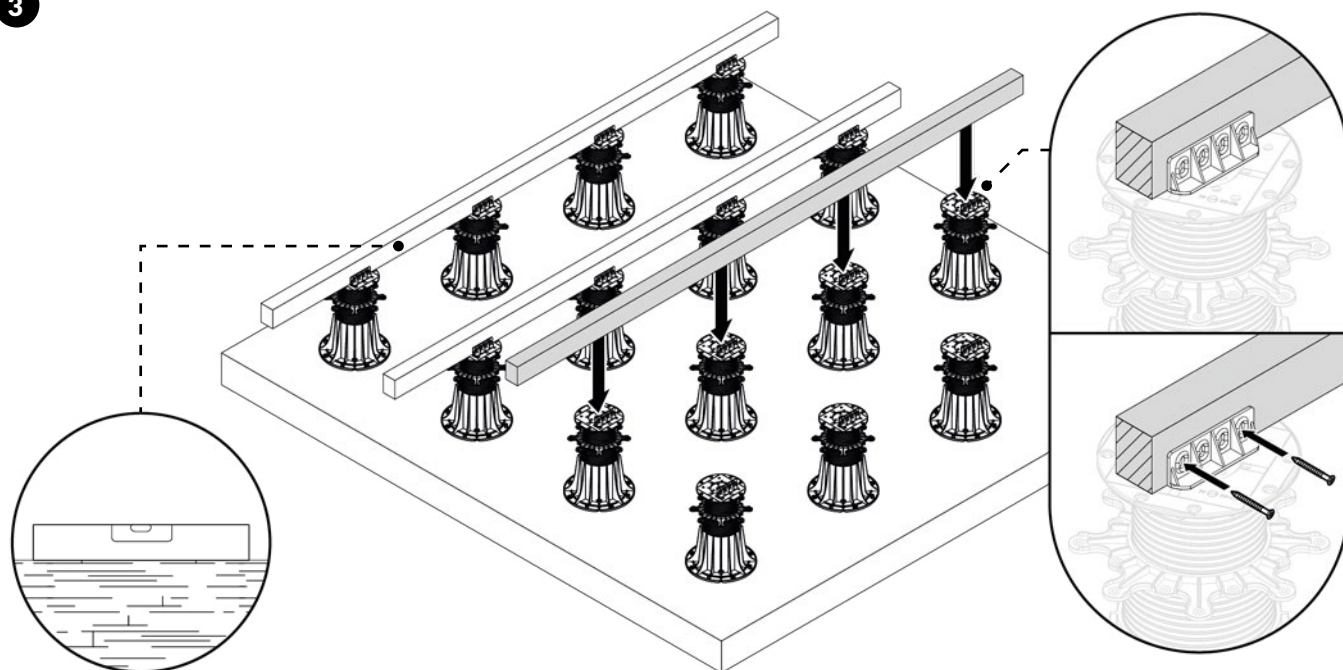
2



2. Prepare the adjustable pedestals by inserting the joist adapters into the screw. Place the pedestals in the right places. If the substrate is not level, use pedestals with a slope corrector.

