

# Installation Guide

## Usage

- KINDWOOD decking is qualified for private use and not for construction or professional purposes, such as Building, Construction connection, As a support, or for component loading requirements.
- Don't process KINDWOOD decking inside houses, in escape routes or in firebreaks.
- Don't fix KINDWOOD decking on the solid surface directly, but on the KINDWOOD joist, and remain the gapping for the decking installation.
- Keep the installation environment with ventilation, dry, drainage unblocked. If not, will reduce the usage life of the decking.

## Storage

KINDWOOD decking is generally denser than natural wood. On the job site, it must be stored on a flat surface and must be supported every 60 cm on centre. Storing on uneven surface might cause the boards to twist. It should be covered for long term storage.

## Tools

No special tools are required when working with KINDWOOD decking. But for the best result, we recommend:

- Circular saw blades with fewer teeth ( like 8-24, on a 45 cm blade ) are recommended. They stay cooler and last longer.
- we recommend using 4 \* 30 mm ( Minimum ) Self-taping screws for use with our hidden fixing clips.
- Corrosion resistant screws are recommended.
- Screw gun is recommended to do the job with a number 2 Phillips head bit.
- If using a power tool, we advise to adjust the tool in such a fashion that the screws can't be fixed too tight.

## Decking foundations

- Please consult your structural engineer for design specifications for an appropriate sub floor for your structure.
- Make sure the foundation is flat and stable in order to avoid deformation and dents in the surface and of the terrace.
- Always maintain the indicated mounting distance.
- Make sure that all joists are level and centred.
- We recommend to place anti-rot foil under the construction.
- To ensure proper drainage the foundations should slope min 1.5mm/m.

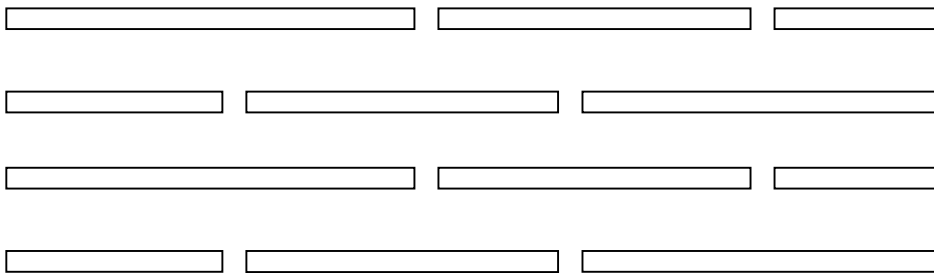
## Installation

- Make sure the decking installation direction in advance, the joist will make a cross with the decking.
- Follow the mounting distance, **Decking / Screening Span Chart as below**

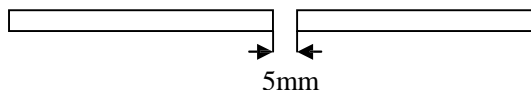
Thickness (Hollow/Solid)mm	Center Distance between the Joist ( mm ) $\leq$
20-23	300
25	350
30	400
35	400
40	450
>40	500

**Notice:** If KINDWOOD decking's thickness  $\leq 20\text{mm}$ , don't use it as the decking.

- To enhance the stability of the joist, keep the joist as I-Beam permutation. See as below:



- In order to allow the thermal expansion and contraction of the KINDWOOD joist, the gapping are needed for the end-to-end of the joist is  $\geq 5\text{mm}$ , see as below:



## **Install the Joist**

Step 1. Draw the center line for the joist with the requirement of the drawing.

Step 2. Fix the joist

a. The concrete ground with flat surface.

Step 2-1. Pre-drill a hole on the joist and the concrete with the electric drill.

Step 2-2. The joist with a screw fixed on the concrete smoothly.

b. The solid ground with uneven surface

Make the ground is flat with the with cement mortar (cement: mortar is 1:2.5), the next steps are similar with step2-1,2-2.

c. The ground with soft grass or mud.

Method 1:Estabilish a platform on the job site with the brick.

Leveled off the site with the cement.

Follow the Step2-1,2-2 after the cement solidification.

Method 2: Make a metal framework on the job site.

Pre-drill a hole on the joist and the metal framework with the electric drill.

