

# SOLVER.

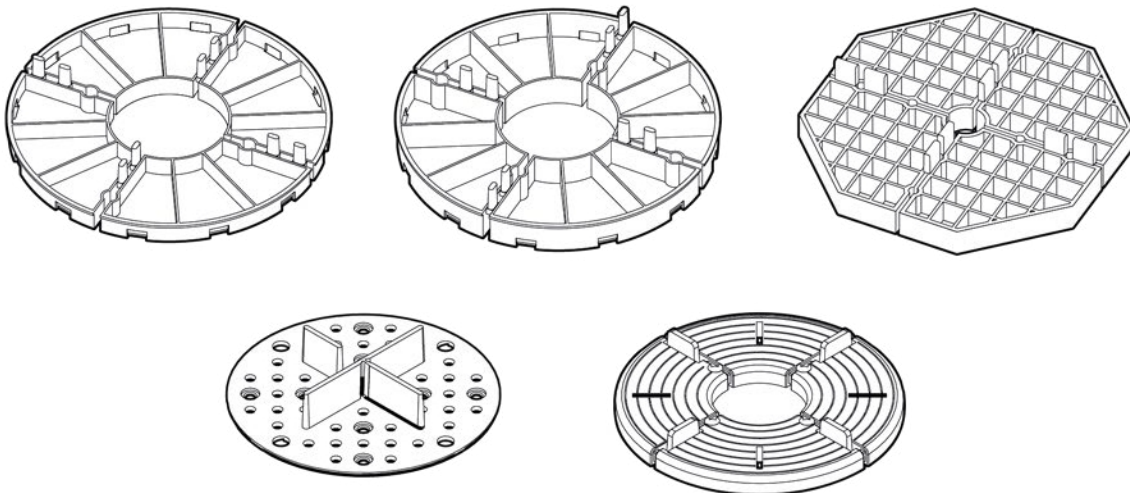
## VENTILATED TERRACES TERRACE SUPPORTS

Fixed-height supports for terrace slabs

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### INSTALLATION AND USER MANUAL

## TERRACE SUPPORT SERIES

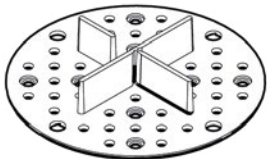
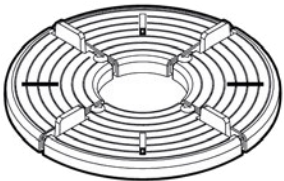
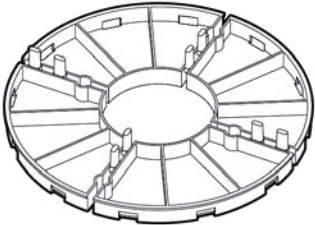
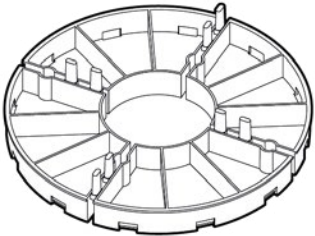
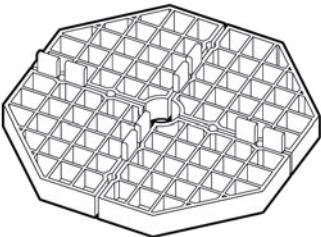


**2 / 8 / 10 / 15 / 16 mm**

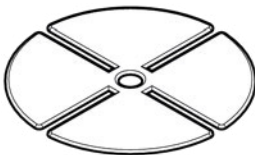
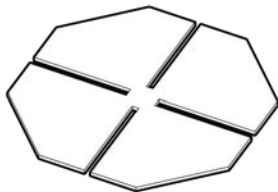
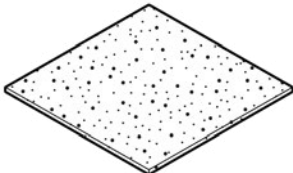
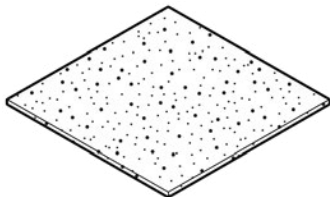
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# DESCRIPTION OF COMPONENTS

| No. | ITEM                                                                                | NAME<br>/ DESIGNATION         | GENERAL DESCRIPTION                                                                                                                                                                                                                                                                                                                                                  |
|-----|-------------------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   |    | <b>2 MM BASE</b><br>PAD-002   | A terrace spacer with a fixed height of 2 mm. Used for laying slabs on gravel, crushed stone, sand-cement bedding, etc. It features built-in 3 mm joints and holes for inserting joint spacers, allowing for the use of 5 mm joint mortar.                                                                                                                           |
| 2   |    | <b>8 MM STAND</b><br>PAD-008  | A flexible terrace spacer with a fixed height of 8 mm is used for laying slabs in a ventilated terrace system. It features built-in 3 mm joints and holes for installing joint spacers, allowing for the use of 5 mm joints.                                                                                                                                         |
| 3   |   | <b>10 MM STAND</b><br>PAD-010 | A universal fixed-height modular spacer, available in 10 mm and 15 mm variants, is used for installing slabs in a ventilated deck system. It features built-in 3 mm joints and holes for installing joint spacers, allowing for the use of 5 mm joints. The base has additional drainage holes to prevent water from pooling. It can be stacked and joined together. |
| 4   |  | <b>15 MM STAND</b><br>PAD-015 |                                                                                                                                                                                                                                                                                                                                                                      |
| 5   |  | <b>16 MM STAND</b><br>PAD-016 | The 16 mm fixed-height modular spacer is used for installing slabs in a ventilated deck system. It features built-in 3 mm joints and holes for installing joint clips, allowing for the use of 5 mm joints. Fixed-height deck spacers are used for installing slabs directly on a stable subgrade and on top of insulation.                                          |

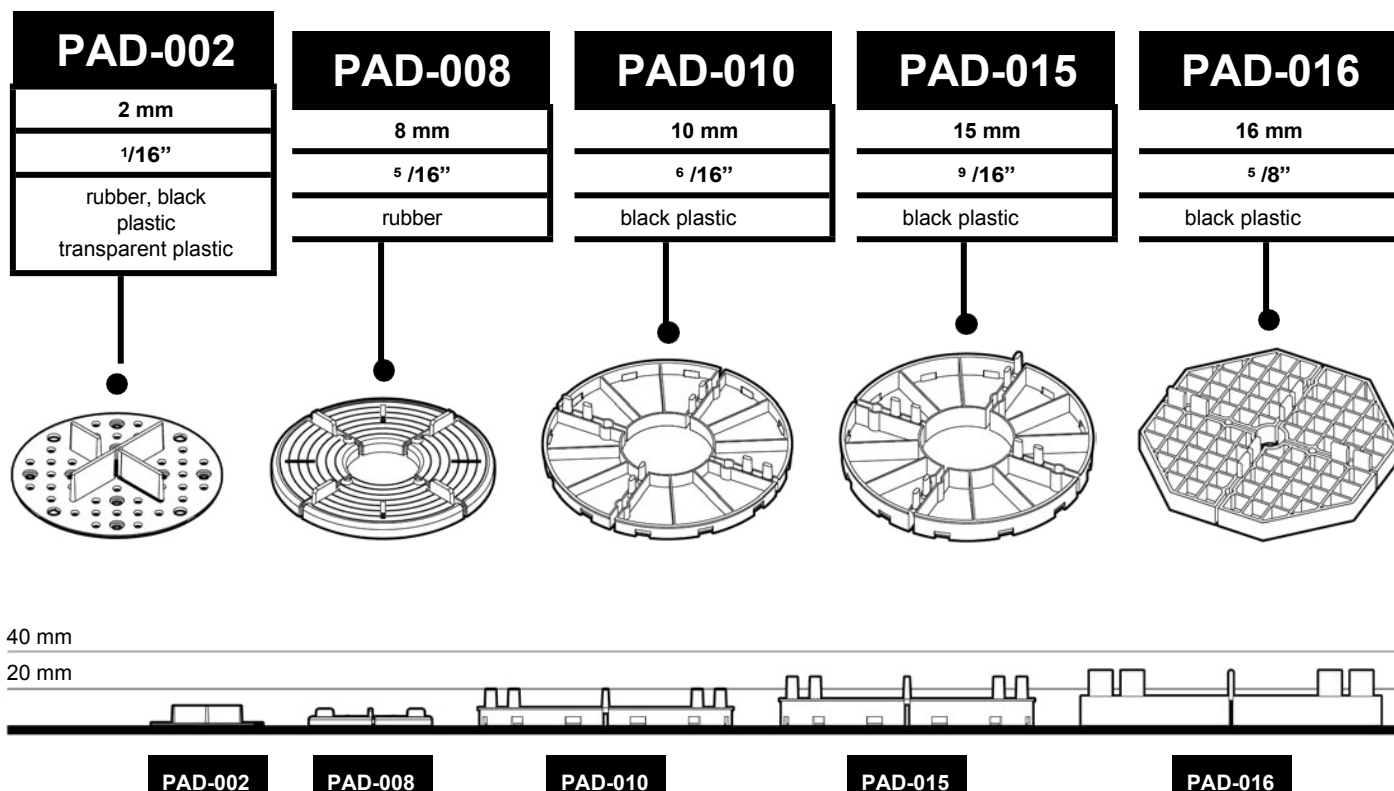
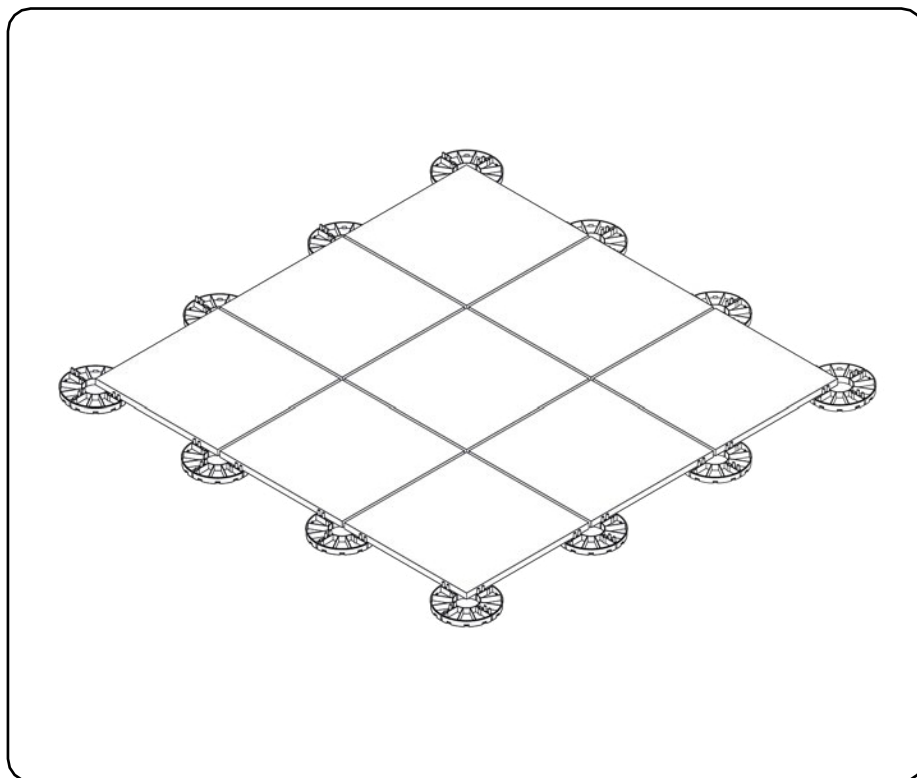
# DESCRIPTION OF COMPONENTS

| No. | ELEMENT                                                                             | NAME<br>/ DESIGNATION                                              | GENERAL DESCRIPTION                                                                                                                                                                               |
|-----|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6   |    | <b>JOINT SPACERS</b><br><b>5 MM</b><br>L5                          | Joint spacers are used to create a 5 mm wide installation gap (expansion joint). They are compatible with the entire deck support system.                                                         |
| 7   |    | <b>SPACER</b><br><b>RUBBER</b><br>AKCW-SH100                       |                                                                                                                                                                                                   |
| 8   |    | <b>RUBBER</b><br><b>RUBBER</b><br>AKCW-SH145                       | Specialized 1.5 mm thick rubber pads for stands, designed to level and soundproof the floor. They can also be used to compensate for variations in panel thickness.                               |
| 9   |   | <b>PAD</b><br><b>RUBBER</b><br>AKCW-SH175                          |                                                                                                                                                                                                   |
| 10  |  | <b>RUBBER</b><br><b>GRANULATE</b><br><b>PAD</b><br>AKCW-SBR100X100 |                                                                                                                                                                                                   |
| 11  |  | <b>RUBBER</b><br><b>GRANULATE</b><br><b>PAD</b><br>AKCW-SBR200X200 | Rubber pads with thicknesses of 3 mm and 8 mm, featuring protective and sound-dampening properties, designed for use under stands on surfaces requiring additional protection or sound dampening. |

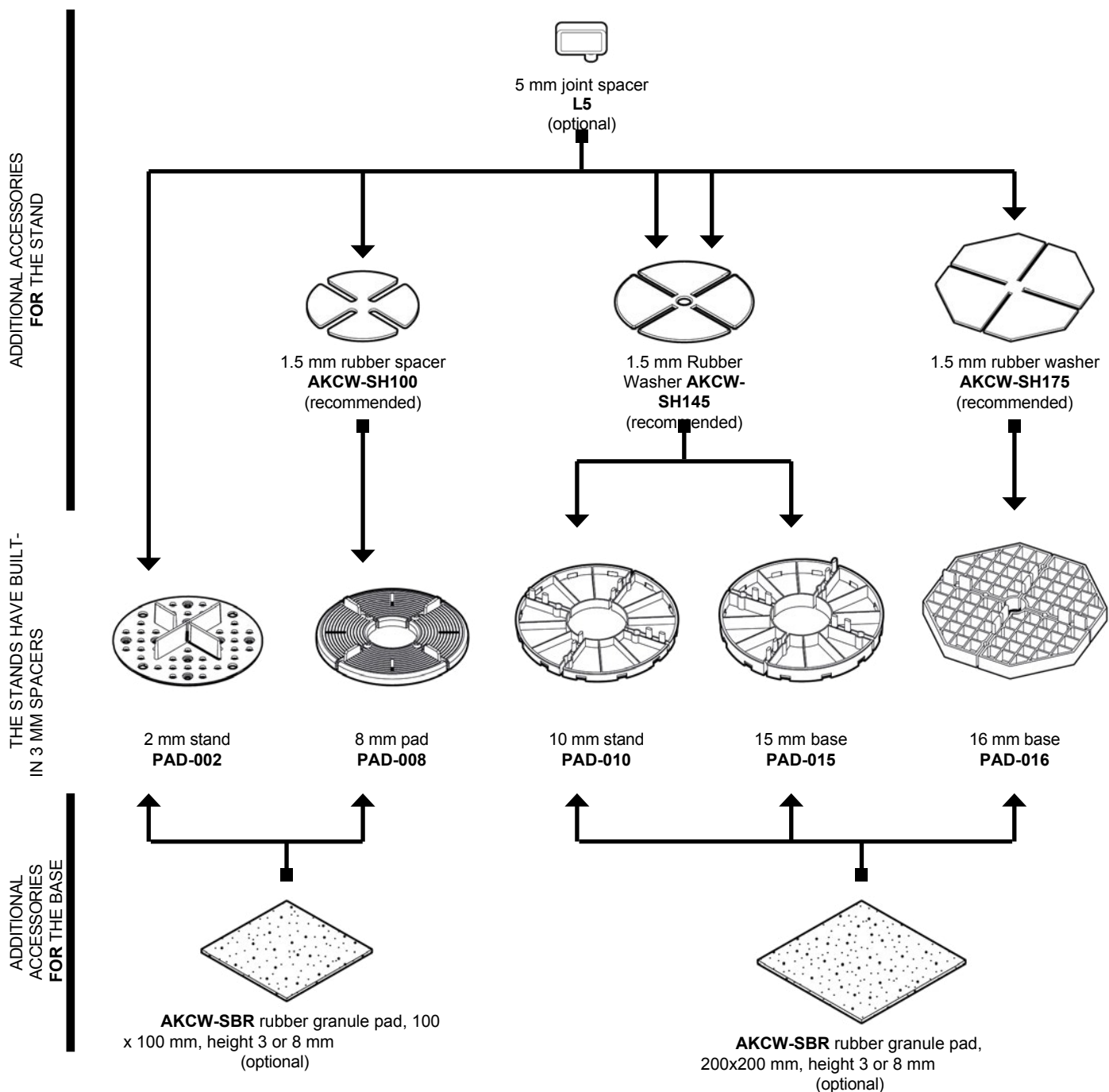
# PATIO FURNITURE SYSTEM FOR INSTALLING VENTILATED DECKS

## TERRACE SUPPORTS

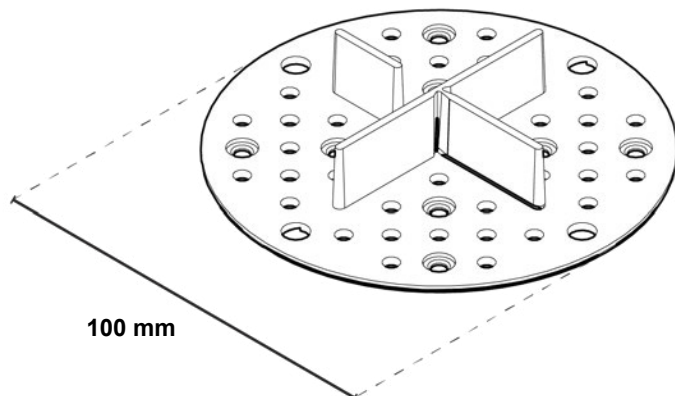
Decking pedestals are a modern solution designed for constructing floors and decks using decking boards. The system can be used both indoors and outdoors.



# ASSEMBLING KITS



# 2 MM BASE DIMENSIONS



## Terrace base 2 mm

Code: PAD-002

Diameter: 100 mm Height: 2 mm

Height with spacers: 15 mm

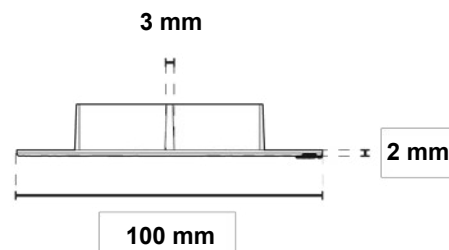
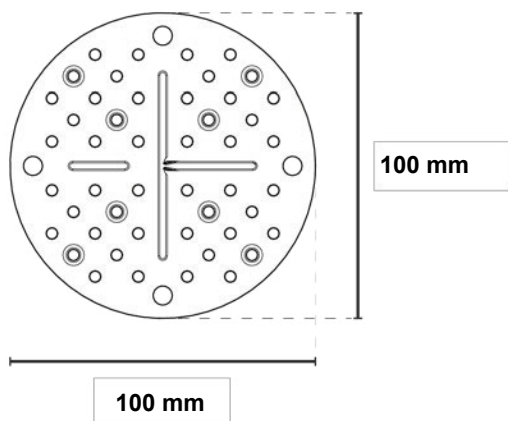
Material: rubber, black PP, or clear PP

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

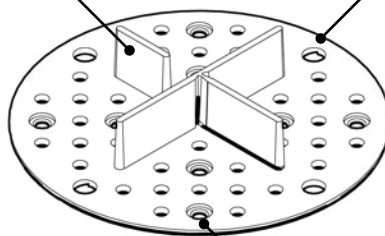
capacity: up to 1,000 kg\*

(\* See technical specifications for load capacity details)

Stackable: No



Built-in joint spacers  
with a width of  
3 mm.

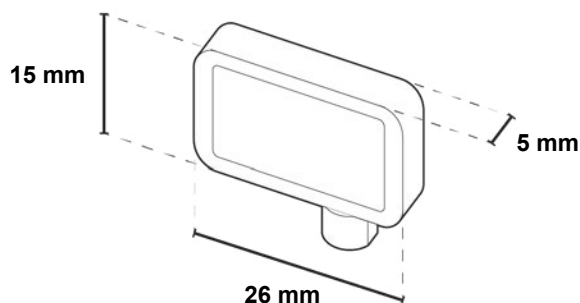


Holes for spacers 5  
mm wide. Diameter  
6.4 mm.

Holes for anchoring  
the bases to the  
substrate using metal  
pins (nails).

## 2 MM BASE

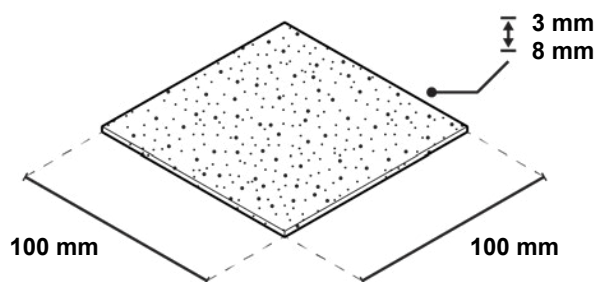
### ADDITIONAL ACCESSORIES



#### **5 mm joint spacer**

Code: L5

External dimensions: Width:  
5 mm  
Length: 26 mm  
Height: 15 mm



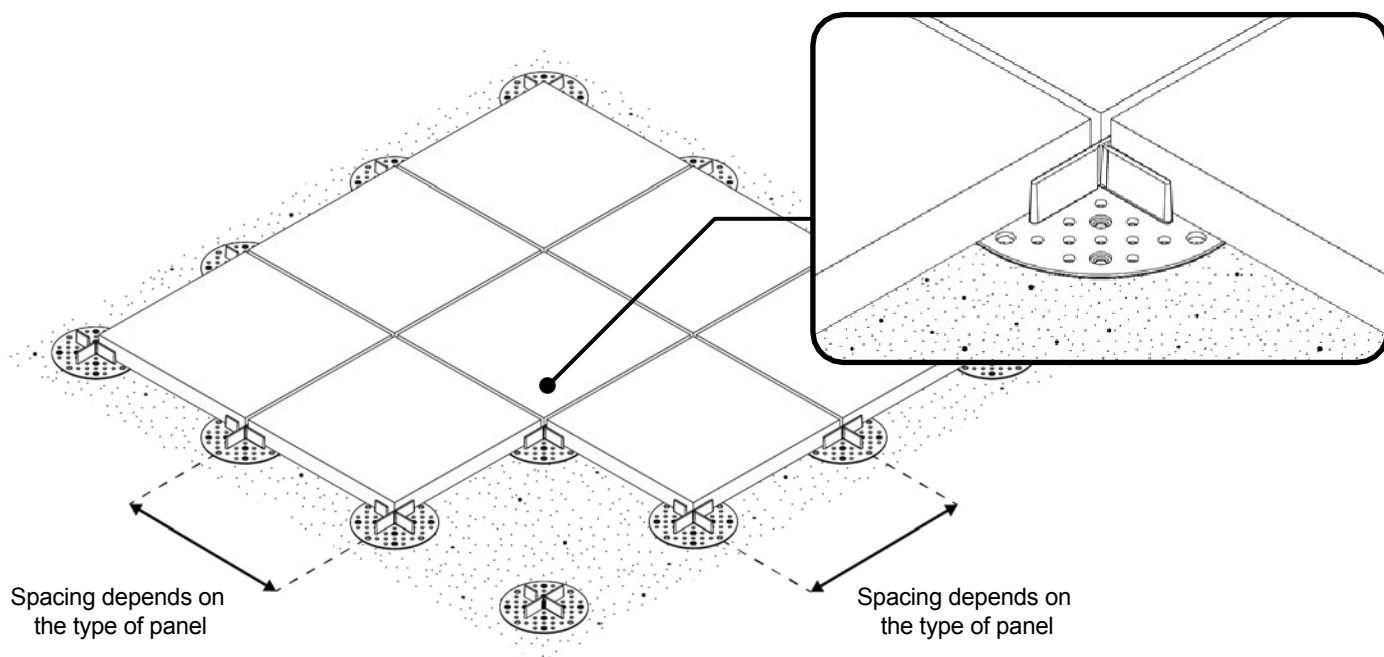
#### **Rubber granule washer**

Code: AKCW-  
SBR100X100X3 AKCW-  
SBR100X100X8

External dimensions: Width:  
100 mm  
Length: 100 mm  
Height: 3 or 8 mm

## 2 MM BASE

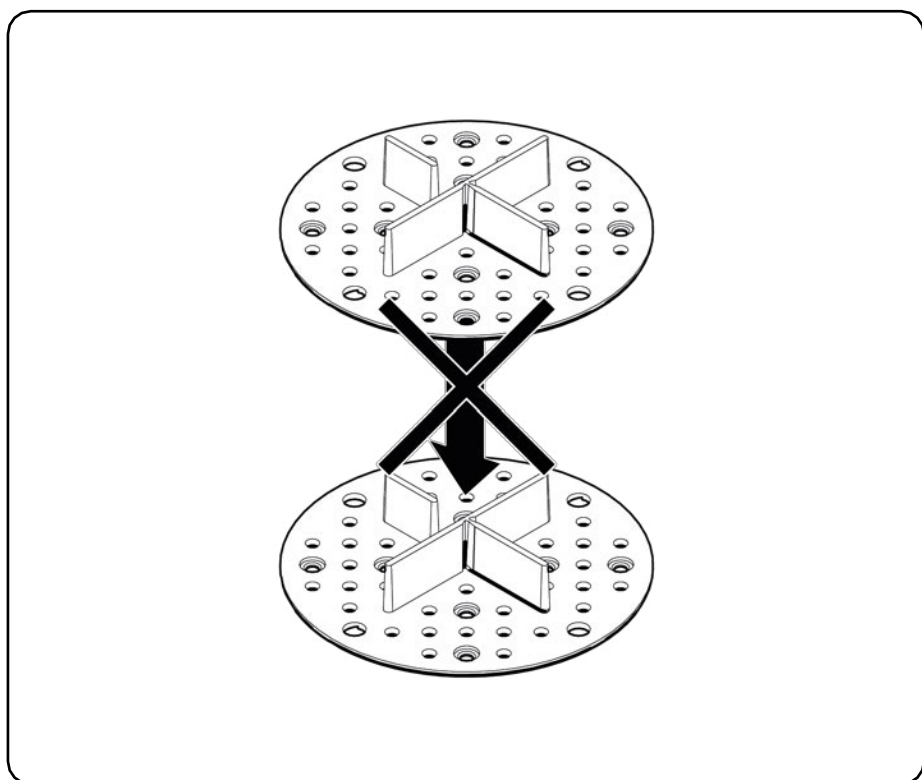
### EXAMPLE SETUP



## STACKING

### Stacking

Unlike other stands, the PAD-002 stands cannot be stacked.

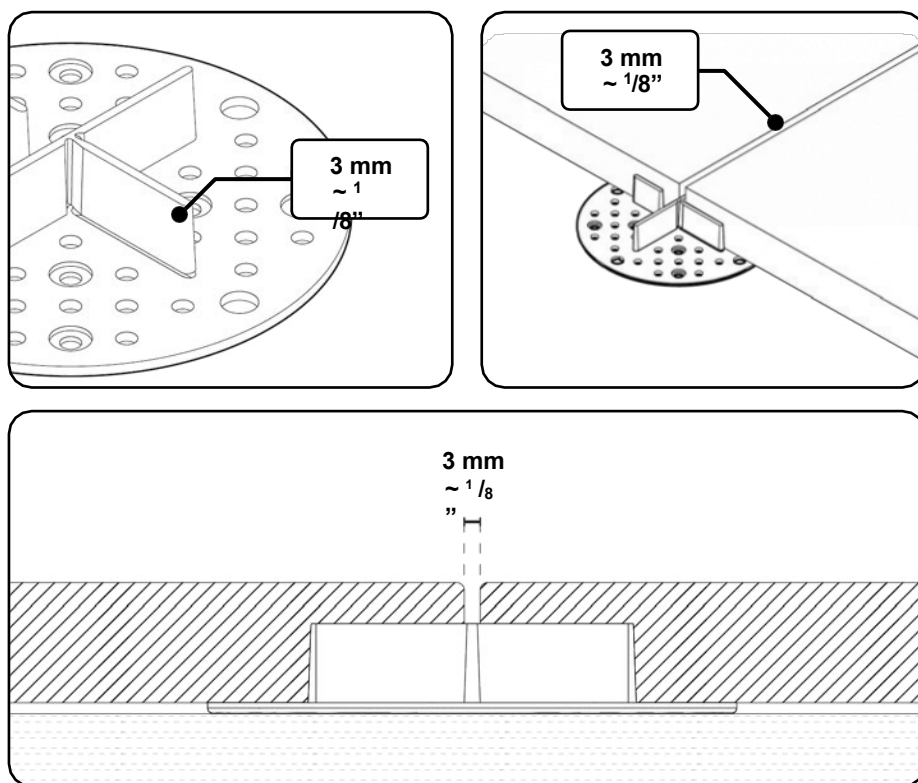


# 2 MM SPACER

## EXPANSION JOINT

### 3 mm gap

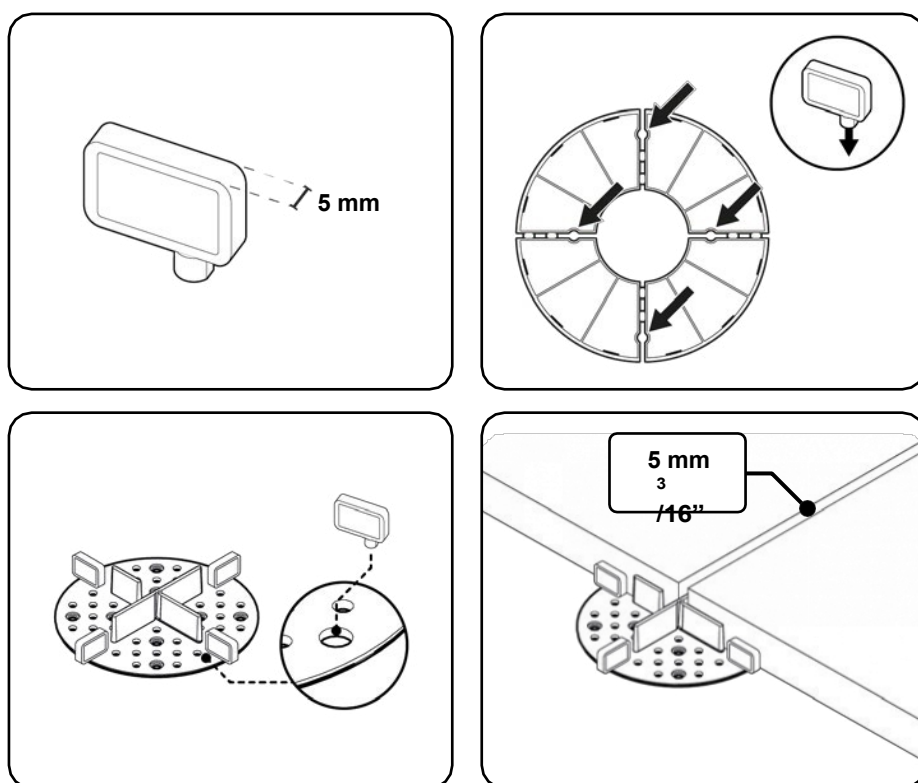
The base plates have a built-in 3 mm-wide joint.



### 5 mm gap

The base has holes that allow you to increase the joint width.

To increase the joint width, insert additional 5 mm-wide joint spacers into the holes in the base.

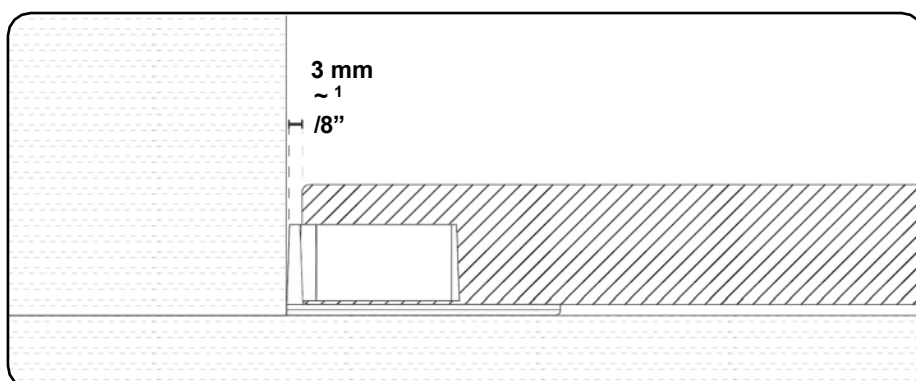
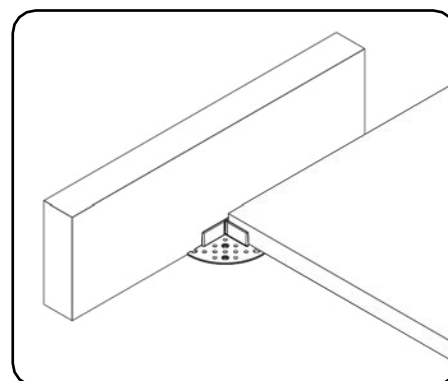
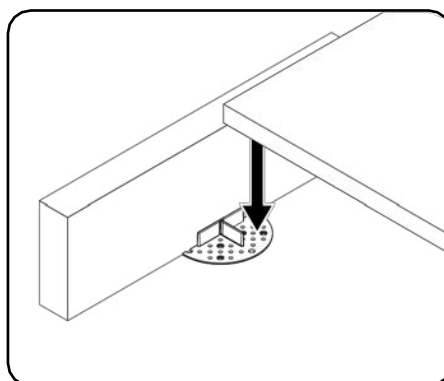
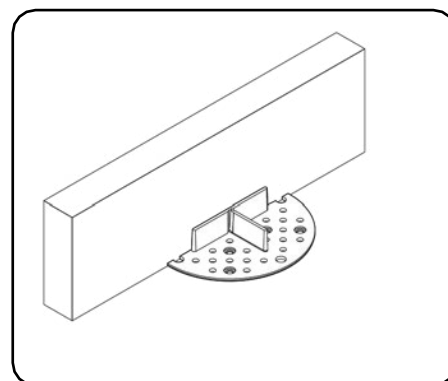
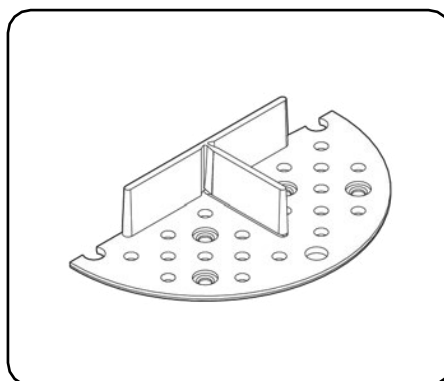


# 2 MM SPACER

## EXPANSION JOINT

### Expansion joint at the wall

To create an expansion gap against the wall, use half of a base plate with three spacer clips.