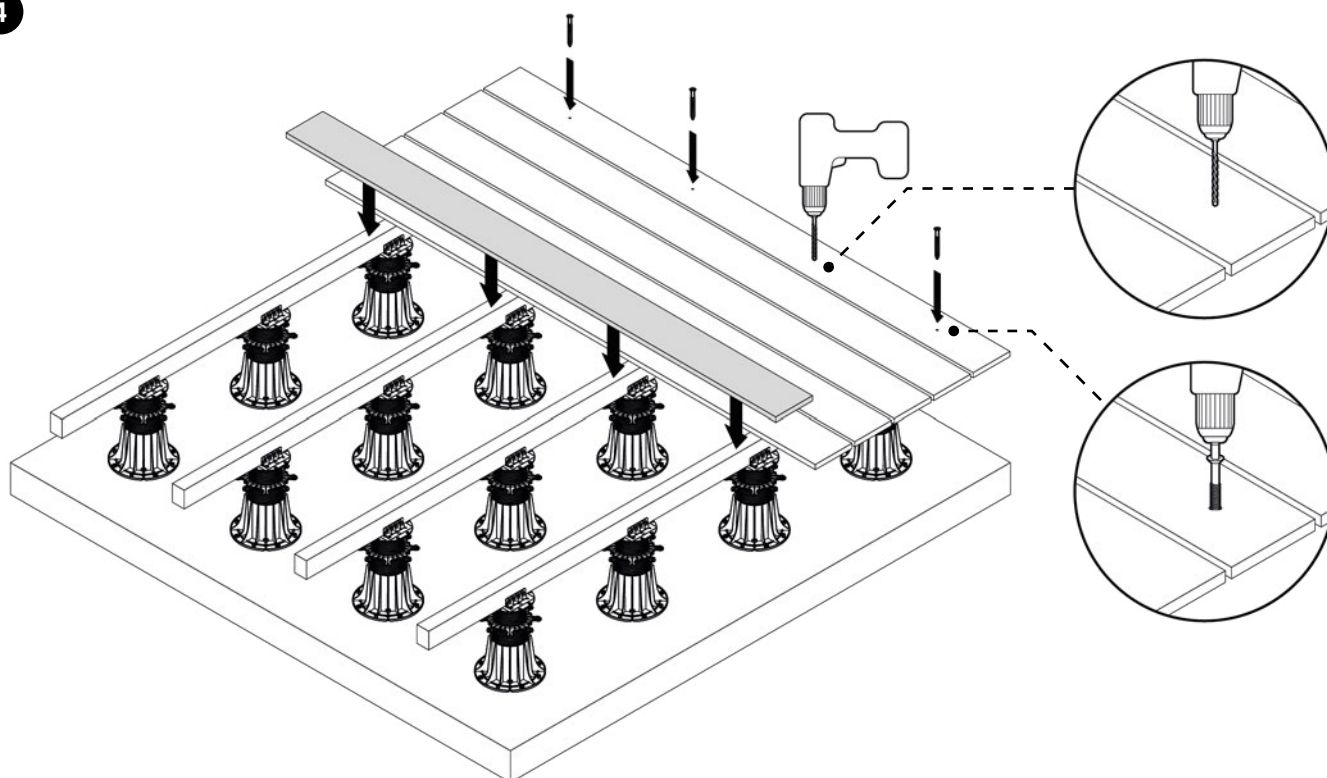
JOISTS INSTALLATION

3



3. Laying the joists on the pedestals and level them. Use the screw rings to adjust the pedestals to the correct height. Attach the joists to the adapters with screws.

4



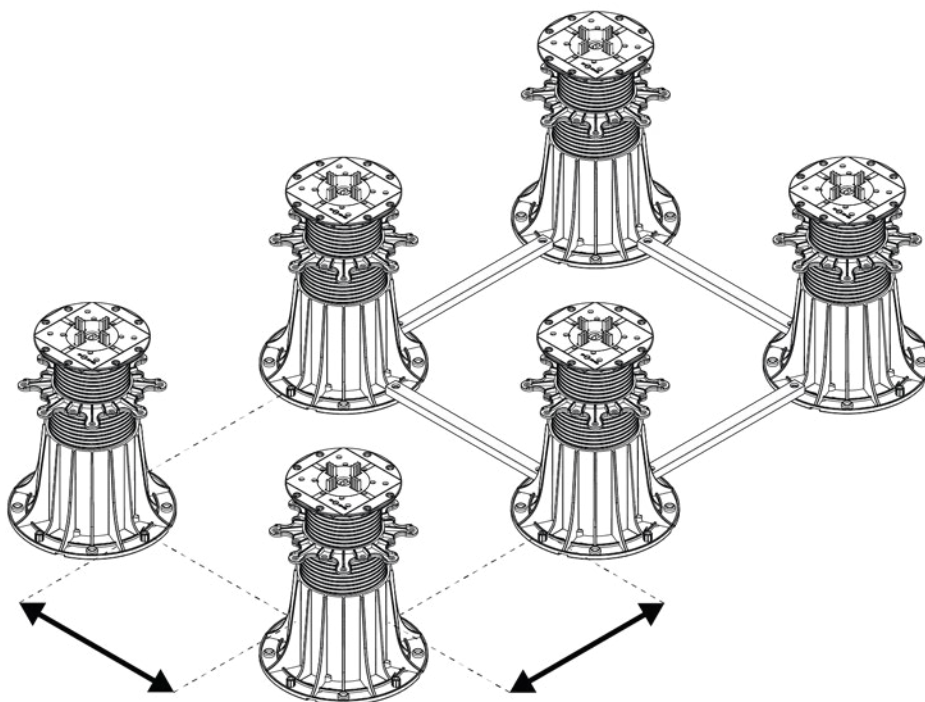
4. Lay the boards on the joists. Screw them with screws or terrace connectors.

