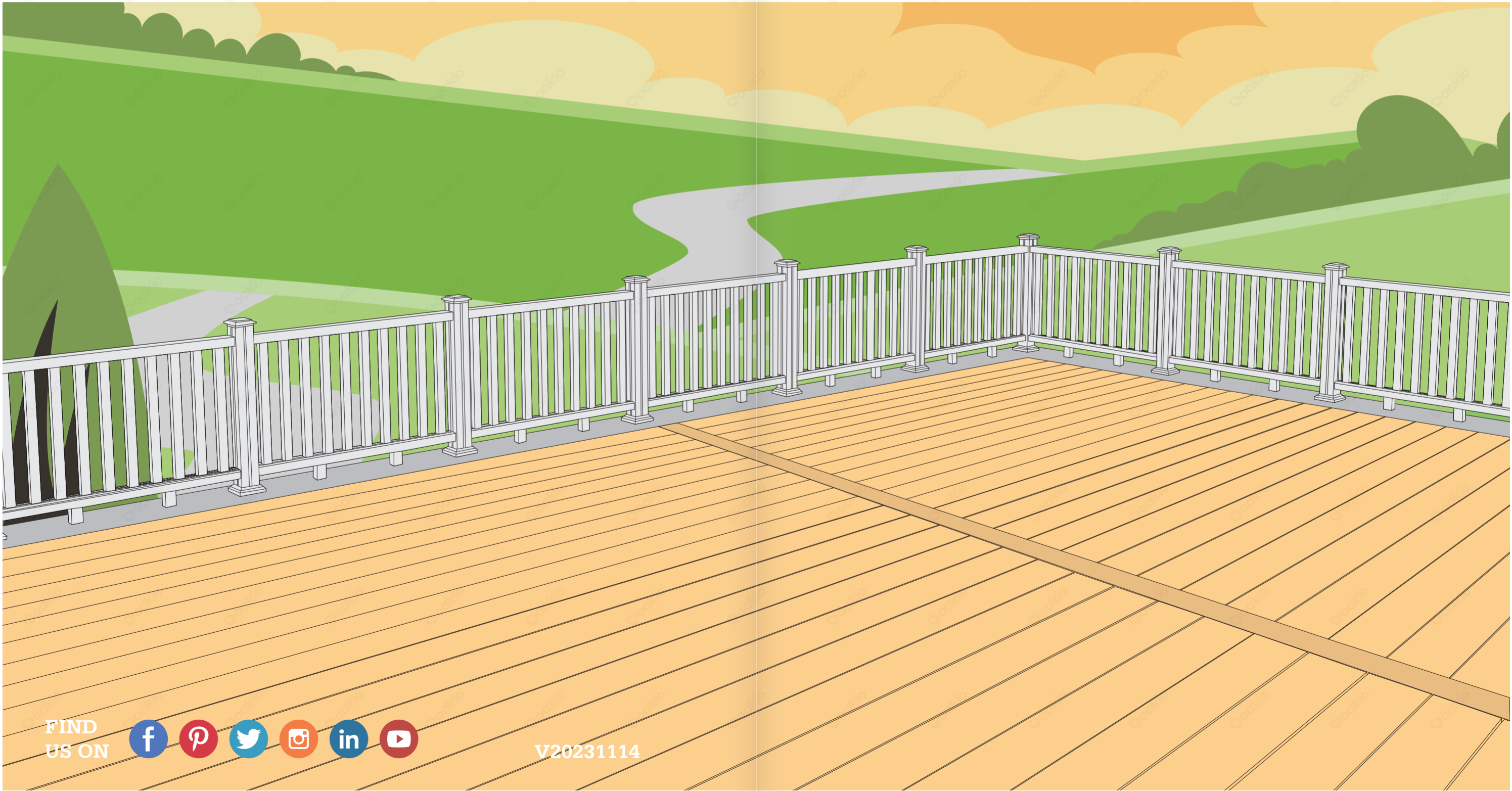


WPC Decking

installation guide



Read All Sections Before You Install

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These installation guidelines will direct you through the process of installing Oakio products. Most installers will find this process similar to the installation of a wood deck. However, there may be areas that differ from what you are used to.

These installation methods are recommended by Oakio, but they may not cover every installation scenario you may encounter. Since each installation is unique in its performance requirements, the ultimate installation method used is the sole responsibility of the installer. Oakio recommends that all designs be reviewed by a licensed architect, engineer or local building official before installation. Make sure your plans meet local building codes before you begin the installation.

Extreme Heat Warning

Be aware of excessive heat on the surface of Oakio products from external sources such as but not limited to fire or reflection of sunlight from energy efficient window products. Low-impassivity (Low-E) glass can potentially harm Oakio products. Low-E glass is designed to prevent passive heat gain within a structure and can cause unusual heat build-up on exterior surfaces. This extreme elevation of surface temperatures, which exceeds that of normal exposure, can possibly cause Oakio products to melt, sag, warp, discolor, increase expansion/contraction, and accelerate weathering. Current or potential Oakio customers that have concerns about possible damage by Low-E glass should contact the manufacturer of the product which contains Low-E glass for a solution to reduce or eliminate the effects of reflected sunlight.

Environment

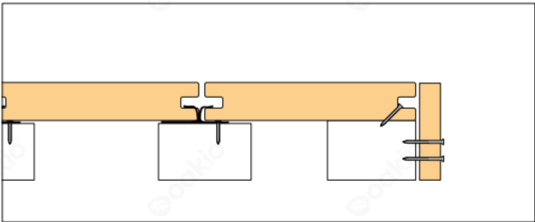
You need a clean, smooth, flat and strong surface to install Oakio products. It is important during construction, the deck's surface stay clear from excessive build-up of dirt, sand, and dust from tile, concrete, landscape blocks, or any other masonry products. If these materials are not removed immediately, the deck surface will become difficult to clean and foot traffic can potentially damage the deck's surface finish.

Expansion and Contraction

Oakio decking planks will experience expansion and contraction with changes in temperature. Expansion and contraction are most significant where extreme temperature changes occur. Changes in length are most significant during the installation process, and should be taken into account if working in extreme temperatures. A good example would be cutting your planks during a hot afternoon, letting them sit outside overnight in the cool air and then installing them the next morning, and you will notice a certain amount of contraction. The best way to minimize this problem is to fasten your planks after cutting as soon as possible.

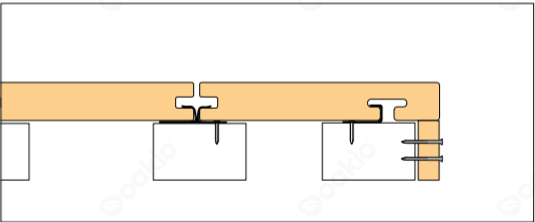
Fascia Installation Recommendations

Oakio Fascia utilized around the perimeter of a deck must be gapped with the same requirements as Oakio decking to allow for air flow and expansion/contraction of the fascia.



Install Fascia Beside Decking Edges

The gap between the upper screw and rim joist is 25mm plus thickness of decking. The gap between the under screw and rim joist is 25mm. If the gap between the upper screw and the under screw is wider than 50mm, add a certain number of screws in the middle with 25mm intervals.



Install Fascia Under Decking Edges

Fix two screws with intervals of 25mm. If the gap between screws is wider than 50mm, add add a certain number of screws in the middle with 25mm intervals.

Read All Sections Before You Install

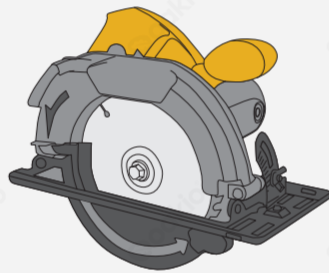
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Tools Required

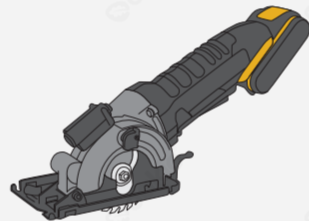
You can use cross spacers to determine decking spacing easily. The specification of cross spacer should be matched with width-to-width gap. If the temperature is higher than 5 °C during installation, 3mm cross spacers should be used. If the temperature is lower than 5 °C during installation, 6mm cross spacers should be used.



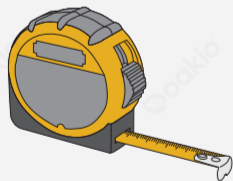
Cordless Driver



Circular Saw



Jig Saw



Circular Saw



Safety Glasses



Carpenter Square



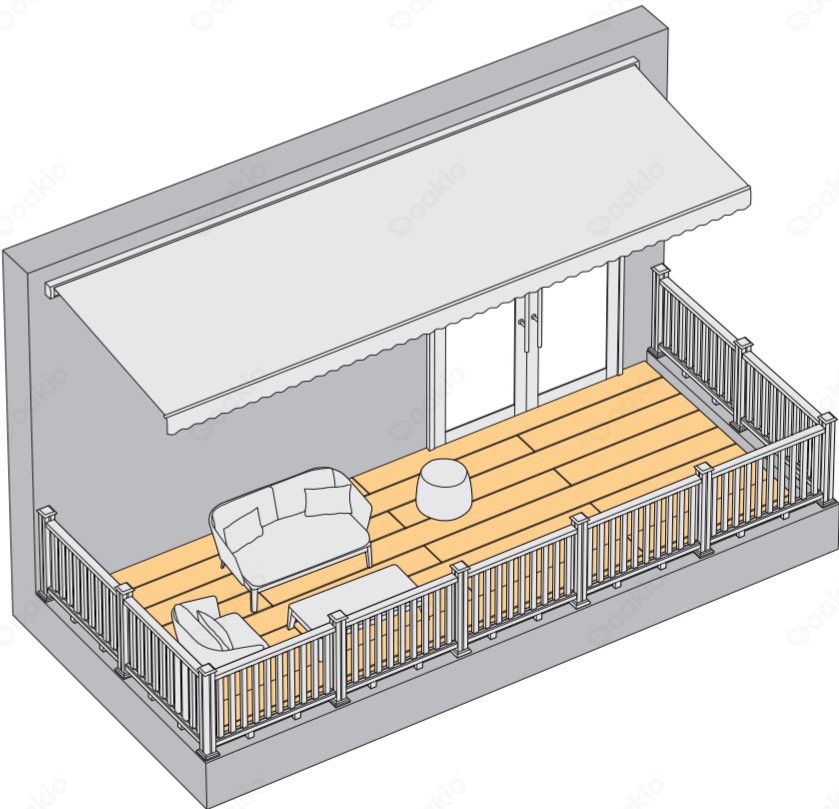
Cross Spacers

Sleeper Deck System

A sleeper system is a substructure installed between a solid surface and Oakio decking. Proper drainage, accessibility, and ventilation are essential for long-term performance. Water must be able to drain through and away from the decking area. In some cases, access to the joist system may be necessary for maintenance or debris removal.