## 2 MM BASE

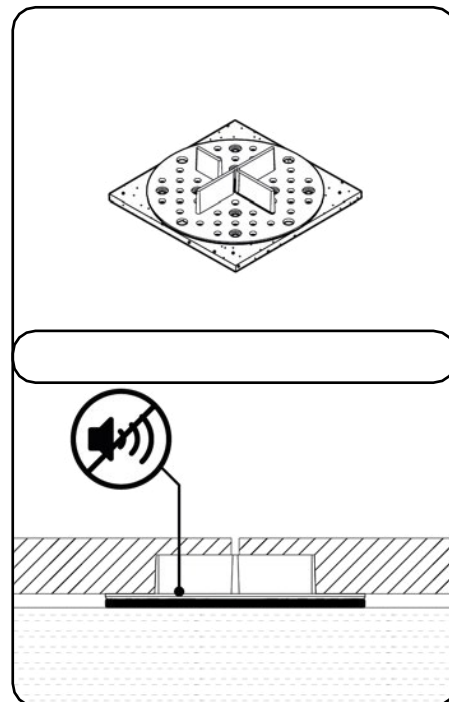
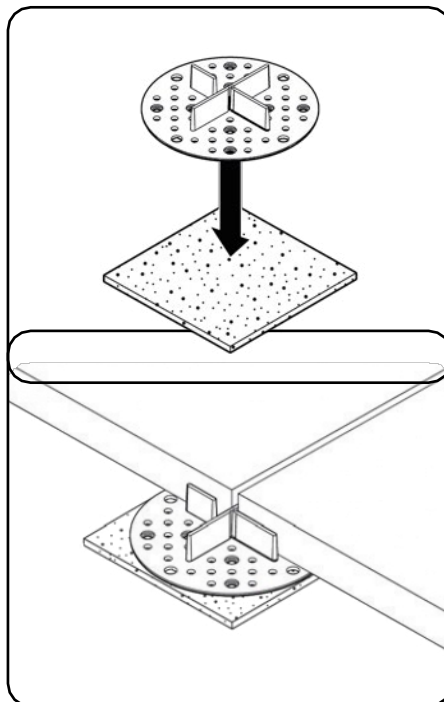
### SOUND INSULATION

#### Soundproofing the bottom of the base

Optionally, a rubber granule pad can be used to provide additional sound insulation; this solution is worth considering when installing a deck or raised floor on a level below which there are living spaces. Using a rubber granule pad will also improve the deck's usability.

This solution will help reduce unwanted noise while using the terrace, particularly the squeaking caused by loose particles of concrete and sand moving beneath the pedestals.

Place a rubber granulate pad between the pedestal and the subfloor.



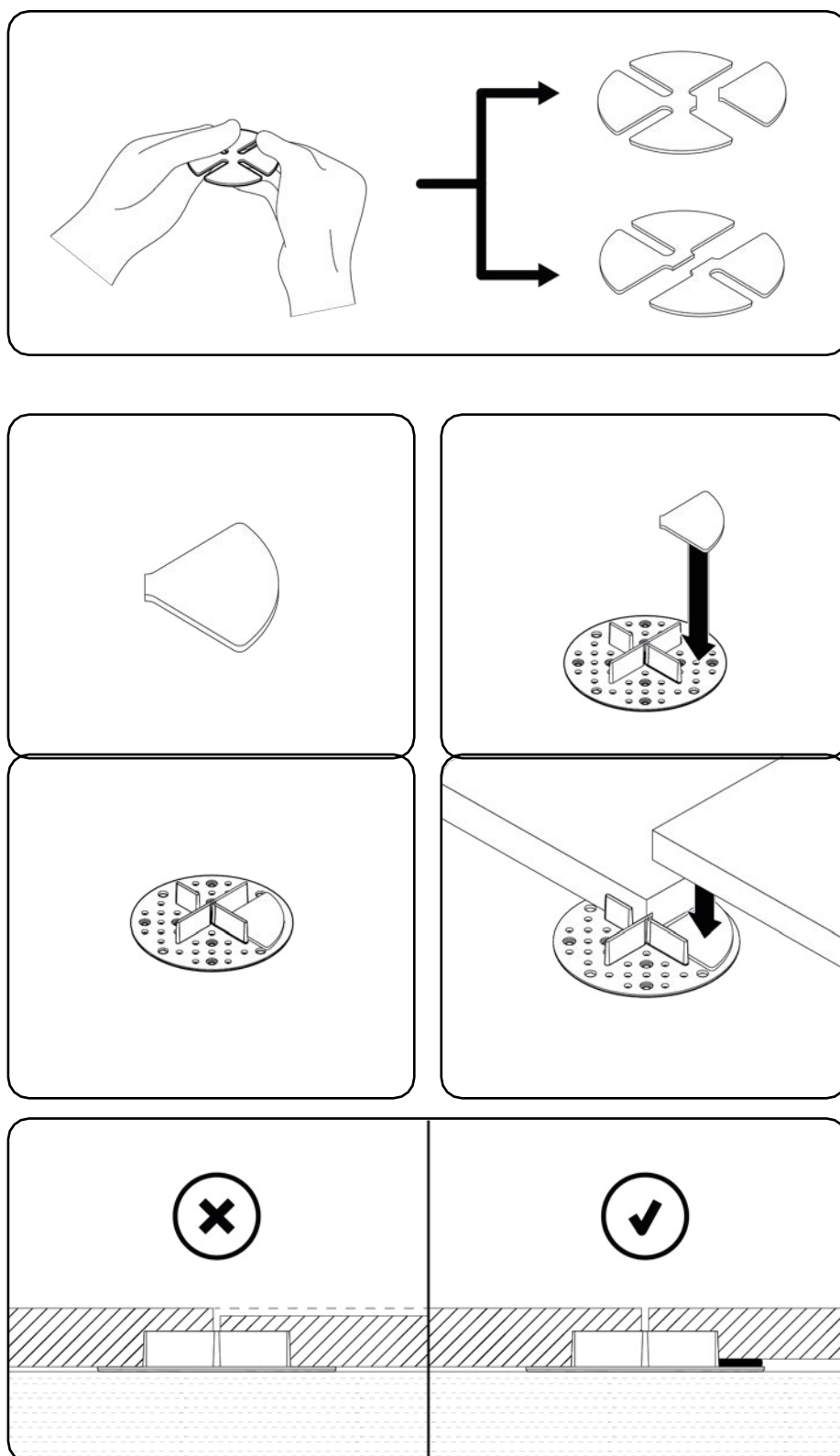
## 2 MM BASE

### DIFFERENCES IN SLAB HEIGHTS

#### Compensating for Differences in Slab Thickness

Rubber pads can be split into sections by tearing them apart. The torn-off sections of the rubber pads are used to compensate for differences in the thickness of the deck slabs. If the terrace surface is uneven due to differences in the thickness of the terrace slabs, determine the thickness of the thickest slab and place the appropriate number of rubber pads under the remaining slabs. Properly laid slabs with pads should form a level terrace surface.

The rubber shims can be stacked on top of one another.



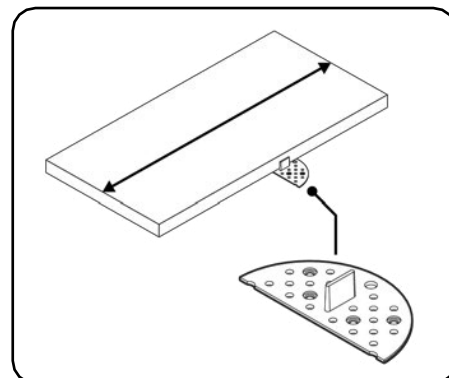
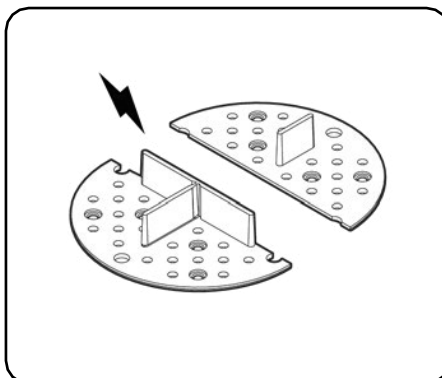
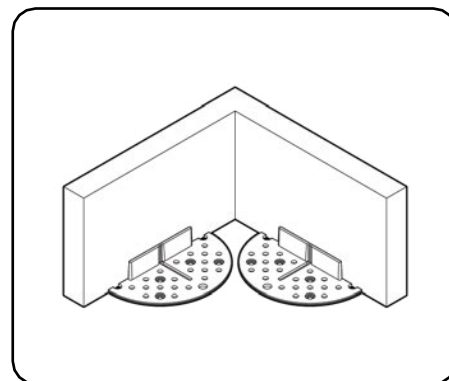
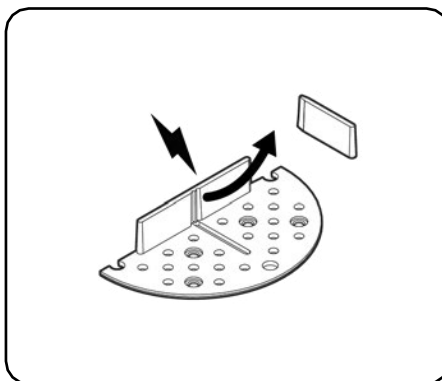
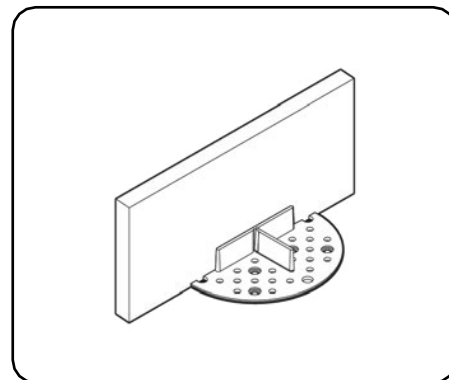
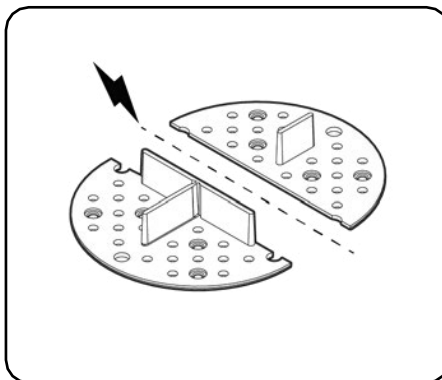
## 2 MM BASE

### MODULES - BREAKING OUT

#### Removing Modules base units

The bases are made up of two interconnected modules, which allows them to be snapped apart into halves for placement along a wall, in the corners of a patio, or as additional support along the edge of slabs. No tools are required to separate them.

To break off a section, bend and snap the base at the point where the modules join.



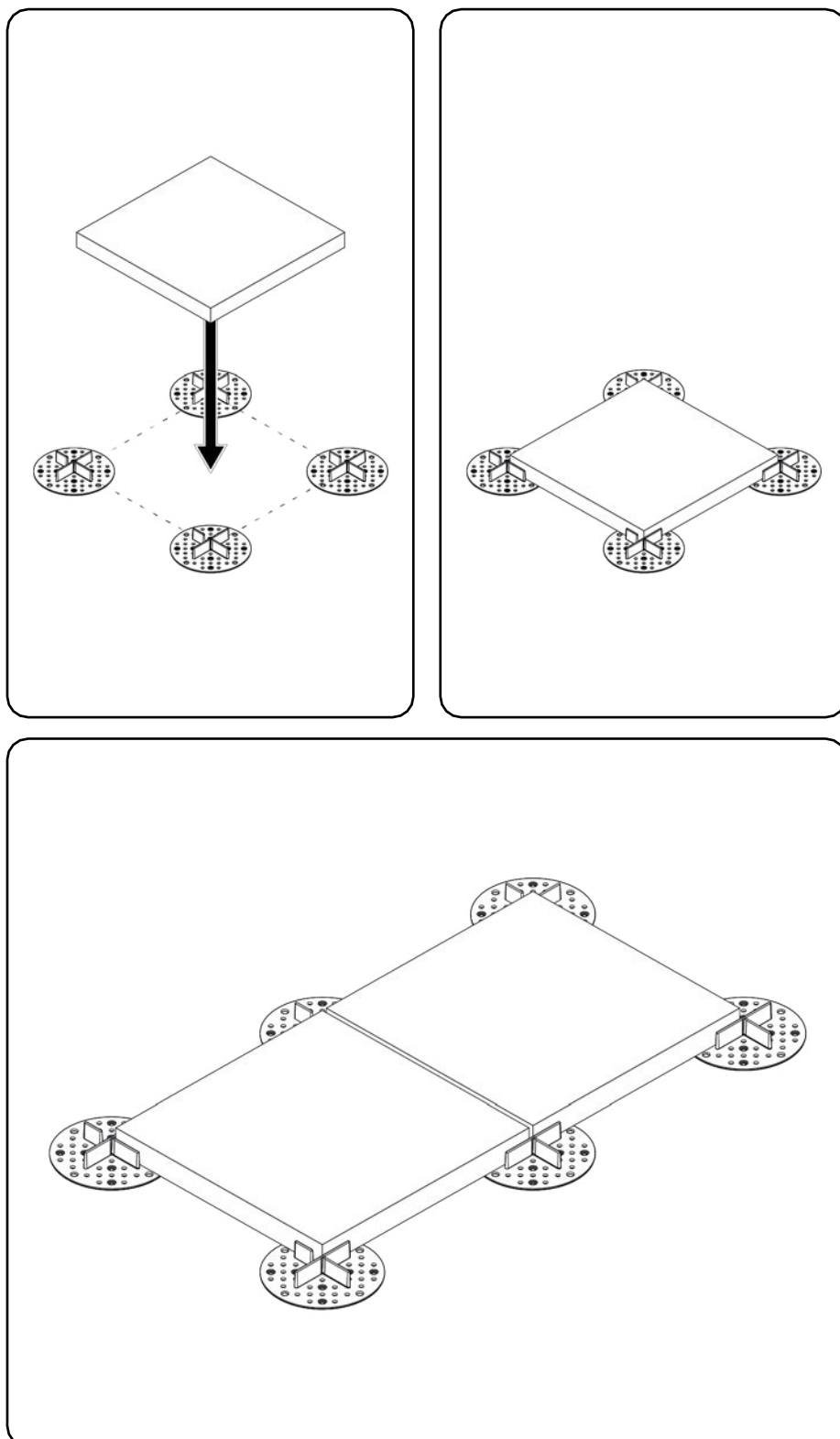
# 2 MM BASE

## BOARD INSTALLATION

### Installing the slabs

To install a slab, simply place it on the supports. By default, the supports are positioned at the corners of the slab.

Before beginning construction of the deck, it is important to create a layout plan for the supports.



### NOTE

Before laying the slabs, check whether the manufacturer permits point support and, if so, in how many places.

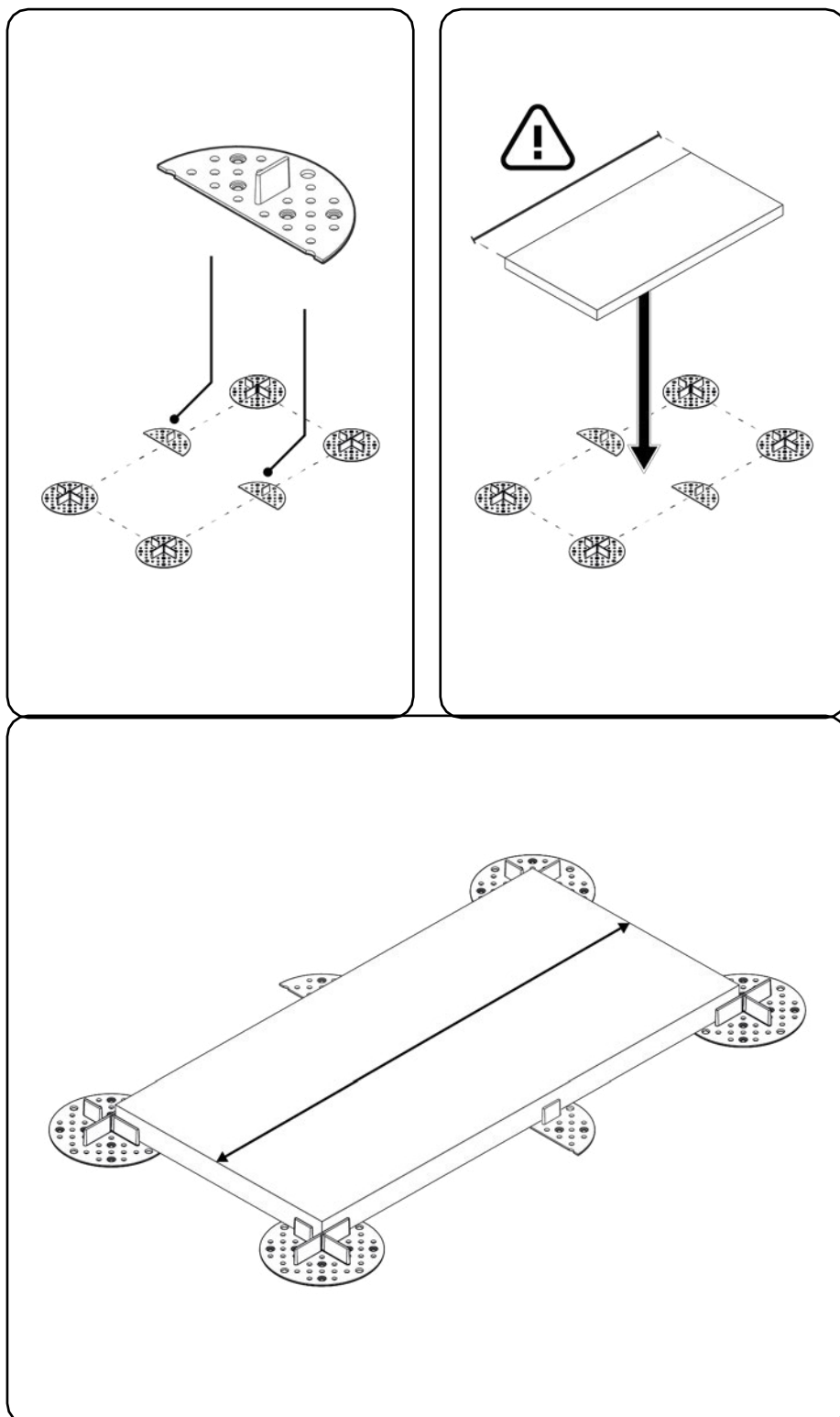
# 2 MM BASE

## BOARD INSTALLATION

### Long Slabs

Long slabs may require additional support along their longer edges. To place a support block on the edge of a slab, break it in half and use the half with a single spacer.

Before beginning construction of the deck, it is important to create a plan for the placement of the pedestals.



### NOTE

Before installation, check whether the manufacturer permits point support for the slabs and, if so, in how many places.

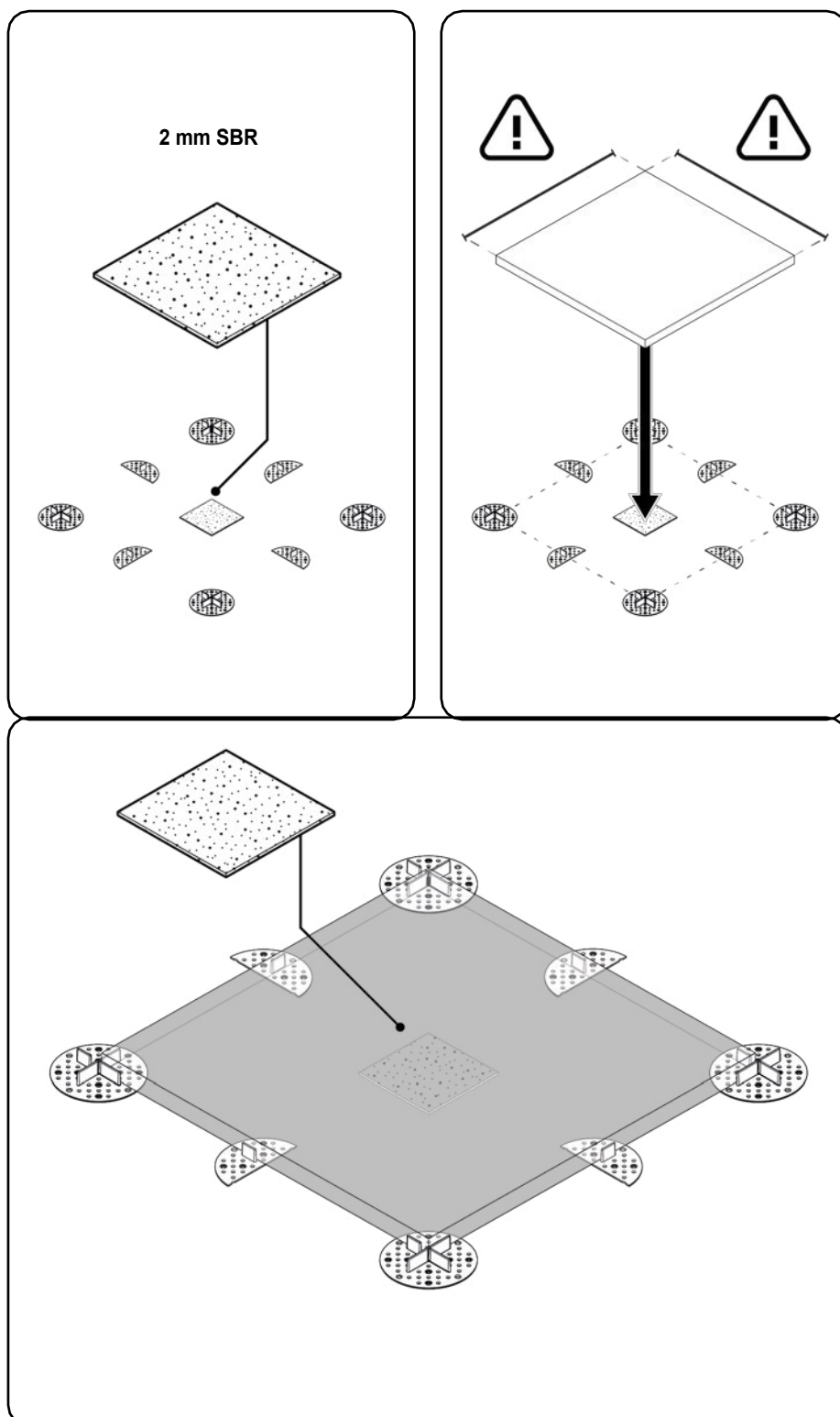
# 2 MM BASE

## BOARD INSTALLATION

### Large slabs

Large tiles may require additional support in the form of a 2 mm thick rubber granule pad in the center of the tile and additional supports at the edges of the tile. The need for central support depends on the tile's strength.

Before beginning construction of the deck, it is important to create a layout plan for the support pads.



### NOTE

Before installation, check the slabs to confirm whether the manufacturer permits point support and, if so, in how many locations.

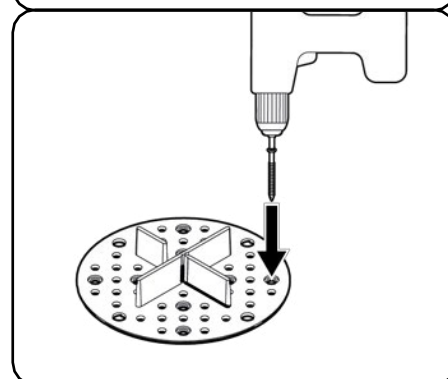
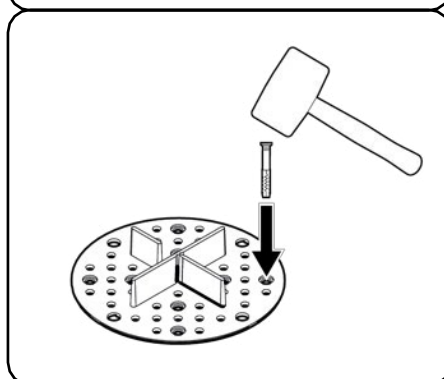
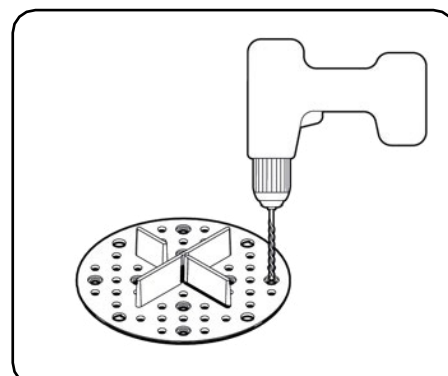
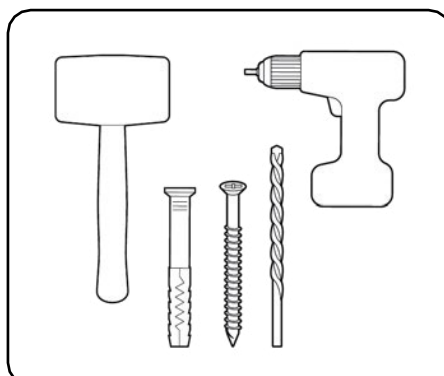
## 2 MM BASE

### MOUNTING TO THE SUBSTRATE

#### Securing the pedestal with screws

If there is a risk that the pedestals may shift, secure them to prevent movement. Fastening the pedestal with screws is the most reliable way to secure it in place. PAD-002 pedestals have special holes for this purpose. Secure the pedestal with at least two screws.

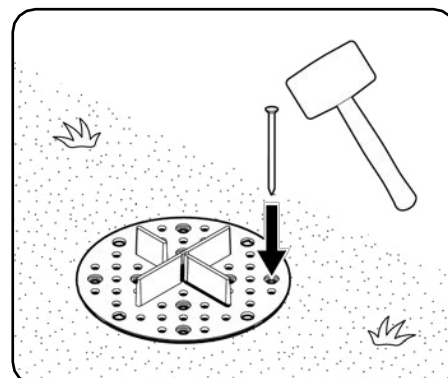
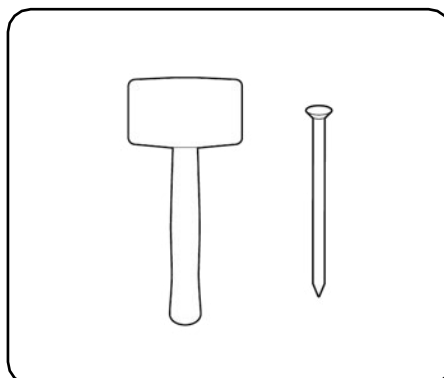
**Caution—drilling into the surface may damage the insulation. Make sure you are allowed to drill into the surface. Make sure the stand you are securing is in the correct position!**



#### Securing the base with anchors

If the bases are placed on loose ground (e.g., on the ground), they can be secured using anchors. The PAD-002 bases have special holes for this purpose. Secure the base with at least two anchors.

**Caution—drilling into the surface may damage the insulation. Make sure you are allowed to drill into the surface. Make sure the base you are securing is in the correct position!**

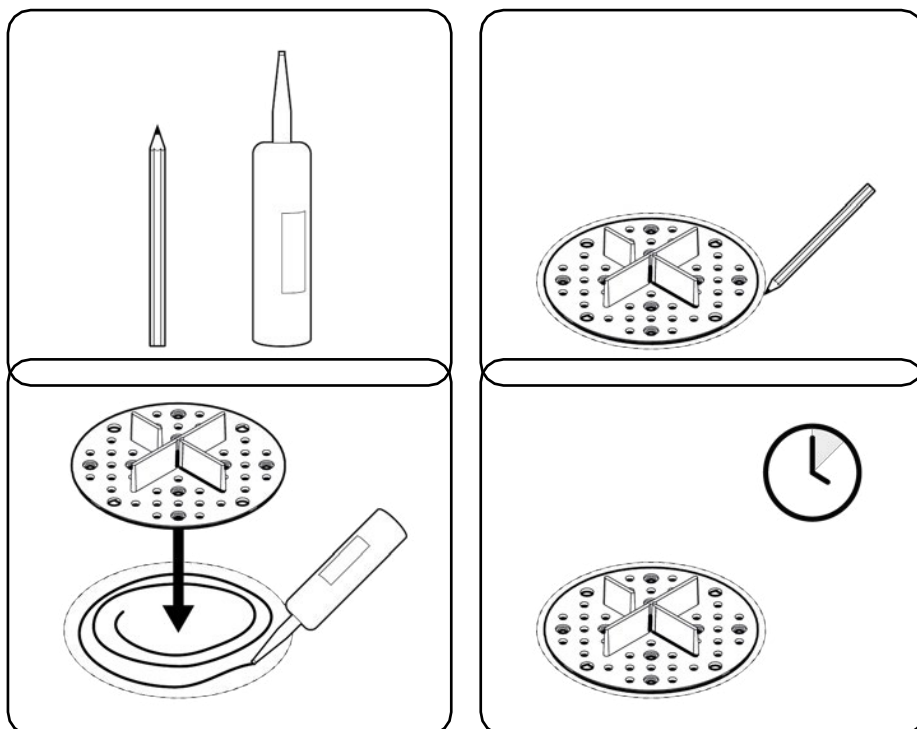


## 2 MM BASE

### MOUNTING TO THE SUBSTRATE

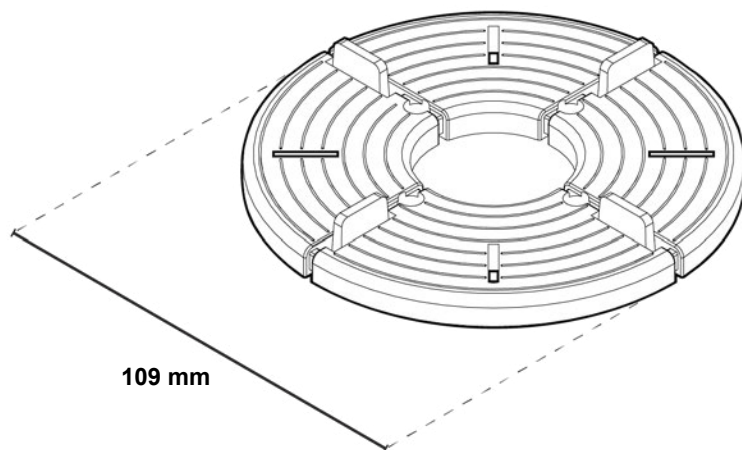
#### Securing the bracket with adhesive

If it is not possible to secure the bases with screws—for example, due to the type of substrate—secure them using a special-purpose adhesive (e.g., for concrete).



# 8 MM BASE

## DIMENSIONS



### 8 mm deck base

Code: PAD-008

Diameter: 109 mm Height: 8 mm

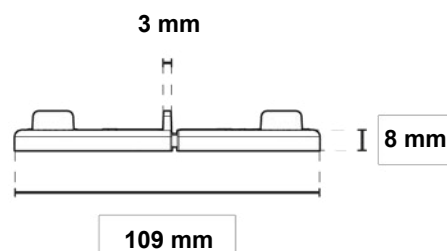
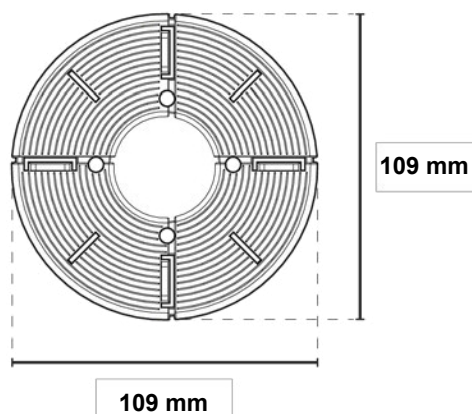
Height with spacers: 16 mm

Material: rubber

Temperature range: -20 °C to 65 °C Load capacity: up to 1,000 kg\*

(\* See technical specifications for load capacity details)

Stackable: up to 3 units



Built-in joint spacers with a width of 3 mm.

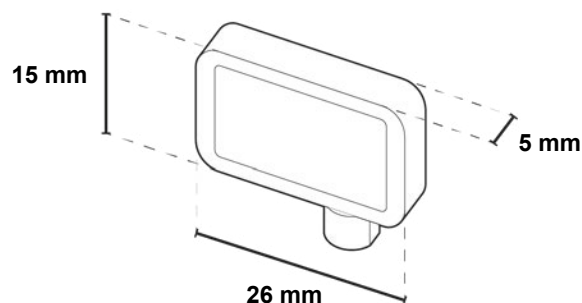
Holes for spacers 5 mm wide. Diameter 6.4 mm.

Module connection point modules.

Holes for locking overlapping bases.

# 8 MM BASE

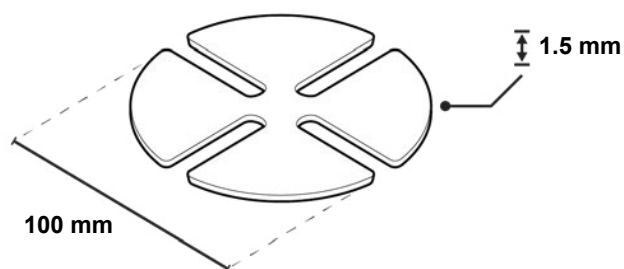
## ADDITIONAL ACCESSORIES



### 5 mm joint spacer

Code: L5

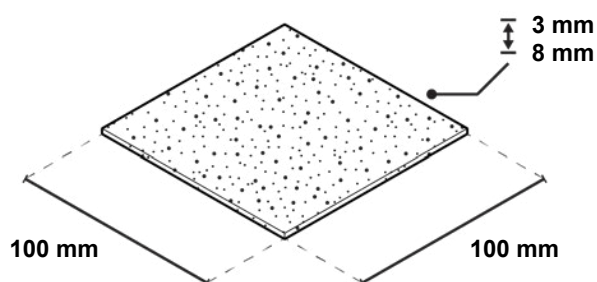
External dimensions: Width:  
5 mm  
Length: 26 mm  
Height: 15 mm



### Rubber washer

Code: AKCW-SH100

External dimensions:  
Diameter: 100 mm  
Height: 1.5 mm



### Rubber granule pad

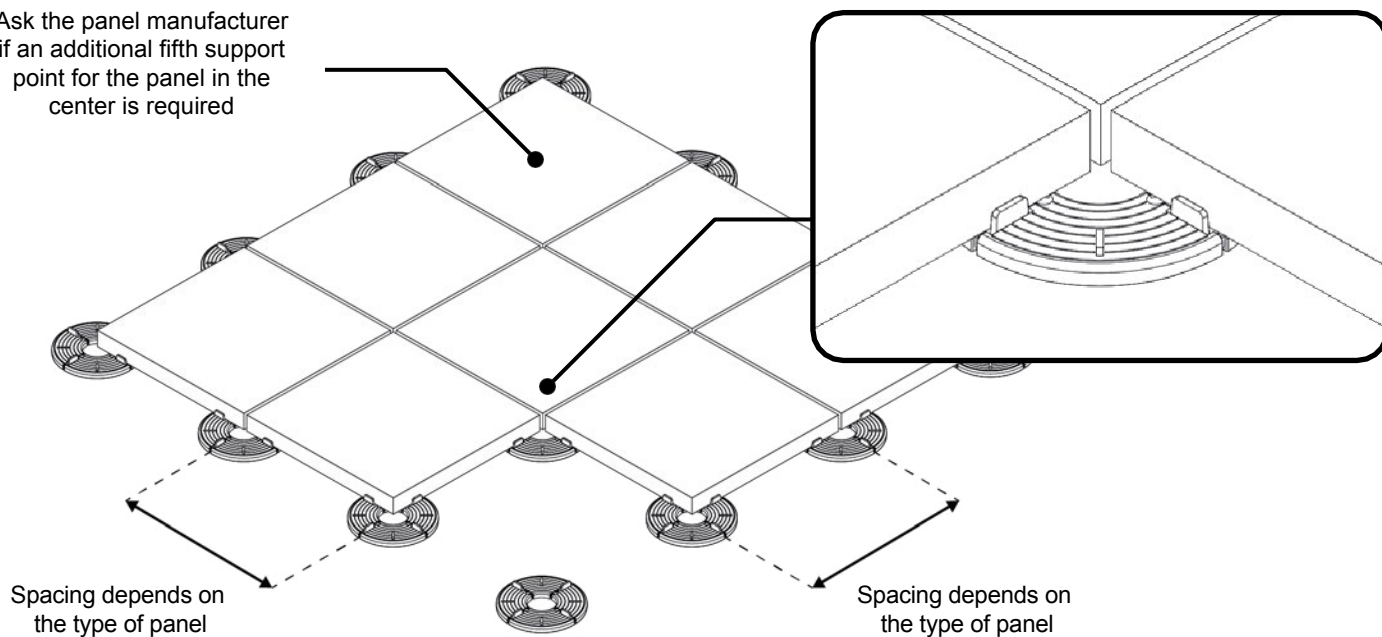
Code: AKCW-SBR100X100X3 AKCW-SBR100X100X8

External dimensions: Width:  
100 mm  
Length: 100 mm  
Height: 3 or 8 mm

# 8 MM BASE

## EXAMPLE SETUP

Ask the panel manufacturer if an additional fifth support point for the panel in the center is required



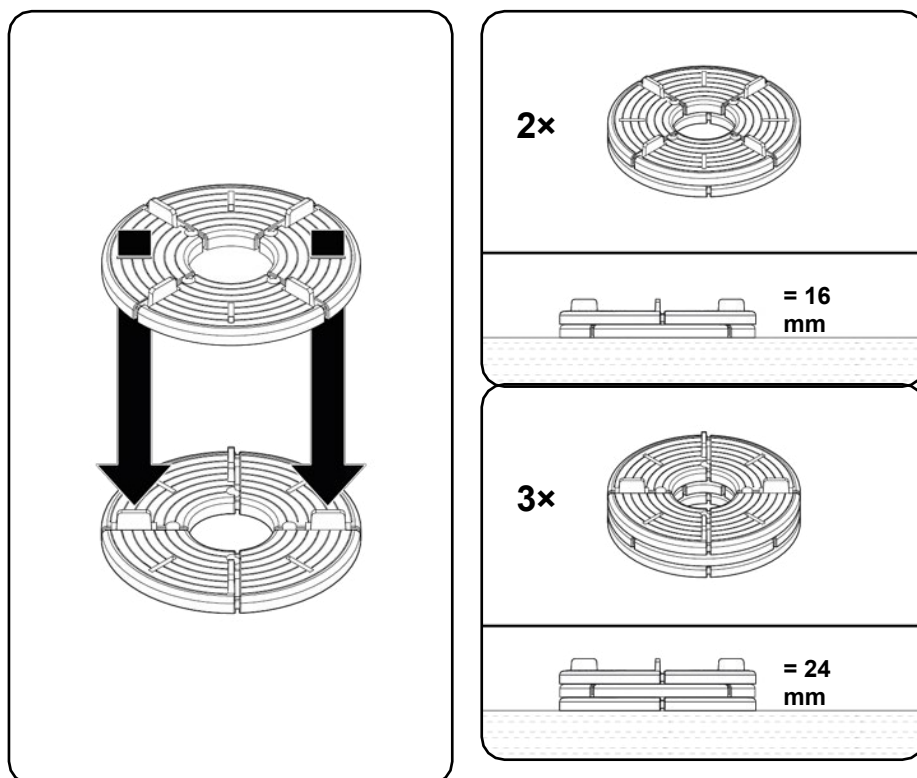
Check with the decking manufacturer regarding the recommended support for the decking on deck supports.