ADDITIONAL STABILISATION

CONNECTING THE BASES TO A PROFILE BEAM / BAR

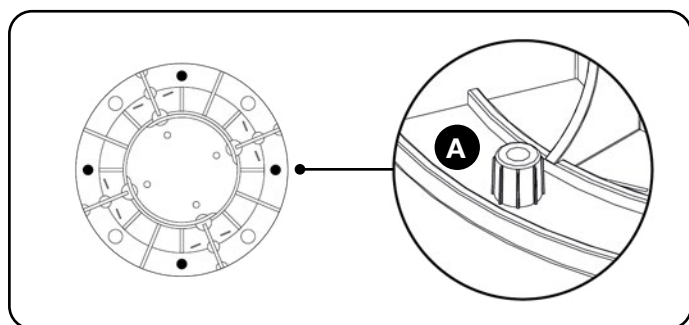
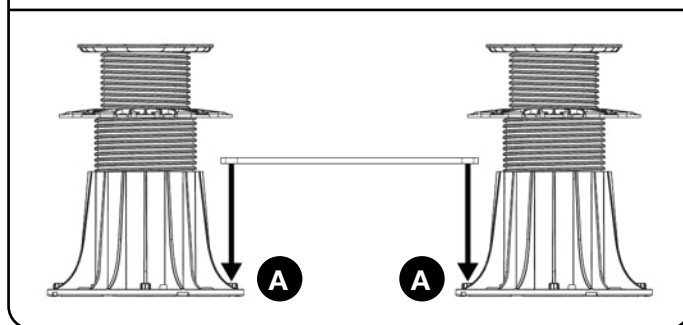
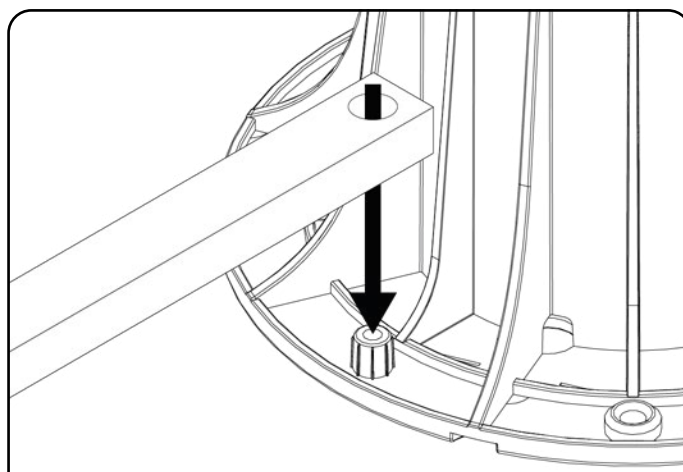
Pedestals connecting

Connecting the adjustable pedestals with profiles or beams prevents their displacement and allows for keeping the same spacing between the adjustable pedestals.



Connection

To connect two adjustable pedestals together, insert the holes in the profile or beam into the pins on the base of the pedestals.