The following guidelines should be followed to ensure proper installation and performance of the sleeper system:

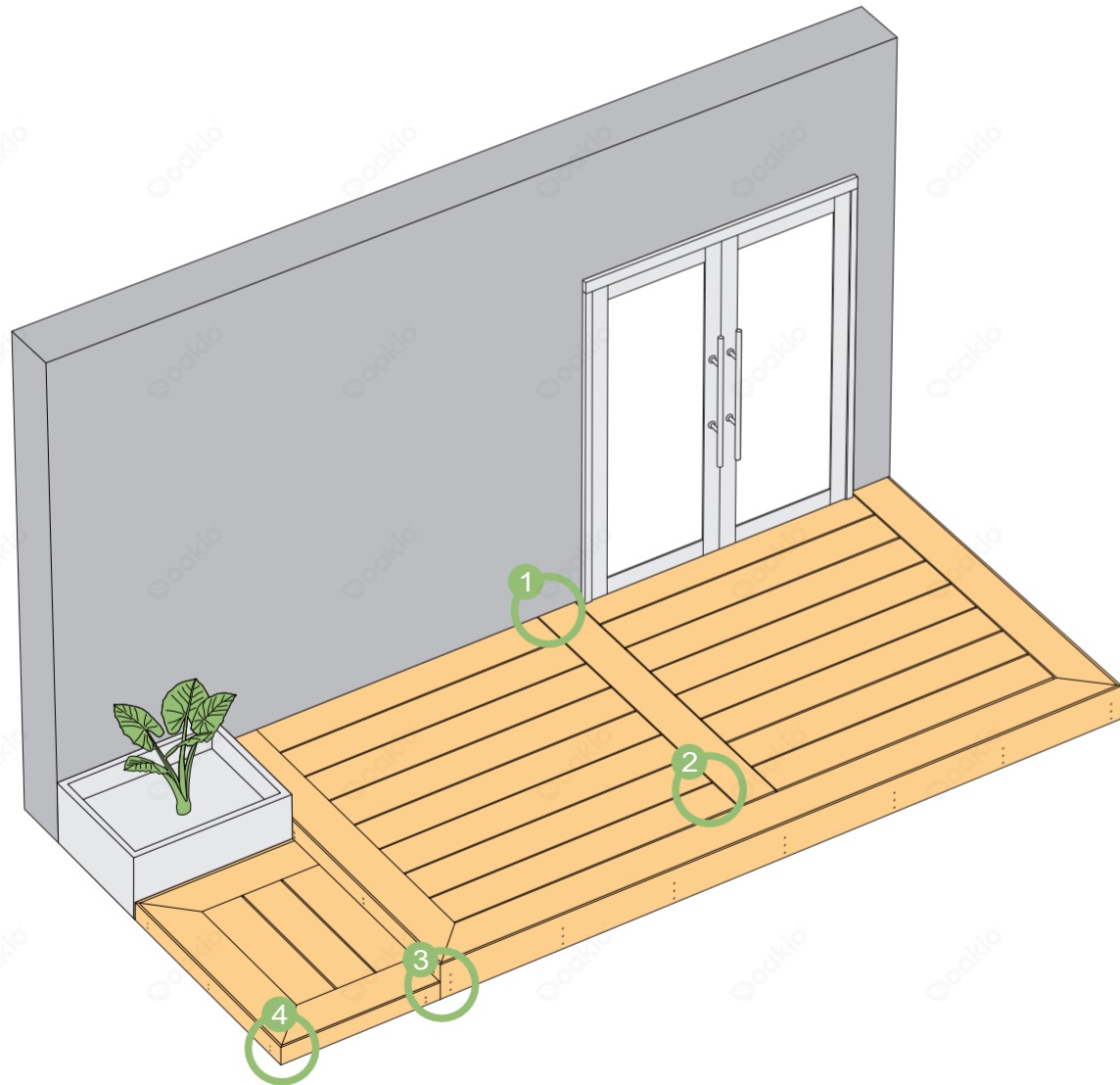
1. Use only building-code-approved structural materials as supports.
2. The sleeper system must be securely fixed and not left floating.
3. Ensure the sleeper system is level and free of any uneven areas, as imperfections in the substructure will transfer to the surface of the decking.
4. When installed over solid surfaces, the decking must be fully supported along its entire length. For rooftop or similar applications, sleepers should run in the direction of the surface slope to ensure proper water drainage. **A minimum slope of 1cm per meter is recommended to facilitate runoff; in regions with heavy rainfall, a slope of 2cm per meter is advisable for improved drainage.** Sleepers should always be installed perpendicular to the deck board orientation.
5. For commercial projects, consult with local building code officials for specific structural and installation requirements.



Installation Notice

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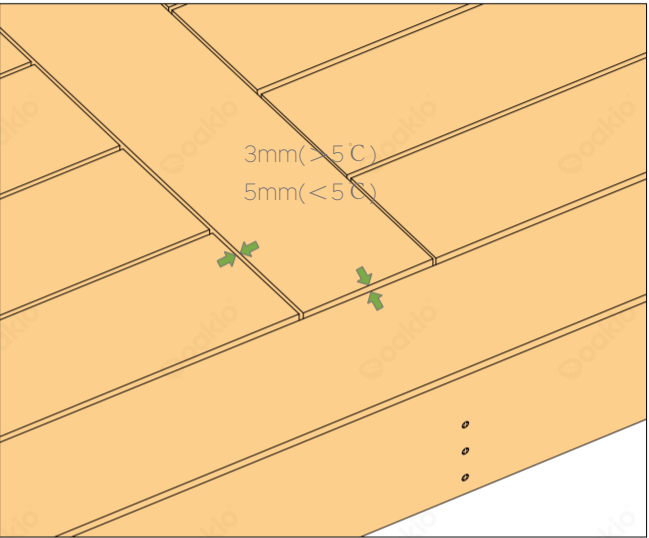
Pre-drilling is required whenever screws are fixed to wpc materials.
The temperature refers to ambient air temperature when you install the decking.



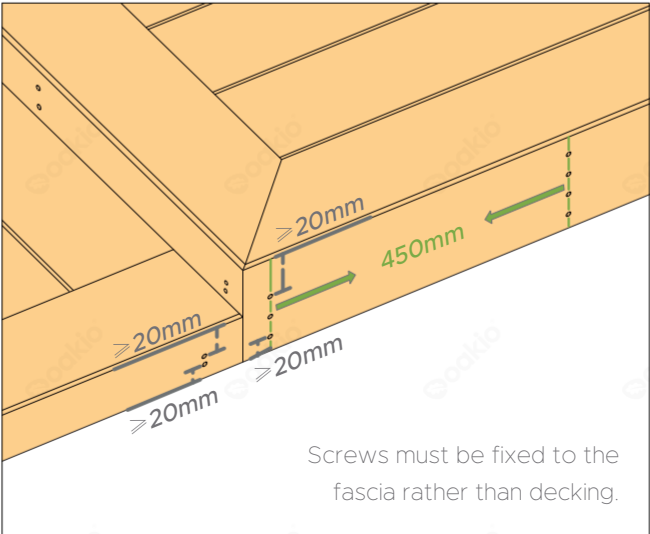
1 Abutting gap is required.



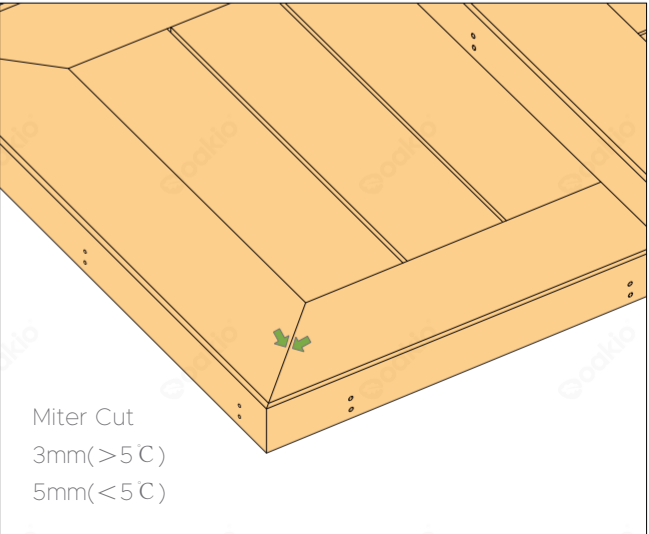
2 Remain board-to-board gap in case of expansion and contraction.