## STACKING

### Stacking

The bases can be stacked to achieve greater height. When connecting the bases, pay attention to the built-in butterfly joints, which should fit into the rectangular holes of the second base to provide stability.

When connecting bases, it is recommended not to exceed 3 pieces (24 mm total).

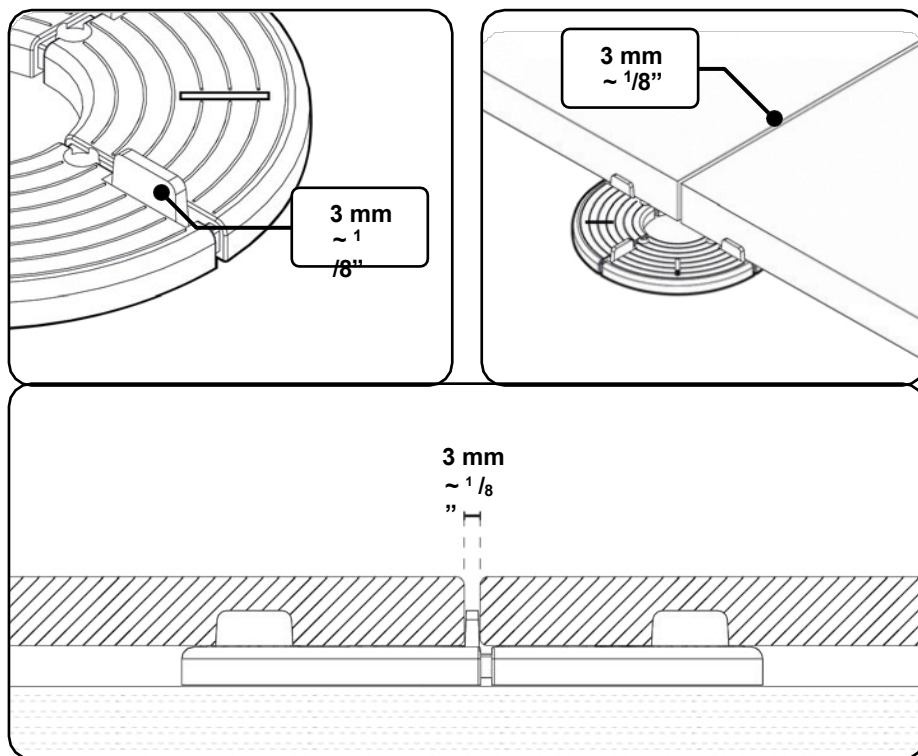


# 8 MM SPACER

## EXPANSION JOINT

### 3 mm gap

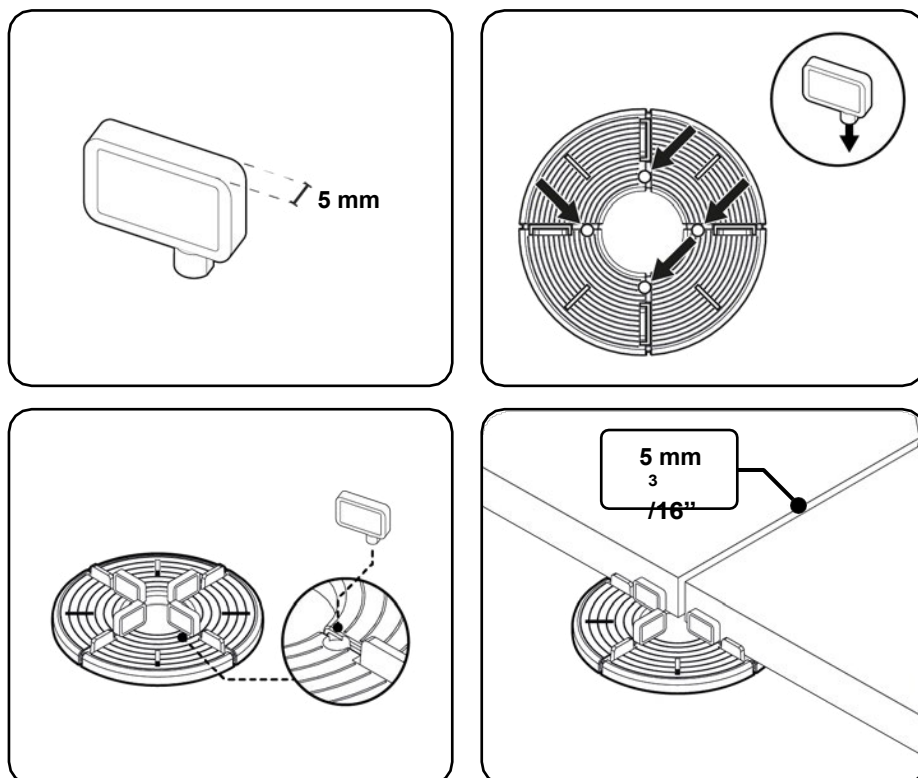
The bases have a built-in 3 mm-wide joint.



### 5 mm gap

The base has holes that allow you to increase the width of the grout line.

To increase the joint width, insert additional 5-mm-wide joint spacers into the holes in the base.

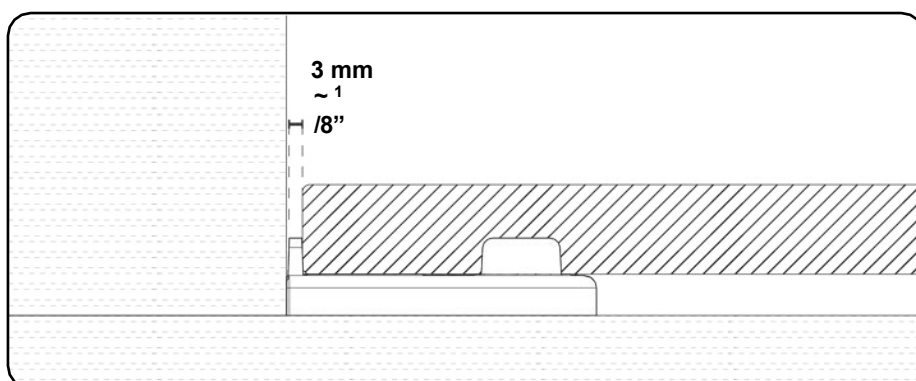
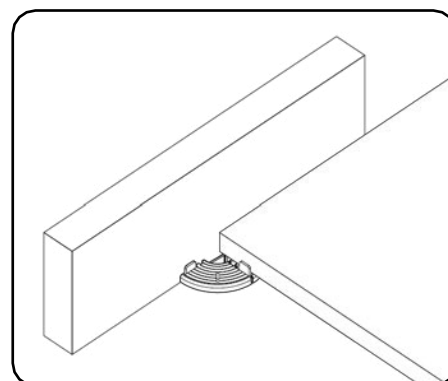
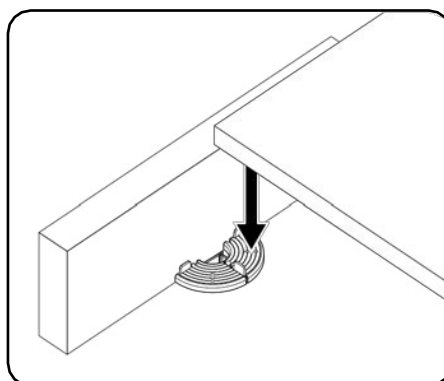
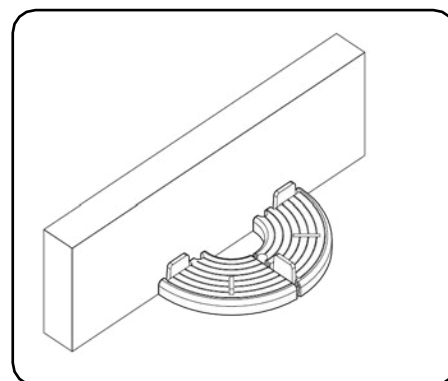
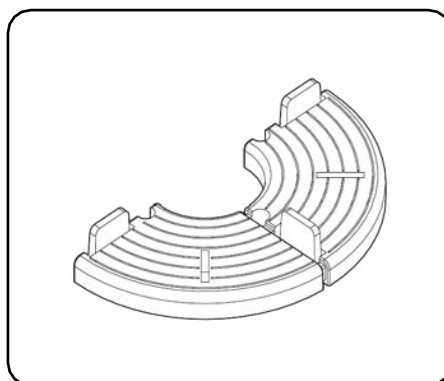


# 8 MM SPACER

## EXPANSION JOINT

### Expansion joint at the wall

To create an expansion gap against the wall, use half of a base plate with three spacer clips.

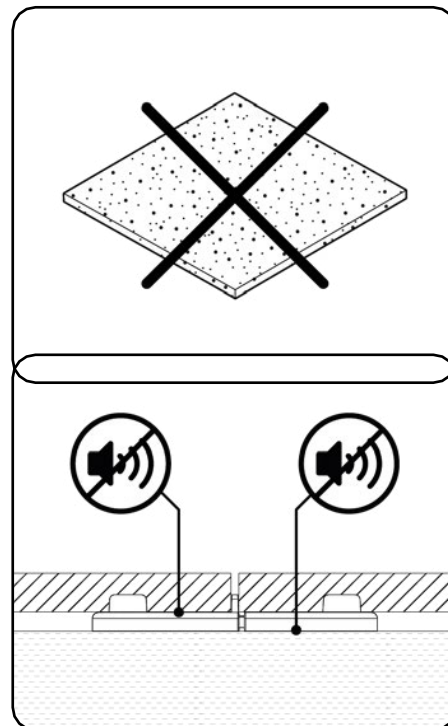
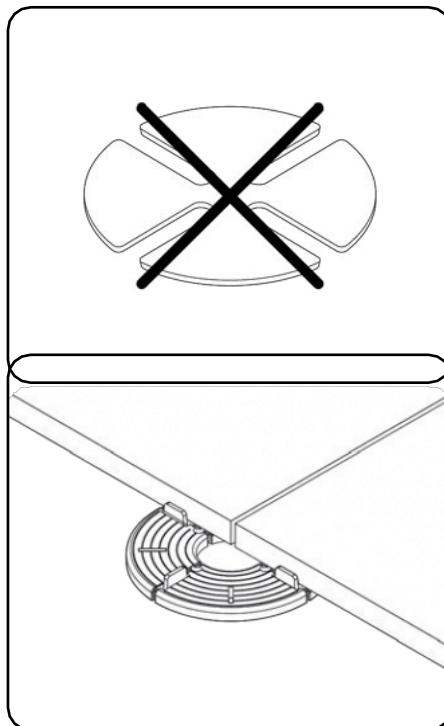


# 8 MM BASE

## SOUND INSULATION

### Soundproofing the Stand

The PAD-008 stand is made of rubber. The use of additional sound-damping accessories (AKCW-SH100 and SBR100) is not necessary. Due to the material from which it is made, the PAD-008 pad naturally dampens unwanted noises during terrace use, particularly the grinding caused by small particles of concrete and sand moving between the pad and the slab or subfloor.



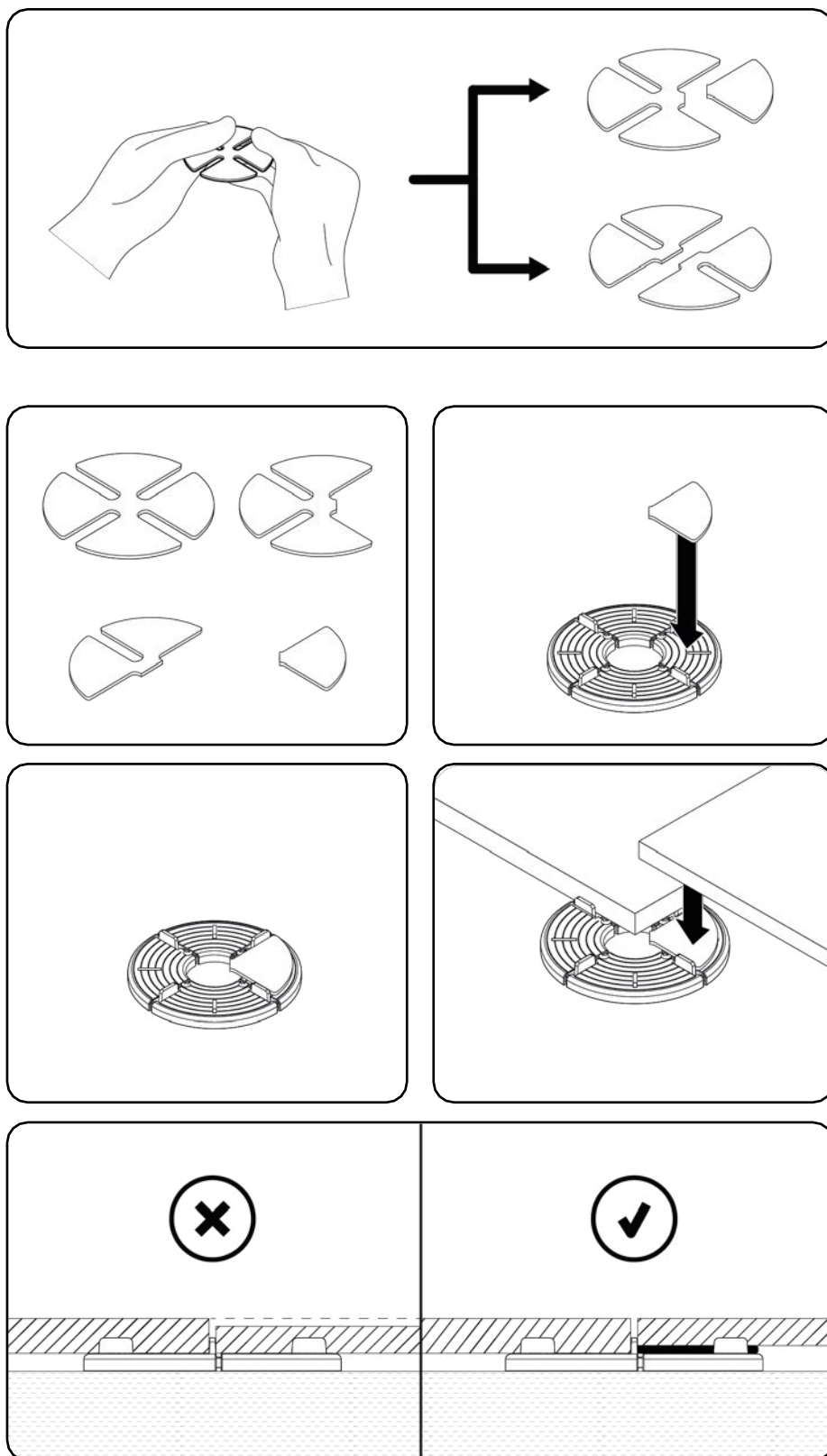
# 8 MM BASE

## DIFFERENCES IN SLAB HEIGHTS

### Compensating for Differences in Slab Thickness

The rubber pads can be separated into sections by tearing them apart. The torn-off sections of the rubber pads are used to compensate for differences in the thickness of the deck slabs. If the terrace surface is uneven due to differences in the thickness of the terrace slabs, determine the thickness of the thickest slab and place the appropriate number of rubber pads under the remaining slabs. Properly installed slabs with pads should form a level terrace surface.

The rubber shims can be stacked on top of one another.



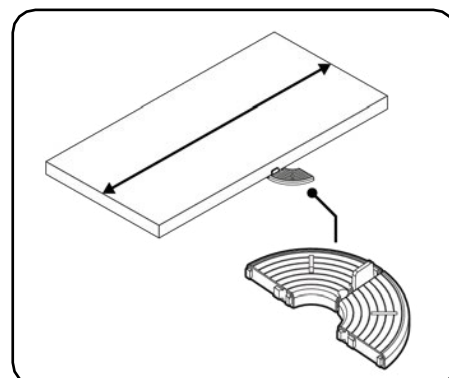
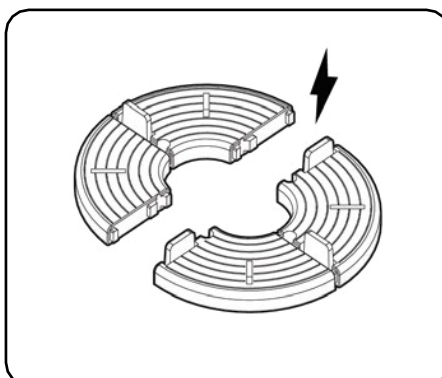
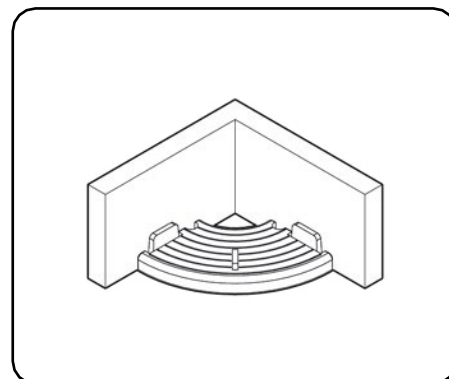
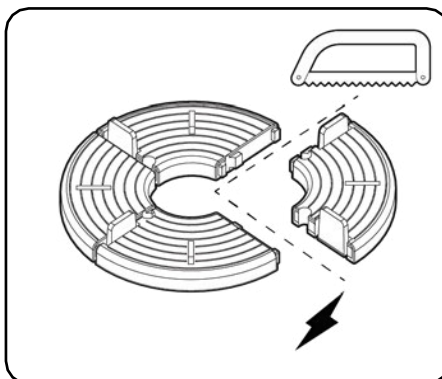
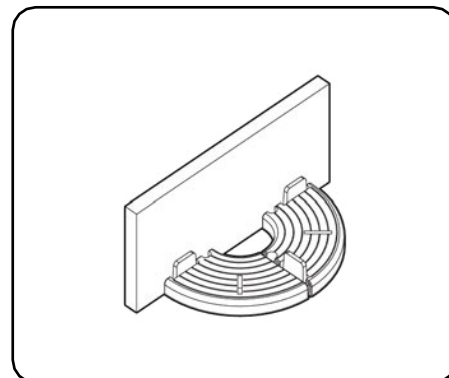
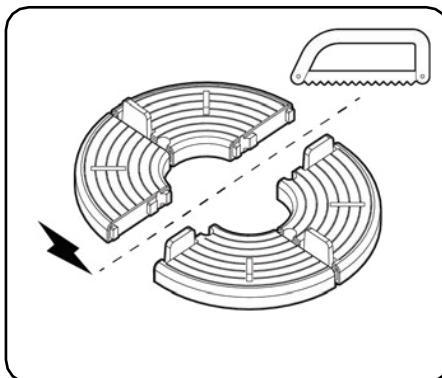
# 8 MM BASE

## MODULES - REMOVAL

### Breaking Out Modules Bases

The bases consist of 4 interconnected modules, which allows them to be broken into halves for installation along a wall or as additional support for the edges of the slabs, or into quarters for installation in the corners of the deck. Breaking them into parts requires the use of tools such as a saw or a utility knife.

To break off a section, cut the base at the point where the modules join.



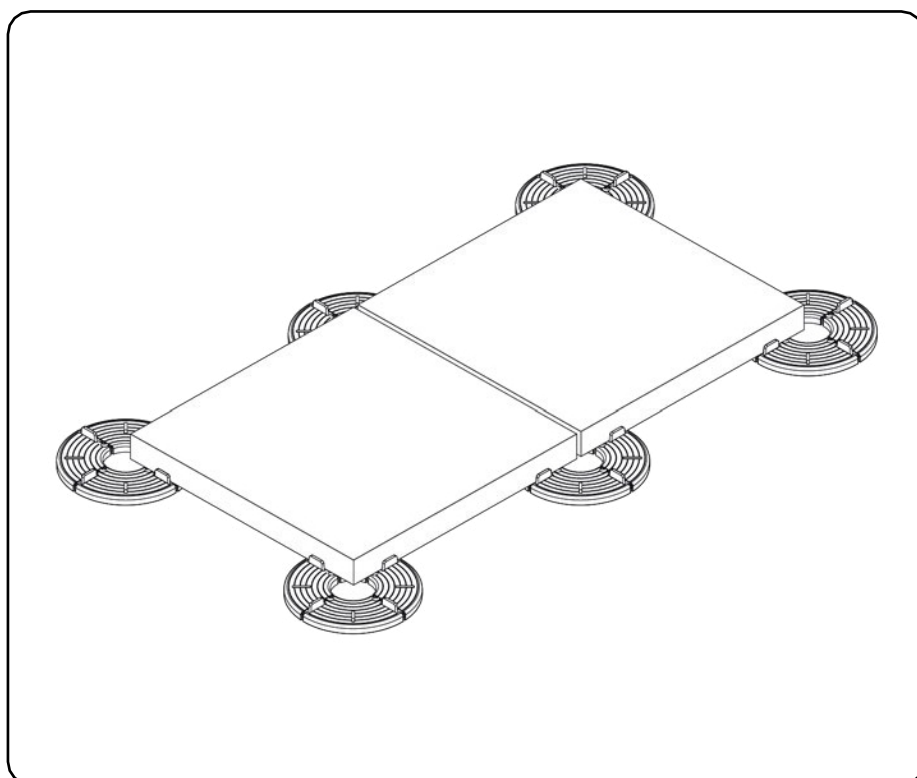
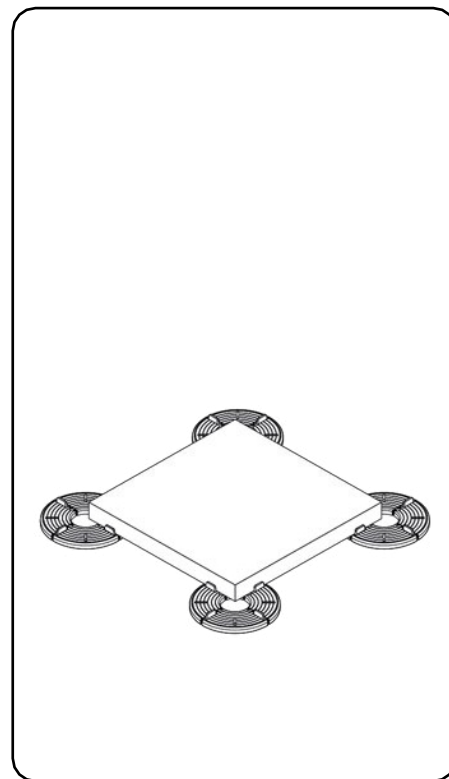
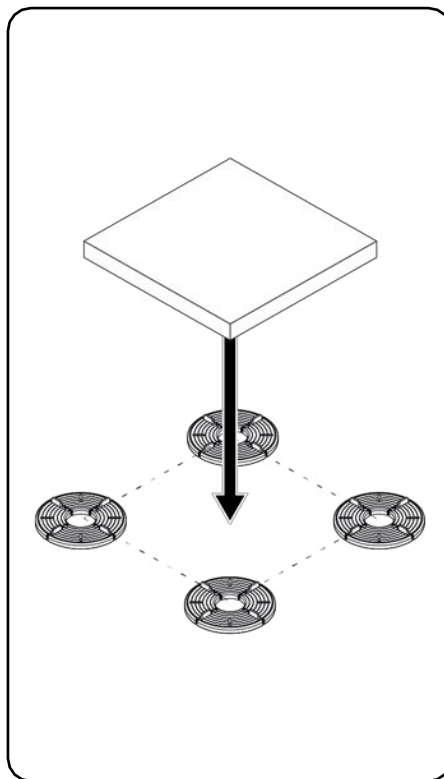
# 8 MM BASE

## BOARD INSTALLATION

### Panel Installation

To install a slab, place it on the supports. By default, the supports are located at the corners of the slab.

Before beginning construction of the deck, it is important to create a layout plan for the supports.



### NOTE

Before laying the slabs, check whether the manufacturer permits point support and, if so, in how many places.

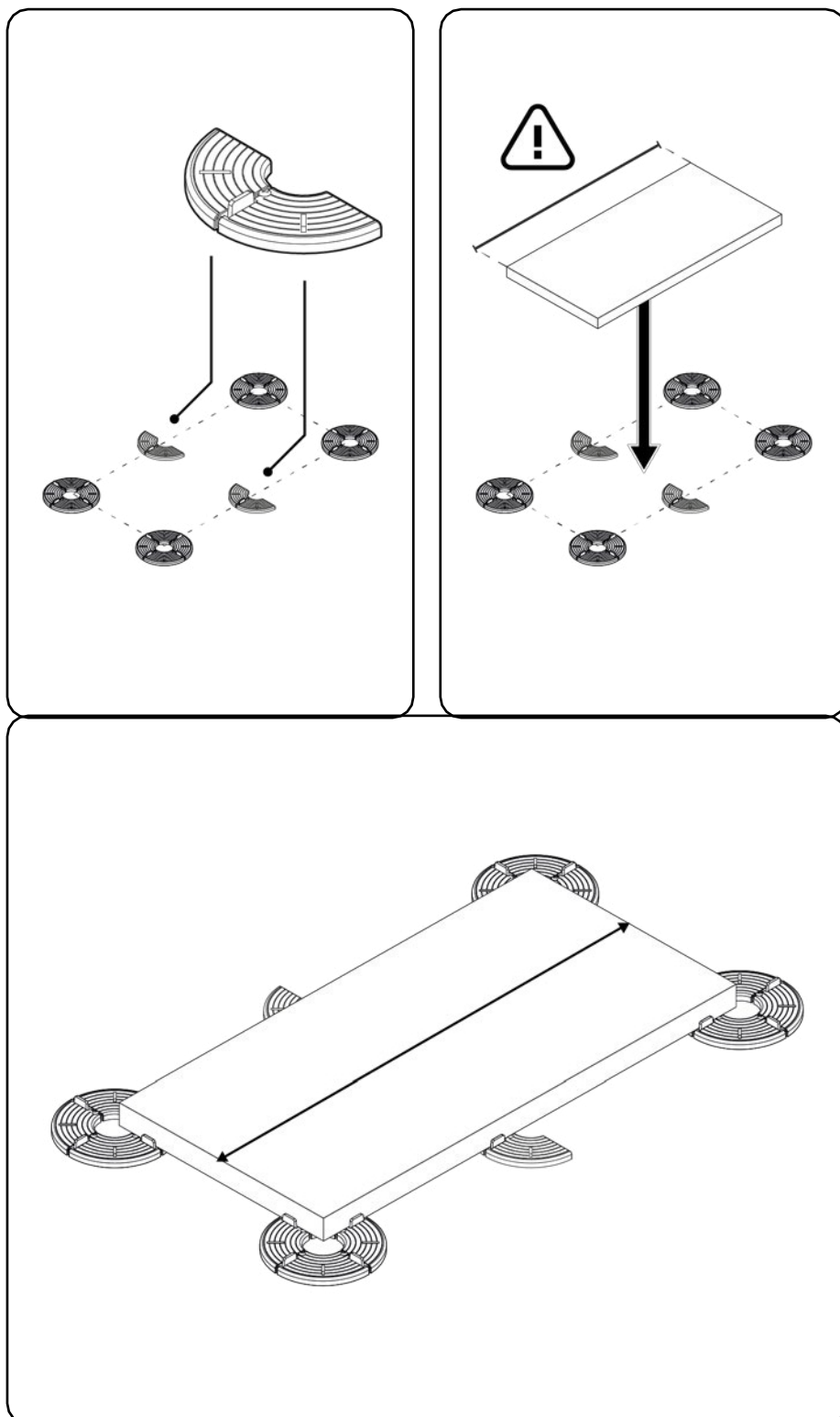
# 8 MM BASE

## BOARD INSTALLATION

### Long Slabs

Long slabs may require additional support along their longer edges. To place a support block on the edge of a slab, break it in half and use the half with a single spacer.

Before beginning construction of the deck, it is important to create a plan for the placement of the pedestals.



### NOTE

Before installation, check the slabs to confirm whether the manufacturer permits point support and, if so, in how many places.

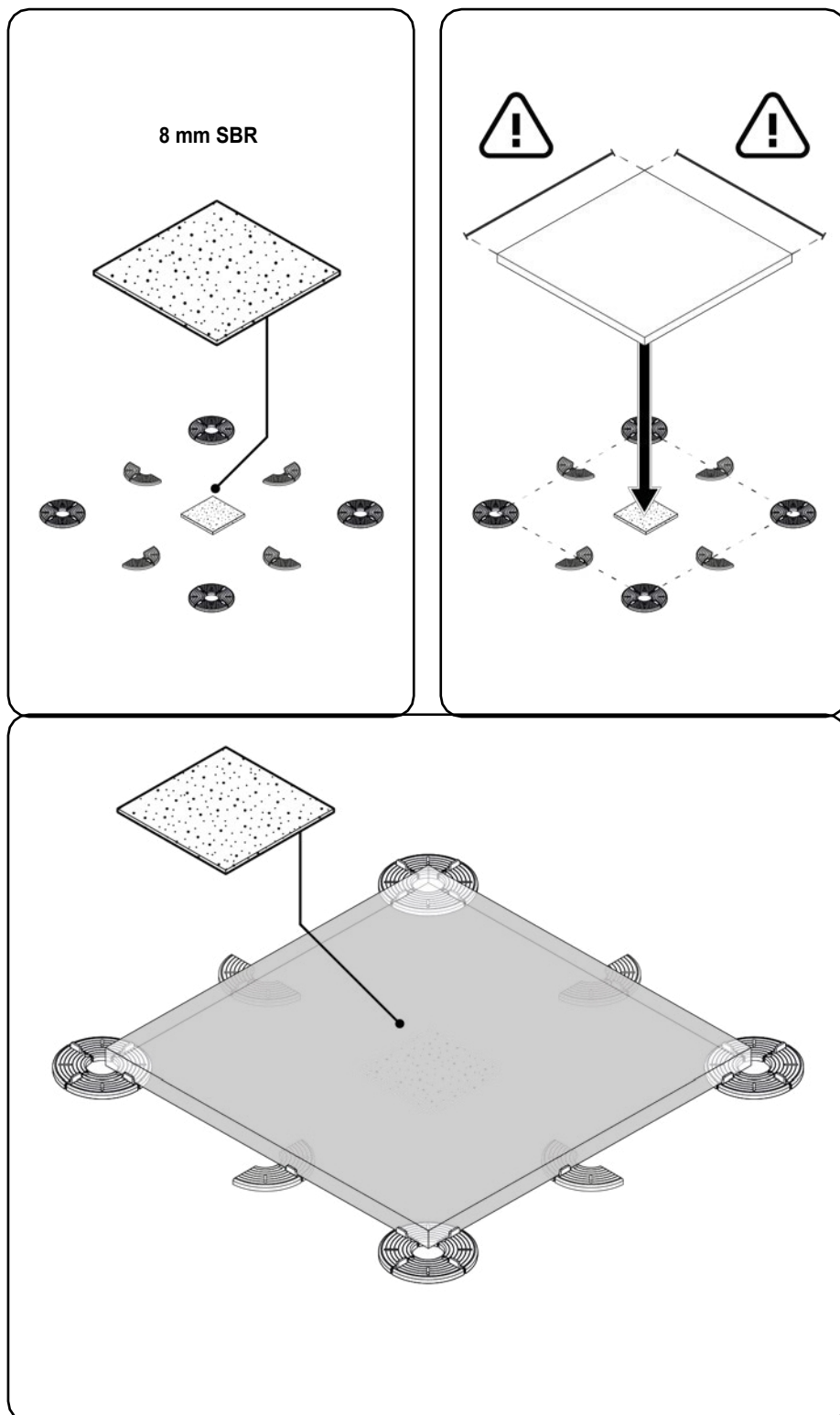
# 8 MM BASE

## BOARD INSTALLATION

### Large slabs

Large tiles may require additional support in the form of an 8-mm-thick rubber granule pad in the center of the tile and additional supports at the edges of the tile. The need for central support depends on the tile's strength.

Before beginning construction of the deck, it is important to create a layout plan for the support pads.



### NOTE

Before installation, check the slabs to confirm whether the manufacturer permits point support and, if so, in how many locations.