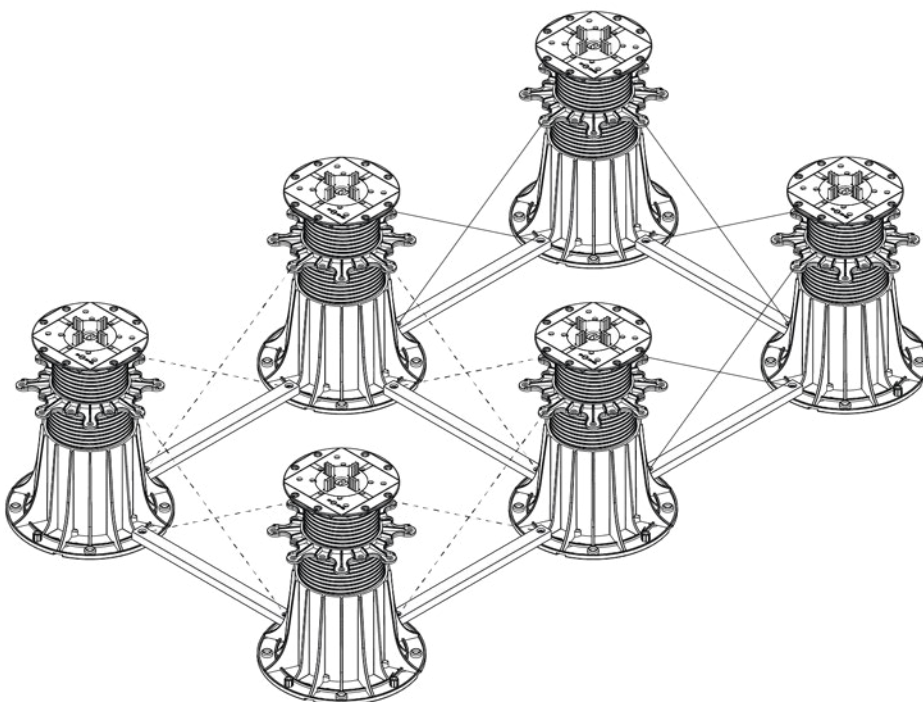


ADDITIONAL STABILISATION

PEDESTALS CROSS BRACING

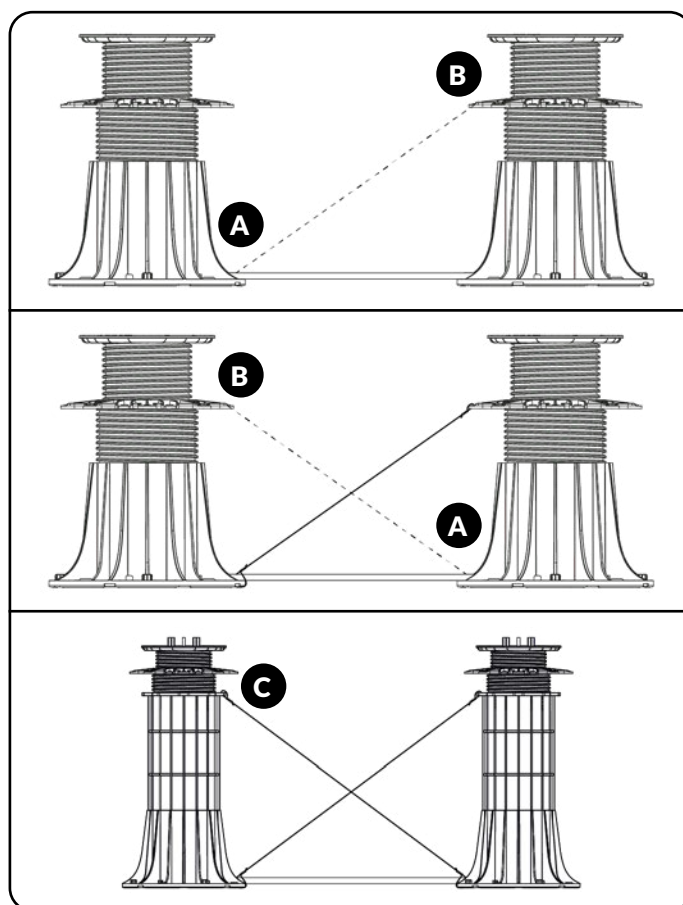
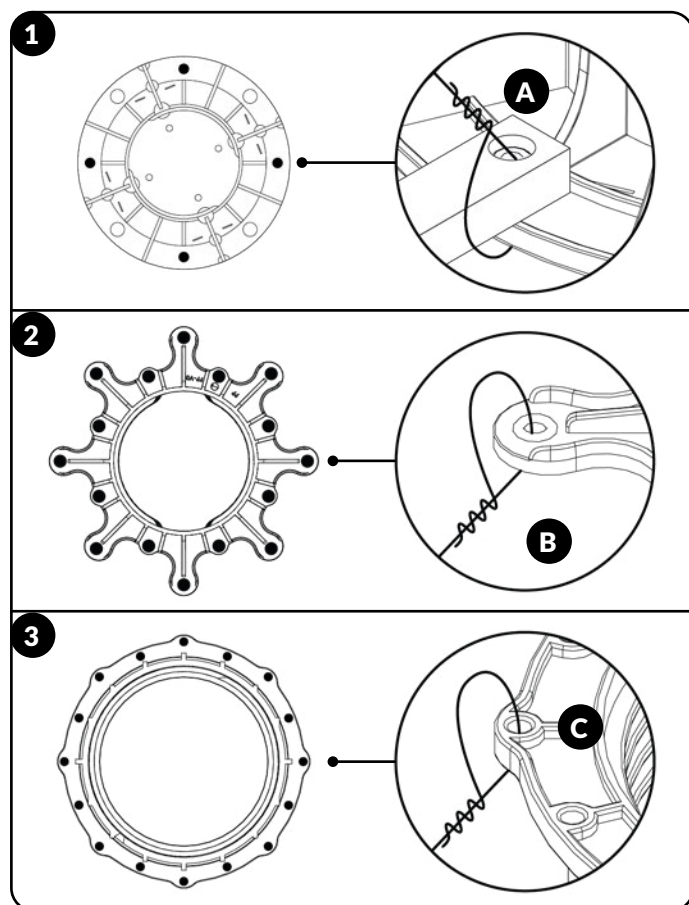
Tensions cross bracing

The tension rods are used to stiffen the entire structure of the terrace on the adjustable pedestals.



Pedestals tensions

Tension and secure the steel wire through the hole in the screw ring (or height coupler) and the hole in the base to which the profile or beam is attached. The holes for fixing the strainers on the screw ring should face each other. Adjust any height differences with a screw.

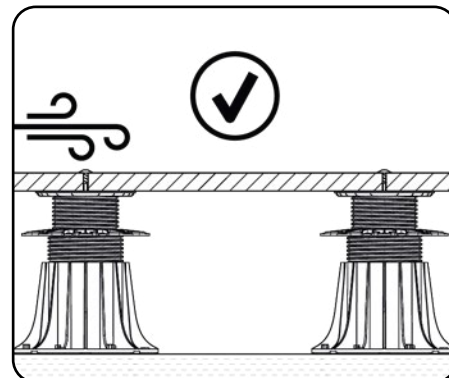
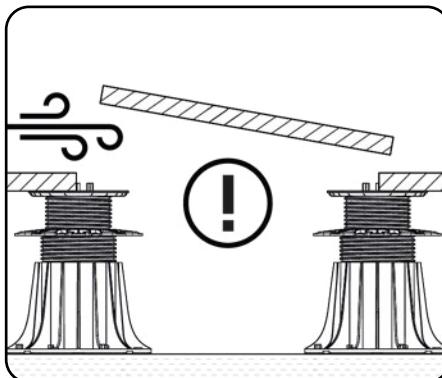


▼ Windproof

Windproof (tie down, kerf lockdown) system is designed to solve the problem of surface lift caused by wind in a safe and permanent way. Terrace surface (tiles or decking) is firmly attached to a pedestals with using anchor kerf.