3 At least two screws for fascia in width.



4 Miter cuts at corners create a more aesthetically pleasing installation.

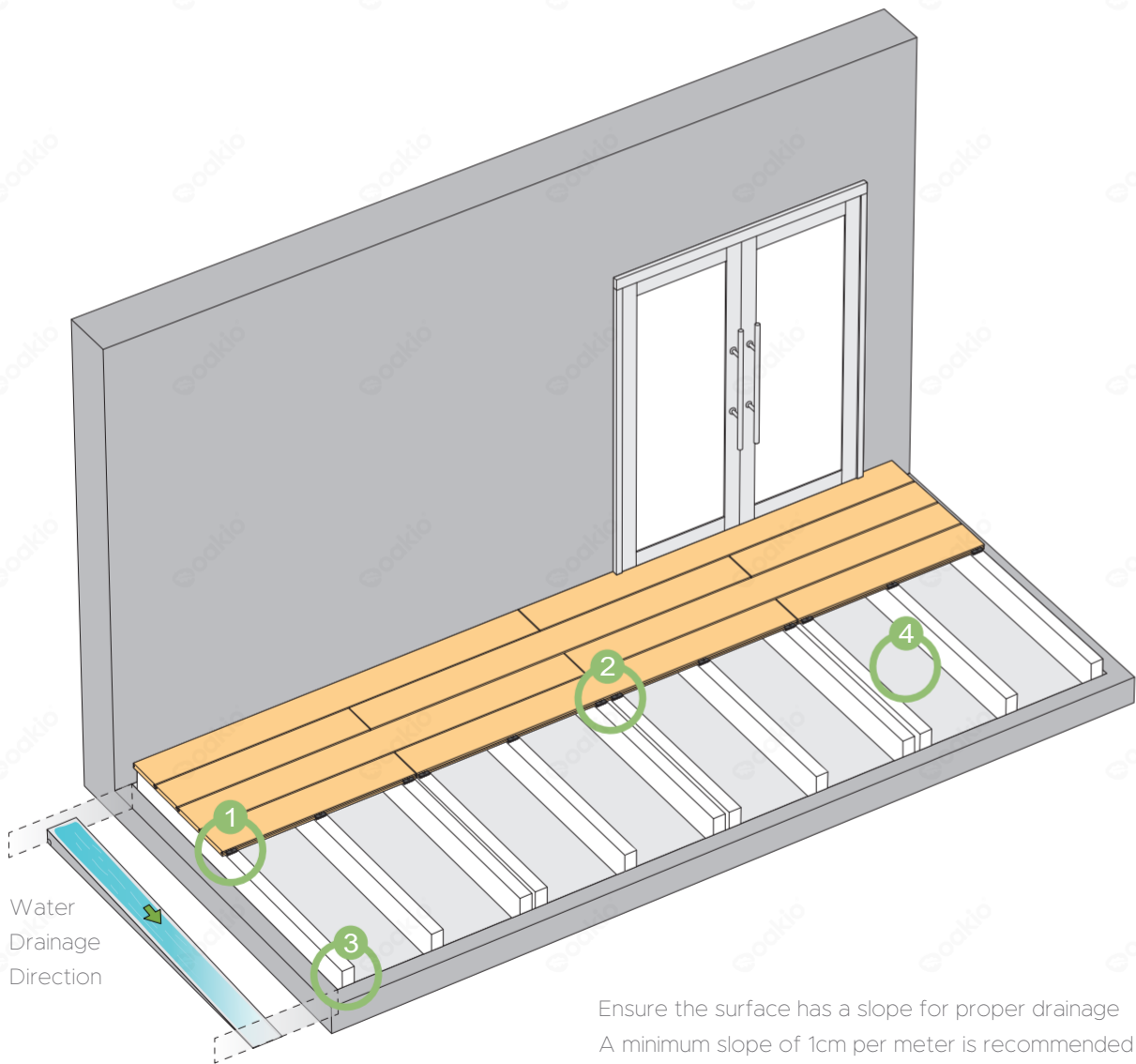


Installation with Wood Joist

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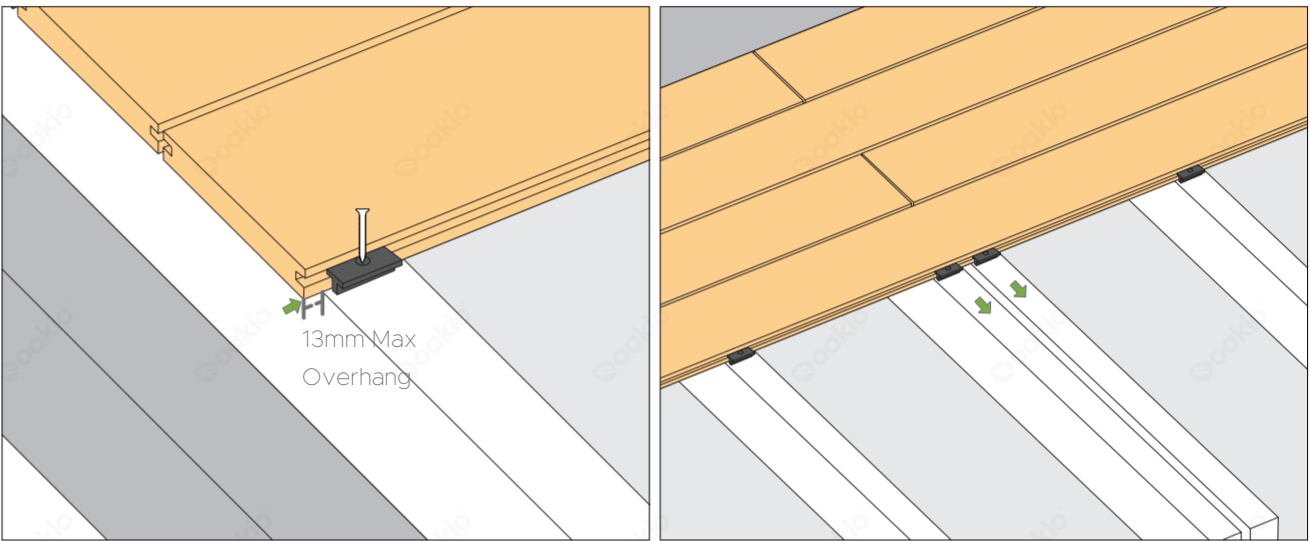
Joists are mainly made of wood, iron and aluminium, which can be determined according to specific needs and individual preference.

The following are four details you should be aware of when you install Oakio decking with wood joists.

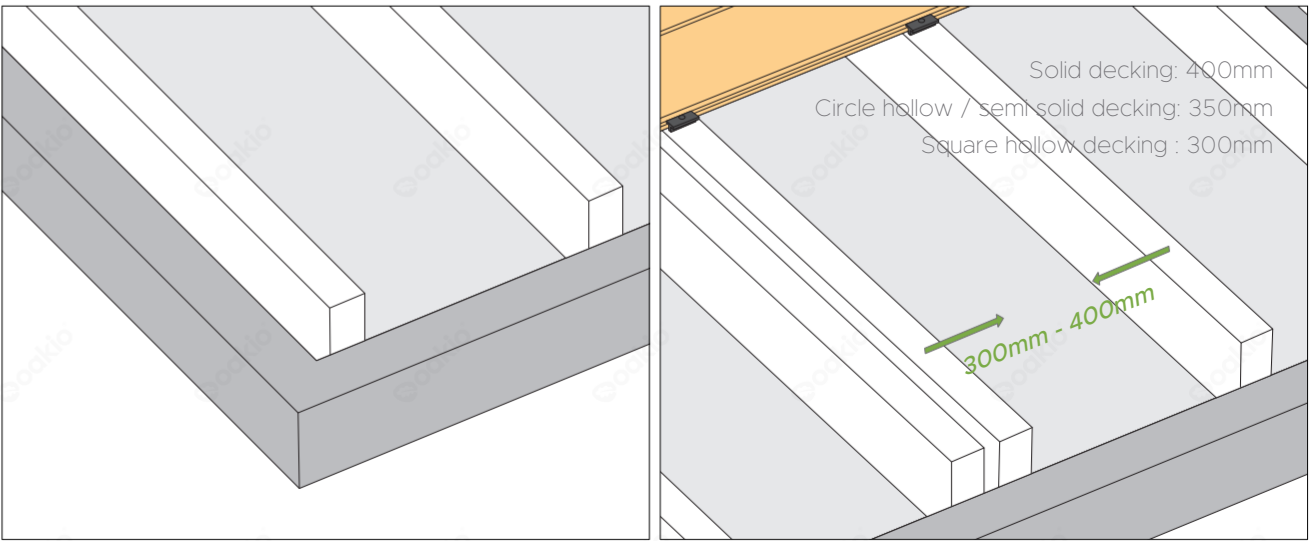


Ensure the surface has a slope for proper drainage
A minimum slope of 1cm per meter is recommended to
facilitate runoff; in regions with heavy rainfall,
a slope of 2cm per meter is advisable for improved drainage.

- 1 The maximum of overhang is 13mm.
- 2 Two pieces of joists are required where two decks connect.



- 3 Perimeter joist is dispensable per manufacturers requirements.
- 4 Adjust end spacing per manufacturers requirements.