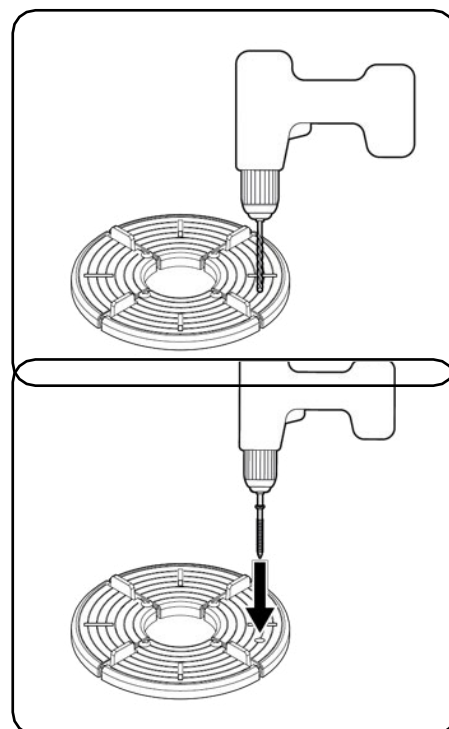
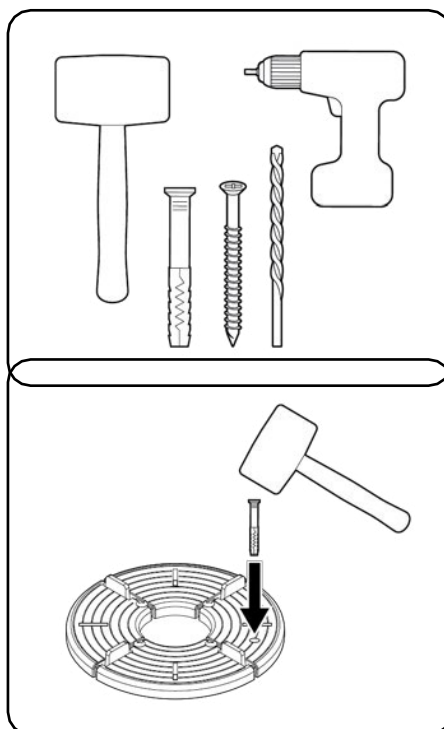
## 8 MM BASE

### FASTENING TO THE SUBSTRATE

#### Securing the support with screws

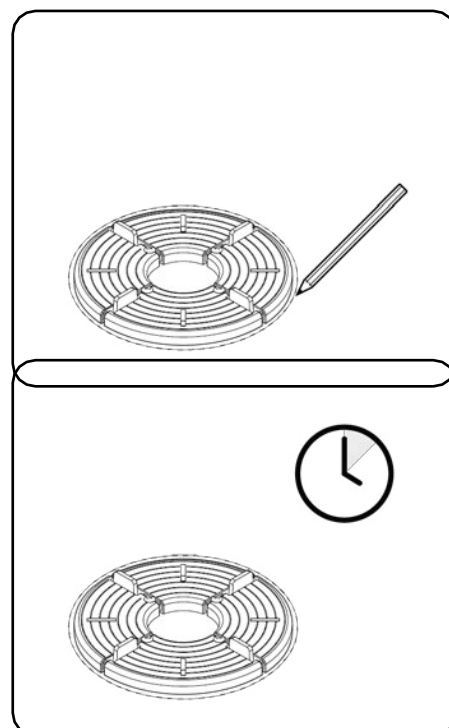
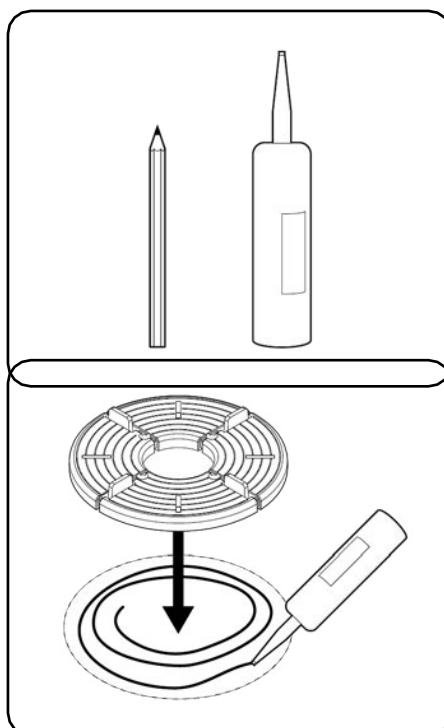
If there is a risk that the stands might shift, secure them to prevent movement. Fastening the stand with screws is the most reliable way to secure it. Drill through the PAD-008 stands and into the substrate. Secure the stand with at least two screws.

**Note: Drilling into the surface may damage the insulation. Make sure you can drill into the surface. Make sure the base you are securing is in the correct position!**



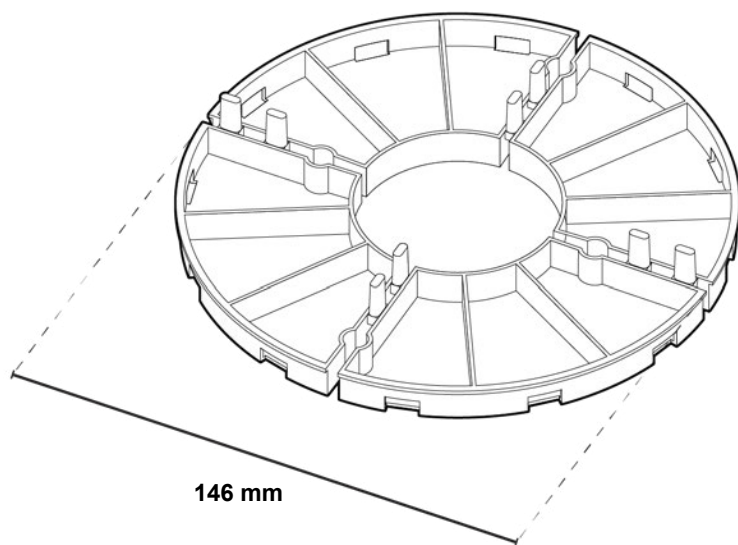
#### Securing the bracket with adhesive

If it is not possible to secure the bases with screws—for example, due to the type of substrate—secure them using a special-purpose adhesive (e.g., for concrete).



# 10 MM AND 15 MM STAND

## DIMENSIONS - 10 MM STAND



### Deck base

#### 10 mm

Code: PAD-010

Diameter: 146 mm

Height: 10 mm

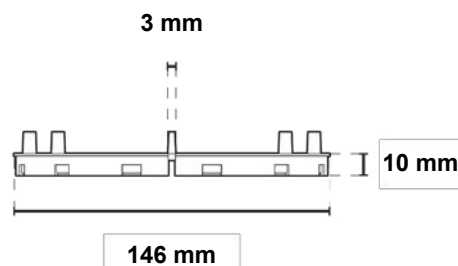
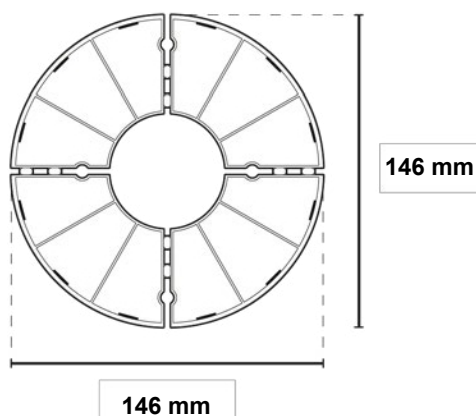
Height with spacers: 20 mm

Material: Black PP

Temperature range: -20 °C to 65 °C Load capacity: up to 1,000 kg\*

(\* See technical specifications for load capacity details)

Stackable: up to 3 units



Built-in joint spacers with a width of 3 mm.

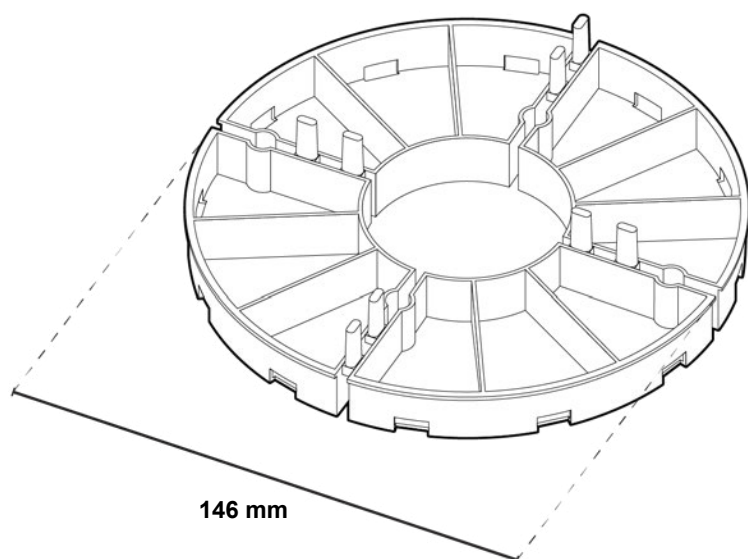
Holes for spacers 5 mm wide. Diameter 6.4 mm.

Module connection point of the modules.

Holes for draining water from the base.

# 10 MM AND 15 MM STAND

## DIMENSIONS - 15 MM BASE



### Patio base

#### 15 mm

Code: PAD-015

Diameter: 146 mm

Height: 15 mm

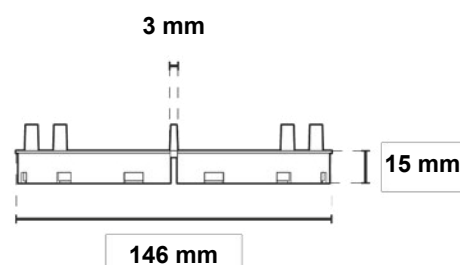
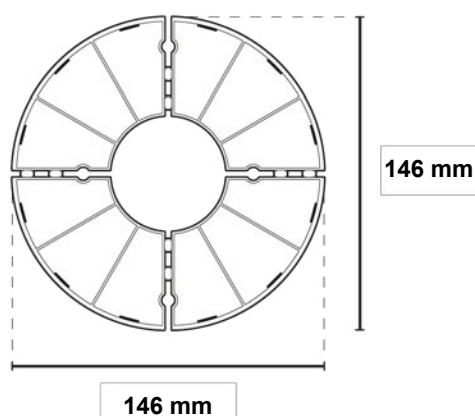
Height with spacers: 27 mm

Material: Black PP

Temperature range: -20 °C to 65 °C Load capacity: up to 1,000 kg\*

(\* See technical specifications for load capacity details)

Stackable: up to 3 units



Built-in joint spacers with a width of 3 mm.

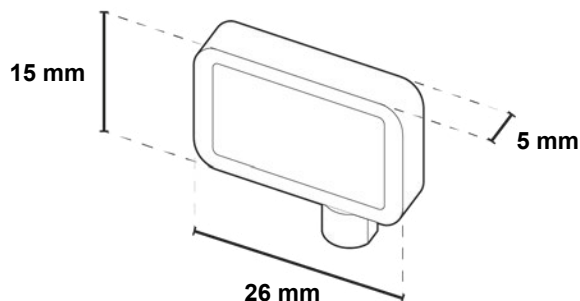
Holes for spacers 5 mm wide. Diameter 6.4 mm.

Module connection point of the modules.

Holes for draining water from the base.

# 10 MM AND 15 MM STAND

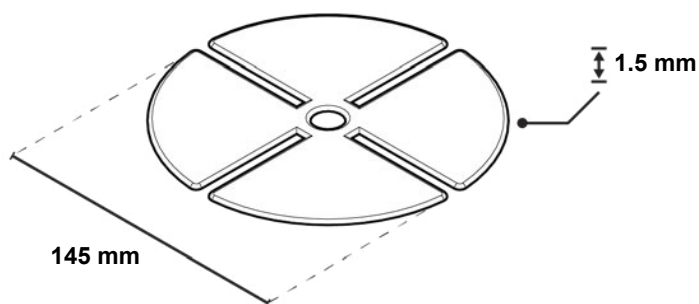
## ADDITIONAL ACCESSORIES



### 5 mm joint spacer

Code: L5

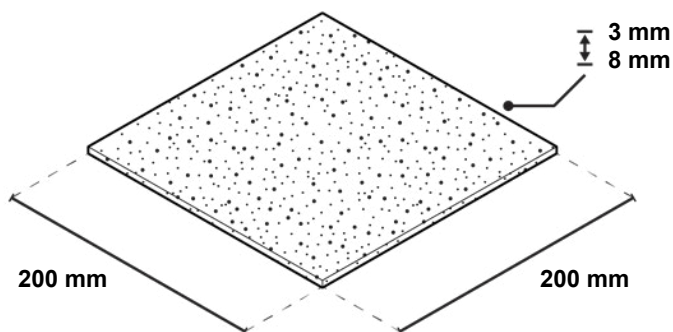
External dimensions: Width:  
5 mm  
Length: 26 mm  
Height: 15 mm



### Rubber washer

Code: AKCW-SH145

External dimensions:  
Diameter: 145 mm  
Height: 1.5 mm



### Rubber granule pad

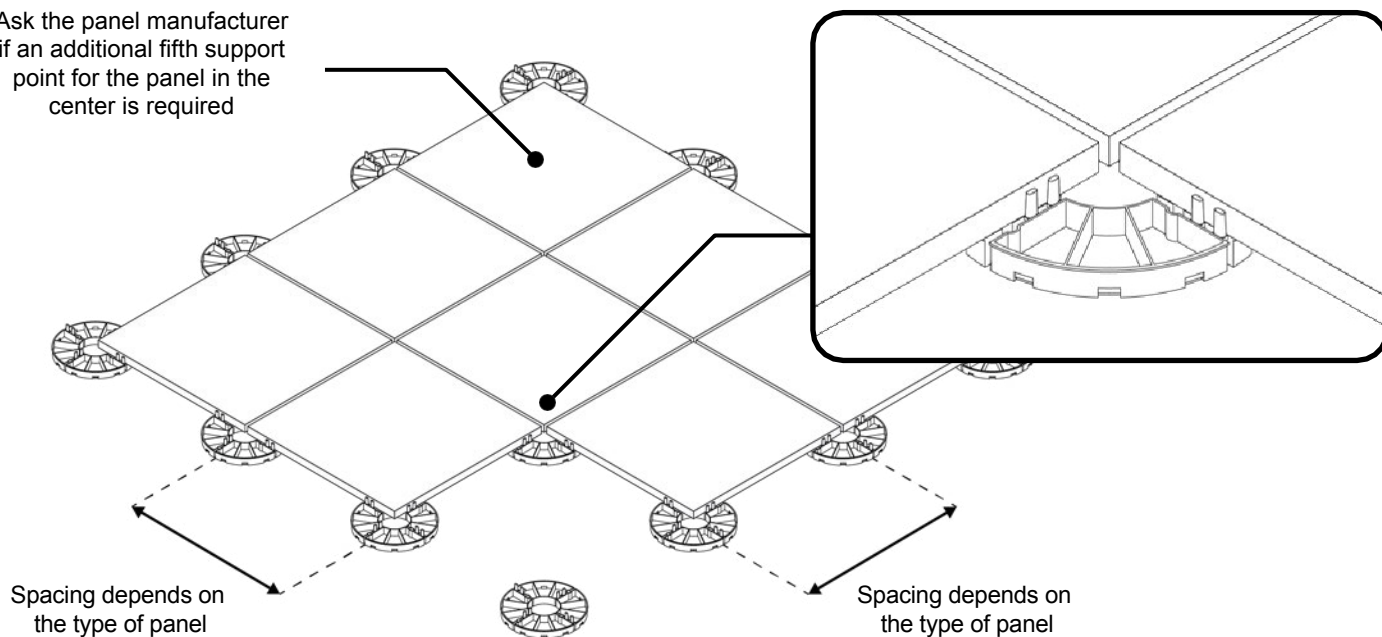
Code: AKCW-SBR200X200X3 AKCW-SBR200X200X8

External dimensions: Width:  
200 mm  
Length: 200 mm  
Height: 3 or 8 mm

# 10 MM AND 15 MM STAND

## EXAMPLE SETUP

Ask the panel manufacturer if an additional fifth support point for the panel in the center is required



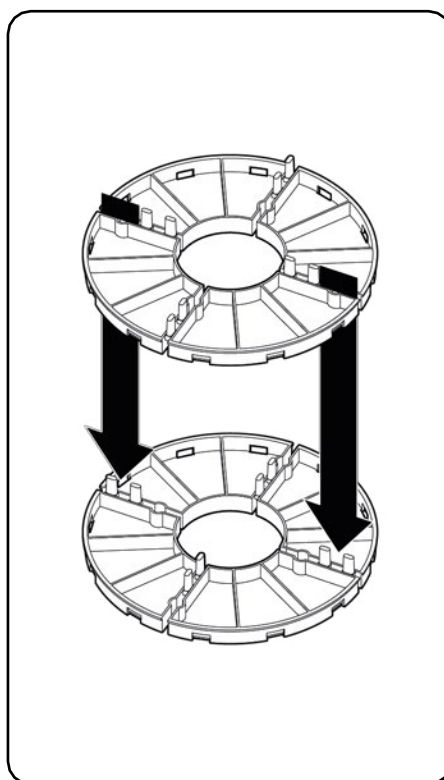
Check with the decking manufacturer regarding the recommended support for the decking on deck supports.

## STACKING

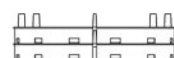
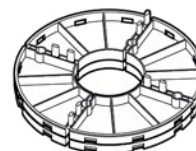
### Stacking

The bases can be stacked to achieve greater height. When connecting the bases, pay attention to the built-in butterfly joints, which should fit into the rectangular holes of the second base to provide stability.

When connecting bases, it is recommended not to exceed 3 pieces (depending on the type of base, a total of 30 mm or 45 mm).

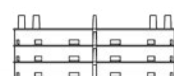
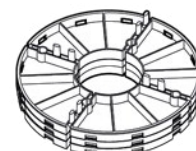


2x



= 20 mm  
or 30 mm

3x



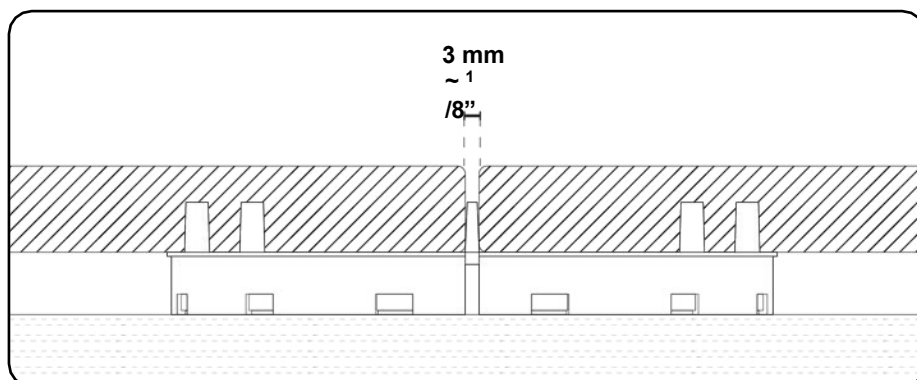
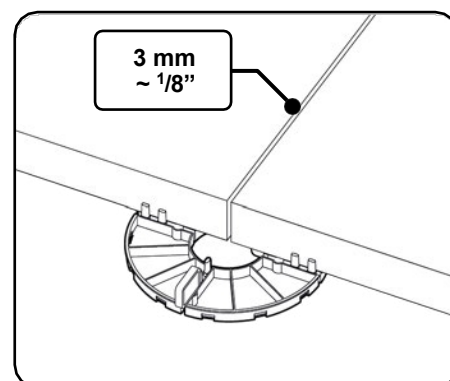
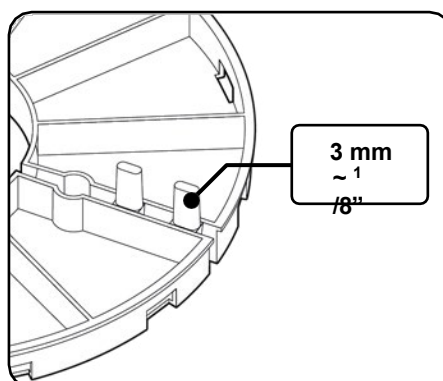
= 30 mm  
or 45 mm

# 10 MM AND 15 MM SPACER

## EXPANSION JOINT

### 3 mm gap

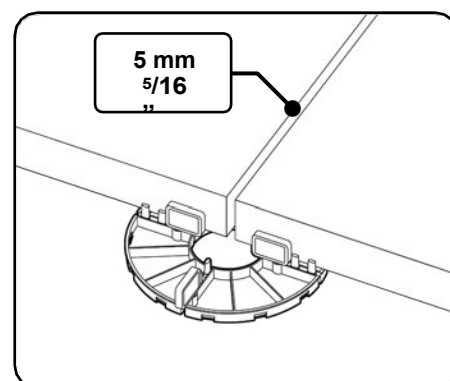
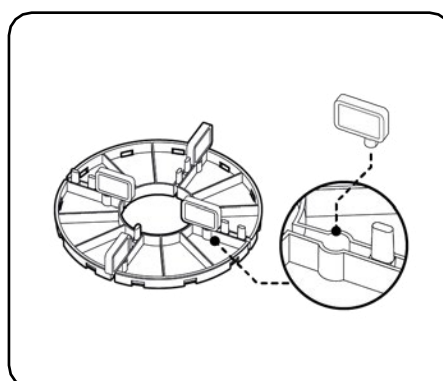
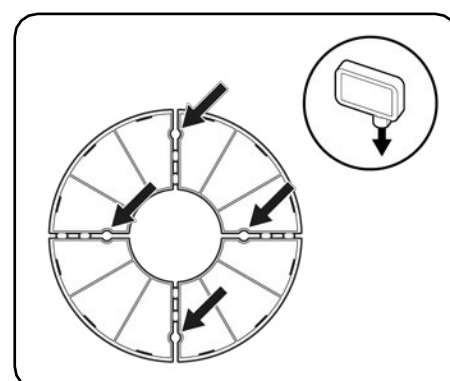
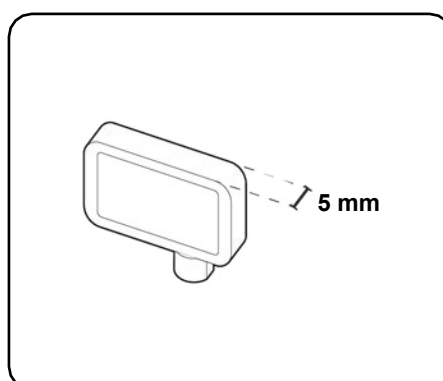
The base plates have a built-in 3 mm-wide joint.



### 5 mm gap

The base has holes that allow you to increase the joint width.

To increase the joint width, insert additional 5 mm-wide joint spacers into the holes in the base.

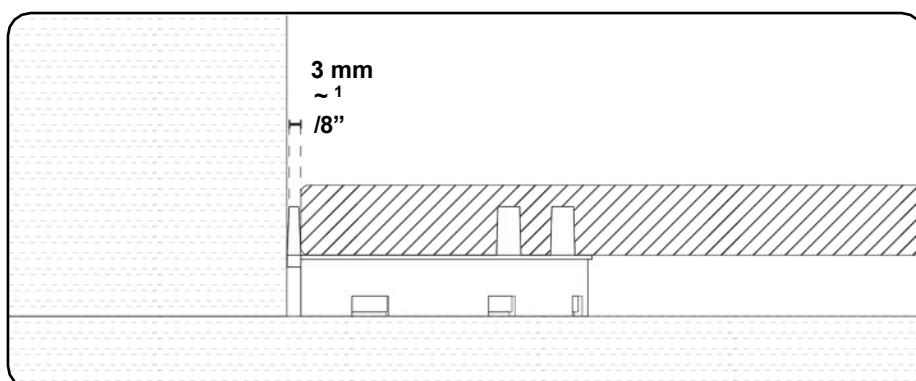
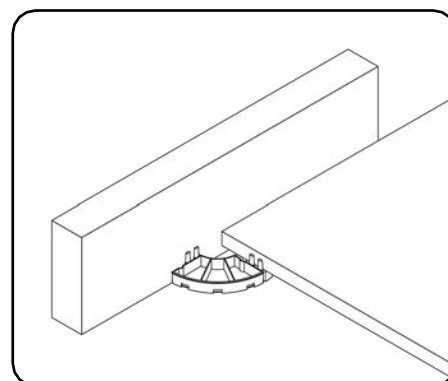
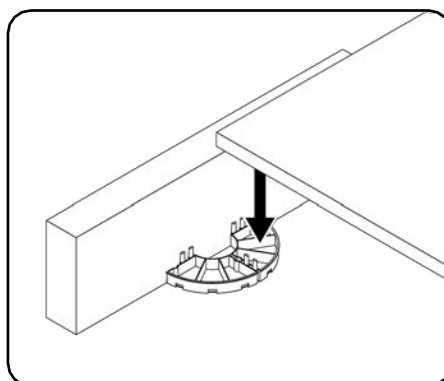
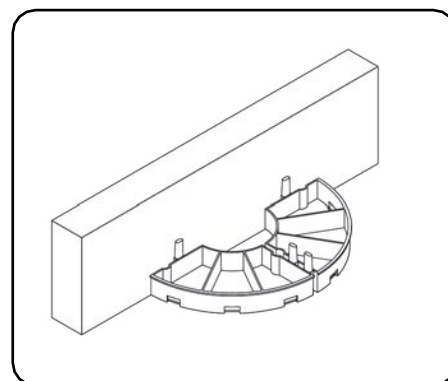
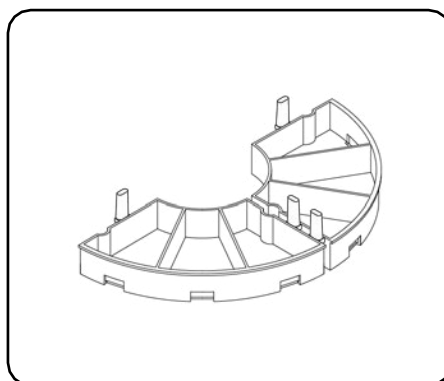


# 10 MM AND 15 MM SPACER

## EXPANSION JOINT

### Expansion joint against the wall

To create an expansion joint next to a wall,  
use half of a base plate with four butterfly  
spacers.



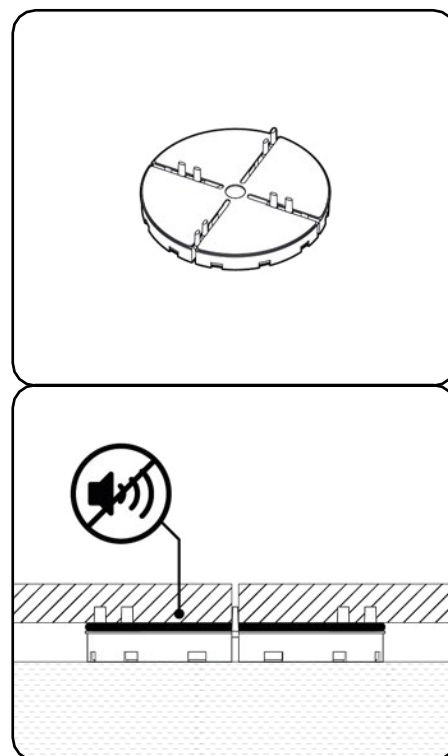
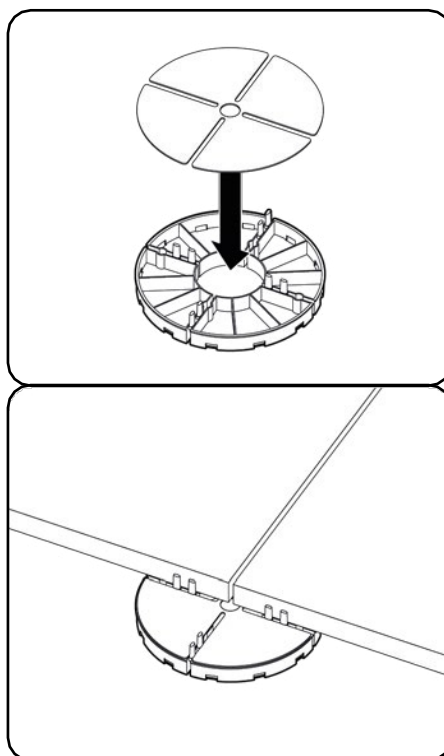
# 10 MM AND 15 MM SPACER

## SOUND INSULATION

### Soundproofing the top of the stand

Place the AKCW-SH145 rubber pad on the stand.

The AKCW-SH145 rubber pad is 1.5 mm thick. Be sure to account for the pad's thickness when planning the deck's height. Using this solution will help reduce unwanted noise while using the deck, particularly the grinding sound caused by loose particles of concrete and sand moving between the pedestal and the deck board.

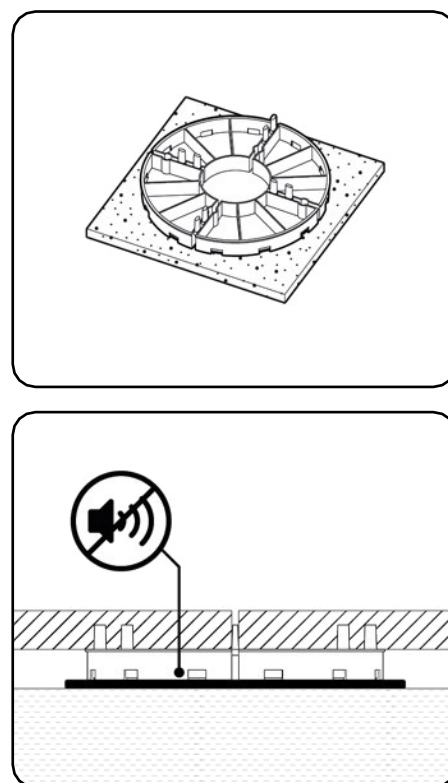
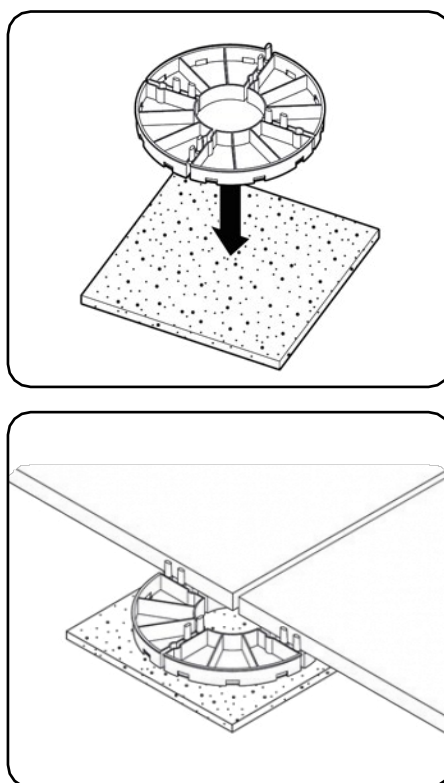


### Soundproofing the bottom of the pedestal

Optionally, you can use a rubber granule pad to achieve additional sound insulation; this solution is worth considering when installing a deck or raised floor on a level with living spaces below. Using a rubber granule pad will also improve the deck's usability.

This solution will help reduce unwanted noise while using the terrace, particularly the squeaking caused by loose particles of concrete and sand moving beneath the pedestals.

Place a rubber granule pad between the pedestal and the subfloor.



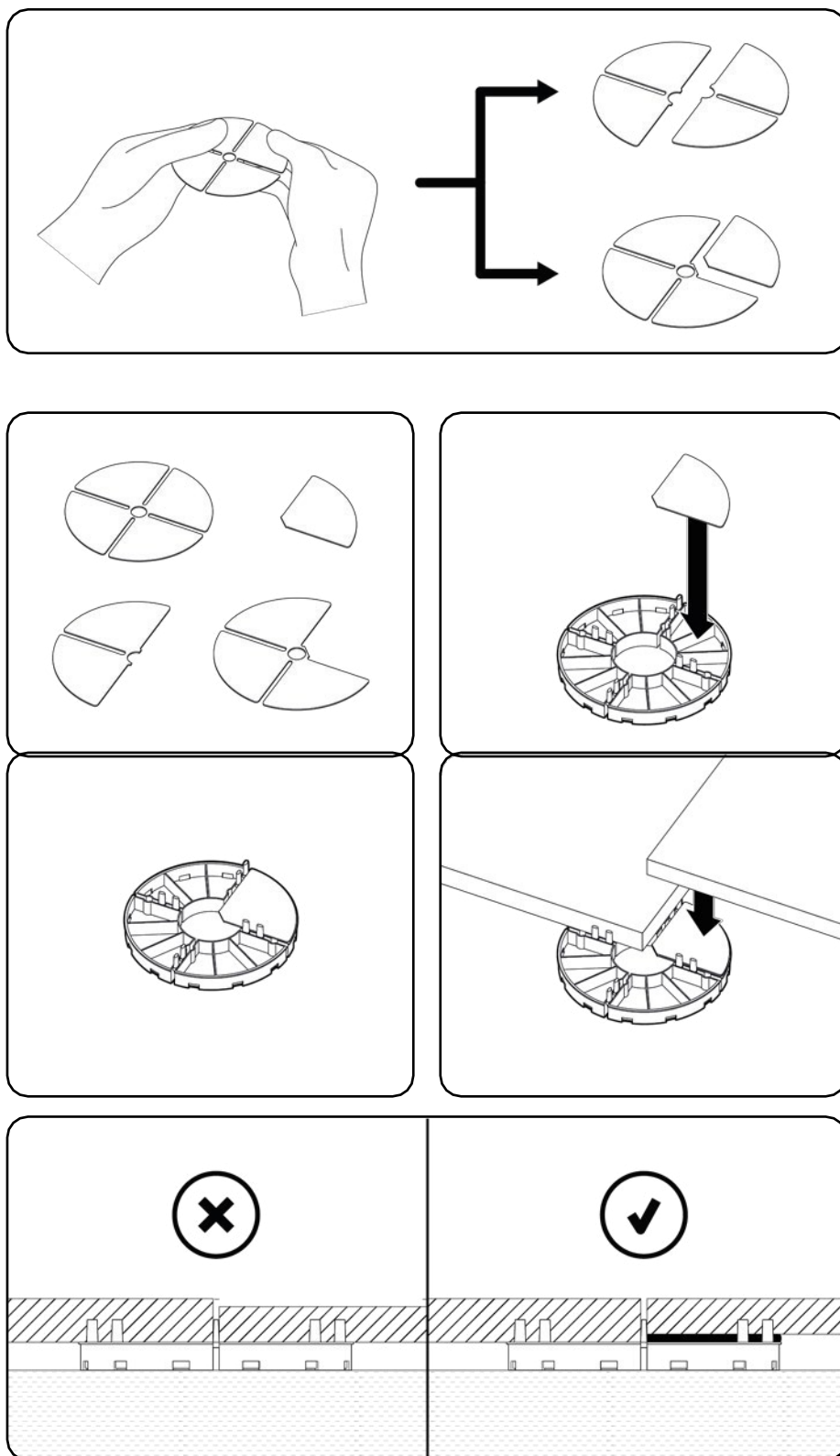
# 10 MM AND 15 MM SPACER

## DIFFERENCES IN SLAB HEIGHTS

### Compensating for Differences in Slab Thickness

Rubber pads can be separated into sections by tearing them apart. The torn-off sections of the rubber pads are used to compensate for differences in the thickness of the deck slabs. If the terrace surface is uneven due to differences in the thickness of the terrace slabs, determine the thickness of the thickest slab and place the appropriate number of rubber pads under the remaining slabs. Properly installed slabs with pads should form a level terrace surface.