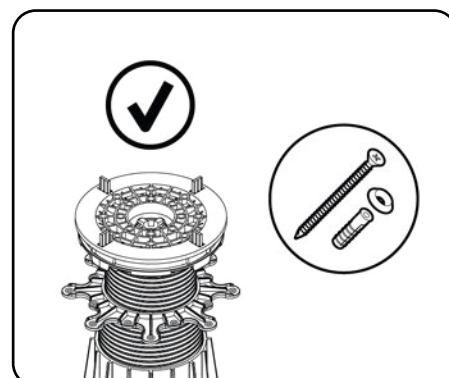
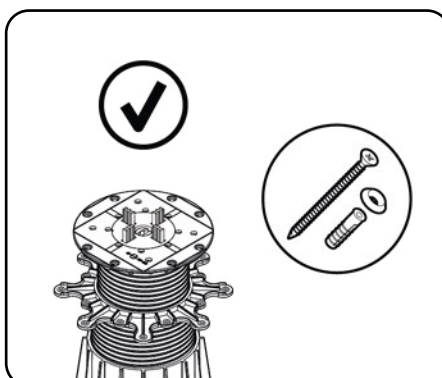
Securing the tiles

Windproof it is used to fasten the tiles to the adjustable pedestals. It prevents the tiles from being taken off accidentally or from being torn off by strong winds.



Compatibility

Windproof can be used in adjustable pedestals with a spacer disc and with a self leveling head.

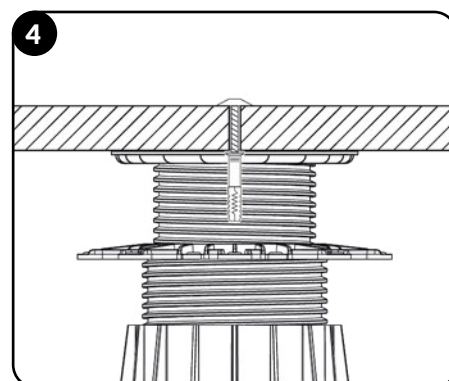
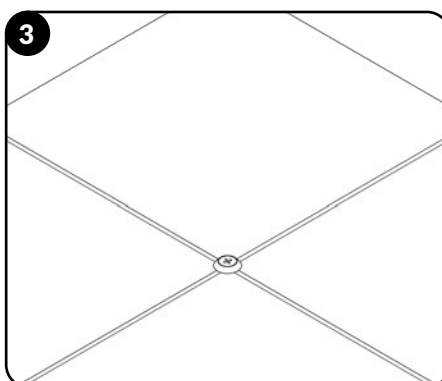
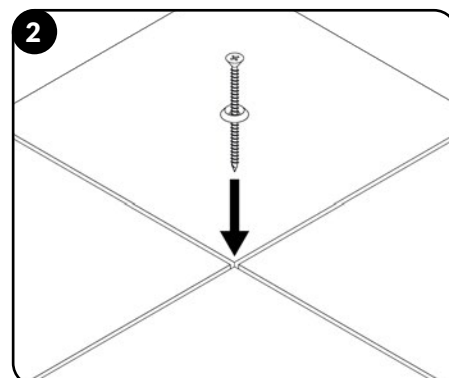
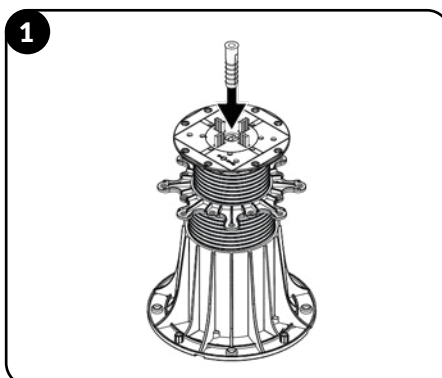


Installation

The pin should be placed in the bolt with the spacer disc installed or the self leveling head installed before laying the boards. After the tiles are laid, the screw with a washer should be screwed into the pin in the pedestals. The washer should block the corners or edges of the tiles depending on the position of the adjustable pedestals.

Option 1

Anchor kerf with a head finish over the tile. Screw head is visible from the top and extend from the tile surface.