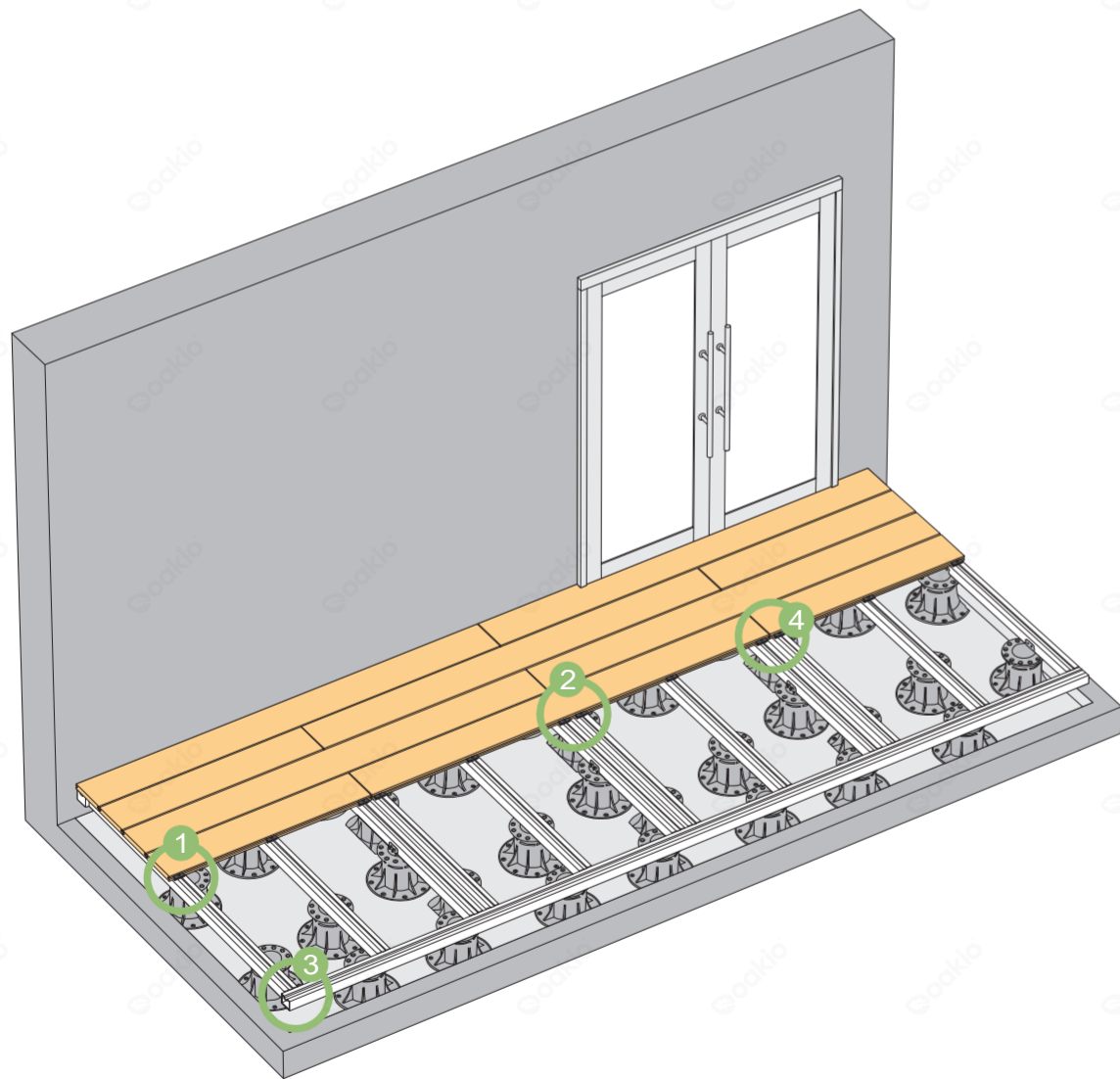


Installation with Aluminum Joist

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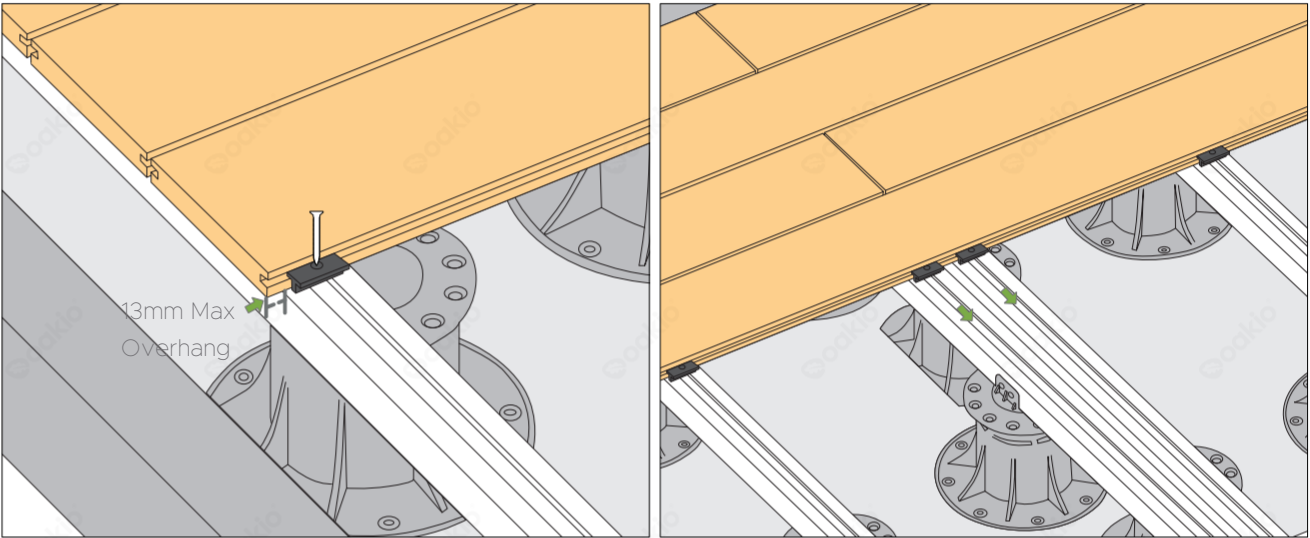
Joists are mainly made of wood, iron and aluminium, which can be determined according to specific needs and individual preference.

The following are four details you should be aware of when you install Oakio decking with aluminium joists.



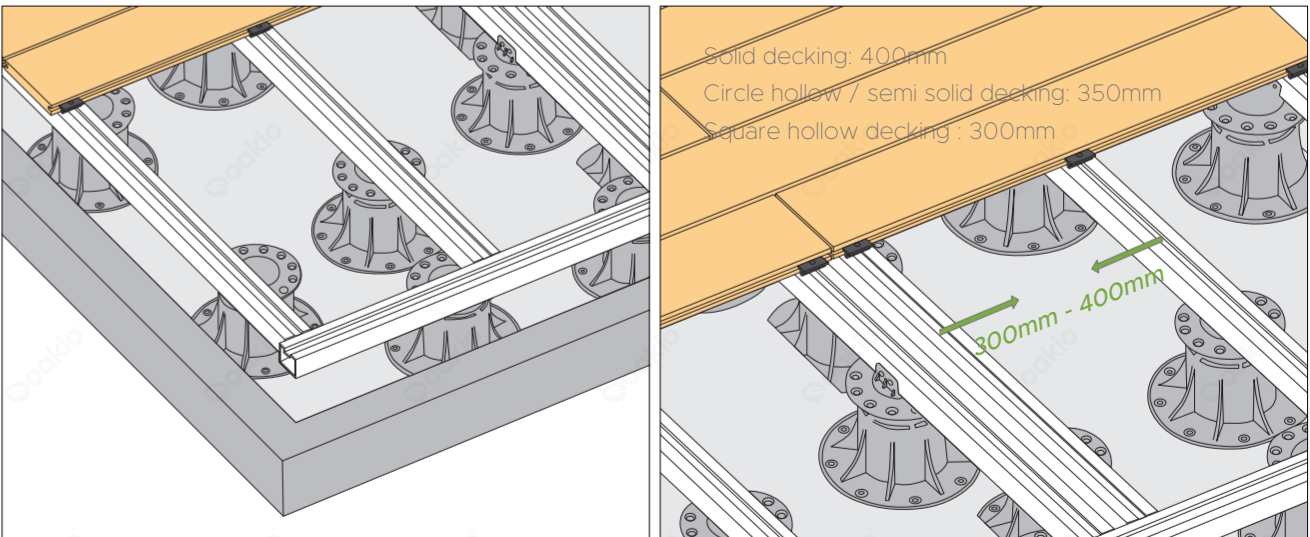
1 The maximum of overhang is 13mm.

2 Two pieces of joists are required where two decks connect.



3 Perimeter joists are required.

4 Adjust end spacing per manufacturers requirements.



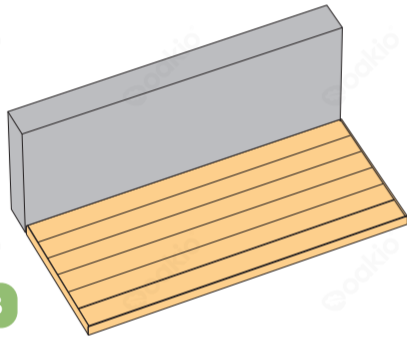
Decking idea and inspiration

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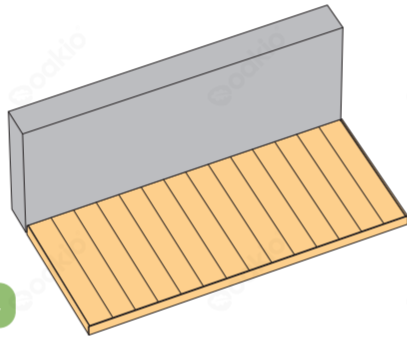
Deck ideas can draw on different design styles, from rustic to contemporary. These deck ideas suggest different ways to design and build a custom deck to your tastes while taking advantage of the outdoor space available to you.

Why not fall back in love with your outdoor spaces with Oakio?