The rubber shims can be stacked on top of one another.

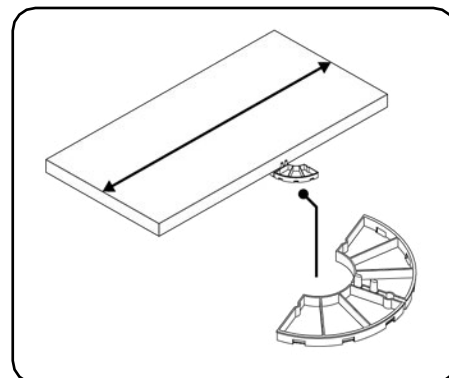
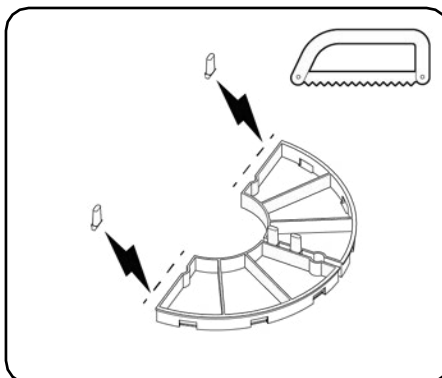
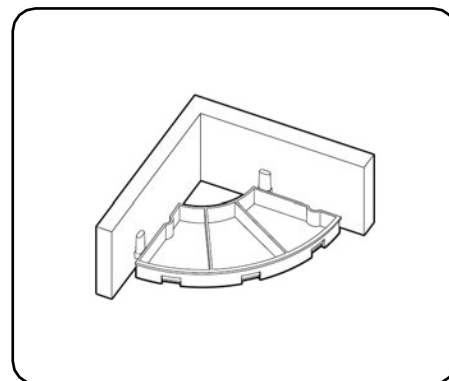
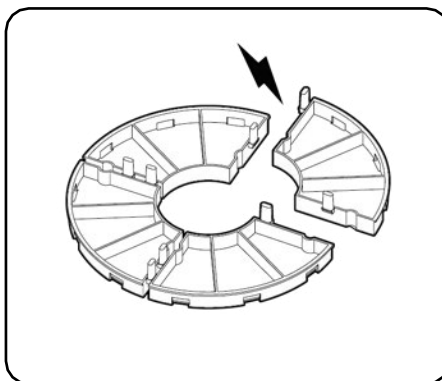
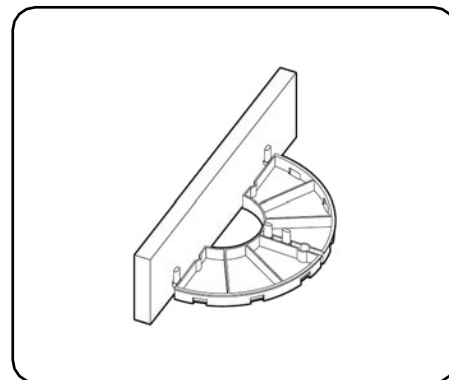
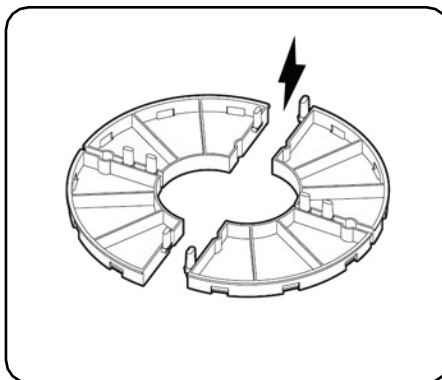


# 10 MM AND 15 MM SPACER MODULES - REMOVAL

## Breaking Out Modules Bases

The bases consist of 4 interconnected modules, which allows them to be broken into halves for installation along walls and into quarters for installation in the corners of the deck. No tools are required to break them apart.

To break off a piece, bend and snap the base at the point where the modules join.



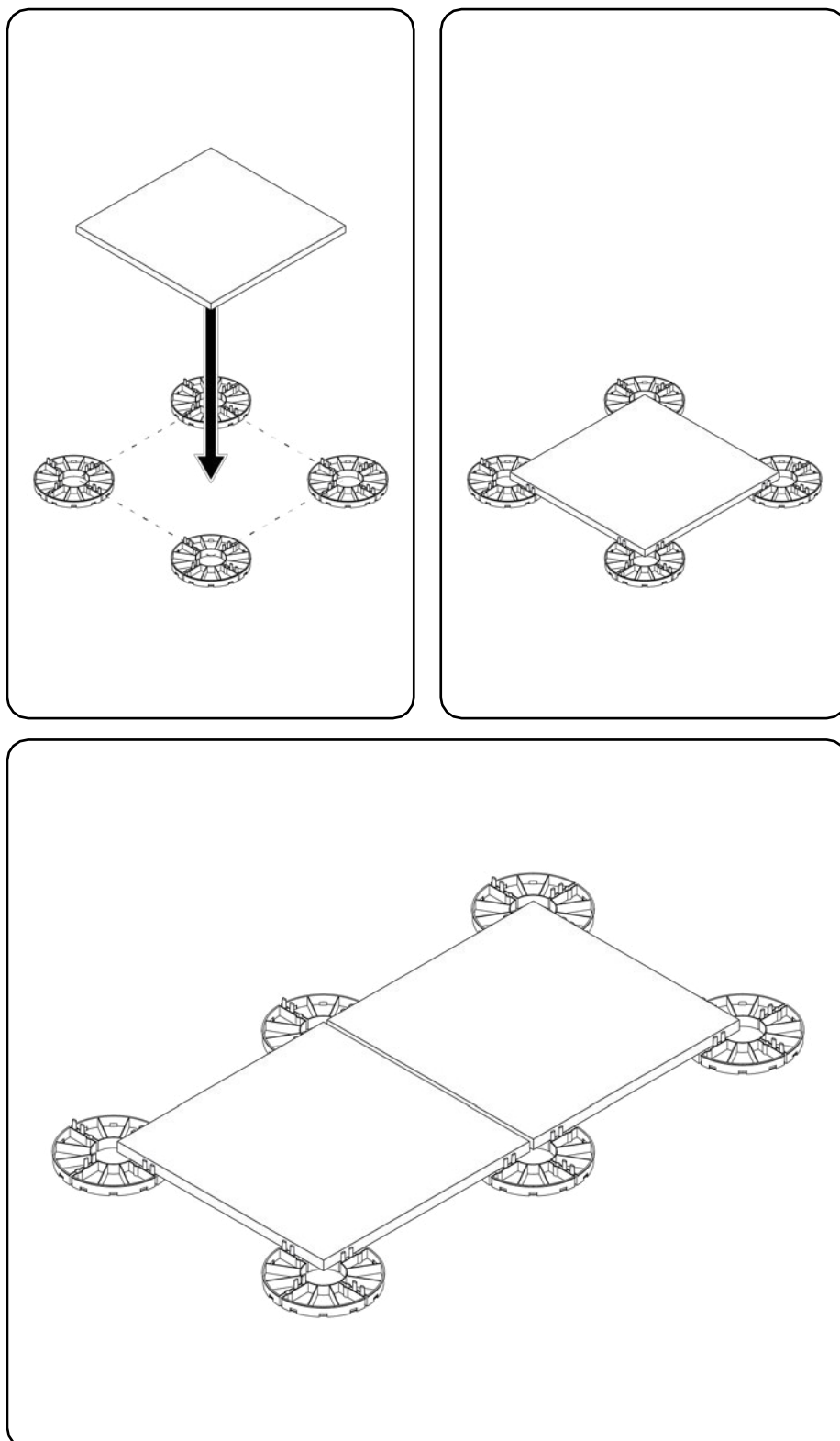
# 10 MM AND 15 MM SPACERS

## PLATE INSTALLATION

### Panel Installation

To install a slab, simply place it on the pedestals. By default, the pedestals are located at the corners of the slab.

Before beginning construction of the deck, it is important to create a layout plan for the supports.



### NOTE

Before laying the slabs, check whether the manufacturer permits point support and, if so, in how many places.

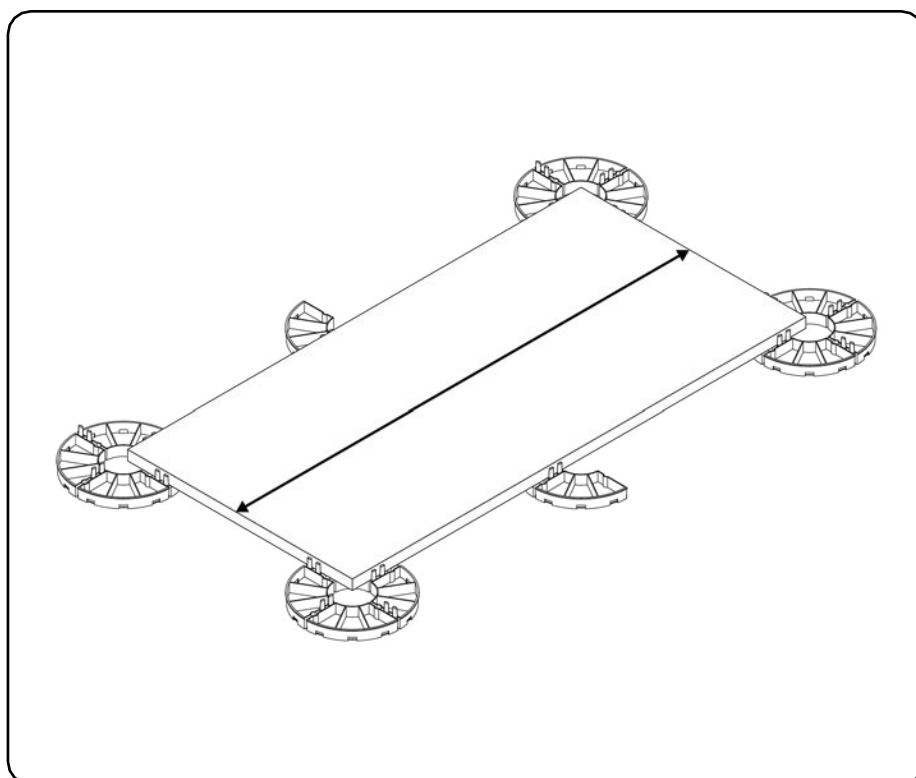
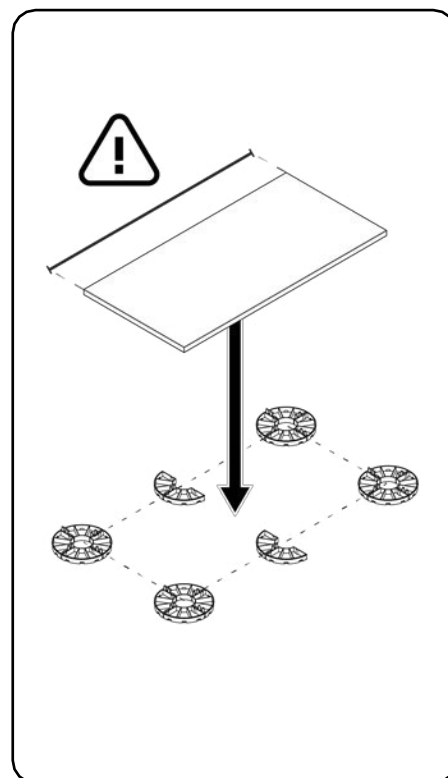
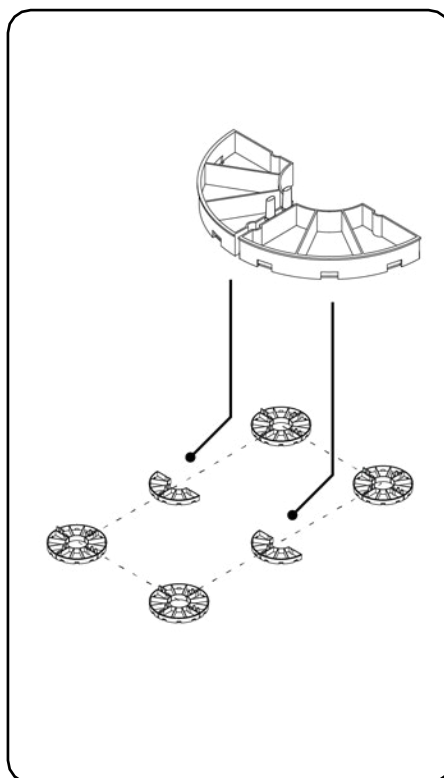
# 10 MM AND 15 MM SPACERS

## PLATE INSTALLATION

### Long Slabs

Long slabs may require additional support along their longer edges. To place a support block on the edge of a slab, use a broken-off half of a support block with a single spacer.

Before beginning construction of the deck, it is important to create a plan for the placement of the pedestals.



### NOTE

Before installation, check whether the manufacturer permits point support for the slabs and, if so, in how many places.

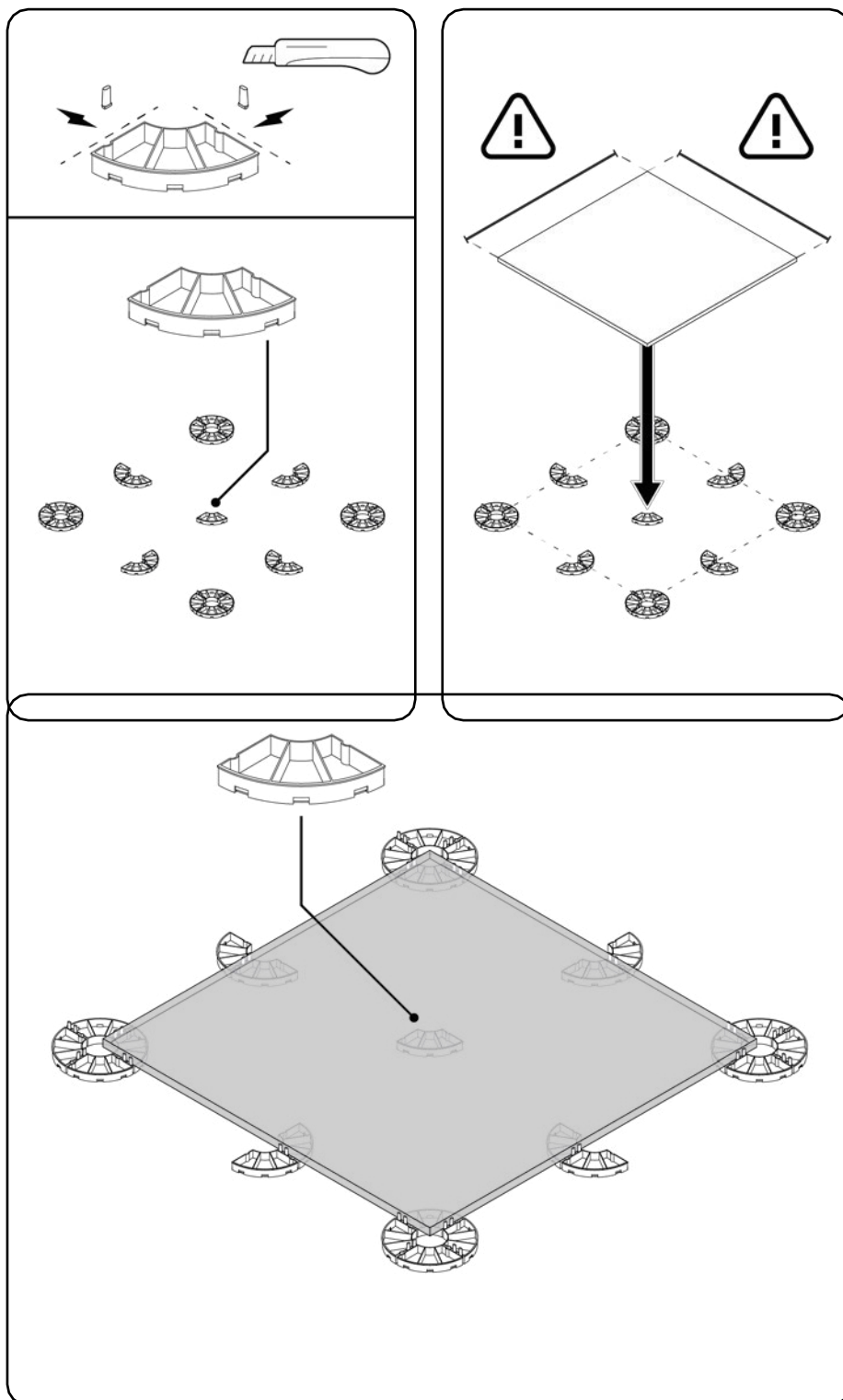
# 10 MM AND 15 MM SPACERS

## PLATE INSTALLATION

### Large Slabs

Large slabs may require additional support in the form of a broken-off support base component. For 10 mm pedestals, use a cut-out PAD-010 pedestal module in the center of the slab with all joint spacers cut out. For 15 mm pedestals, use a cut-out PAD-015 pedestal module in the center of the slab with all joint spacers cut out. For both heights, additional pedestal modules with spacers at the edges of the slab should also be used. The need for central support depends on the slab's strength.

Before beginning construction of the deck, it is important to create a layout plan for the pedestals.



### NOTE

Before installation, check the slabs to confirm whether the manufacturer permits point support and, if so, in how many locations.

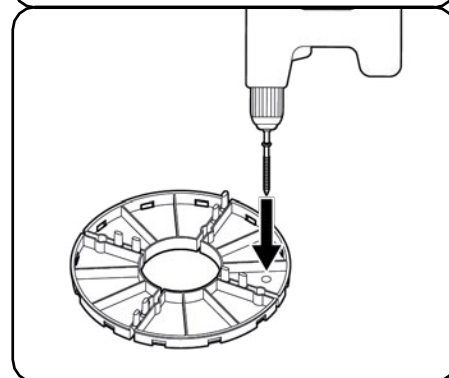
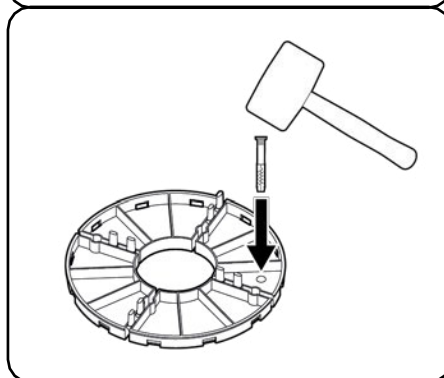
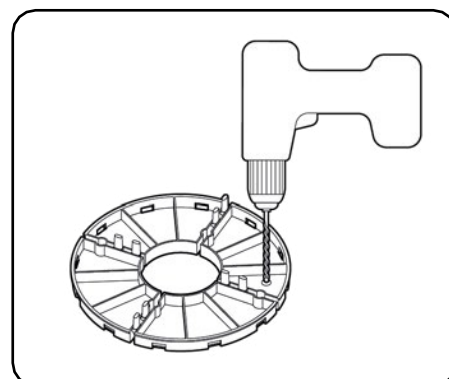
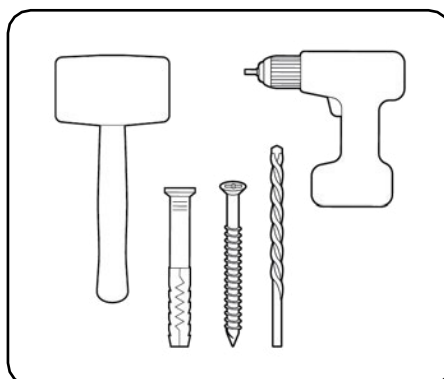
# 10 MM AND 15 MM SPACER

## FASTENING TO THE SUBSTRATE

### Securing the stand with screws

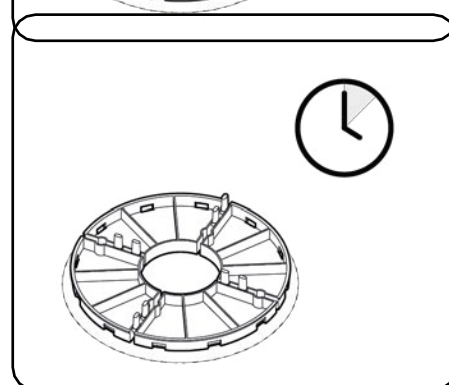
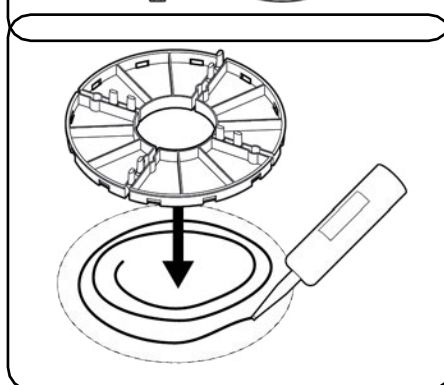
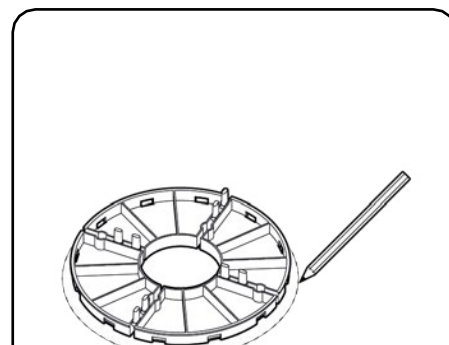
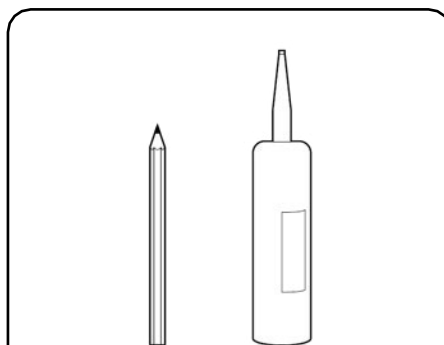
If there is a risk that the stands might shift, secure them to prevent movement. Securing the stand with screws is the most reliable way to keep it in place. For the PAD-010 and PAD-015 stands, drill through both the stand and the surface. Secure the stand with at least two screws.

**Caution—drilling into the surface may damage the insulation. Make sure you can drill into the surface. Make sure the stand you are securing is in the correct position!**



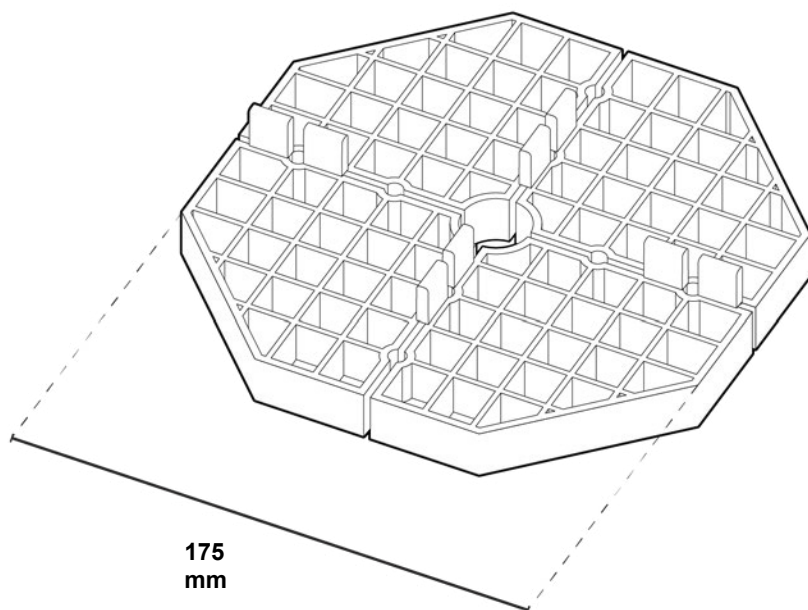
### Mounting the bracket with adhesive

If it is not possible to secure the bases with screws—for example, due to the type of substrate—secure them using a special-purpose adhesive (e.g., for concrete).



# 16 MM BASE

## DIMENSIONS



### Deck base

**16 mm**

Code: PAD-016

Length: 175 mm

Width: 175 mm

Height: 16 mm

Height with spacers: 31 mm

Material: Black PP

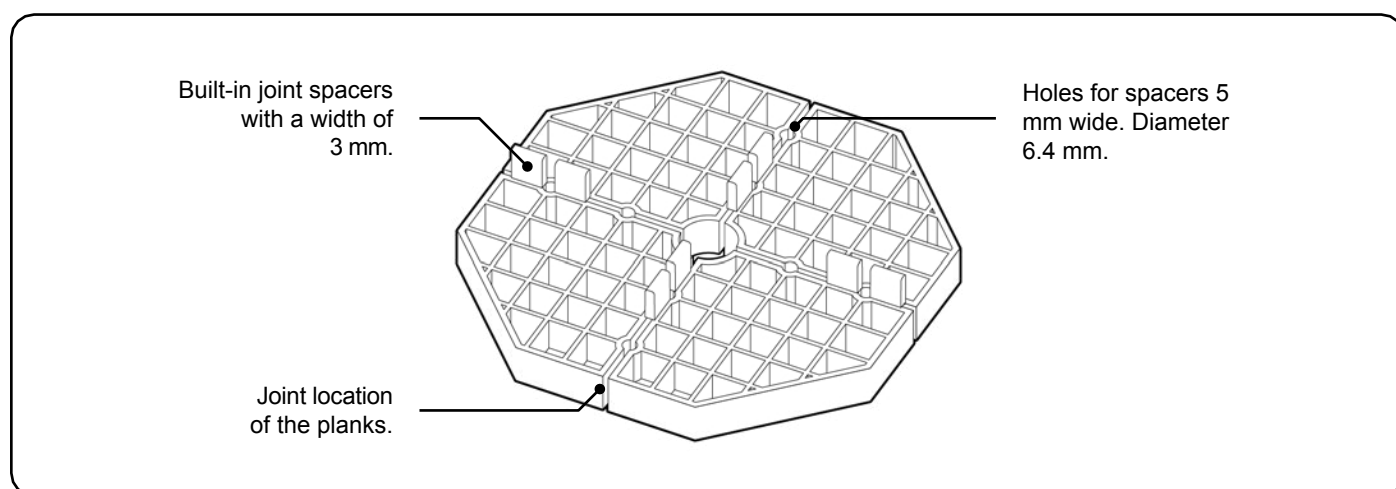
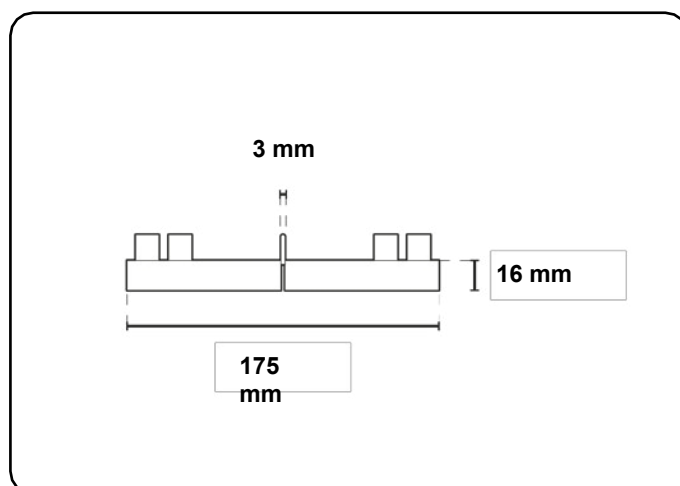
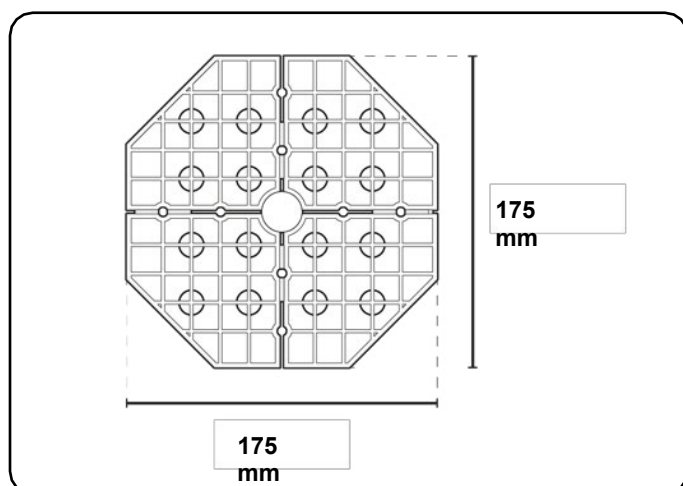
Temperature range: -20 °C to 65 °C Load

capacity: up to 1,000 kg\*

(\* See technical specifications

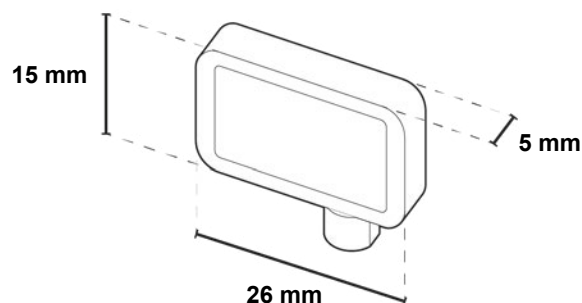
for load capacity details)

Stackable: up to 3 units



# 16 MM BASE

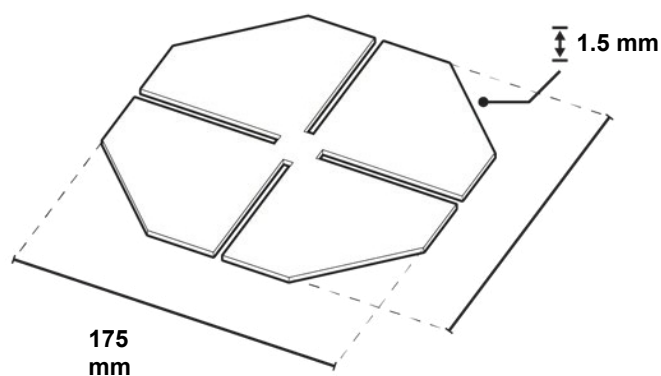
## ADDITIONAL ACCESSORIES



### 5 mm joint spacer

Code: L5

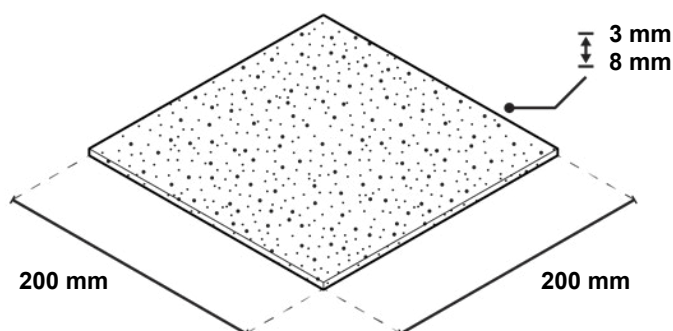
External dimensions: Width:  
5 mm  
Length: 26 mm  
Height: 15 mm



### Rubber washer

Code: AKCW-SH175

External dimensions: Width:  
175 mm  
Length: 175 mm  
Height: 1.5 mm



### Rubber granule pad

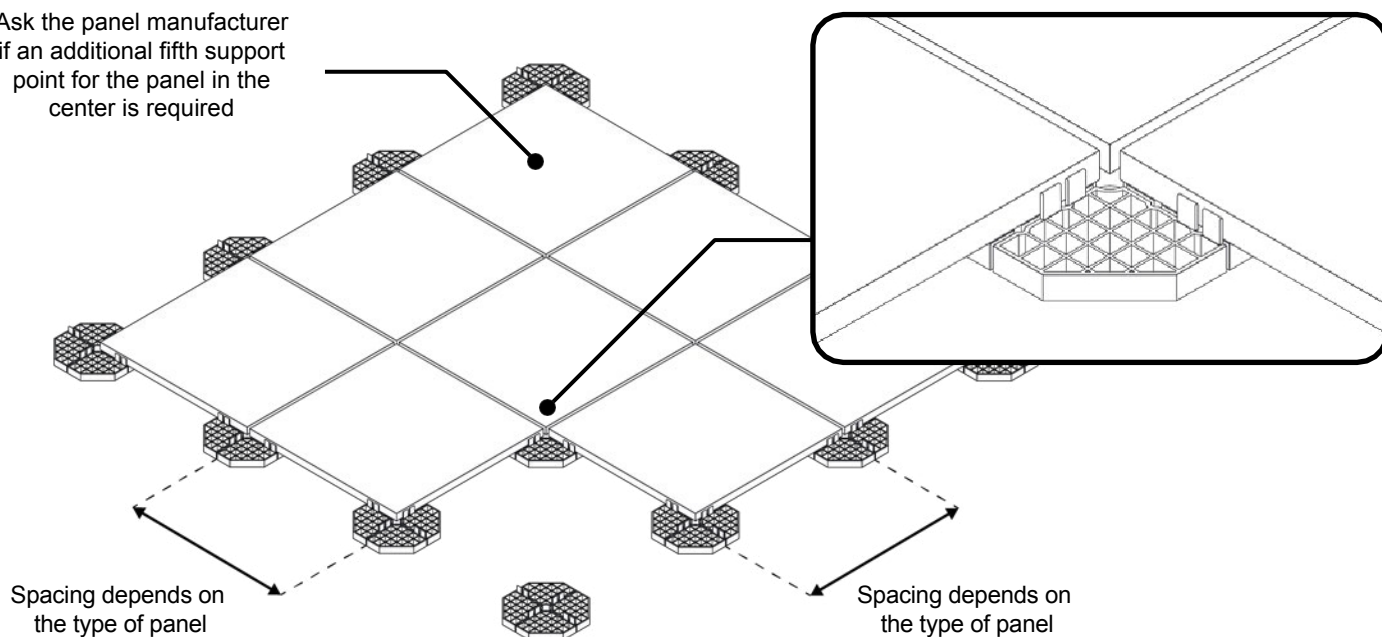
Code: AKCW-SBR200X200X3 AKCW-SBR200X200X8

External dimensions: Width:  
200 mm  
Length: 200 mm  
Height: 3 or 8 mm

# 16 MM BASE

## EXAMPLE SETUP

Ask the panel manufacturer if an additional fifth support point for the panel in the center is required



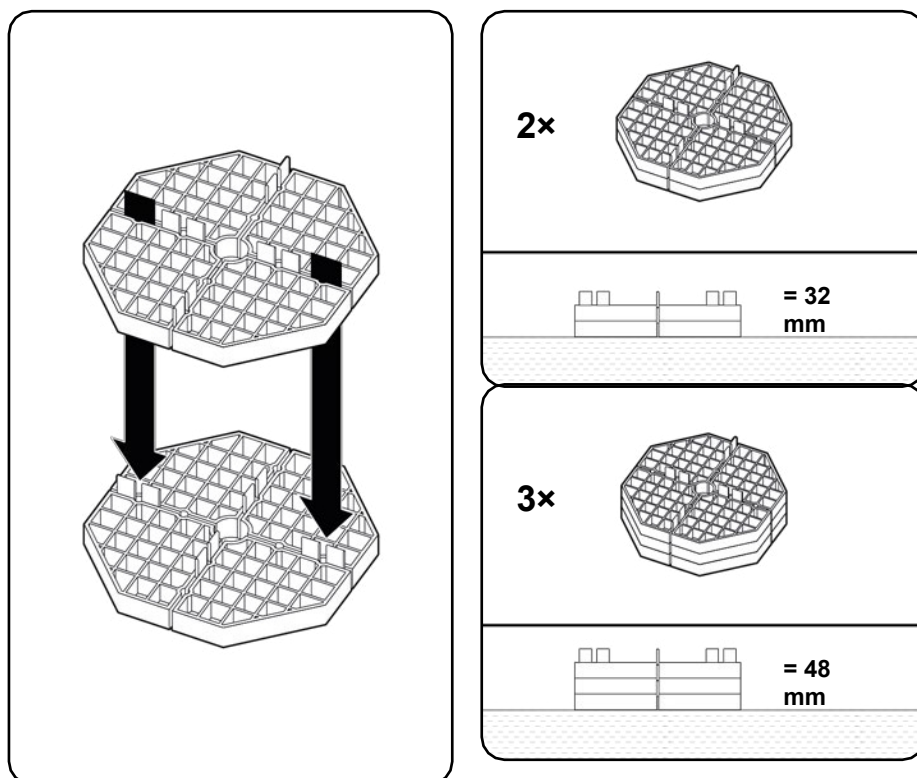
Check with the decking manufacturer regarding the recommended support for the decking on deck supports.