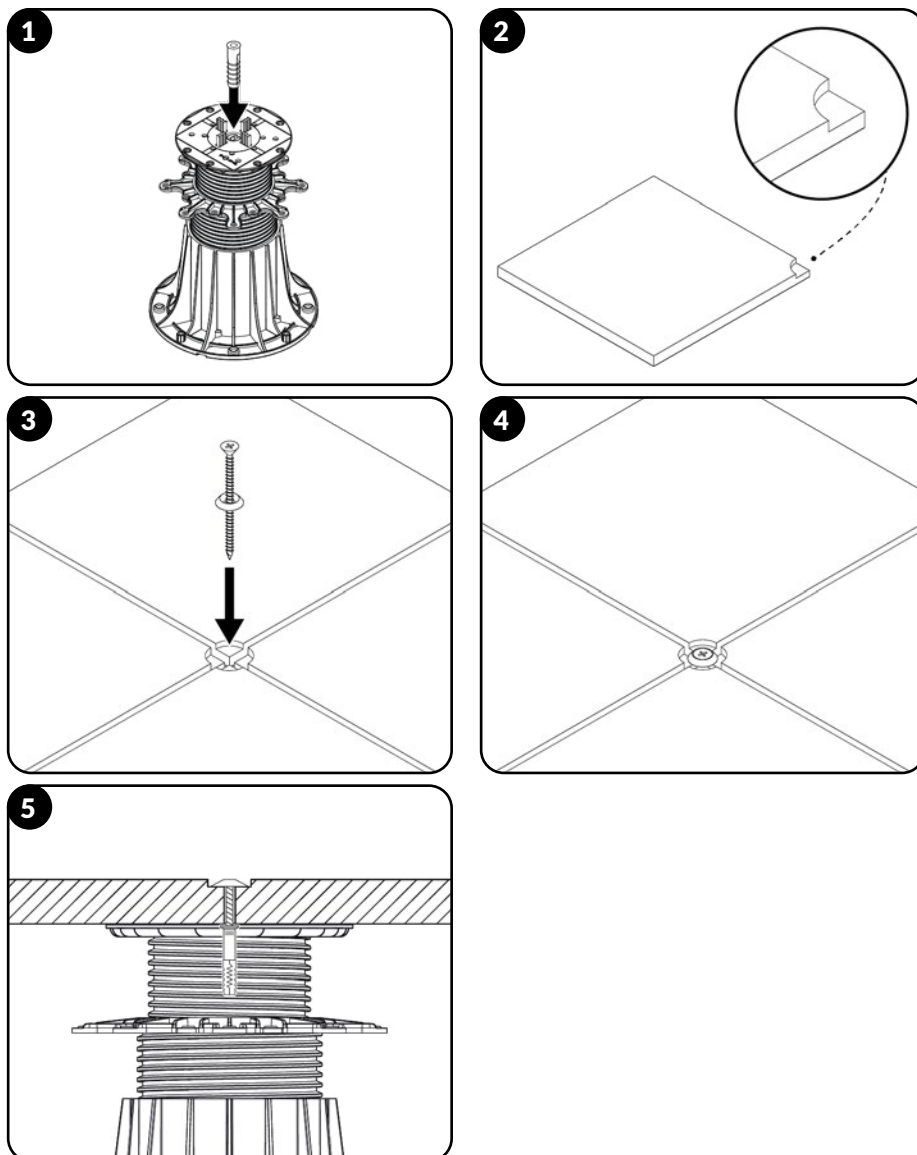


▼ Windproof

Windproof (tie down, kerf lockdown) system is designed to solve the problem of surface lift caused by wind in a safe and permanent way. Terrace surface (tiles or decking) is firmly attached to a pedestals with using anchor kerf.

Option 2

Tile is prefabricated with a cut on the corners which allows to hide in anchor kerf head. Screw head is visible from the top. Tile surface is flat.