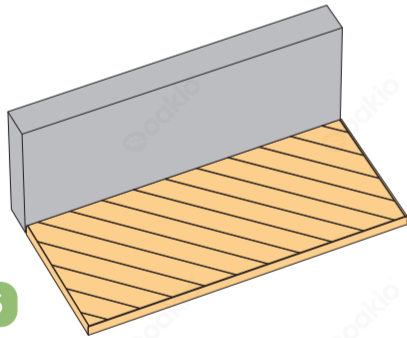
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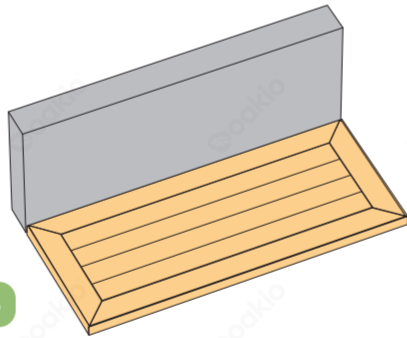
Type 02



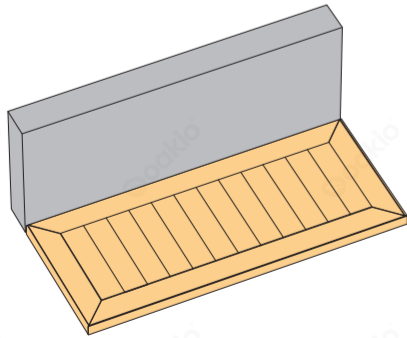
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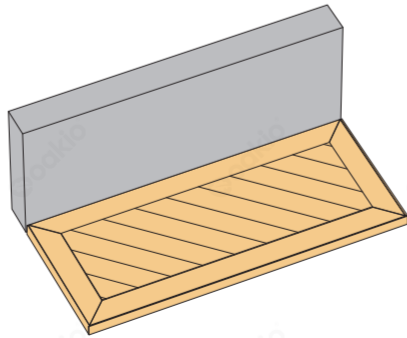
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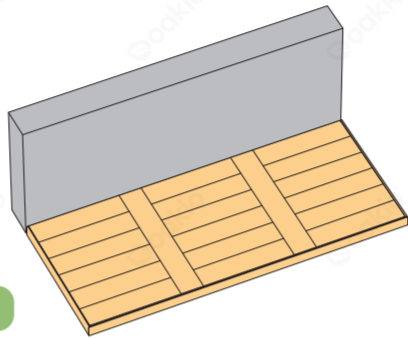
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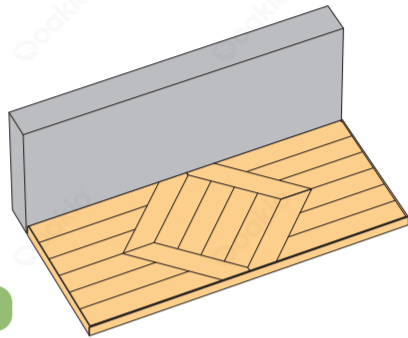
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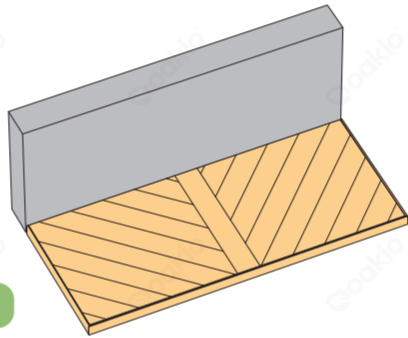
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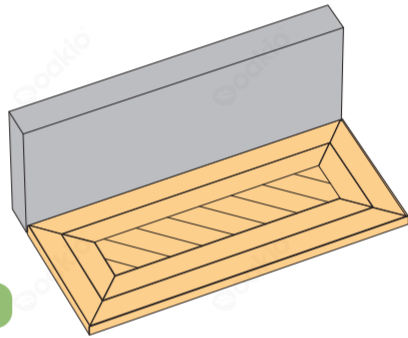
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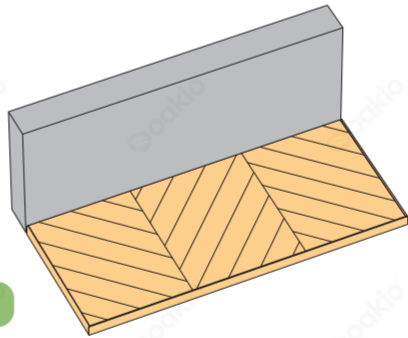
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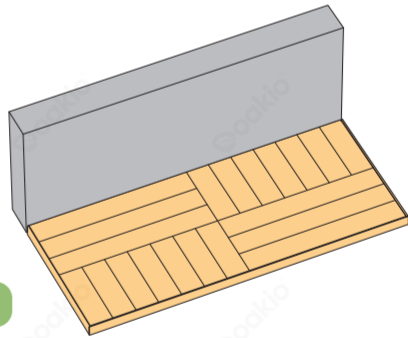
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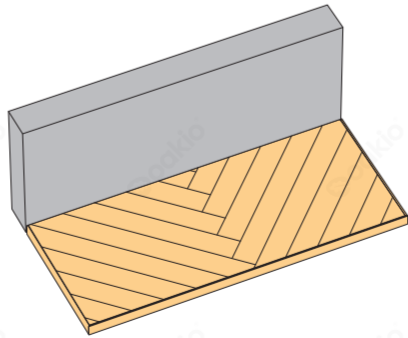
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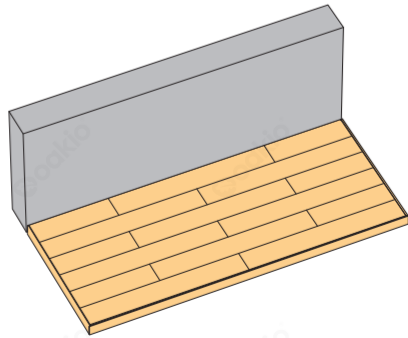
Type 12