## STACKING

### Stacking

The bases can be stacked to achieve greater height. When connecting the bases, pay attention to the built-in butterfly joints, which should fit into the rectangular holes of the second base to provide stability.

When connecting bases, it is recommended not to exceed 3 pieces (48 mm total).

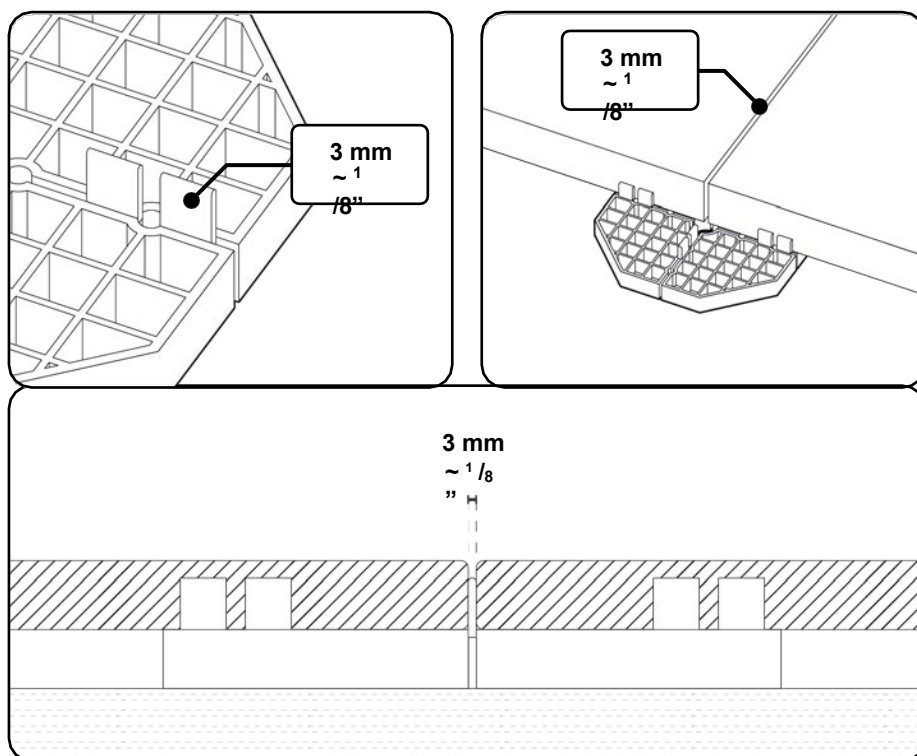


# 16 MM SPACER

## EXPANSION JOINT

### 3 mm gap

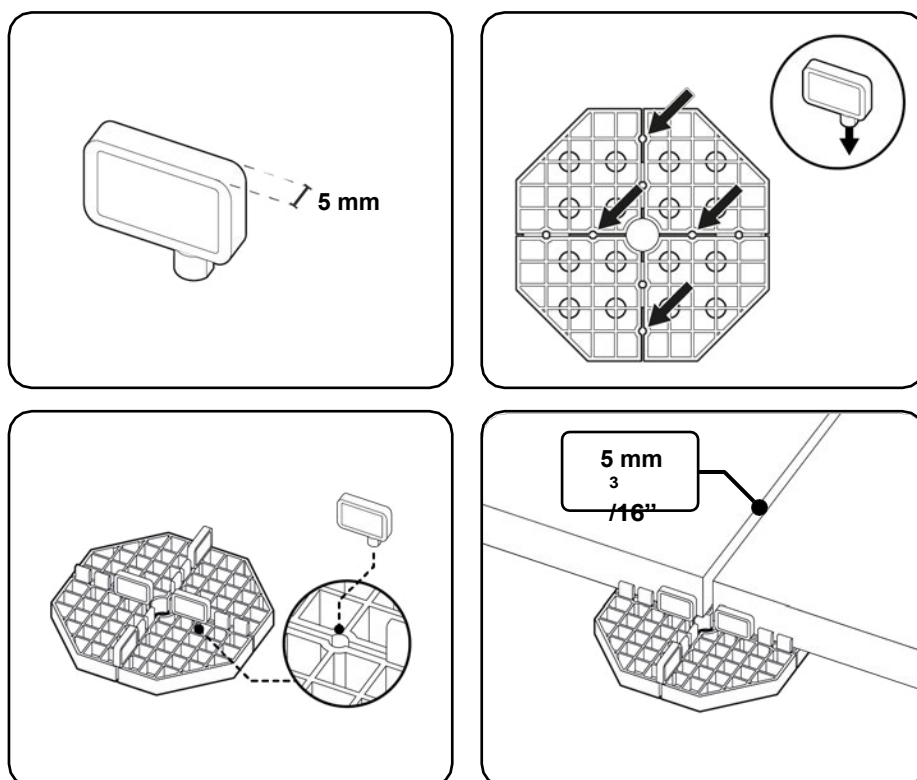
The bases have a built-in 3 mm-wide joint.



### 5 mm gap

The base has holes that allow you to increase the joint width.

To increase the joint width, insert additional 5 mm-wide joint spacers into the holes in the base.

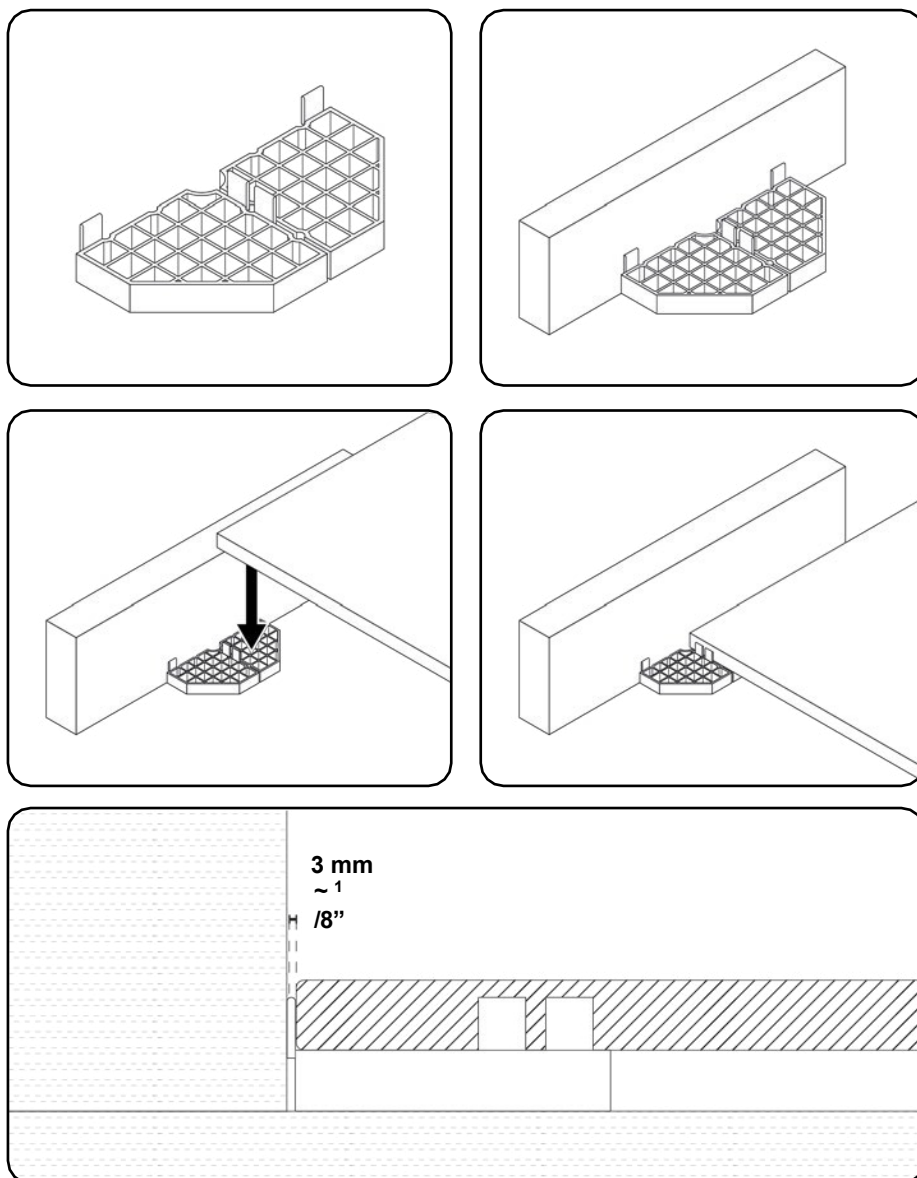


# 16 MM SPACER

## EXPANSION JOINT

### Expansion joint at the wall

To create an expansion gap against the wall, use half of a base plate with four butterfly spacers.



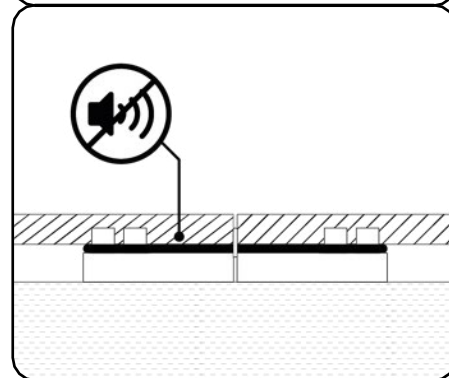
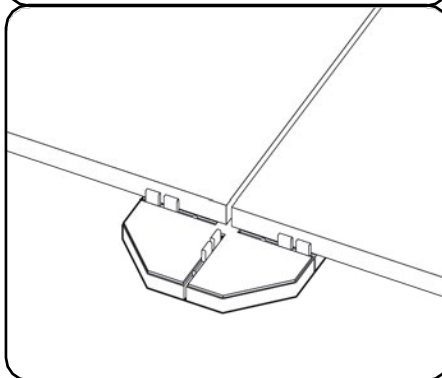
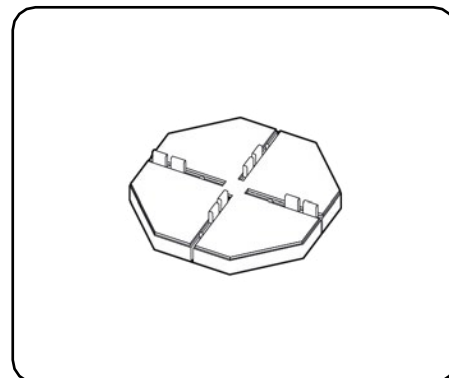
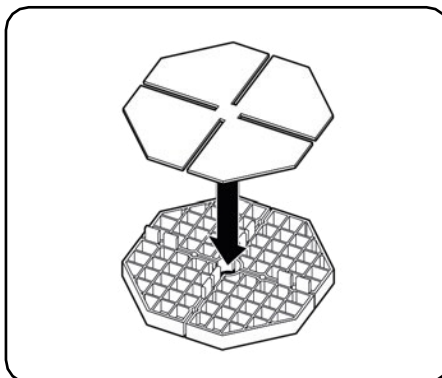
# 16 MM BASE

## SOUND INSULATION

### Soundproofing the top of the stand

Place the AKCW-SH175 rubber pad on the stand.

The AKCW-SH175 rubber pad is 1.5 mm thick. Be sure to account for the pad's thickness when planning the deck's height. Using this solution will help reduce unwanted noise while using the deck, particularly the grinding sound caused by loose particles of concrete and sand moving between the pedestal and the deck board.

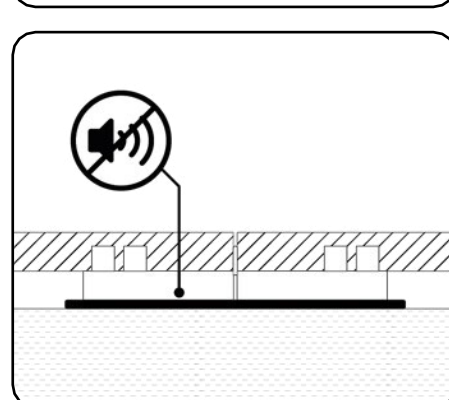
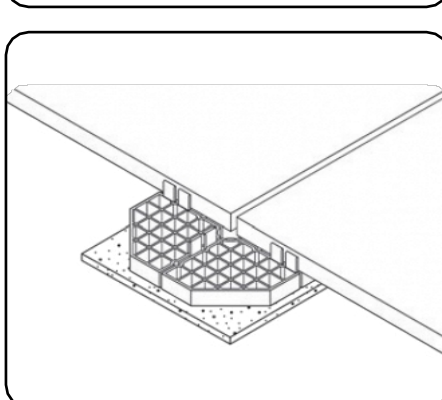
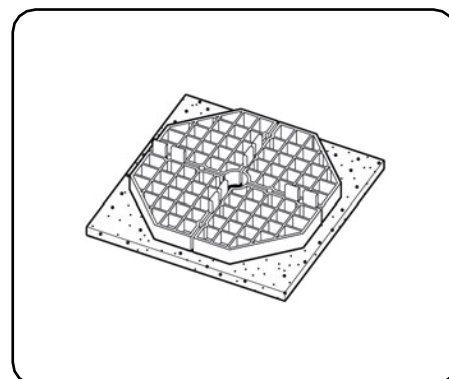
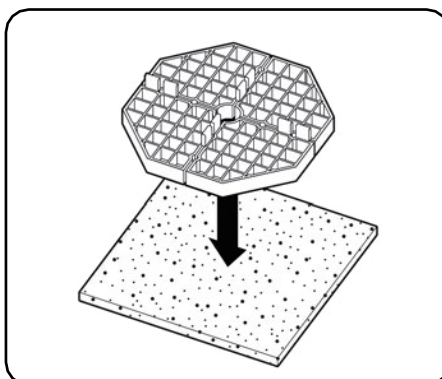


### Soundproofing the bottom of the pedestal

Optionally, you can use a rubber granule pad to achieve additional sound insulation; this solution is worth considering when installing a deck or raised floor on a level with living spaces below. Using a rubber granule pad will also improve the deck's usability.

This solution will help reduce unwanted noise while using the terrace, particularly the squeaking caused by loose particles of concrete and sand moving beneath the pedestals.

Place the rubber granule pad between the pedestal and the subfloor.



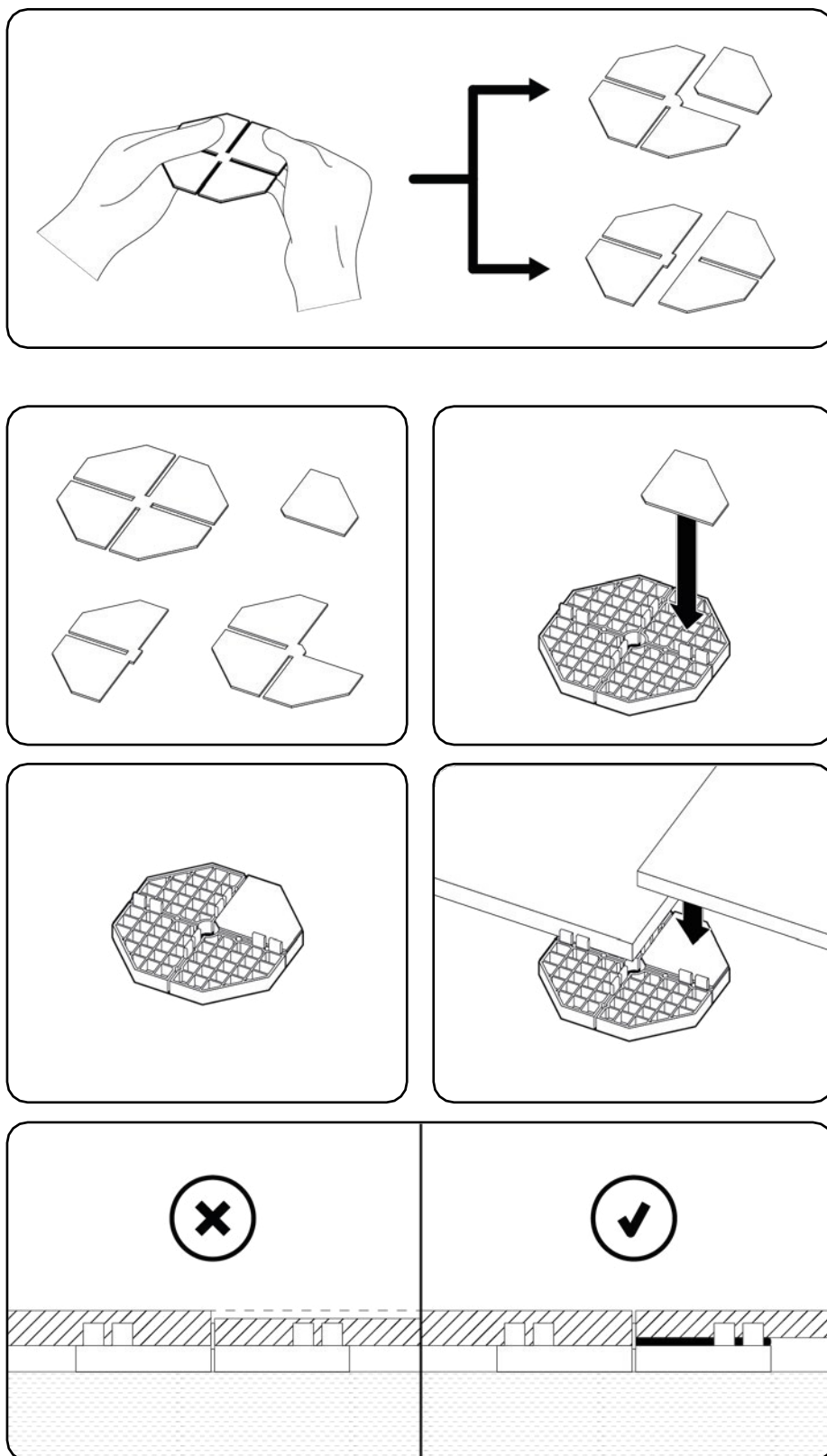
# 16 MM BASE

## DIFFERENCES IN SLAB THICKNESS

### Compensating for Differences in Slab Thickness

Rubber shims can be split into pieces by tearing them apart. The torn pieces of rubber shims are used to compensate for differences in the thickness of terrace slabs. If the terrace surface is uneven due to differences in the thickness of the terrace slabs, determine the thickness of the thickest slab and place the appropriate number of rubber shims under the remaining slabs. Properly installed slabs with shims should form a level terrace surface.

The rubber shims can be stacked on top of one another.



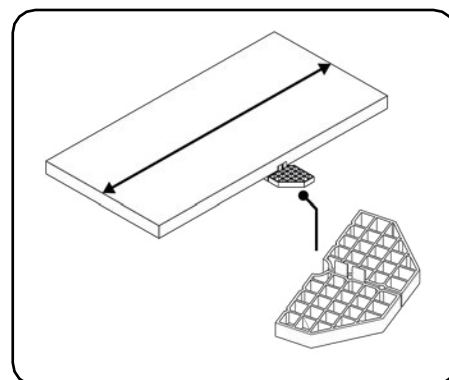
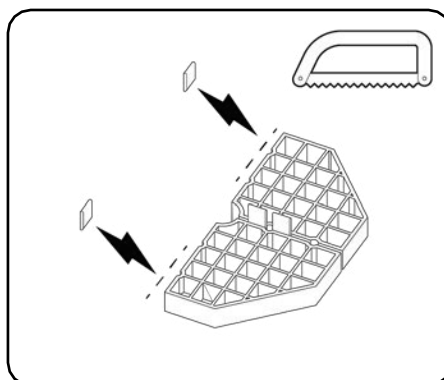
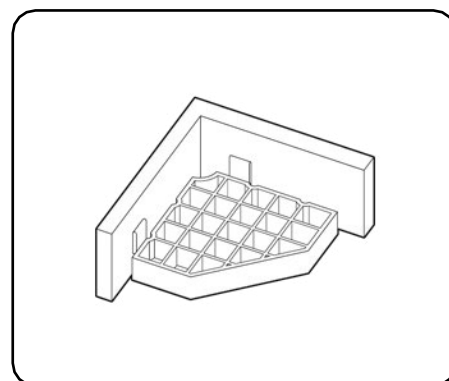
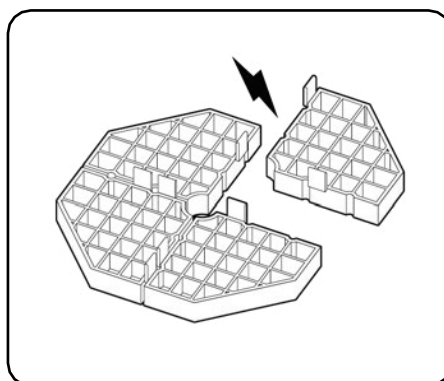
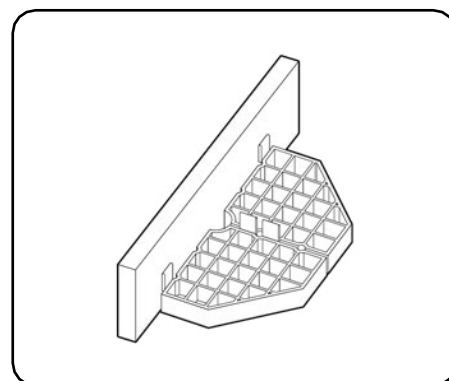
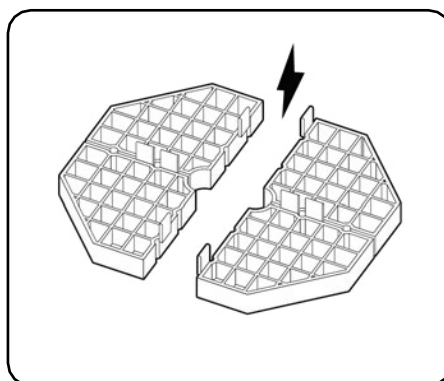
# 16 MM BASE

## MODULES - REMOVAL

### Breaking Out Modules Bases

The bases consist of 4 interconnected modules, which allows them to be broken into halves for installation along a wall, or into quarters for installation in the corners of the deck. No tools are required to break them apart.

To break off a piece, bend and snap the base at the point where the modules join.



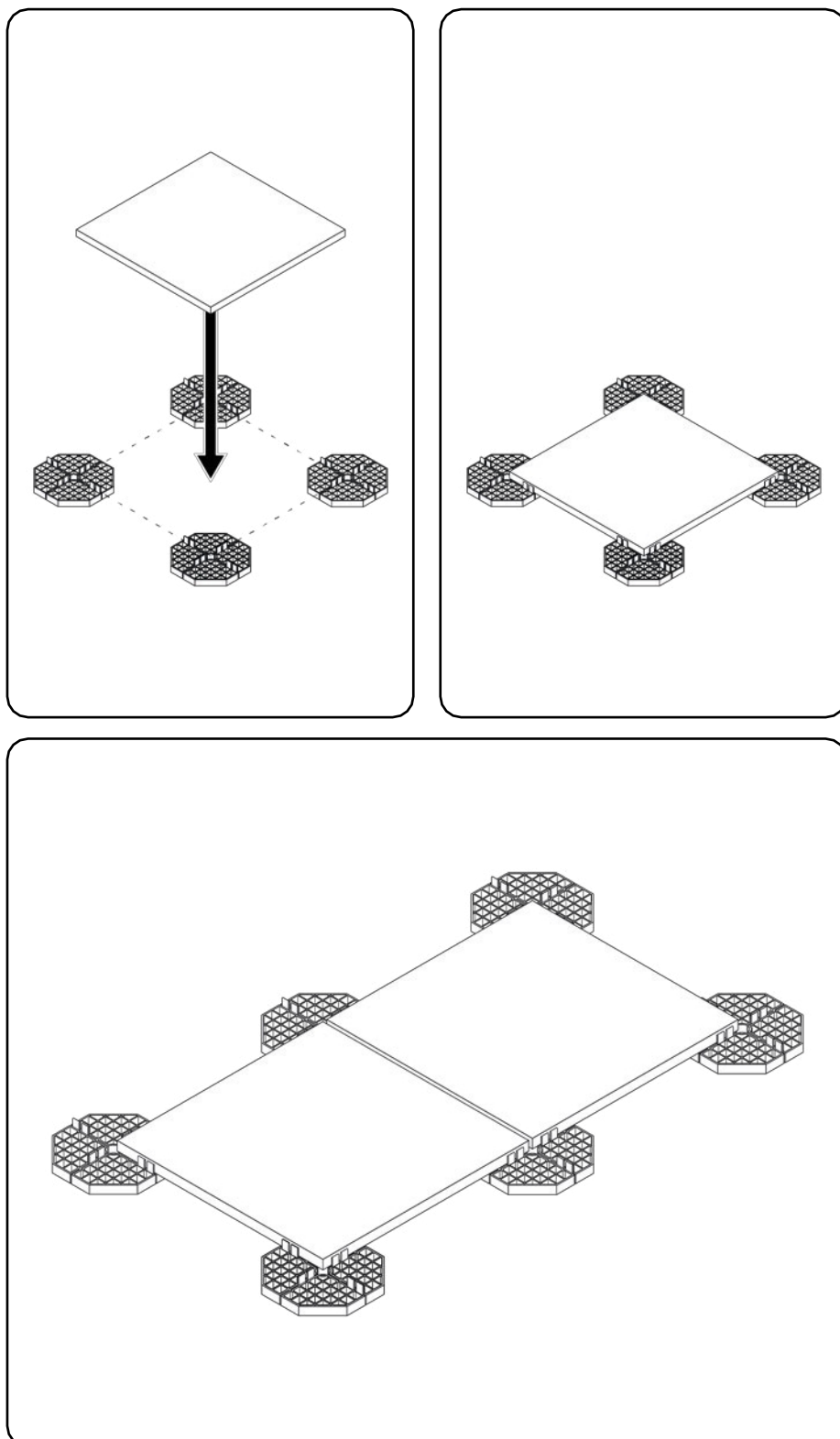
# 16 MM BASE

## PLATE INSTALLATION

### Panel Installation

To install a slab, simply place it on the pedestals. By default, the pedestals are located at the corners of the slab.

Before beginning construction of the deck, it is important to create a layout plan for the supports.



### NOTE

Before laying the slabs, check whether the manufacturer permits point support and, if so, in how many places.

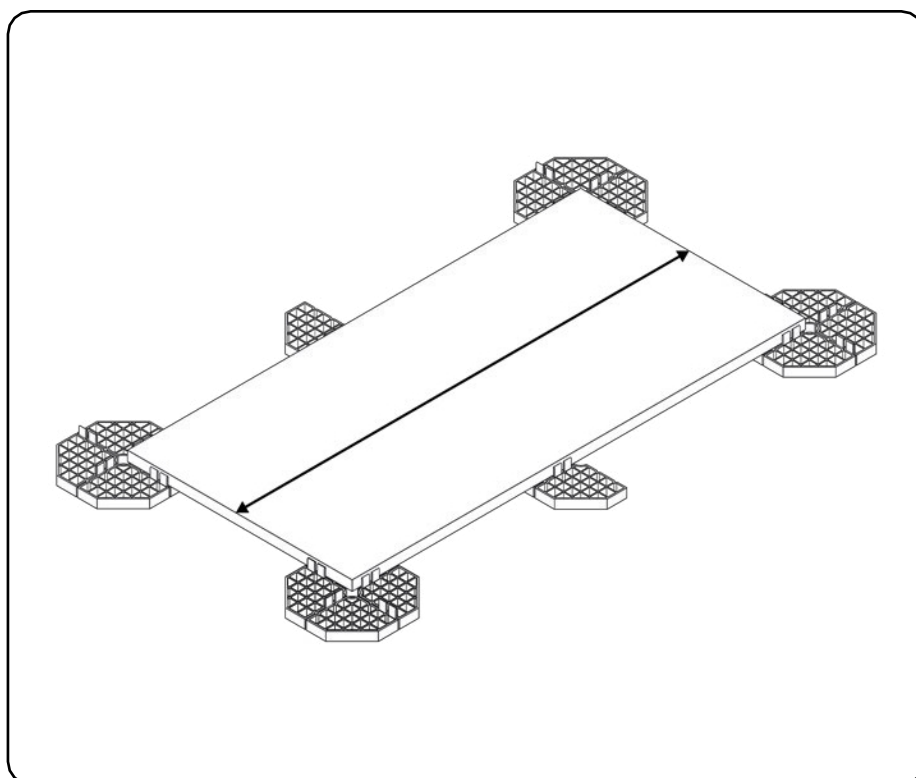
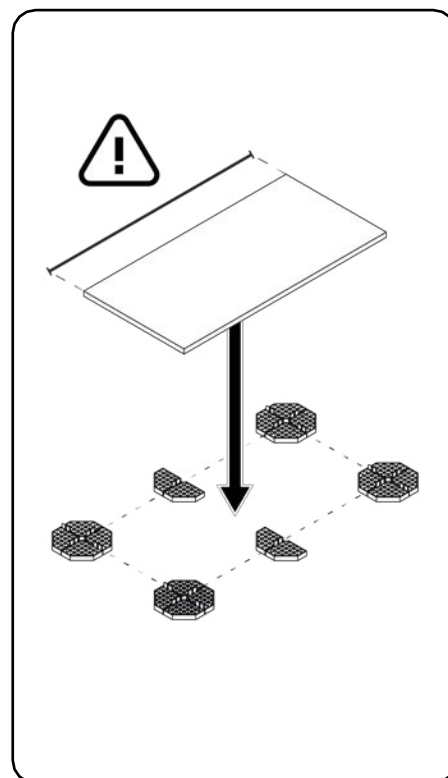
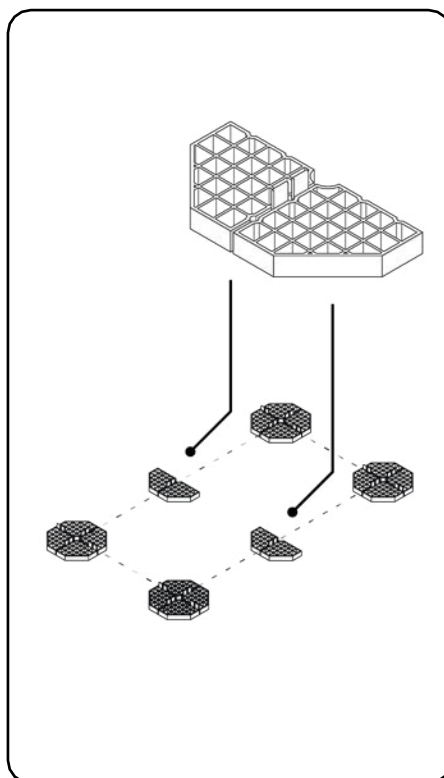
# 16 MM BASE

## PLATE INSTALLATION

### Long Slabs

Long slabs may require additional support along their longer edges. To place a support block on the edge of a slab, use a broken-off half of a support block with a single spacer.

Before beginning construction of the deck, it is important to create a plan for the placement of the pedestals.



### NOTE

Before installation, check whether the manufacturer permits point support for the slabs and, if so, in how many places.

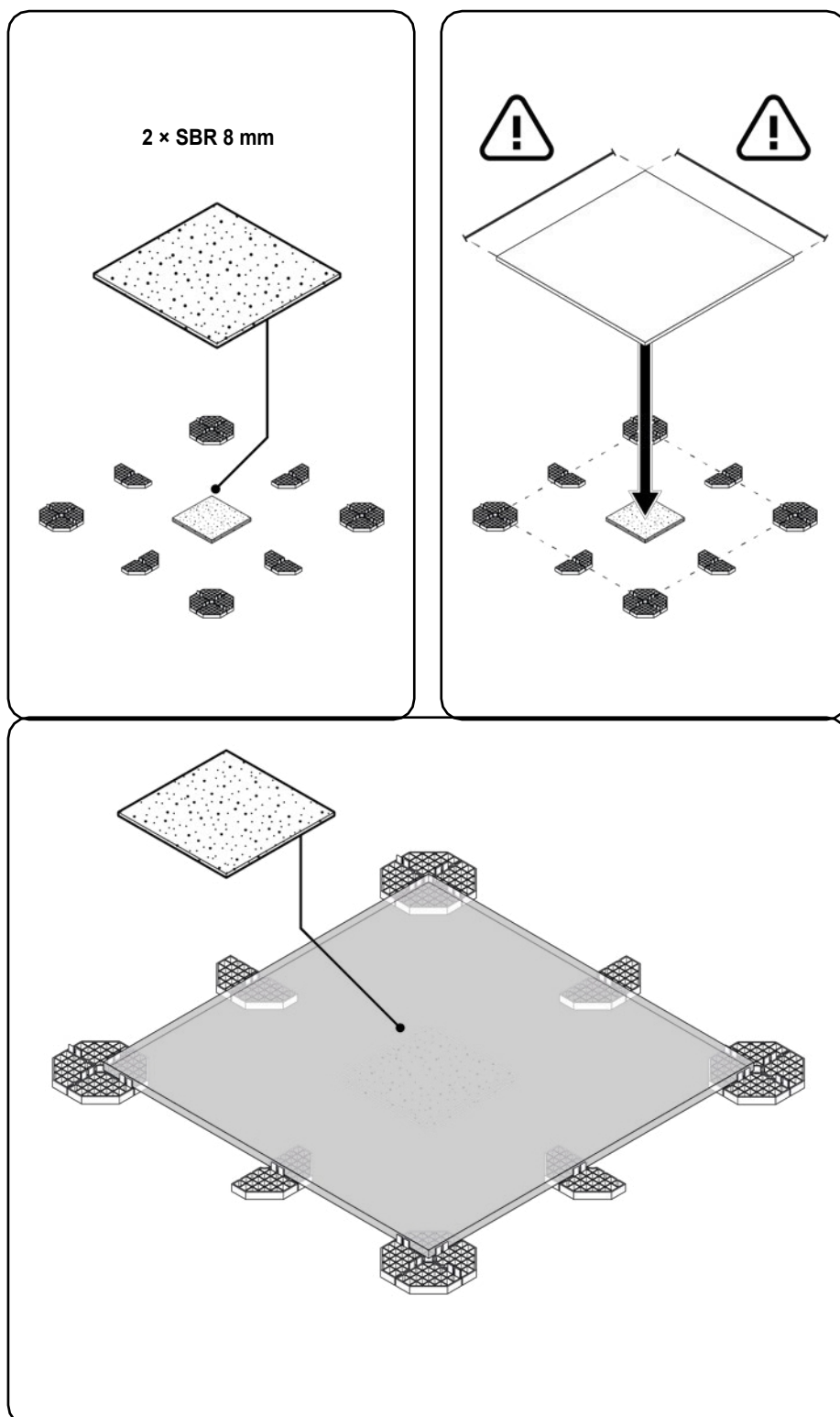
# 16 MM BASE

## PLATE INSTALLATION

### Large slabs

Large slabs may require additional support in the form of two 8-mm-thick rubber granule pads in the center of the slab and additional supports at the edges of the slab. The need for central support depends on the slab's strength.