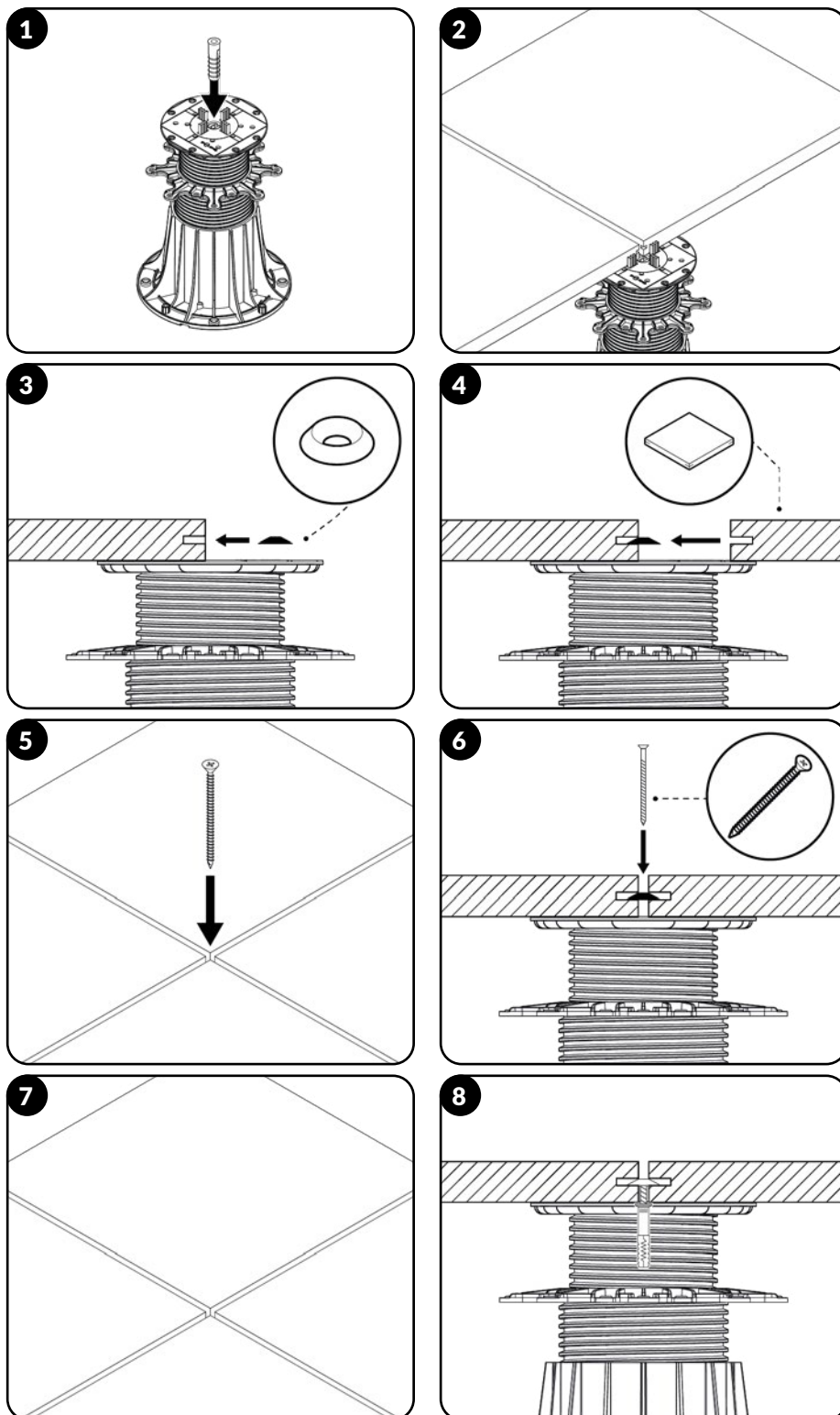


▼ Windproof

Windproof (tie down, kerf lockdown) system is designed to solve the problem of surface lift caused by wind in a safe and permanent way. Terrace surface (tiles or decking) is firmly attached to a pedestals with using anchor kerf.

Option 3

Corners of the tile is manually cut in middle of the height where anchor kerf head can be locked. Screw head is not visible from the top. Tile surface is flat.



WARRANTY

Within the scope of this Warranty, SOLVER-SYSTEMS Sp. z o.o. assures the Buyer that the Product to which this Warranty Card is issued is of good quality. The Warranty on SOLVER ADJUSTABLE TERRACE PEDESTALS (hereinafter referred to as „SOLVER PEDESTALS” or „Product”) shall be given on the basis of art. 577 of the Civil Code and under the conditions described below. This Warranty is valid only with proof of purchase. The terms and conditions of this Warranty which are valid on the date of release of the Product to the Buyer shall apply.

1. DEFINITIONS

- a. Guarantor - SOLVER-SYSTEMS Sp. z o.o. , entered into the Register of Entrepreneurs of the District Court for Gdańsk-Północ in Gdańsk, VII Commercial Division of the National Court Register under number KRS 0000241286, REGON: 191118644, NIP: 584-11-83-361, (hereinafter referred to as „SOLVER” or the „Guarantor”).
- b. Warranty Card - a document issued by the Guarantor along with the Product, which confirms that the Warranty on the Product was issued by SOLVER. The Warranty Card is an integral part of the Warranty on SOLVER products.
- c. Warranty - the terms and conditions of SOLVER’s warranty responsibility for the Product, constituting an integral part of the Warranty Card.
- d. The entitled party under the Warranty on SOLVER PEDESTALS – a Buyer who purchased a SOLVER PEDESTALS Product covered by the Warranty (hereinafter referred to as the „Buyer”).
- e. Product under Warranty - SOLVER PEDESTALS product specified in detail in point 2 of this Warranty, subject to the terms and conditions of this Warranty.
- f. Proof of sales: a VAT invoice confirming the purchase of a SOLVER PEDESTALS Product by the Buyer.
- g. Date of purchase: date of issue of the proof of sales by SOLVER.

2. PRODUCT UNDER WARRANTY

Product under Warranty - SOLVER ADJUSTABLE TERRACE PEDESTALS for which the Buyer was given the Warranty Card.