Type 13



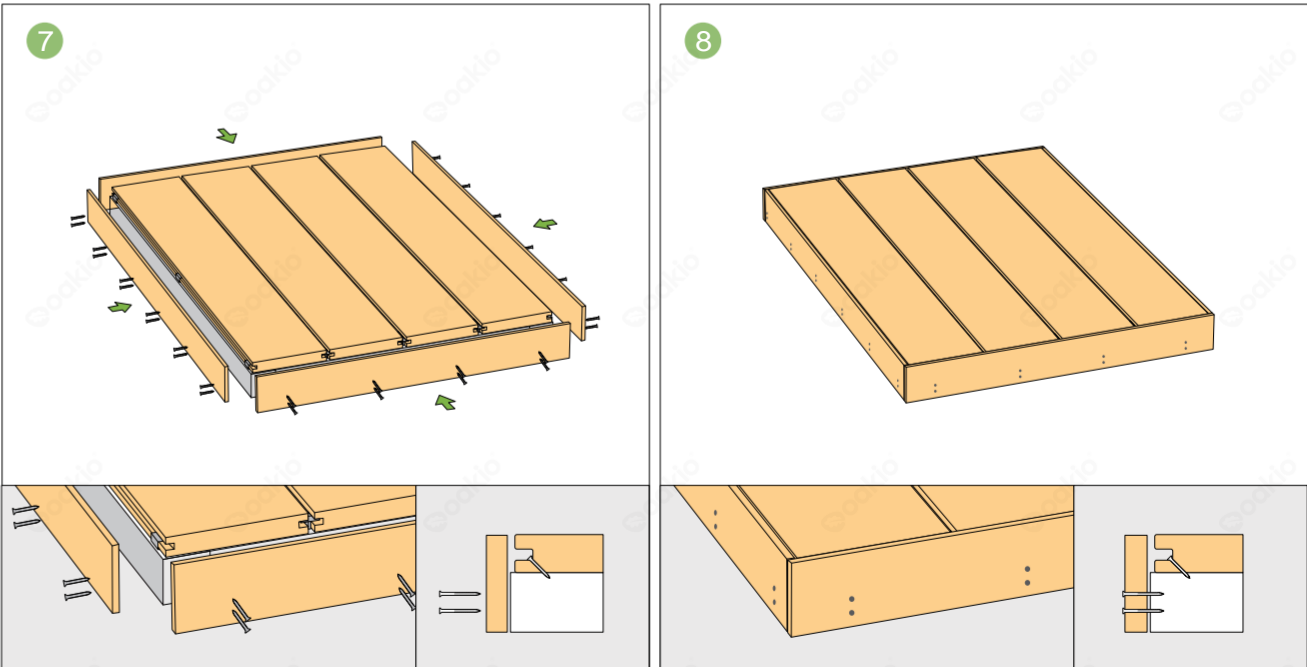
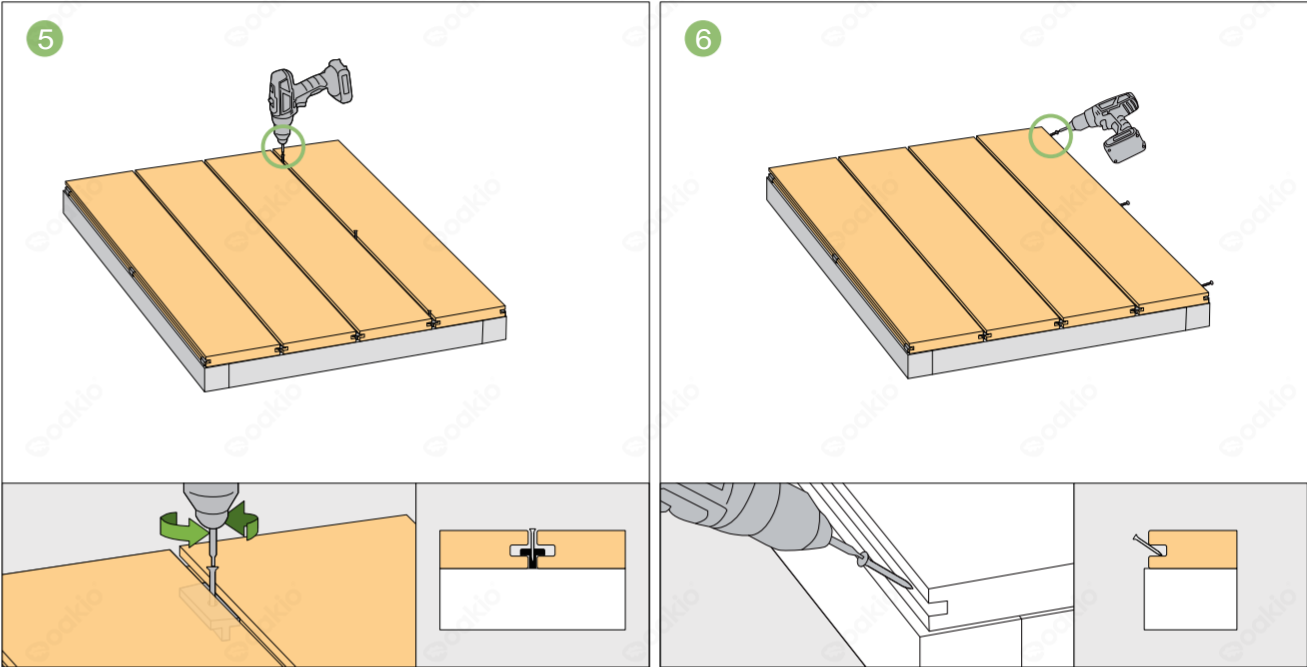
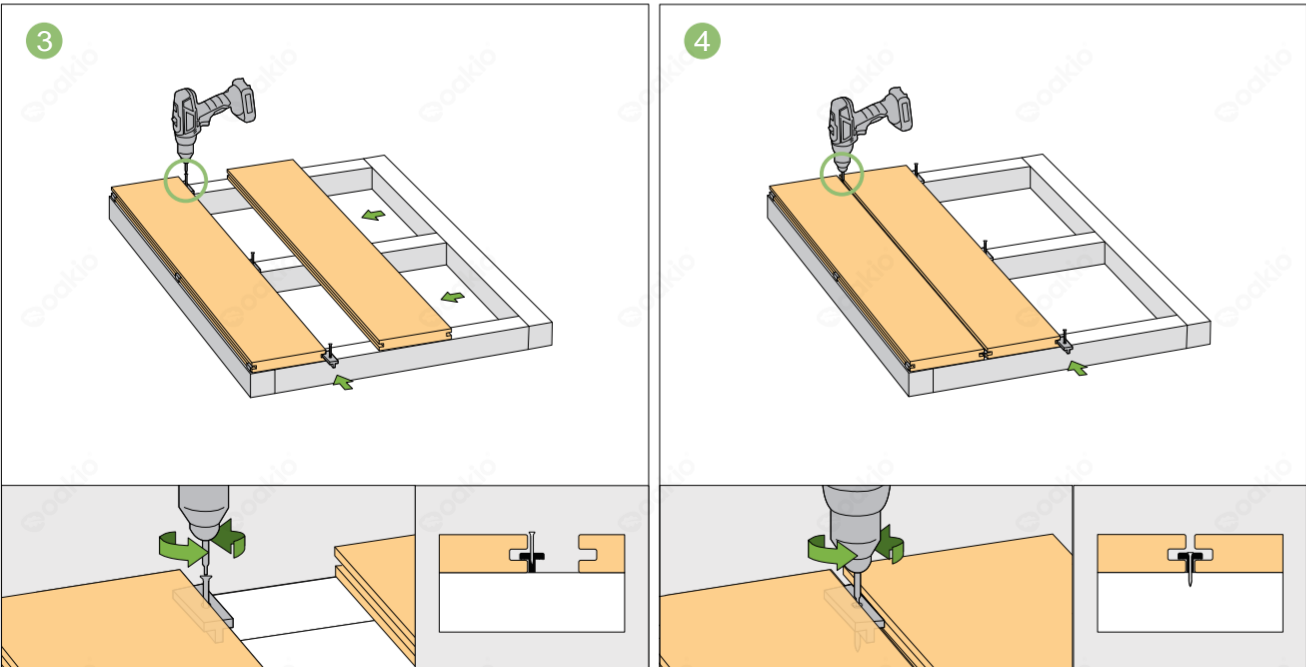
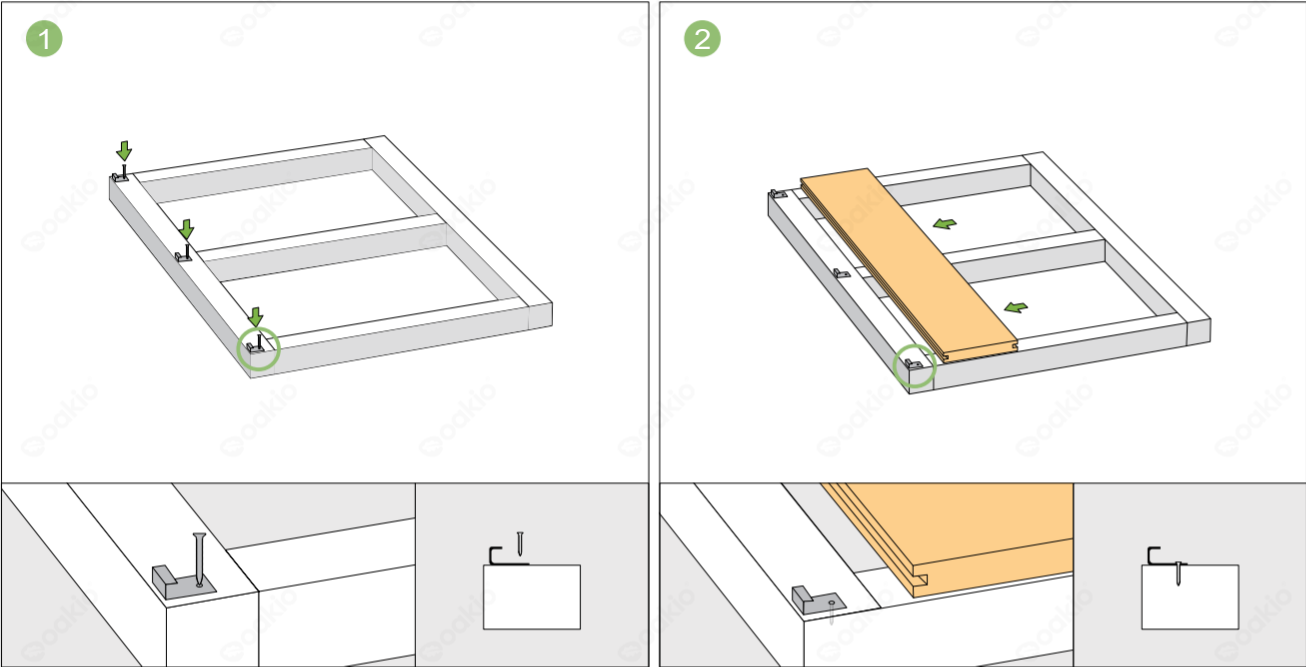
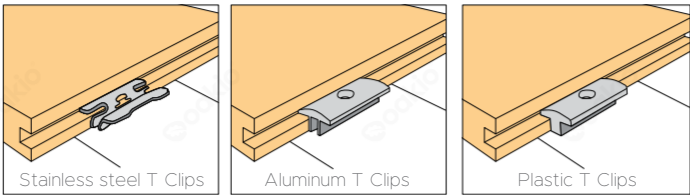
Type 14



Steps to install
Option A -

("T" Clip system with fascia)