Before beginning construction of the deck, it is important to create a layout plan for the support pads.



### NOTE

Before installation, check whether the manufacturer permits point support for the slabs and, if so, in how many places.

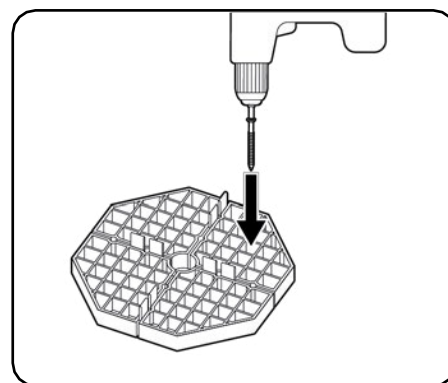
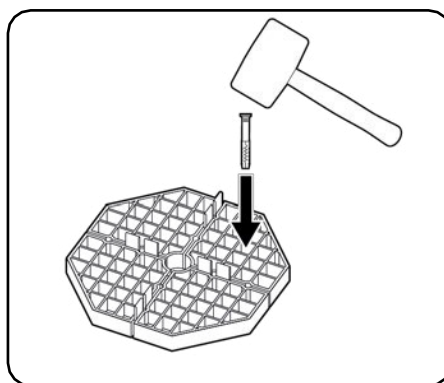
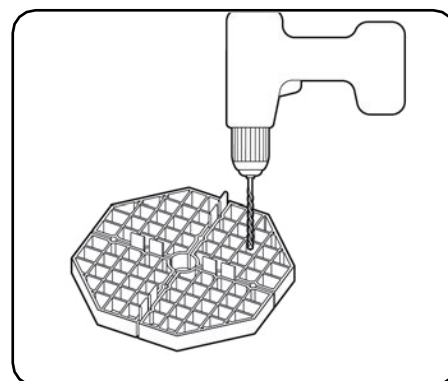
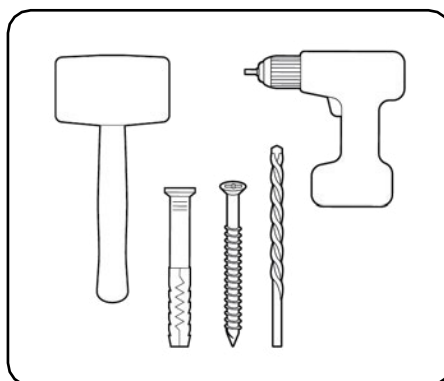
# 16 MM BASE

## FASTENING TO THE SUBSTRATE

### Securing the pedestal with screws

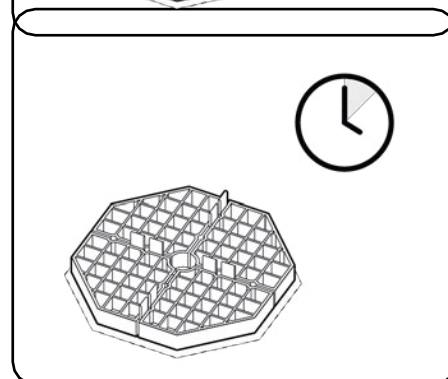
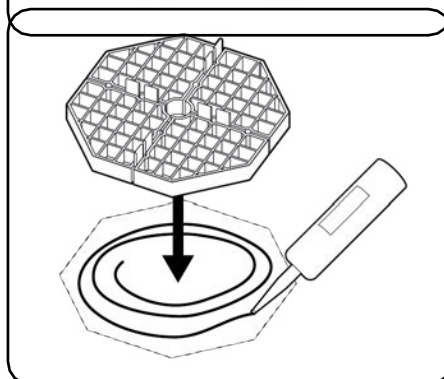
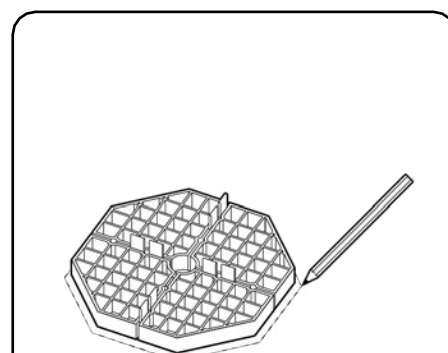
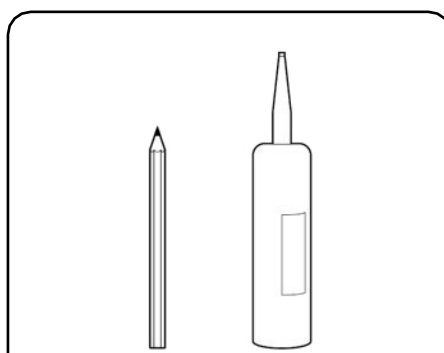
If there is a risk that the pedestals may shift, secure them to prevent movement. Fastening the pedestal with screws is the most reliable way to secure it in place. For the PAD-010 and PAD-015 pedestals, drill through both the pedestal and the substrate. Secure the pedestal with at least two screws.

**Caution—drilling into the surface may damage the insulation. Make sure you are allowed to drill into the surface. Make sure the stand you are securing is in the correct position!**



### Attaching the Bracket with Adhesive

If it is not possible to secure the bases with screws—for example, due to the type of substrate—secure them using a special-purpose adhesive (e.g., for concrete).



# USE OF PADS BASED ON THE SUBSTRATE

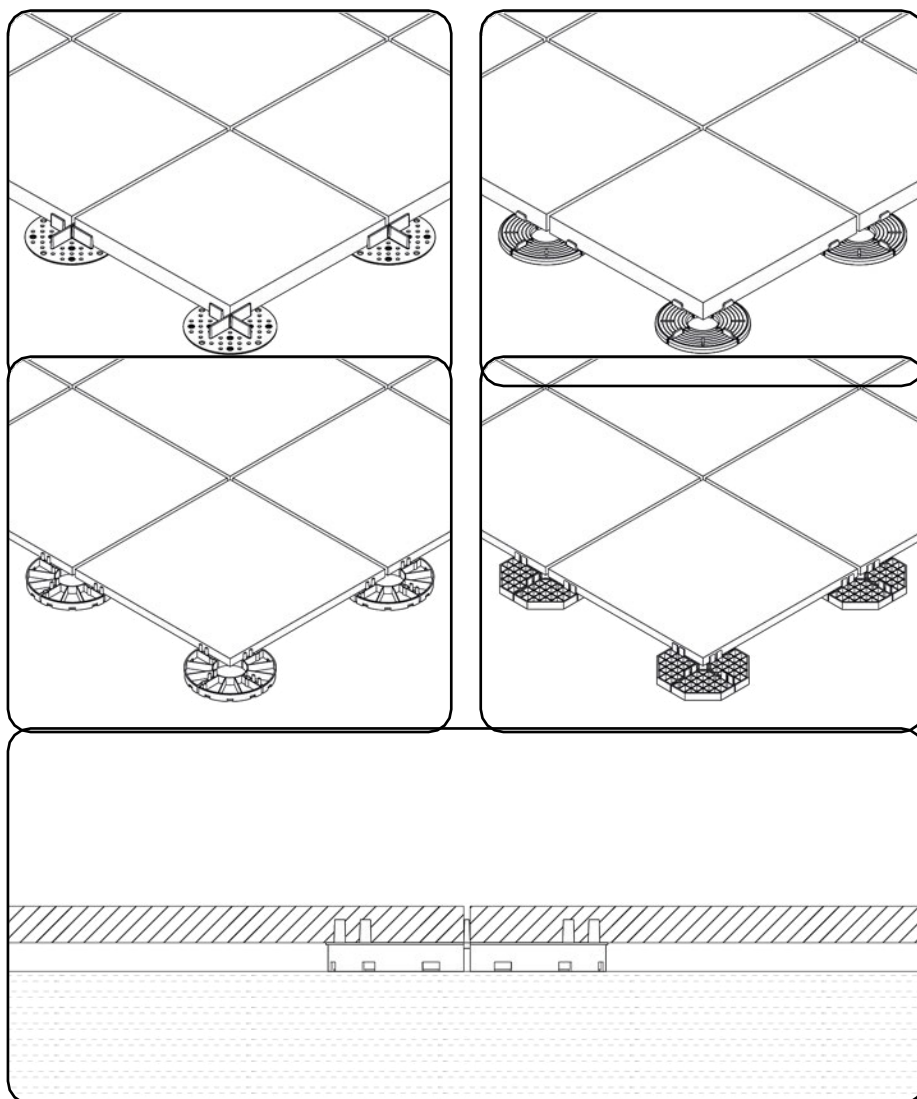
## HARD SURFACE WITHOUT SIGNIFICANT SLOPE

**Hard surface**—a hard surface is defined as a level and stable surface such as a concrete screed, concrete slabs, stone slabs, wood, and other surfaces characterized by high compressive strength.

**Substrate without significant slope<sup>1</sup>**

- "No significant slope" refers to a surface that is completely level or has a slight slope not exceeding approximately 1%.

A hard surface without a significant slope does not require the use of additional accessories for the brackets. The base plates are sufficient for proper installation.



### ▼ Additional options:

Optionally, a rubber granule pad can be used to provide additional sound insulation; this solution is worth considering when installing a deck or raised floor on a level below which there are living spaces. Using a rubber granule pad will also improve the deck's usability. This solution will help reduce unwanted noise while using the terrace, particularly the squeaking caused by loose particles of concrete and sand shifting beneath the supports.

<sup>1</sup> When assessing the slope, it is important to consider that a support placed on a sloped surface does not transmit compressive force axially, which results in a reduction in the structure's strength.

The cantilever's deviation from the vertical may result in a situation where the slab or joist does not rest on the entire surface of the cantilever, leaving a significant gap and failing to provide stable support for the slab or joist.

In each case, the slope must be assessed in accordance with best construction practices, also taking into account other project-specific conditions such as the planned gradients of the pavement being constructed, the uniformity of the gradient distribution across the subgrade surface, the stiffness of the materials used for the substructure and the construction techniques employed, as well as other conditions specific to the project.

# USE OF PADS BASED ON THE SUBSTRATE

## SENSITIVE SUBGRADE WITHOUT SIGNIFICANT SLOPE

**Sensitive Subgrade**—a “sensitive subgrade” is defined as:

- a) surfaces covered with any type of additional coating (most commonly waterproofing), such as roofing felt, a membrane, or liquid rubber, as well as any other coating that could be damaged by the pressure of the support legs,
- b) surfaces constructed using the inverted roof system, where the pedestals are placed directly or indirectly on insulation materials, such as XPS and similar materials.

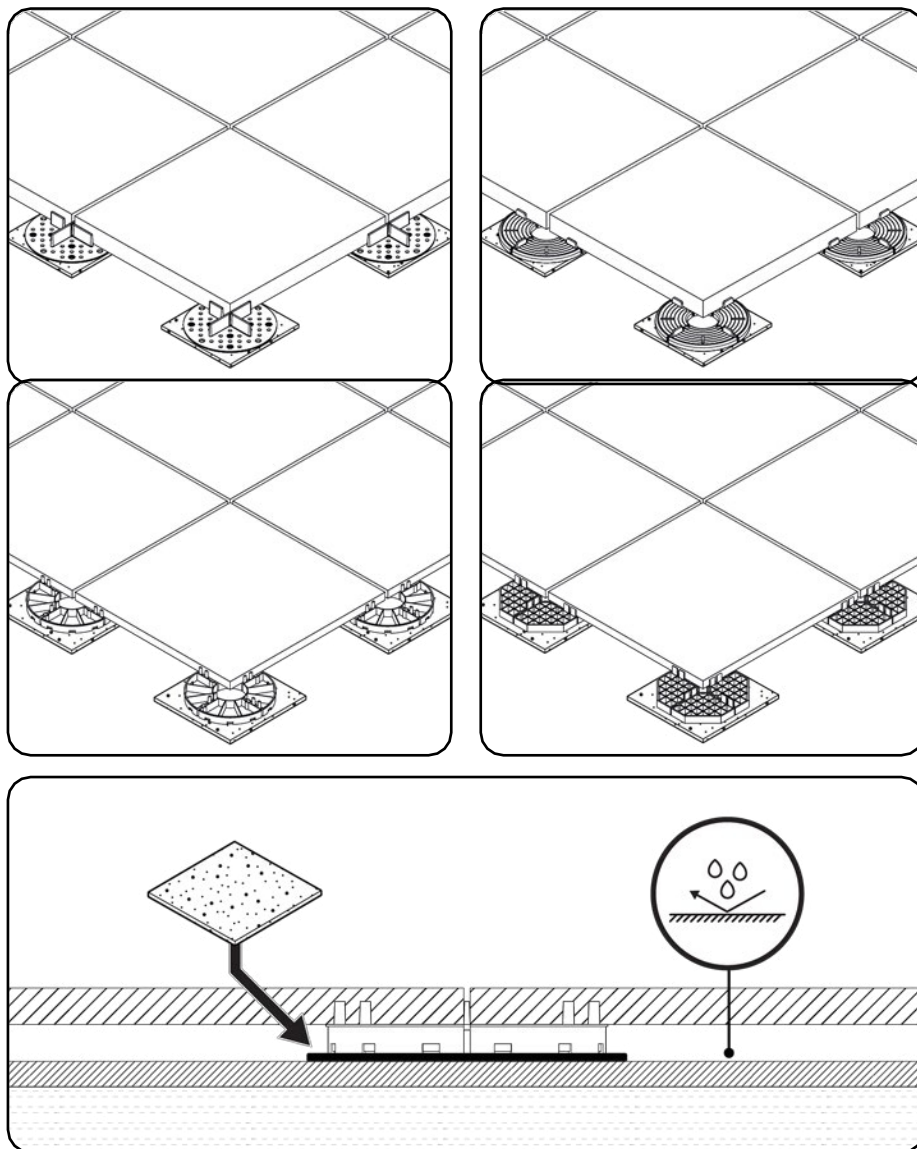
On sensitive substrates without a significant slope, it is necessary to use a rubber granule pad.

### **Substrate without significant slope<sup>2</sup>**

- “No significant slope” should be understood to mean a completely level surface or one with a slight slope not exceeding approximately 1%.

On a sensitive substrate without a significant slope, it is recommended to use a rubber granule pad to protect the surface from damage that the base's sides may cause over time. Failure to use a protective pad may also cause the base to sink into the sensitive surface.

The requirement to use rubber protective pads should be left to the discretion of the deck contractor, architect, or construction supervisor.



<sup>2</sup> When assessing the slope, it is important to consider that a support bracket placed on a sloped surface does not transfer compressive force axially, which results in a reduction in the structure's strength.

Any deviation of the support from the vertical may result in a situation where the slab or joist does not make full contact with the entire surface of the support, leaving a significant gap and failing to provide stable support for the slab or joist.

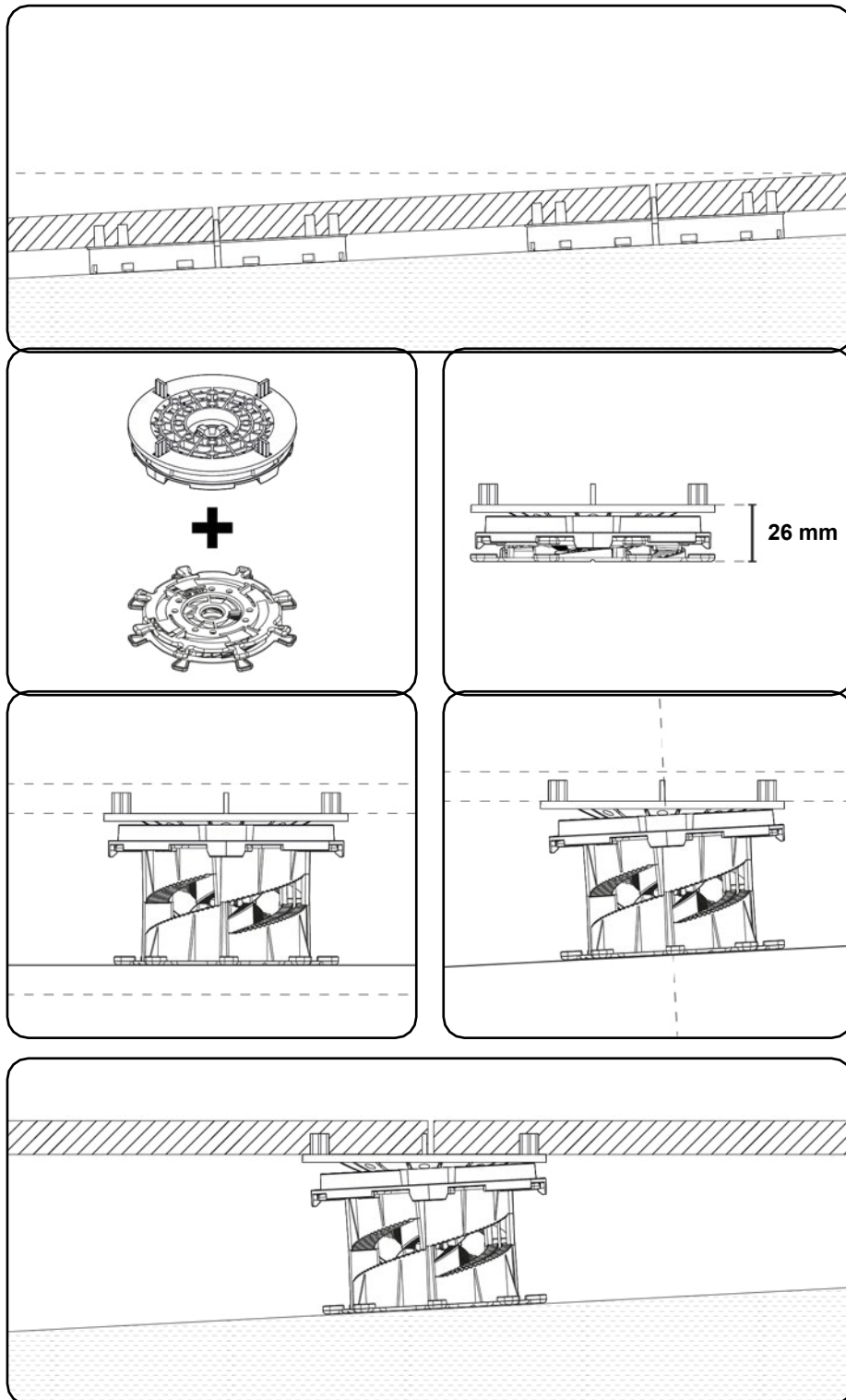
In each case, the slope must be assessed in accordance with best construction practices, also taking into account other project-specific conditions such as the planned gradients of the pavement being constructed, the uniformity of the gradient distribution across the subgrade surface, the stiffness of the materials used for the substructure and the construction techniques employed, as well as other conditions specific to the project.

# USE OF PADS BASED ON THE SUBSTRATE

## SUBGRADE WITH A SIGNIFICANT GRADIENT OR ENVELOPE-SHAPED GRADIENTS

**Subgrade with a significant slope or envelope-shaped slopes**—a subgrade with a significant slope is defined as a surface gradient exceeding 1% or featuring irregular slopes. A terrace on pedestals installed on a subgrade with a significant slope will follow the slope of the subgrade.

To construct a level terrace, use adjustable supports from the SPIRAL series with a self-leveling head (slope reduction up to 6%), which compensate for surface slopes of up to 14% (i.e., a level difference of up to 14 cm per running meter). The lowest support in the SPIRAL series, together with the self-leveling head, allows for a terrace height starting at 26 mm.

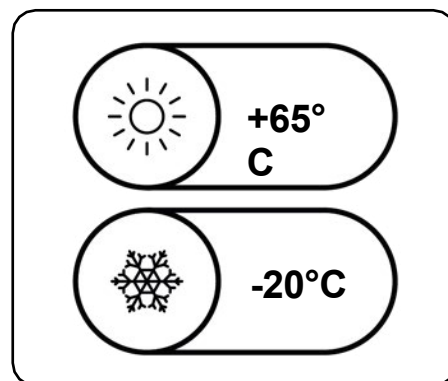
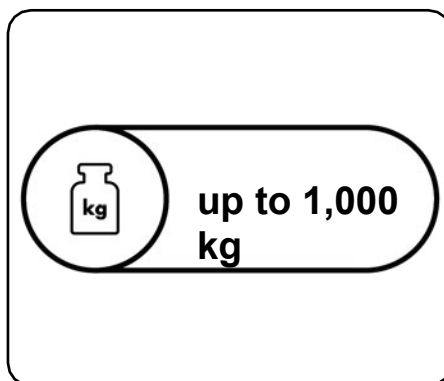


# IMPORTANT INFORMATION

## LOAD-BEARING CAPACITY OF THE SUPPORTS

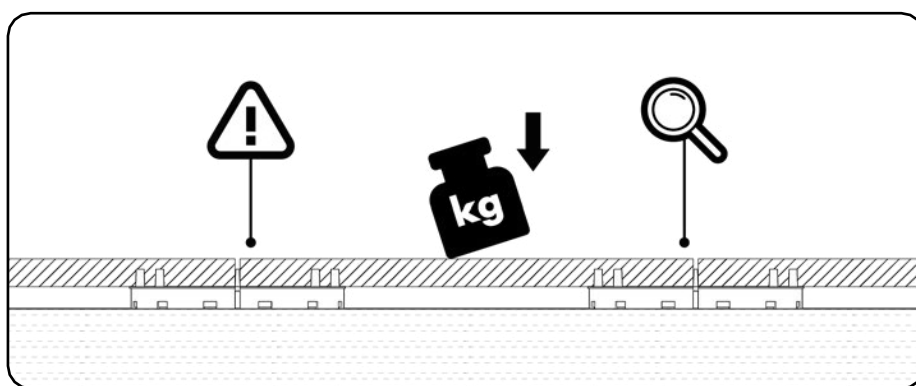
### Load and Temperature

Detailed information regarding the permissible loads and temperature resistance of the stands can be found in the detailed technical specifications—please contact your supplier.



### Temporary Overload

In the event of a temporary overload of the stands, inspect the stands' technical condition.

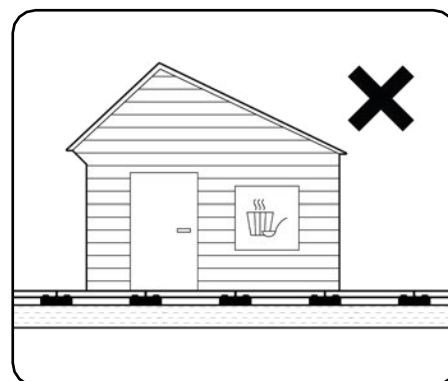
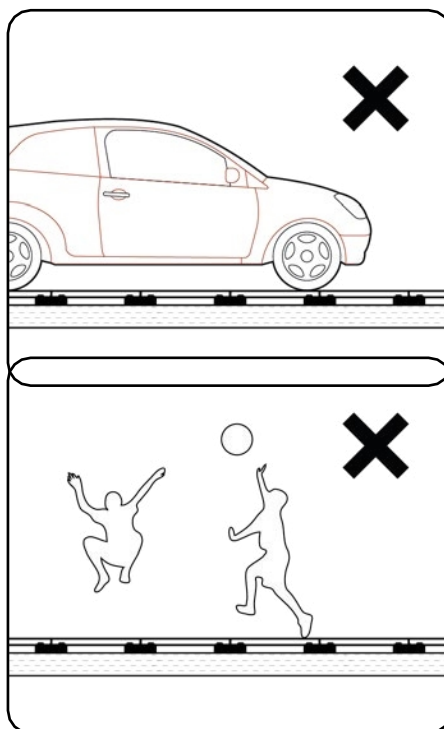


### Usage restrictions

Motor vehicles that could cause unpredictable dynamic loads must not be driven onto the terrace.

Do not place heavy objects whose weight exceeds the allowable load. If it is necessary to place a heavy object, such as a jacuzzi tub, strength calculations must be performed.

Activities that may cause dynamic loads exceeding the allowable loads are prohibited.

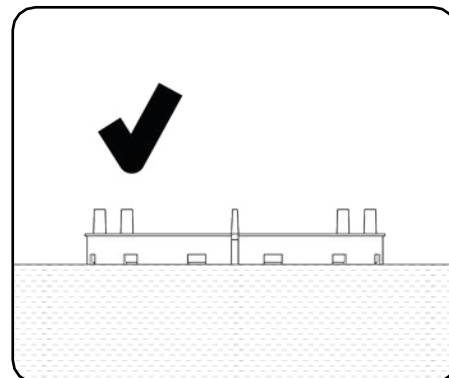
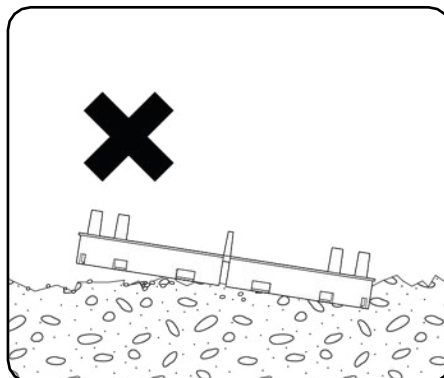


# IMPORTANT INFORMATION

## SUBSTRATE GENERAL INFORMATION

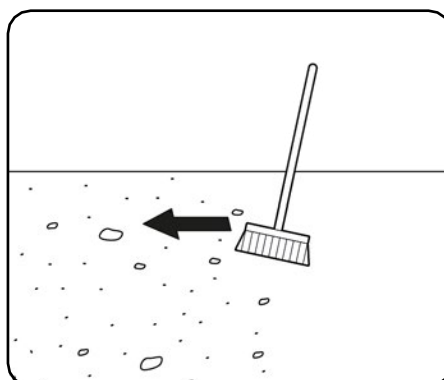
### Level Substrate

The surface on which the supports are placed should be stable and level.



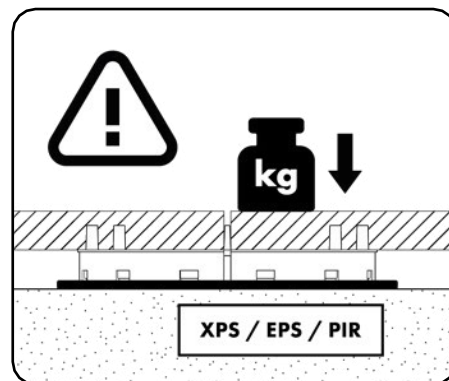
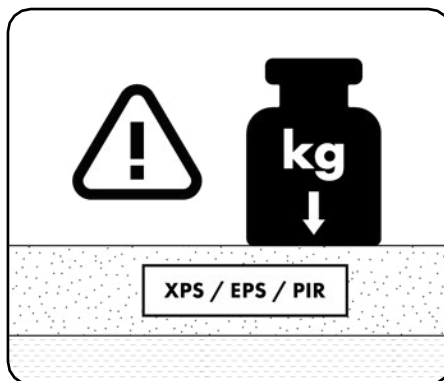
### Clean Surface

Before beginning to position the supports, clear the ground of stones, sand, and other debris.



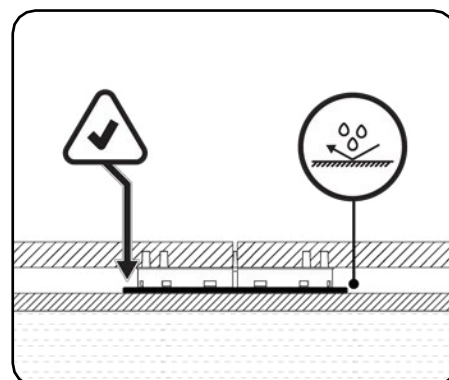
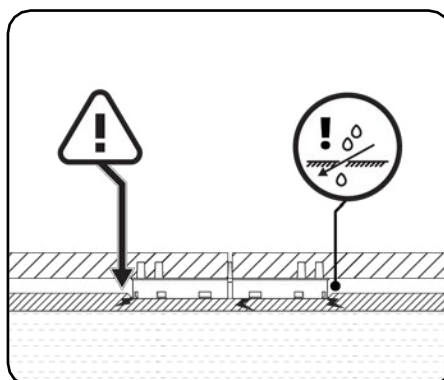
### Type of Surface

The supports are often used on roofs on insulation panels made of hard Styrodur. Be sure to check the strength of the surface and the allowable load capacity of the area where the brackets are placed. Based on the hardness of the surface, calculate whether the planned load will cause indentations.



### Protecting the Waterproofing

If there is a risk of damage to the waterproofing, it is recommended to use rubber granule pads.

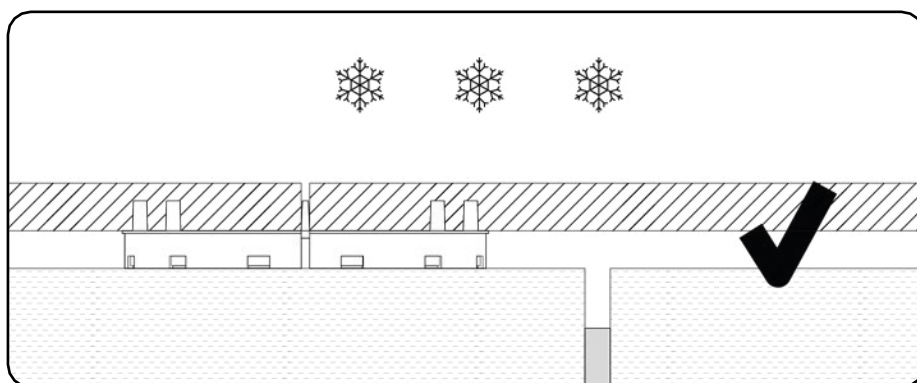
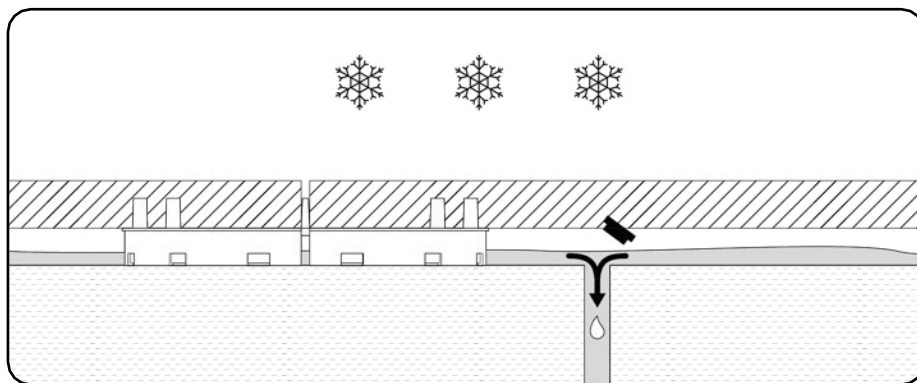
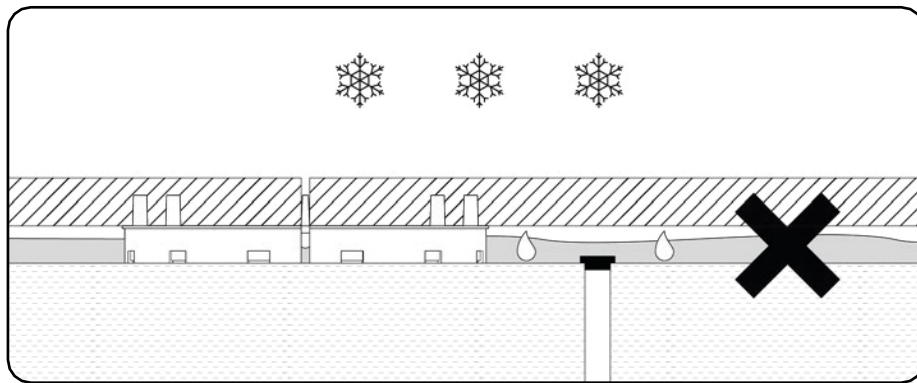


# IMPORTANT INFORMATION

## SUPPORTS IN THE WATER

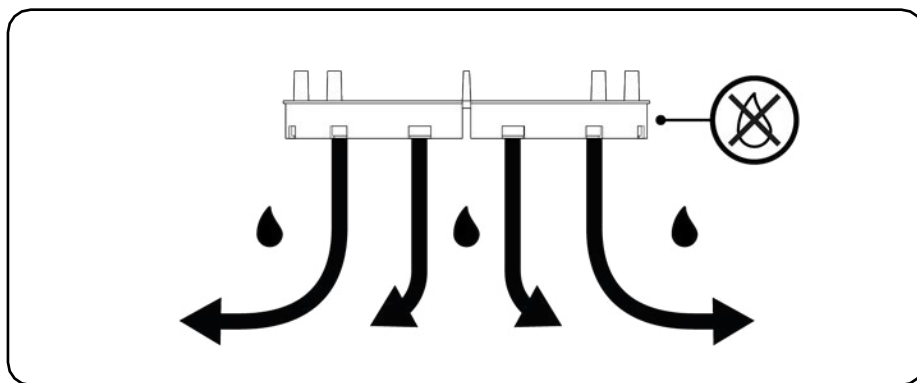
### Stands in Water

If the stands are submerged in water (e.g., in a fountain), the water must be drained before the first frost.



### Water in the base

The stands are equipped with a drainage system. There is no need to drill additional holes to drain water from the reservoir during the winter.