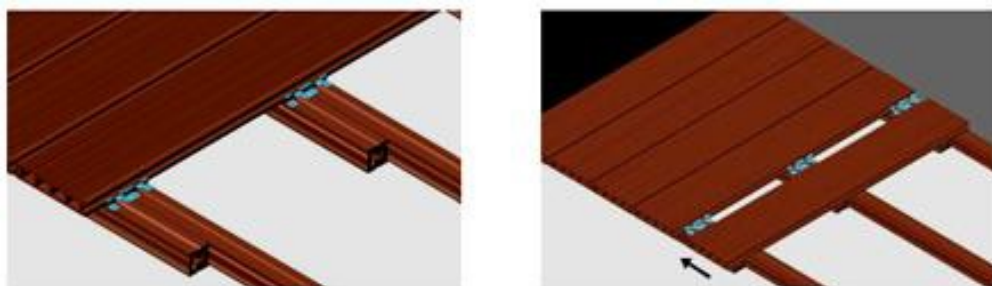
The joist with a screw fixed on the concrete smoothly.

Notice: Use the doubled up support joists at the butt joints of the decking is recommended.

## Install The Decking

For the decking with the side-groove

- In order to install the KINDWOOD decking easy and fast, we recommend to use the stainless steel clip or plastic clip connection each other ,and fix on the joist.
- Compared with self-screw, the clip is more suitable for the material expansion and contraction.
- Use the stainless steel clip, the gap for the side-to-side is 3-4mm.
- In order to ensure the uniformity of the gap, use the card board tools with 3-4mm is recommended.



For the decking without side-groove

- Pre-drill a hole on the joist and the metal framework with the electric drill.
- The decking with a stainless steel self-screw fixed on the joist.
- The gap for the side-to-side of the decking is 3-4mm.
- In order to ensure the uniformity of the gap, use the card board tools with 3-4mm is recommended.



The end-to-end and side-to-side of gap same as the joist, the change with the different length of the joist/decking

As below:

The length of Decking/Joist	Min Gapping for the Decking/Joist
Less than 2m	8mm
Between 2-3 m	10mm
Between 3-4 m	15mm

- If the decking is less than 2 m, the gapping around your terrace especially to obstacles is not less than 3cm.
- Each end of the boards must be supported and fixed.

# Recommendations For Cleaning Composite Decking

## General

- Normal maintenance of the terrace can be done by sweeping or scrubbing the floor, or by using a garden hose or high pressure cleaner.
- To avoid damage, using enough distance between the nozzle and decking. Spray in the direction of grain pattern to avoid damaging your decking.
- Protection under the BBQ can avoid grease stains.
- We don't recommend placing a fire basket on the decking.

## Maintenance

### Rust

- Use water (and soap) and a scrub-sponge.
- In case of heavy rust, use a cleaner containing lemon acid.
- Rinse with water after scrubbed.

### Oil / Greasy stains

- Remove immediately the oil and clean with degreasing agent. Rinse with water and soap.
- If stains have set into the material, they are hard to remove. Fine sandpaper / steel wire brush can be used, and following the wood grain, remove effect would be better.
- Rinse with (warm)water would be better.

### Wine/Fruit stains

- Clean with a proper cleaning agent and water.
- Heavy stains scour with bleach and warm water.
- Rinse with water.

### Smut stains/ Scratches

- In case of small smut stains and scratches you can use fine sandpaper following the wood grain and finish the plank.

### Ink stains

- Ink stains maybe can't remove, scour with bleach and water firstly, and then remove it when the stains diminished.
- Rinse with water.

### Dirt/ Dunghill

- Use the cleaning product with oxalic or phosphoric acid to wipe the spot about 10-15 minutes
- Rinse with water .

### Ice/Snow

- Use the calcium chloride or seleniferous rock, can melt the ice or snow, and then clean it with warm soap water.
- Rinse with water.

### Chalk Print

- Besides the white chalk, it can't remove once the others colour print on it.
- Rinse with water .

### NOTICE:

Due to it will release surfactants in large quantity and will result in environmental pollution, when use the Soap water and Cleaning products with oxalic or phosphoric. So use cautiously.