

HOH Ecotech Decking Installation



HOH Ecotech WPC decking is made of natural wood/bamboo fiber, plastic particles and special chemical additives. It's made by professional WPC production equipment with special production process. For the composition of natural fibers, WPC profile has better anti-UV (ultraviolet) performance, lower expansion and contraction properties according to the change of temperature. WPC outdoor decking has been widely used recently because of its low moisture absorption, slip resistance, rot resistance, termite and other insects' resistance, comparative color stability, no-deformed, almost no cracks, no maintenance, etc.

No need of painting or gluing, WPC is a kind of environmental-friendly material better for human health. The main ingredient in natural wood/bamboo powder of WPC is the leftover material of furniture or decking factories, while the other main raw material of plastic is recycled plastic. Therefore WPC products is environment-friendly, low-carbon high-tech product advocated by people all over the world for using WPC can save a lot of natural wood and reduce the widespread use of plastic products. .

Our company passed ISO9001: 2008 and ISO14001: 2004 system certification, products tested by Intertek, CE and meet EU regulations. Our company does strict control in raw material purchasing and production process in order to meet clients' high quality demand. The natural wood/bamboo powder we purchased also comes from professional wood/bamboo powder manufacturers, besides, the plastic we use is Grade A plastic comes from designated domestic manufacturers.



HDPE



Plant Fiber

I. Announcements before installation

We suggested that Installation should be done by professional staff. Before fixing, keep the ground dry, clean and smooth. If has local special rules for structure, please follow the rules.

The deck boards are only allowed to be used as decking. It's forbidden to put to other uses, like: construct support, connector, or to be some parts of other load-bearing.

Our company will not take the responsibility of the result if the installation does not follow the installation instructions.

II. Installation tools

Electric drill is a necessary tool during installation. For the brittle feature of WPC, pre-drilling should be done, and then fasten screw. Do not fasten screw directly; the WPC materials might be damaged.

Reciprocating drill is also important during the joist-installation. First using the reciprocating drill to drill a hole in the ground, then fasten the plastic expansion pipe. Finally fasten crews.

In the installation, ordinary engineering tools are essential. In the process, suggest wearing thick gloves. We also recommend stainless steel crews of our company for fastening. Ever square meter need about 24pcs screws. However in the practical applications, it's no need to use them all according to the practical condition.

III. About the WPC attributes

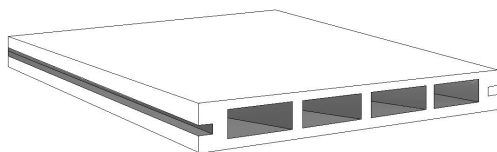
The moisture absorption rate of WPC materials is 0.2%, while expansion rate is around 0.5%. So during the installation, need to calculate the necessary interspaces according to the length and width.

Keep the decking smooth, if have to install the decking boards at some active place, do not fix too tight.

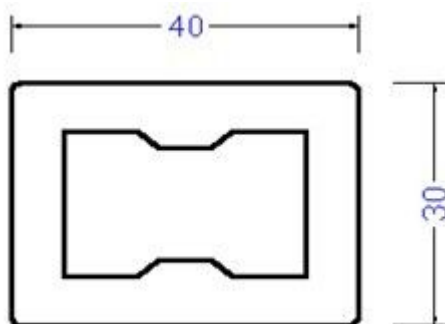
In order to avoid the surface ponding, the groundwork needs to be slightly lean.

IV. Main accessories

Decking:



WPC joist: (Cross dimensions) 40mm (W) ×30mm(H) ×Length



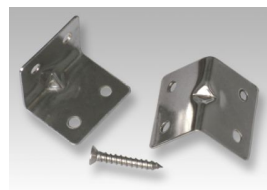
Plastic Clip For Deck



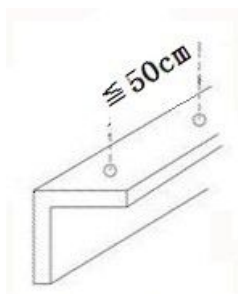
Stainless Steel Clip For Deck



Clip For Joist



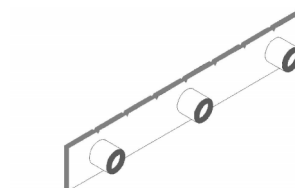
7-style End Cover



End Cover



End Cover



V. Installation Steps

Step 1: fixing the joists on the ground

Before fixing the joist, make sure the ground are clean and smooth. Pave the joist on the ground with a spacing distance of 30cm (suggest distance).At the layup, left a distance of 5mm for expansion. According to different installation condition, offer several fixing methods for your choice, see as blow:

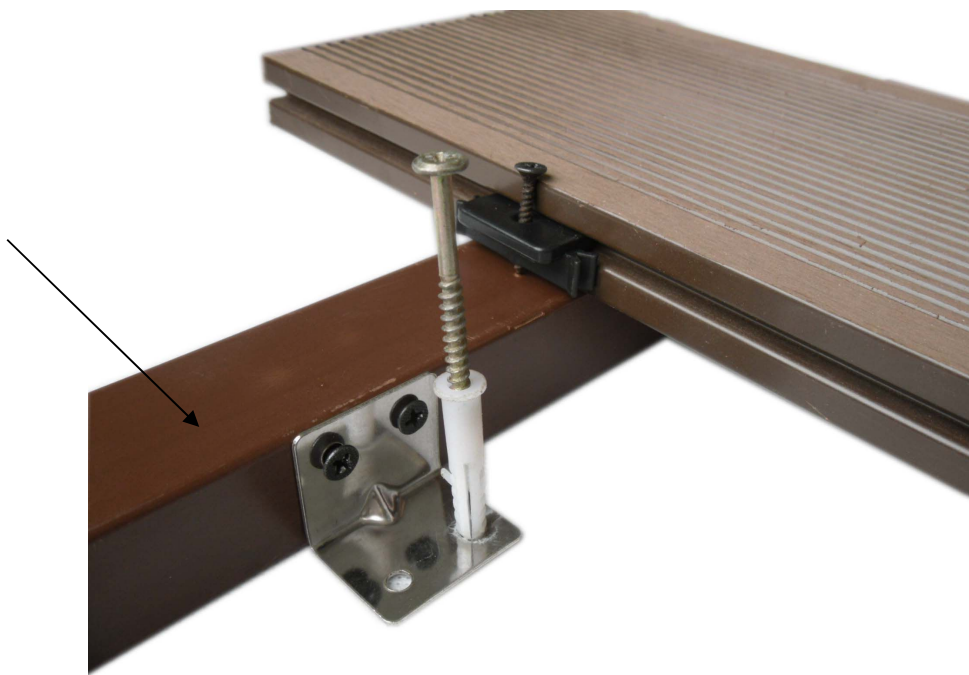
- 1) Electric-drill: Drill a pre-hole in the joist which should be little smaller than the stainless steel screws;
- Percussion drill: Drill a pre-hole in the ground, then screw the plastic expansion tube; Final, fixing the

joist with crews to the ground. The crews must be all put into the joist, or else might bring about the unfairness of the surface.

2) No need of the screw. Fix joist to the flat ground with glue, then filled with the cement on the space—more than half of the height—between joists. When the cement solidification, come to next step.

3) Use stainless steel joist clip, which is in “L” shape, 1 meter joist using 3 clips, of a distance around 30cm. Pre-drill a hole on the ground and 2 holes on the joist, using crews and the “L” shape clip to fix the joists on the ground.

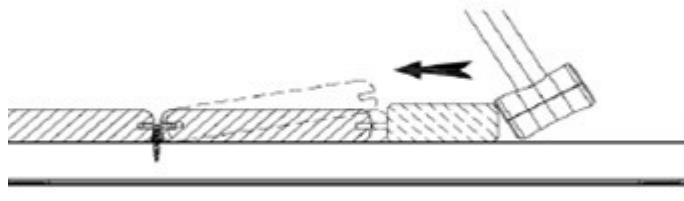
Comparatively the third method is the best—effective and economical.



Step 2: Fix decking onto joists

When installing the first piece of the decking, fasten the deck on the joist with screws that to make the deck won't move, Put a clip on the joist, pre-drill a hole for the screw, and then insert the deck, plastic clip or stainless steel clip must be taken to fix boards firmly. After putting the two boards on the right position, push the board by edge so that the slots between the boards can fix well, and finally screw the nail in the middle of the plastic clip.





Note: Please arrange more than two workers during installation, since the material would be possibly damaged if hit by heavy things or fall from high place.

VI. Usage & Clean

SN	Possible Problem	Solution
1	dust	Brush it with hard-hair brush and warm water and soap
2	fungus	Clean with wood abluent/javelle/washing-ball
3	chalk	Only white chalk can be cleaned. To use warm water and soap with abluent
4	ice or snow	Use calcium chloride OR salt to melt the ice or snow, And then clean it with warm soap water
5	stain	Put the abluent with oxalic acid or phosphoric acid on it for 10-15 minutes
6	oil	Put family-use oil abluent into warm soap water to clean it once you find it
7	berry and wine	Clean it after the stain is lighter by abluent and warm soap water
8	ink	Ink may not be clean sometimes, but the ink may be lighter after cleaned by mix abluent and warm soap.

Note: We suggest you periodic cleaning the floor to prevent dust accumulation, or a variety of stains that difficult to remove after long time. When you clean the stain and uncertain with the cleaning method, it's better to clean a small part of the region as a testing ground to prevent color various place being too large. If it does well, use this method to remove stains of the rest regions. You can use the faucet to wash dust and soil.

VII. On the color change

While in the production process, we already added the colorant and steady material, the WPC flooring boards still have some color changes at the beginning of the outside using. It is determined by the characters of the raw material fiber and plastic fiber. At the first year of using, there will be about 10% of color change, After one year, the color will tend to stable and maintain a long time. Considering the characteristics of the products, we suggest customers to purchase the materials in the same place at the same time.

On the subtle color changes, it mainly represent on the color lighter, it is not in the guarantee range.

VIII. Product Quality Insurance

1). Service life: 5 years from the purchasing date , 5 years under normal condition and correct using way.

2).To ensures the correct installation method, under normal conditions of using, we guarantee that if happen the cracking board problem, we will change equal quantity wpc materials. We don't reimburse for transportation or delivery costs, or compensate the individual or any outside party for assembling or disassembling the product. But if the products damaged due to acts of vandalism, misuse, or improper installation is not covered.

IX. Notes

Although wood plastic composite products have many good features, they have shortcomings---the products are relative crisp, lack of toughness, impact resistance is not strong. It is determined by the inside structure and production crafts. For these features, we recommend:

During use, it's better to avoid heavy crash or collision. When storage, transportation, installation, please handles it properly to avoid it fall from the height.

For more information on the situation of the products and services, please call our Technical Department.

Huangshan Huasu New Material Science & Technology Co. Ltd