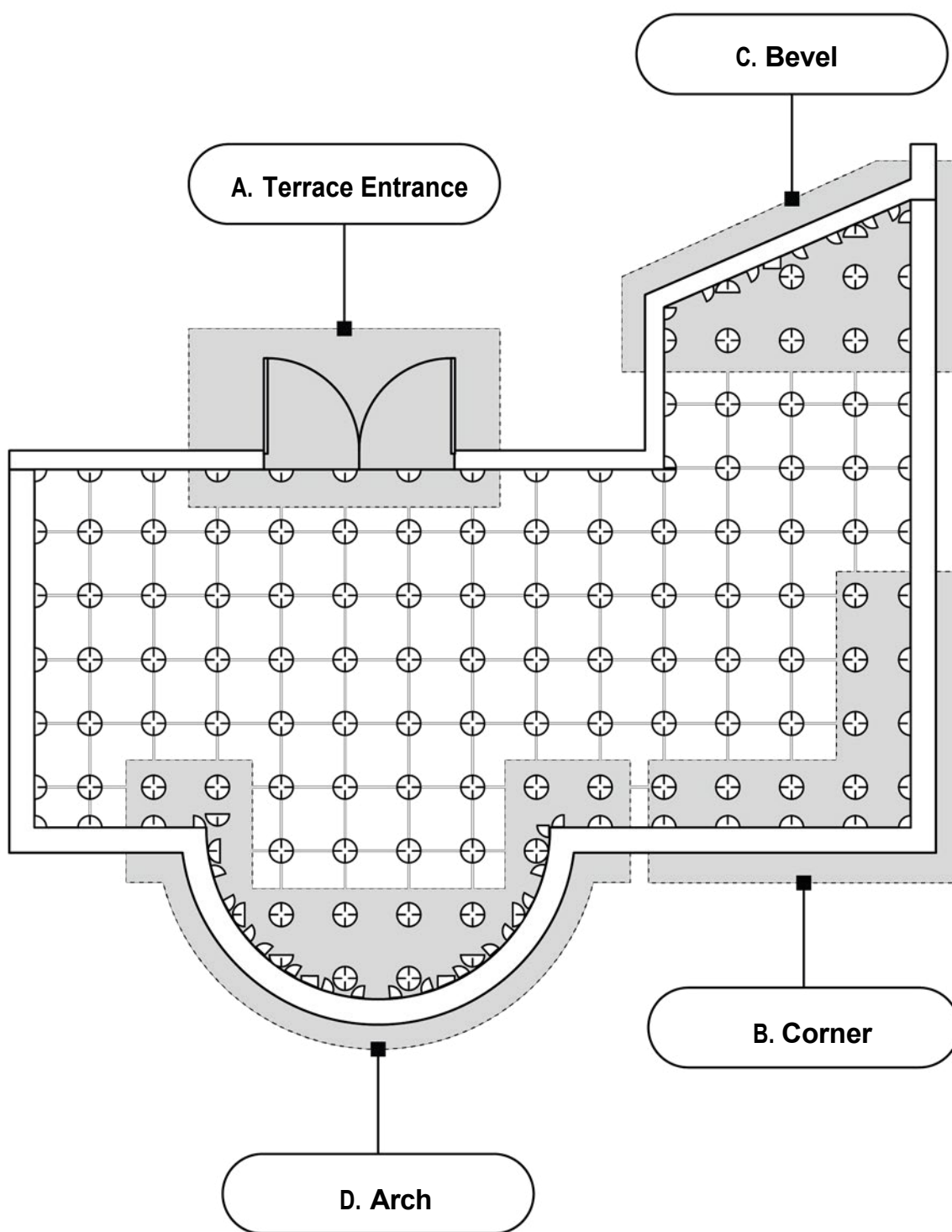


# PROPER PLACEMENT OF COASTERS

## PLAN

### ▼ Planning the Installation

The first step is to carefully measure the patio to avoid having to cut the slabs awkwardly along the edges. Draw up a layout plan for the pedestals, taking into account the dimensions of the patio slabs. A string line is helpful for drawing straight lines.

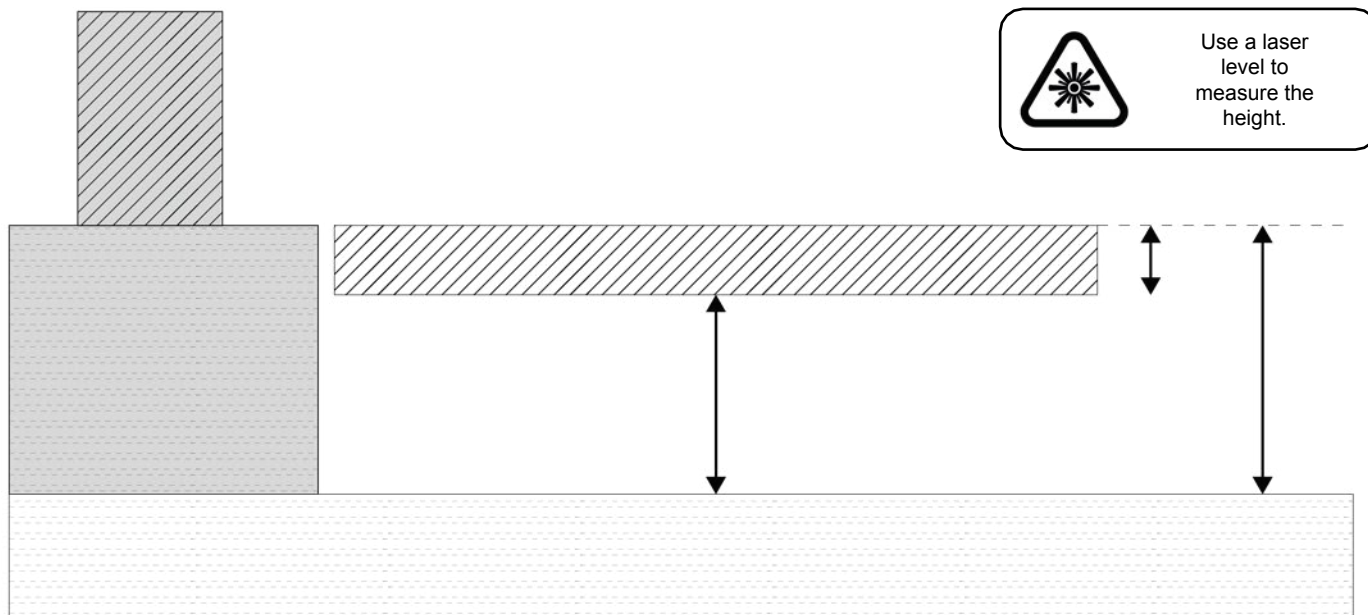


# PROPER PLACEMENT OF COASTERS

## HEIGHTS

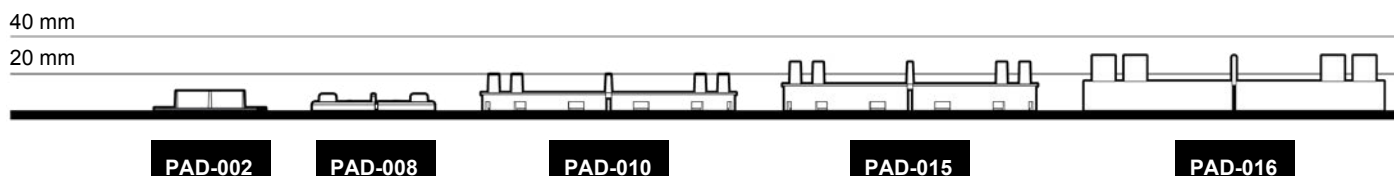
### ▼ Determining the working height of the deck

Properly determining the terrace's geometry is very important and determines how it will be constructed later. Accurately determine the required heights of the SOLVER pedestals needed for installing the terrace, taking into account the thickness of the terrace tiles. A laser level is useful for accurately measuring the height.



### ▼ Height Ranges

When planning your deck installation, keep in mind that pedestal heights range from 2 mm to 16 mm. If you need greater heights, use adjustable supports from the SPIRAL, STANDARD, and MAX series.



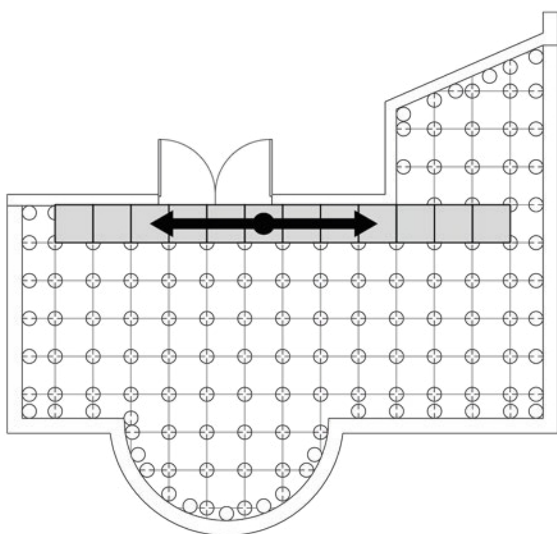
# PROPER PLACEMENT OF COASTERS

## STARTING THE LAYING PROCESS

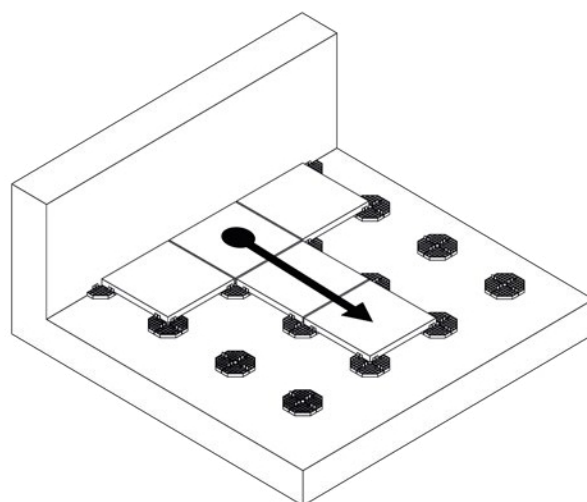
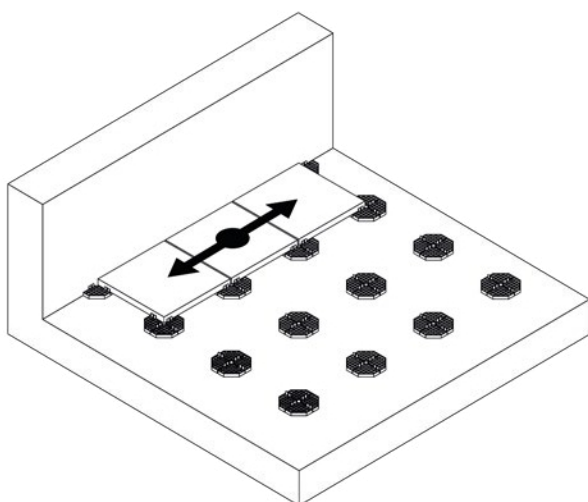
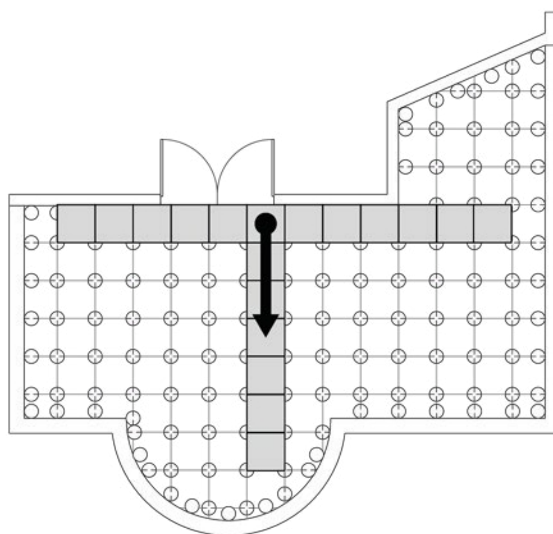
### ▼ Determining the Starting Point

Lay out the first row of slabs according to the design. Start by laying only full-size slabs. Next, lay out a perpendicular row of slabs; this row should be roughly in the center of the deck. Continue laying slabs to cover the entire deck surface up to the edge boundaries. Measure the deck carefully to avoid having to make small, awkward cuts along the deck's edges.

1



2

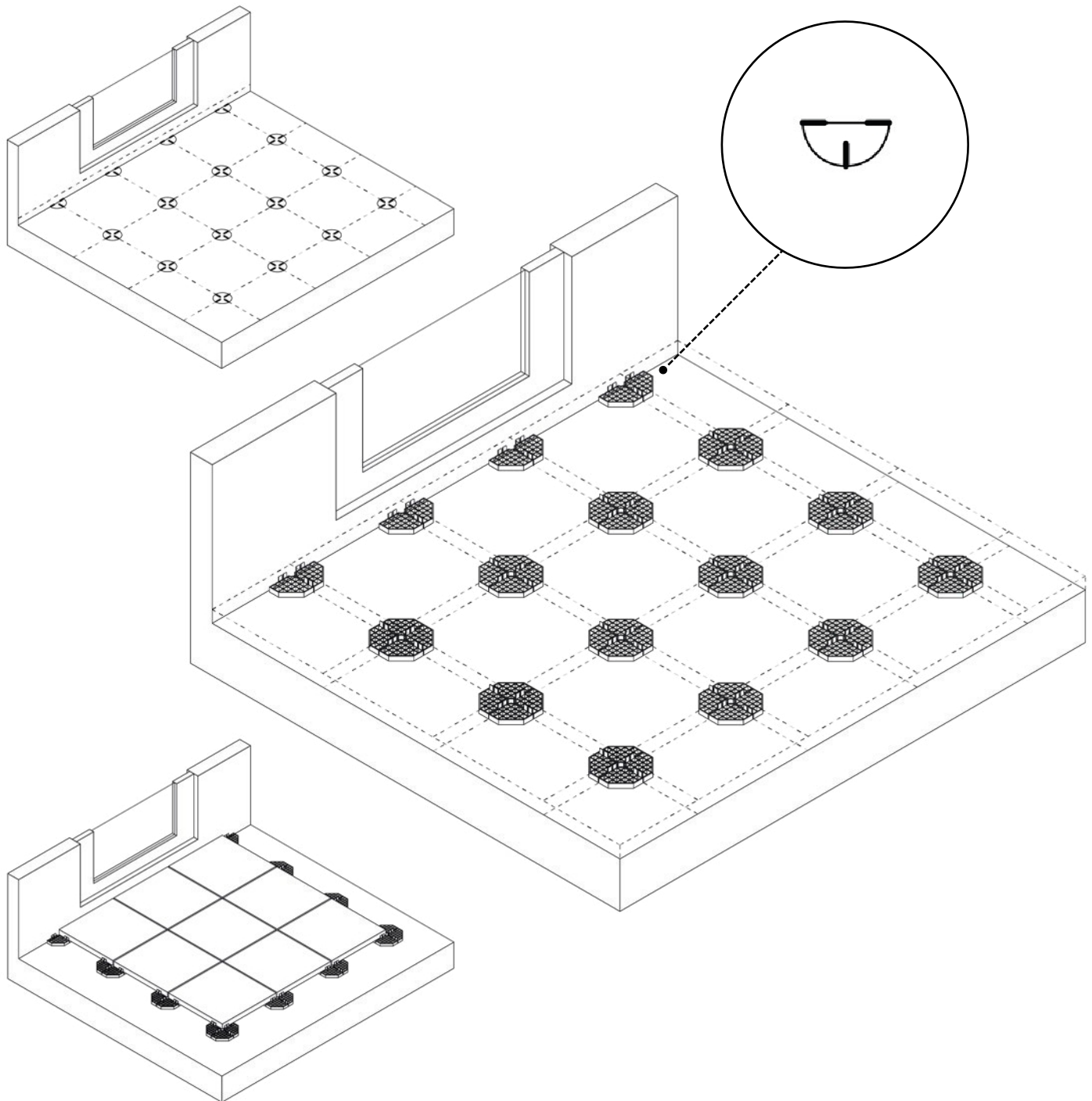


# PROPER PLACEMENT OF COASTERS

## A. TERRACE ENTRANCE

### ▼ Determining the Terrace Height

The terrace entrance is usually the point of reference for determining the height of a ventilated terrace. A height properly adjusted relative to the threshold will allow for comfortable transition from the interior to the outdoors. It is recommended that the height difference between the terrace surface and the balcony door threshold not exceed that of a (comfortable) stair step.

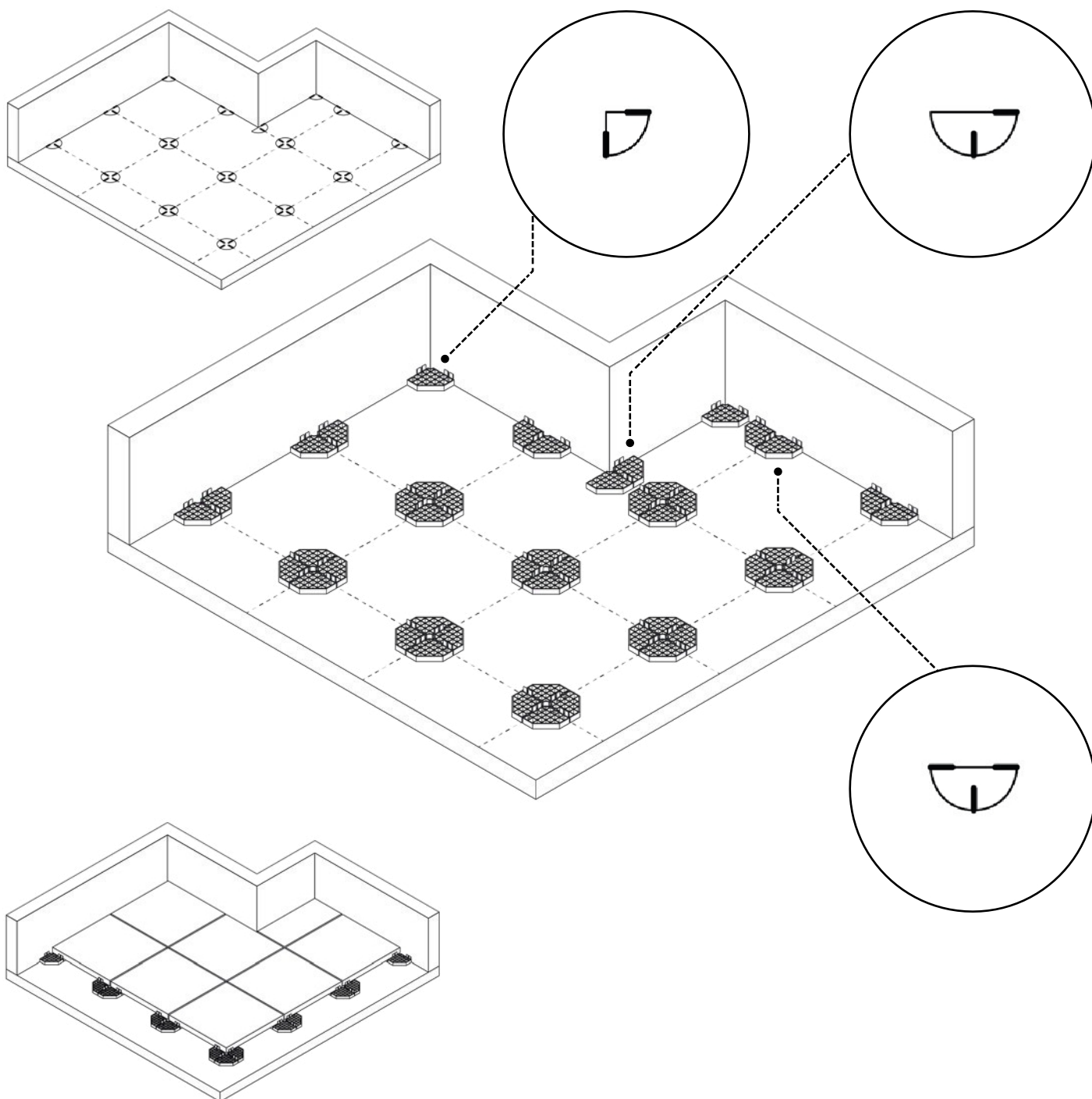


# PROPER PLACEMENT OF COASTERS

## B. CORNERS

### ▼ Corner Supports

A terrace corner requires the use of a quarter support (in the case of PAD-002, two halves with one spacer clip). Follow the rule that each panel should always be supported at a minimum of four points.

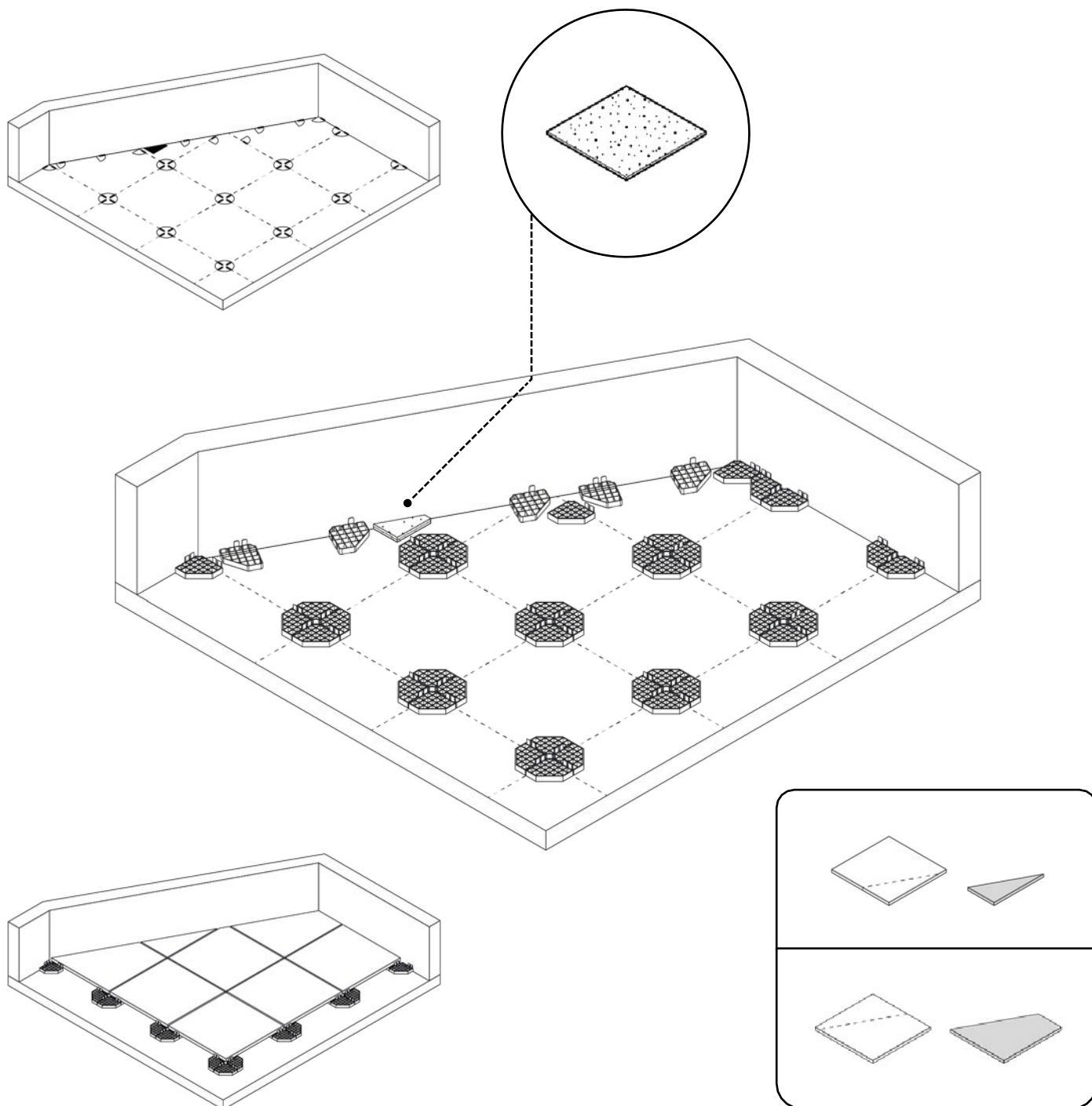


# PROPER PLACEMENT OF COASTERS

## C. BEAM

### ▼ Support Density

Diagonal lines require cutting deck boards into trapezoids or triangles. This requires a non-standard arrangement of pedestals and proper fitting of the boards. The sizes of the boards after cutting should be planned at the very beginning of the deck installation. Try to avoid small slab pieces. Triangular slabs should be supported at at least three points.

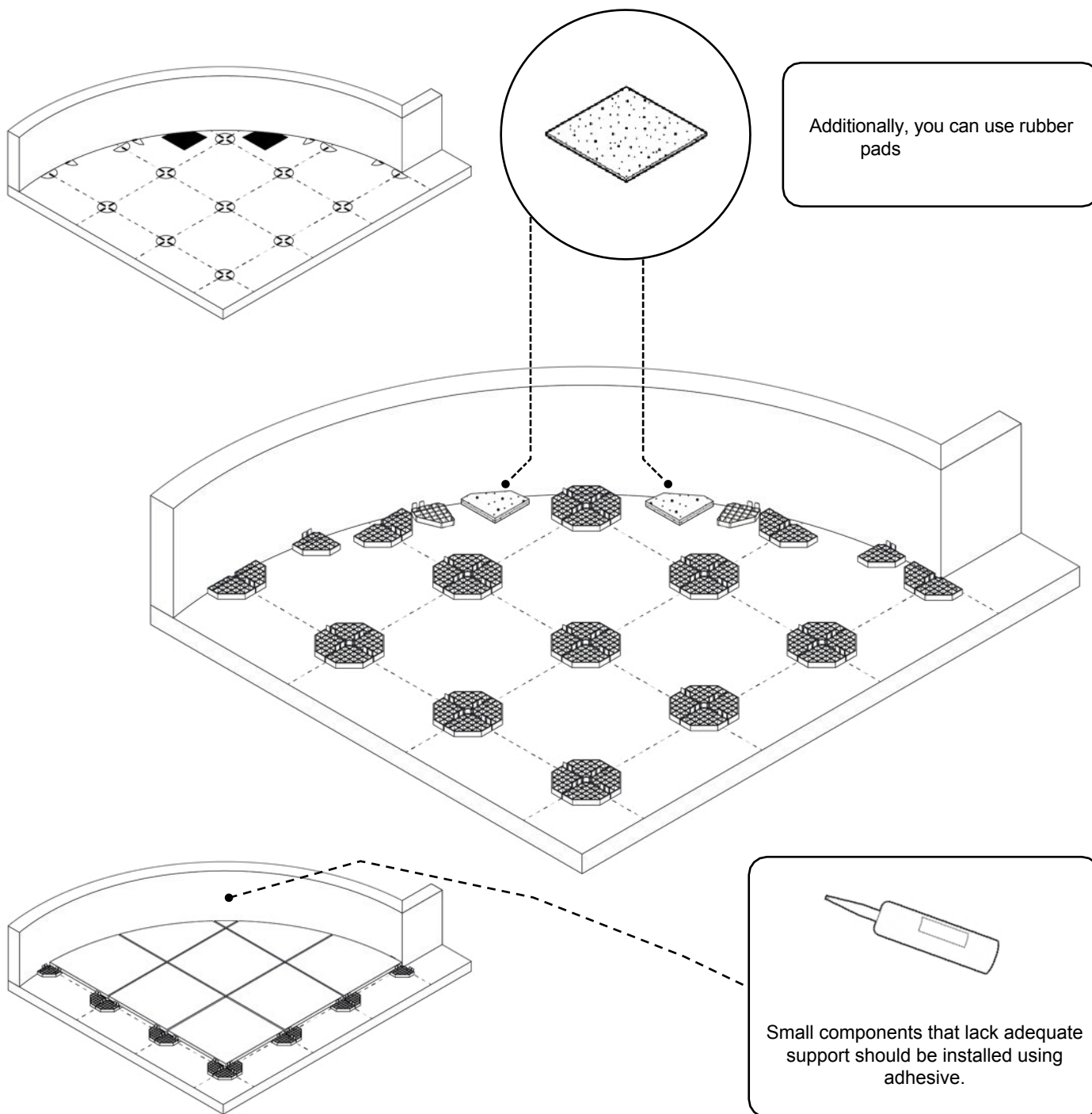


# PROPER PLACEMENT OF COASTERS

## D. ARC

### ▼ Complex terrace geometry—rubber granule pads

Every deck has its own unique geometry. Terraces often feature curved parapet walls. In such cases, the placement of SOLVER pedestals and the cutting of the slabs will require greater precision and a higher density of SOLVER pedestals. Cutting the slabs to fit the curve should be planned at the very beginning of the terrace installation process. Use as many pedestals as necessary to ensure the slab lies securely.



# WARRANTY

Under the Warranty, SOLVER Sp. z o.o. guarantees the Buyer that the product is of good quality and complies with the technical specifications, and for which a Warranty Card has been issued. The warranty for SOLVER ADJUSTABLE DECK SUPPORTS (hereinafter referred to as "SOLVER" or "Product") is granted pursuant to Article 577 of the Civil Code, under the terms and conditions described below. The warranty is valid only with proof of purchase. The warranty terms and conditions in effect as of the date the Product was delivered to the Buyer apply.

## 1. DEFINITIONS

- a. Guarantor – SOLVER Sp. z o.o., entered in the Register of Entrepreneurs at the District Court for Gdańsk-Północ in Gdańsk, 7th Commercial Division of the National Court Register, under KRS number 0000241286, REGON 191118644, NIP 584-11-83-361, (hereinafter referred to as "SOLVER" or "Guarantor").
- b. Warranty Card—a document issued by the Guarantor together with the Goods, confirming that SOLVER-SYSTEMS has provided a warranty for those Goods. The Warranty Card constitutes an integral part of the SOLVER-SYSTEMS Product Warranty.
- c. Warranty—these terms and conditions of SOLVER-SYSTEMS' warranty liability for the Goods, constituting an integral part of the Warranty Card.
- d. SOLVER Warranty Beneficiary – the Buyer who purchased SOLVER Goods for which a VAT invoice was issued and a Warranty was provided (hereinafter: "Buyer").
- e. Product Covered by the Warranty—the SOLVER product specified in detail in Section 2 of the Warranty, subject to the terms of this Warranty.
- f. Proof of Purchase: a VAT invoice confirming the Buyer's purchase of the SOLVER Product.
- g. Date of purchase: the date on which SOLVER-SYSTEMS issued the proof of purchase.

## 2. PRODUCT COVERED BY THE WARRANTY

The product covered by this Warranty is the SOLVER ADJUSTABLE DECK SUPPORTS, for which the Buyer has received a Warranty Card and for which the Buyer has made full, 100% payment.

## 3. SCOPE OF THE WARRANTY

- a. The Guarantor provides the Warranty for the Goods as specified in Section 2 of the Warranty, as listed on the VAT invoice serving as proof of sale to the Buyer.
- b. The warranty for the Goods will be provided by SOLVER-SYSTEMS provided that full payment has been made for the VAT invoice issued for the Goods.
- c. The warranty is valid only with proof of purchase in the form of a VAT invoice.
- d. The warranty period begins upon delivery of the Goods to the Buyer.
- e. The Guarantor guarantees that SOLVER products purchased by the Buyer, installed (if their installation was not performed by the Guarantor), and used in accordance with good building practices, the user and installation instructions, the technical specifications, and the declaration of performance, will retain their functional properties, as described in the product's Technical Specifications and in the Declaration of Performance, during the warranty period.
- f. The quality warranty covers only defects in the Goods arising from causes existing in them at the time of delivery, which have not been expressly excluded in the text of the Warranty or in any other document issued by SOLVER Sp. z o.o.
- g. Finished products must be stored and transported in accordance with the Guarantor's Instructions, in a manner that ensures their technical and physical properties remain unchanged.
- h. The warranty does not cover:
  - any mechanical damage to the Goods caused by the Buyer, - defects in the Goods arising from causes beyond DECK-DRY's control,
  - defects arising from improper transportation or storage by the Buyer or third parties (if transportation or storage was not performed by the Guarantor),
  - defects resulting from the installation or use of the Goods contrary to their intended purpose and the conditions set forth in the Detailed Technical Specification, User Manual, and in accordance with good building practices and/or applicable standards,
  - defects resulting from improper preparation of the substrate and the installation process of the Goods (if not performed by the Guarantor),
  - defects resulting from structural defects in the building in which the Goods were installed,
  - defects resulting from the structural design of the building, causing deformations, loads, or damage to the Product that exceed its parameters specified in the Technical Specification,
  - defects arising after delivery of the Goods as a result of actions by the Buyer or third parties (if installation, transport, or storage were not performed by the Guarantor),
  - defects resulting from mechanical, chemical, or thermal damage to the Goods,
  - defects resulting from natural disasters or other force majeure events,
  - changes resulting from natural wear and tear due to normal use of the Goods, causing deformation, cracks, discoloration, and static electricity.
- i. Apart from the rights arising from the Warranty, SOLVER-SYSTEMS assumes no other liability for defects in the Goods.

## 4. WARRANTY PERIOD

- a. Unless otherwise specified in the sales document, the Warranty Period is set forth in the Warranty Card issued to the Buyer by SOLVER-SYSTEMS along with the Goods.
- b. The Warranty Period begins on the date of purchase as indicated on the proof of purchase and ends at the close of the last day of the Warranty Period specified in the Warranty Card.

## 5. EXERCISING WARRANTY RIGHTS

# WARRANTY

- a. The Buyer's rights under the Warranty may be exercised only upon presentation to SOLVER-SYSTEMS of the Warranty Card, signed and stamped by SOLVER-SYSTEMS, along with the VAT purchase invoice. The absence of any of the documents described above prevents the Buyer from filing a valid warranty claim.
- b. THE WARRANTY does not relieve SOLVER-SYSTEMS of liability for the proper quality of the products, nor does it relieve contractors of liability for their proper application

## 6. COMPLAINT PROCEDURE

- a. A valid complaint may only be filed by the Buyer or their representative (Distributor), who must submit, along with the complaint, a detailed description of: the defect, the type of Product, the date of purchase, the date of installation, and the date the defect was discovered, as well as photographs of the defect, its extent, the Warranty Card signed by SOLVER-SYSTEMS, and proof of purchase of the Product.
- b. The complaint form must be sent to [tosales@solver-systems.com](mailto:tosales@solver-systems.com), the Guarantor's registered office, in writing or via email to the address provided below, along with the attached documents referred to in Section 6.a. of the Warranty.
- c. It is essential to verify the condition of the goods upon receipt.
- d. The complaint must be sent to the mailing address of **SOLVER Sp. z o.o., ul. Wenus 73a, 80-299 Gdańsk, POLAND**, immediately upon discovering a defect in the Goods; here, "immediately" means, for defects that would be visible to the "naked eye" at the time of the Buyer's receipt of the Goods, a period of - 3 business days, and for defects that became apparent in the Goods after the date of their receipt—7 business days.
- e. The Buyer filing a complaint is required to send the Goods subject to the complaint to the Guarantor or to allow SOLVER-SYSTEMS to inspect the Goods (depending on the Guarantor's decision in this matter) at the location where they are installed or stored, or to conduct a technical examination of the Goods and collect the necessary number of samples for testing, which will allow SOLVER-SYSTEMS to verify the validity of the Buyer's complaint.
- f. If the Buyer submits a complaint in the proper manner and SOLVER-SYSTEMS confirms the existence of a defect covered by the Warranty, SOLVER-SYSTEMS undertakes to deliver Goods free from defects.
- g. The Buyer will be notified of the delivery date for the defect-free Goods in writing, by email, or by phone.
- h. If it is not possible to deliver the Goods covered by the Warranty, the Warrantor reserves the right to deliver a replacement with specifications that are as close as possible (and no worse) to those of the original Goods.
- i. SOLVER-SYSTEMS will inform the Buyer of its decision regarding the validity of the complaint within 21 days of the date on which the Buyer properly submitted the complaint. Any delivery of the Goods will be made by SOLVER-SYSTEMS without undue delay, on the date of which the Buyer will be informed.
- j. SOLVER-SYSTEMS reserves the right to extend the delivery date of the Goods by the period during which SOLVER-SYSTEMS, for reasons beyond its control, is unable to address the Buyer's warranty claims.
- k. In the event of an unjustified complaint, the Buyer is obligated to reimburse SOLVER-SYSTEMS for the costs of inspecting the Goods subject to the complaint, in particular: the travel expenses of SOLVER-SYSTEMS Representatives to the location where the inspection of the Goods subject to the complaint took place (including the costs of travel, lodging, and meals for these Representatives of the Guarantor), the costs of inspecting and testing samples of the Goods subject to the complaint, the costs of conducting a technical expert assessment, the costs of correspondence, and any costs associated with the transportation of the Goods.

## 7. STORAGE AND TRANSPORT OF MATERIAL

- a. Purchased Goods must be stored under appropriate conditions to prevent their destruction and/or damage.
- b. Goods are delivered in individual or bulk packaging designed to protect them from mechanical damage / deformation, etc.

## 8. FINAL PROVISIONS

- a. This warranty is provided in accordance with Polish law; in matters not covered by this warranty, the provisions of the Polish Civil Code shall apply in particular.



[www.solver-systems.com](http://www.solver-systems.com)  
[sales@solver-systems.com](mailto:sales@solver-systems.com)

# SOLVER.