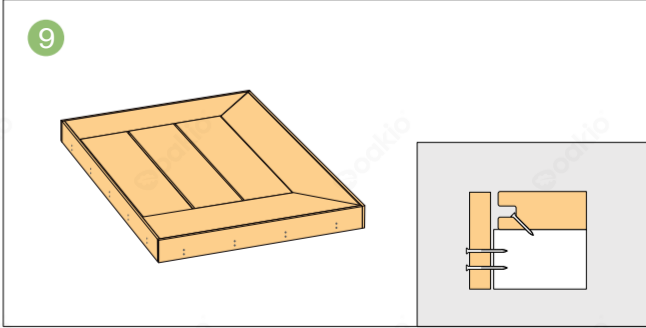
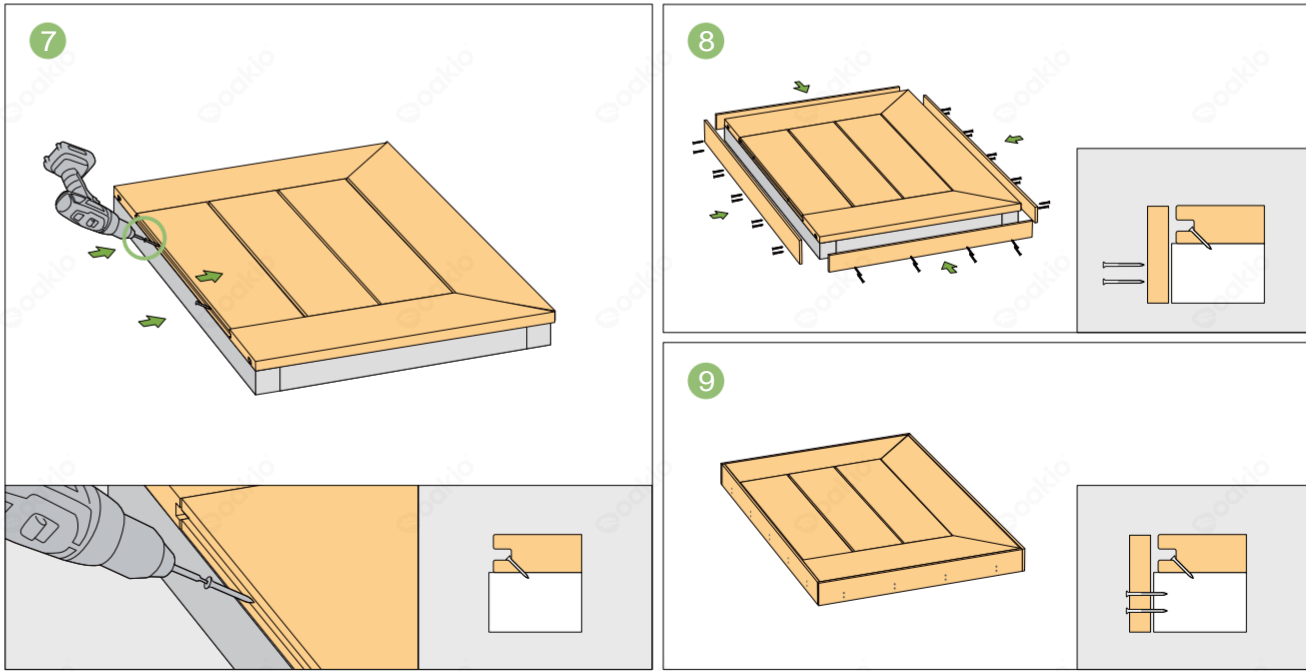
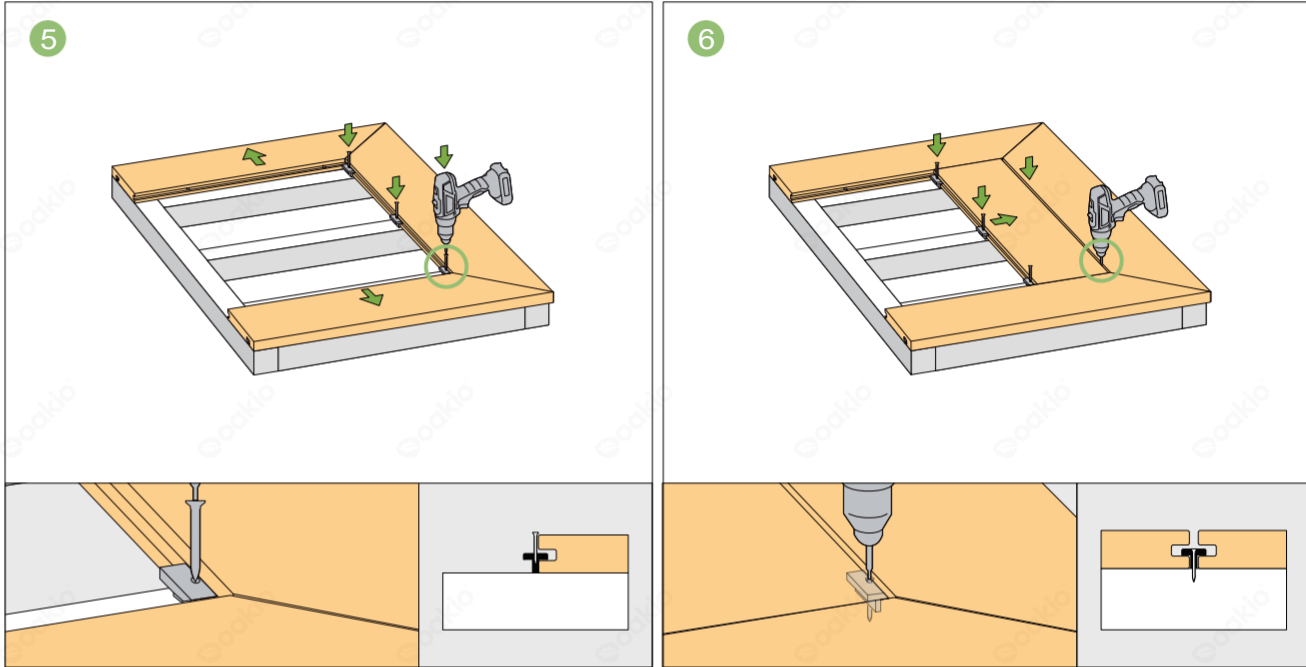
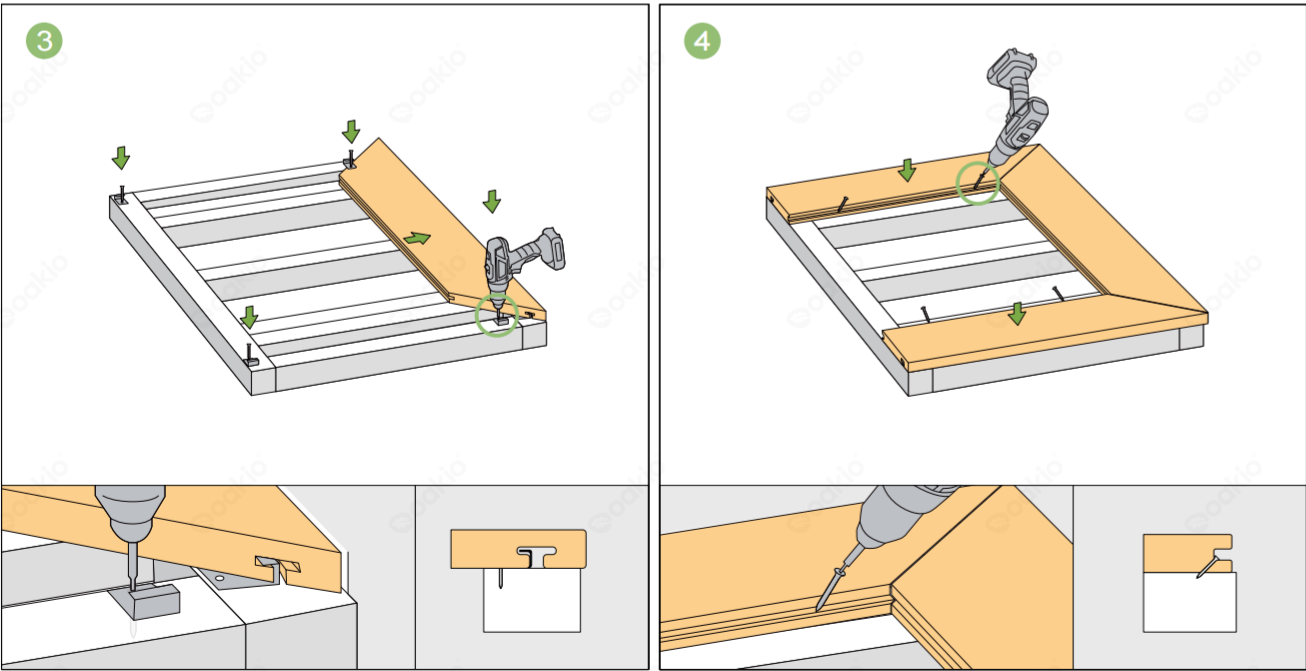
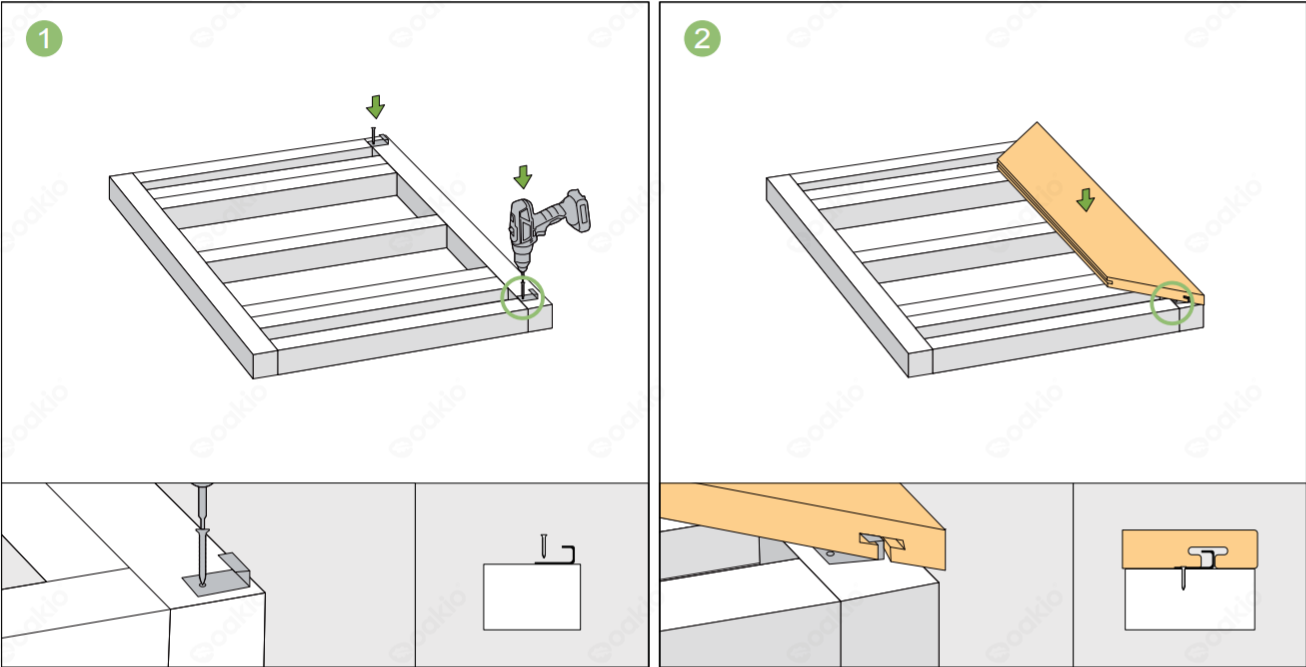
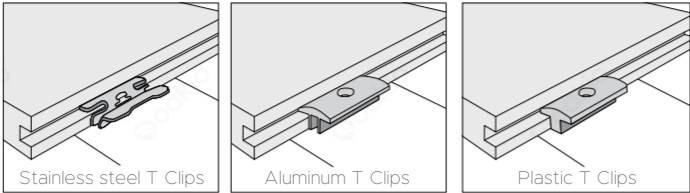
"T" Clips Options