3. SCOPE OF THE WARRANTY

- a. The Guarantor shall grant the Warranty on the Product specified in point 2 of this Warranty, which can be found on the invoice, being proof of sale of the Product to the Buyer.
- b. The Warranty on the Product shall be granted by SOLVER, provided that the Buyer pays the invoice issued for the Product in a timely manner.
- c. The Warranty is valid only with proof of purchase.
- d. Guarantor guarantees that the products SOLVER PEDESTALS purchased by the Buyer, installed (if their installation has not been made by Guarantor) and used in accordance with the construction (ie. The Regulation on technical conditions to be met by buildings and their location, Construction Law and the relevant reference Standards), during the period granted to the Guarantee maintain their properties utility, as described in the Technical Specifications of the product and the Declaration of Performance.
- e. The quality guarantee covers only defects which occurred in the Product as a result of reasons existing at the time of its release, which are not expressly excluded according to the contents of this Warranty or in any other document issued by SOLVER.
- f. The Warranty is granted for all buyers of the Products who have their registered seats or permanent places of residence in the European Community, provided that the Product has been sent to and used only in countries belonging to the European Community.
- g. The warranty does not cover defects arising Goods for reasons beyond the SOLVER. The guarantee, in particular, does not cover defects of the Goods:
 - occurring during its improper transport or improper storage by the Buyer or third parties (if transportation, storage was not done by the Guarantor),
 - resulting assembly (if it was not made by the Guarantor) or use / use of the Goods not in accordance with art construction and / or reference Standards,
 - resulting from improper preparation of the assembly process of the Goods (if it was not made by the Guarantor),
 - arising from structural defects buildings, in which the assembly has been Goods,
 - arising from building design solutions, resulting in deformation of the Goods exceeding its parameters as defined in the Technical Specification,
 - arising after the release of the Goods, as a result of the Buyer or third parties (if assembly, transportation has not been done by Guarantor),
 - resulted from mechanical, chemical, and/or thermal damage to the Product,
 - resulted from natural disasters or any other force majeure.
- h. This Warranty does not cover parts which are subject to natural wear and tear due to normal use of the Product.
- i. This Warranty excludes in full the statutory warranty under the Civil Code for the purchased Product.

4. WARRANTY PERIOD

- a. Unless stated otherwise in a sales document, the Warranty Period is determined by the contents of the Warranty Card issued by SOLVER with the Product for the Buyer.
- b. The Warranty Period commences on the date of purchase, which is determined by the proof of purchase, and ends on the last day of the Warranty period.

5. RIGHTS UNDER THE WARRANTY

- a. The Buyer’s rights under the Guarantee granted may be exercised only upon presentation to SOLVER of a Guarantee Card signed and sealed by SOLVER and a proof of purchase. The lack of any of the above-described documents prevents the Buyer from submitting an effective claim.

WARRANTY

6. COMPLAINTS

- a. An effective complaint may be lodged only by a Buyer who presents a complaint with a detailed description of: the fault/defect, the type of Product, the day of its purchase and installation, the day of detection of the fault/defects, photographs of the fault/defect, and a Warranty Card signed by SOLVER, together with proof of purchase of the Product.
- b. The complaint shall be sent to the address of the registered seat of the Guarantor in writing or by e-mail to the above-mentioned addresses, along with attached documents referred to in paragraph 6.a. of this Warranty.
- c. The complaint must be sent to the address of SOLVER immediately upon detection of a defect in the Product. When it comes to defects which were visible to the naked eye at the time of receipt of the Product by the Buyer, the term "immediately" means a period no greater than 3 working days, whereas as for defects that became apparent in the Product after the date of its receipt this period shall be no greater than 7 working days. Failure to notify SOLVER of a fault/defect in the Product within the time limit specified in the preceding sentence shall contribute to the termination of the rights resulting from the Warranty as regards the defect.
- d. The complaint must be lodged within the period of time specified in section 6.c and sent to SOLVER in a complete written form with a set of required and properly issued documentation as referred to in paragraph 6.a. of this Warranty.
- e. A Buyer who lodges a complaint is required to make it possible for SOLVER to carry out an inspection of the Product at the place of its installation or storage, to prepare a technical expert's opinion on the Product, and to collect the necessary number of samples of the Product for tests. These will allow SOLVER to verify the validity of the Buyer's complaint.
- f. If the Buyer lodges a complaint in a correct manner and SOLVER confirms the existence of a fault/defect covered by the Warranty, SOLVER undertakes to deliver a Product free from defects.
- g. SOLVER shall inform the Buyer about its decision as to the validity of the complaint within 21 days from the date of submission of the Buyer's valid complaint. Delivery of the Product shall be made by SOLVER without undue delay, within a time limit which the Buyer will be informed about, subject to point 6.c.
- h. SOLVER reserves the right to extend the date of delivery of the Product by the period of time in which SOLVER, for reasons beyond its control, cannot fulfil the complaint demands of the Buyer.
- i. In the case of an unjustified complaint, the Buyer is obliged to reimburse SOLVER for the costs of assessment of the Product subject to the complaint, in particular expenses incurred by Representatives of SOLVER in travelling to the place where the inspection of the Product took place (including the costs of travel, accommodation, and food of the Representatives of SOLVER), the cost of assessment and performance of tests of samples of the Product, the costs of preparation of a technical expert's opinion, and the costs of conducting correspondence and of transportation of the Product.

7. FINAL PROVISIONS

- a. This Warranty has been granted under Polish law and in the case of matters not covered by this Warranty, the provisions of the Polish Civil Code shall apply.
- b. Any disputes concerning this Warranty shall be resolved amicably through arbitration. If the Buyer and SOLVER cannot reach an agreement through negotiation, the dispute shall be resolved by the court competent for the registered seat of SOLVER.



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SOLVER.