



## Installation Guide

**Airuites**

**Premium PVC Decking**



Airuites Premium PVC Decking & fascia should be installed using the same good build principals used to install wood or composite decking in accordance with the local building codes.

Airuites claims no liability or responsibility for the improper installation of this products. We recommend that all designs be reviewed by a licensed engineer, architect, and/or local building inspector before installation.

## Storage

1. Store on a flat level surface.
2. Do not stack pallet over 8 unit high
3. Caution when using a forklift as forks will easily damage the decking.
4. When using plastic banding(Steel banding is not recommended), use corner 5. protectors to prevent indenting the material.
5. Keep factory applied covering on products until installed to protect against dirt and debris.

## Tools

Airuites PVC decking installation is comparable to wood or composite decking and the tools for install are similar

|                  |                |
|------------------|----------------|
| Chalk Line       | Spacing Tools  |
| Tape Measure     | Miter Saw      |
| Jig Saw          | Safety Glasses |
| Carpenter Square |                |

For best results, a miter saw with a sharp-toothed blade( 30cm-60 tooth minimum) works well for cutting. For a power miter or compound power miter saw, a fine finish alternate top bevel blade is also recommended. Be sure wear proper clothing and safety equipment.

## Substructure/Preparation

### Follow these guidelines for best deck installation:

It is strongly recommended that to place the deck boards evenly on the job site 72 hours before install.

As joists are installed, run string line frequently to ensure that the tops of the joists are in plane, as Airuites PVC Decking will conform to the contour of the joists to which it is attached. It may be necessary to shim or plane joists due to size variations in lumber. Be sure to sort and exclude any extremely crowned joists/lumber material.

Prior to installation, check to make sure all joists are level, structurally sound, and there are no nails or screws protruding.

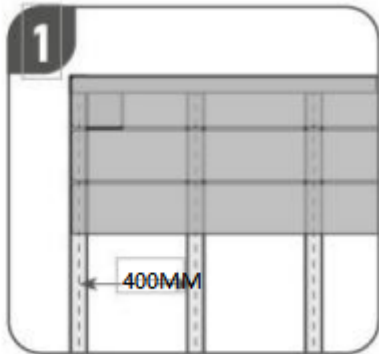
Proper joist spacing is required for proper installation. Joist spacing should never exceed 400mm on center (up to 500mm on center for MAX boards). For a more rigid feel, 350mm may be preferred. However, all angled or commercial installations of decking require 350mm on center maximum.



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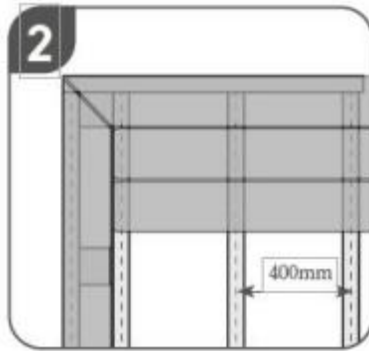
Install solid wood blocking between each joist, placed in rows at maximum every 1500mm - 1900mm within the structure using exterior grade screws. Solid blocking will help reduce up or down movement and/or twisting of joists. Limiting joist movement can help reduce excessive gapping and also ensure a more uniform finished surface of the deck.

It is recommended to add additional framing, tighter joist spacing (1500mm to 1800mm maximum). Also, only use top-down fastening in locations such as near glass, areas of high heat build or sunlight reflection.



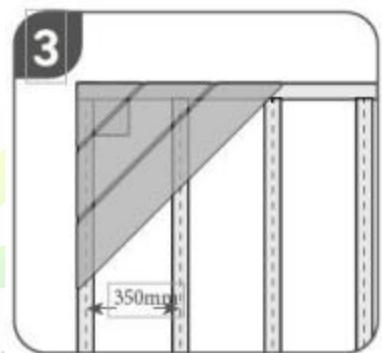
#### 400mm BASIC INSTALLATION SUBSTRUCTURE

400mm on center maximum joist spacing. (350mm on center for commercial applications)



#### PICTURE FRAME INSTALLATION SUBSTRUCTURE

400mm on center maximum joist spacing plus additional support for picture frame structure (350mm on center for commercial applications)



#### DIAGONAL INSTALLATION SUBSTRUCTURE

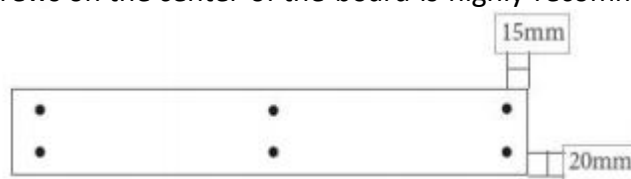
350mm on center maximum joist spacing. More severe angles may require closer joist spacing.

## Expansion and Contraction

PVC Decking /Fascia will expand and contract, move, and gap with changes in temperature unlike wood whose size will fluctuate with moisture changes. The expansion and contraction encountered may result in gaps, which might be noticed at the ends of boards or in splice/butt joints. Gapping is normal and some gapping can be expected. Using top-down fastening method for the deck boards will help minimize expansion and contraction.

Note: Splices/butt joints are where gapping most commonly occurs especially large fluctuations temperature area.

Facing screw fixing will limit the contraction (two screws on both of the ends, if the board length over 4 meters, two more screws on the center of the board is highly recommended)



Anti-Creep Clips are special clips designed to minimize movement for board lengths over 3m, 3 clips needed for both of the ends and the board center.

Limiting length of deck boards for long runs can help minimize gapping.



Adding design features such as properly framed parting or breaker board can reduce or eliminate the need for butt joints.

Also consider using shorter deck board lengths or a design which allows running deck boards in shortest possible direction.

Airuites PVC decking, when installed with two screws per joist, will have minimal expansion and contraction due to Temperature changes. There will be no side to side movement and small end-to-end changes.

To further minimize expansion and contraction, proper Ventilation and air flow should be considered .

During Installation, frequently check that the deck boards are installed straight and with consistent gapping and spacing by using a string line.

## **Fasteners**

Due to the durability of Airuites deck products, a high-quality fastener is recommended that meets the following specifications: use hidden fasteners, color matched deck/fascia screws or plugs

Be sure that screws are driven to a minimum depth 30mm into solid wood framing below the bottom of the deck board, this will enhance holding power and uplift resistance.

Avoid using flat head screws. Trim head screws typically provided a better result. As always, the fastener should be tested on a sample board before being used on your deck.

Be use use 2 screws per joist on each deck board, regardless of temperature during attachment of deck board, be sure to keep butt joints and meter tight and place fasteners with 15mm of ends.

For salt water coastal applications, we suggest using the above minimum fastener requirements in 304 stainless steel.