Steps to install
Option B -

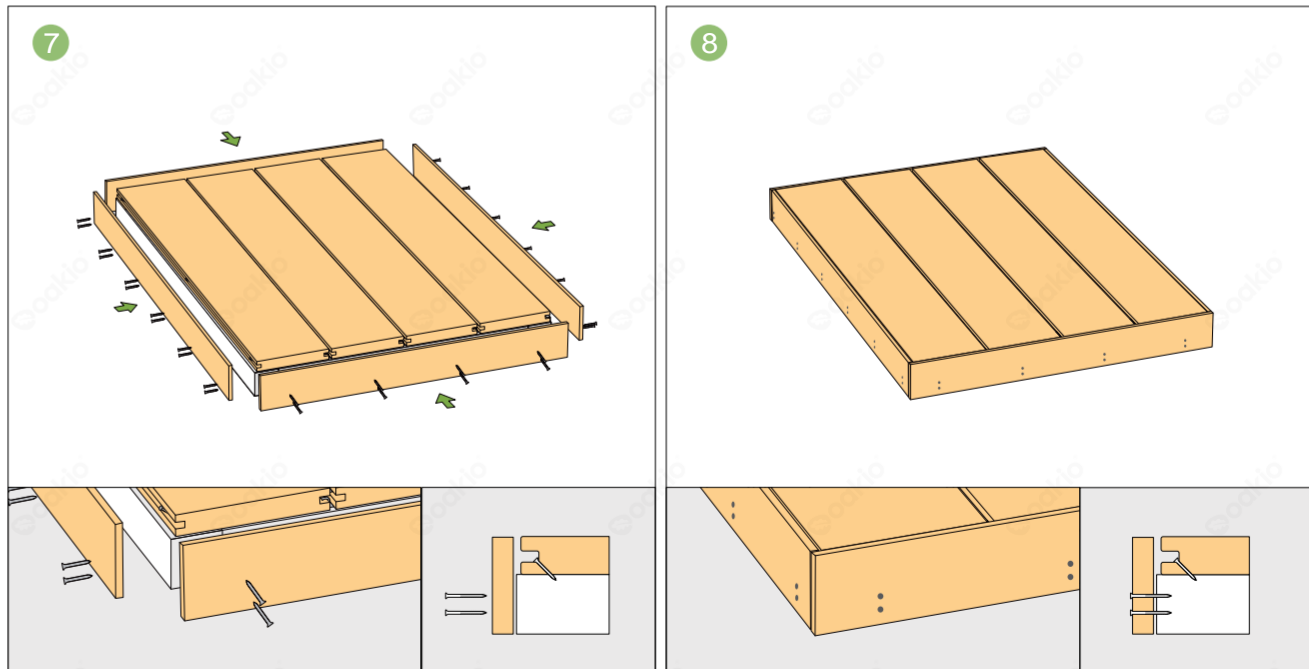
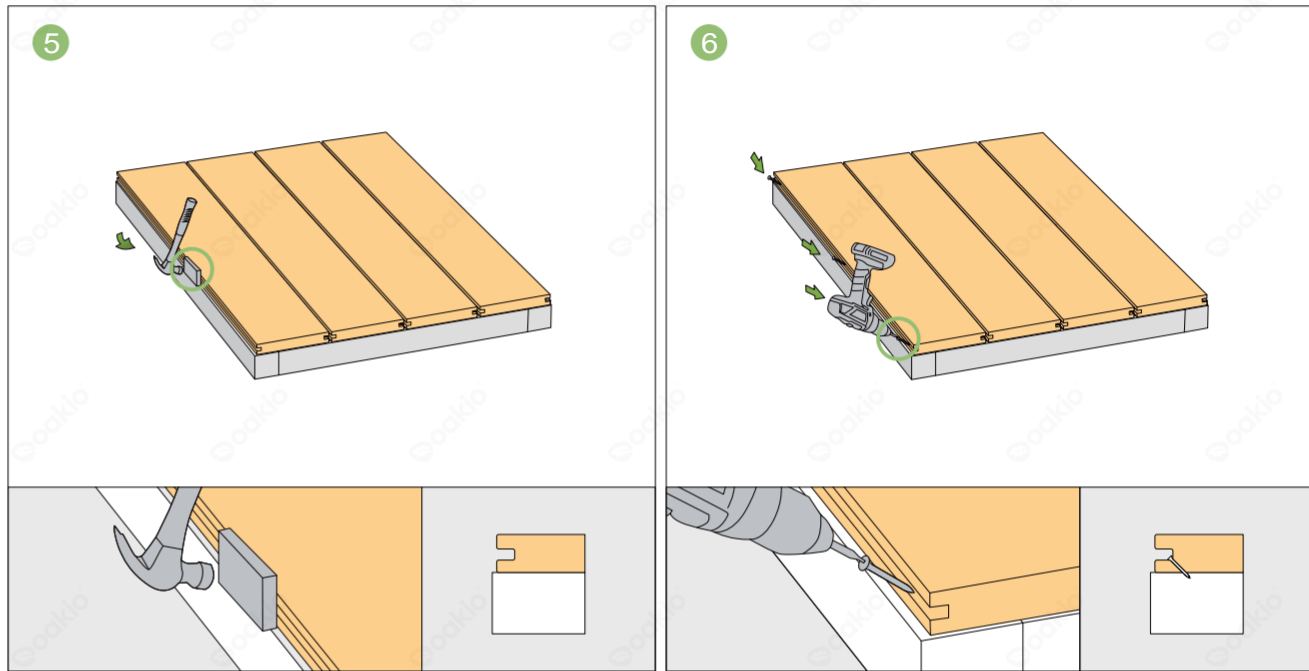
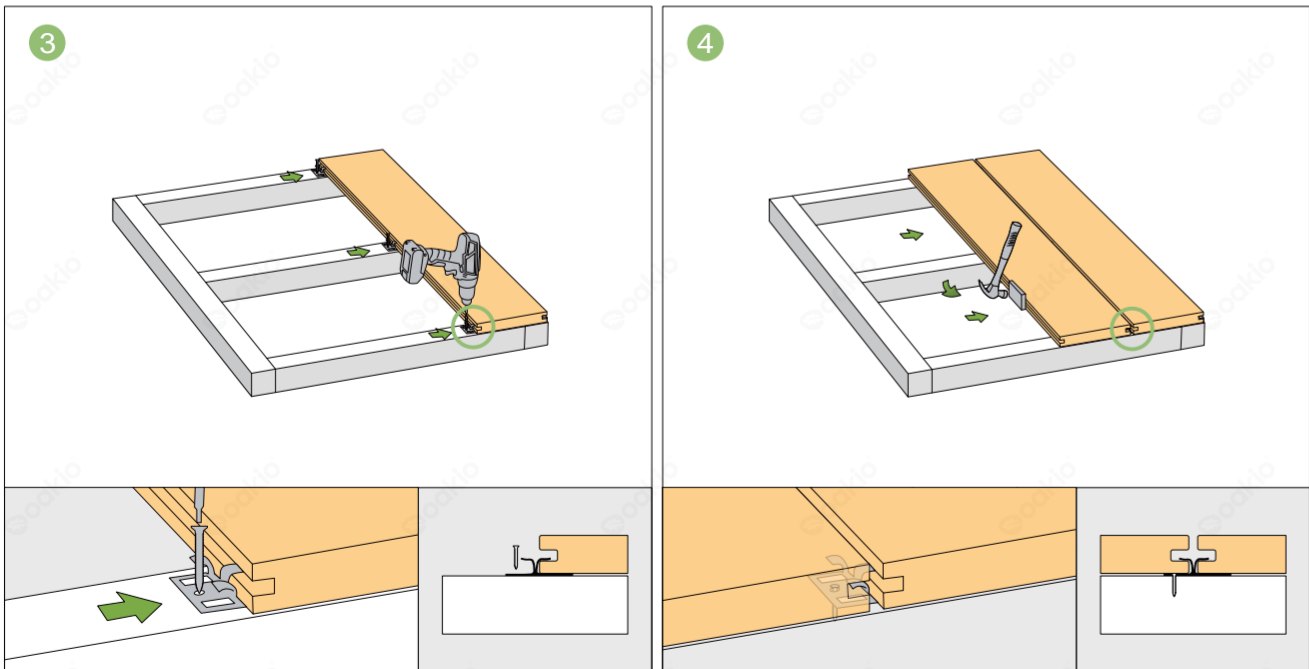
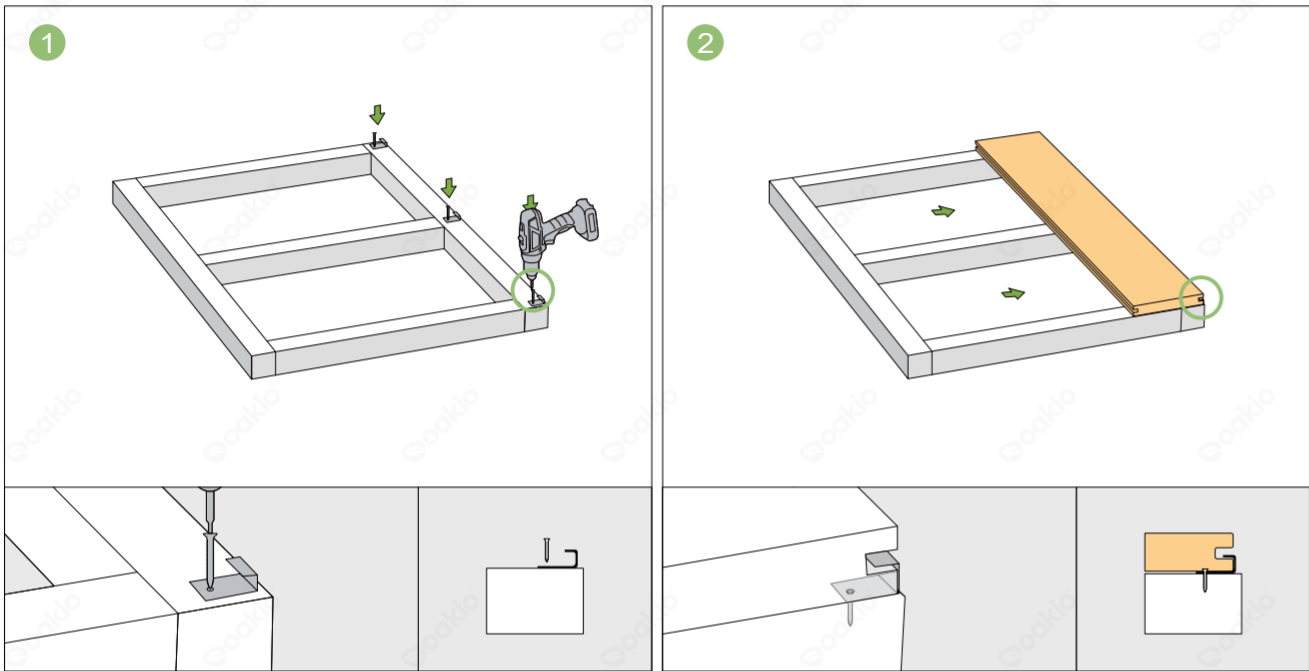
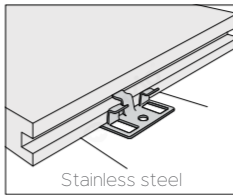
("T" Clip system with edge board)

"T" Clips Options



Steps to install
Option C -

("π" Clip system with fascia)



Steps to install
Option D -

("π" Clip system with edge board)

