



**GENERAL DESCRIPTION**

WPC (Wood Plastic Composite) is a unique composition to replicate wood without the maintenance and hazards of traditional timber decking.

TEST ITEM	TEST METHOD	TEST CONDITION	TEST RESULT
Flexural Strength	ASTM D7031-11 Section 5.5 and ASTM D6109-3 Method A	Specimen: 420 x 145 x 22mm Testing speed: 10.78mm/min Load span: 119mm Support span: 358mm	47.0 Mpa
Flexural Modulus			7380Mpa
Abrasion Resistance	ASTM D7031-11 Section 5.17 and ASTM D4060-14	Wheel: CS-17 Load: 500g/wheel (total 1000g) Cycles: 5000	Weight loss: 369.5mg
			Wear index: 73.9 (1000.mg/cycles)
Specific Gravity	ASTM D7031-11 Section 5.14 and ASTM D792-13 Method B	Absolute alcohol, 23 ± 0.5°C	1.346
Water Absorption	Refer to ASTM D7031-11 Section 5.19 and ASTM D1037-12 Section 23 Method B and client's requirements	Specimen: 145 x 100mm Precondition: 20 ± 1°C, 65% RH to constant mass Immersion condition: 23± 2°C to constant mass	0.74%
Impact Resistance	ASTM D7031-11 Section 5.12 and ASTM D4495-12	Specimen: 152 x 145 x 22mm Mass of falling weight: 10 ± 0.5lb	Mean failure height: 104.7cm Mean failure energy: 4.59 J Estimated standard deviation: 2.2cm
Modulus of Rupture	Quality and testing specifications for terrace decking made from wood-polymer composite section 3.1	Specimen: 420 x 145 x 22mm Testing speed: 10.78mm/min Support span: 358mm	3196 N
Deflection at Load of 500N			1.07mm

**INSTALLATION**

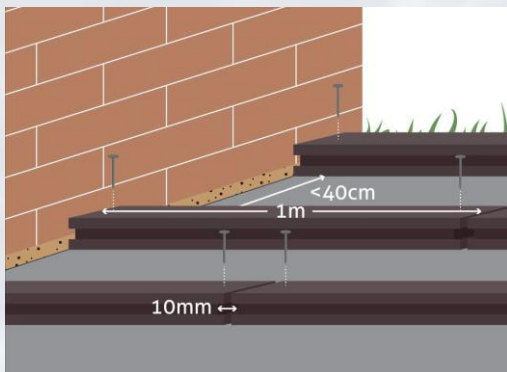
*Prepare the substructure.*

Make sure that the area you are laying the decking onto is flat and stable. Ancient Wave deck boards must be fixed to a subframe of a suitable supporting substructure, not directly onto the ground. We would recommend laying it down on a concrete base or using our WPC subframe.

The concrete base should be at least 100mm thick and have a slight slope (suggested gradient of 1 in 40), that runs away from the property/building to allow water to run off the deck.



The WPC subframe should be fastened to the concrete base using screws through the subframe. The maximum recommended space between the subframe depends on the angle at which you intend to lay your deck boards (do not exceed 400mm).



Allow a gap of at least 8mm between the end of the subframe and a fixed object such as a wall and at least 10mm gap on the subframe joins. This allows for proper drainage and temperature expansion.

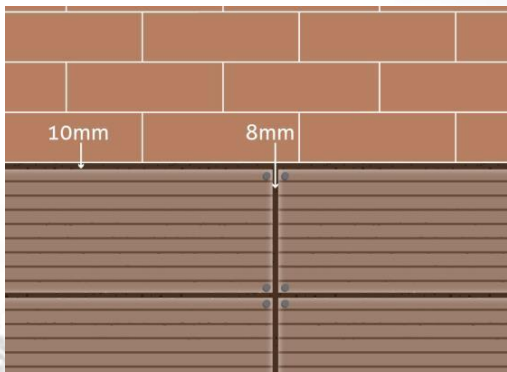
#### *Fixing the deck boards to the subframe.*

The deck boards are easily fastened to the subframe or a supporting substructure using the stainless steel start clips and intermediate clips system.

Start at the outside of the deck, and work your way in. Place your first deck board and screw it into each subframe with a decking screw of a suitable length. Then fit the intermediate clip into the groove alongside the next deck board, screwing it into the supporting subframe.

Fit your next deck board into the intermediate clip and fit another intermediate clip the other side, holding the deck board in place. Follow the same process until all the deck boards are laid down and fixed.

Leave a minimum of a 10mm gap around the perimeter of the deck and 8mm gap on all the butt joins.



#### *Finishing your deck area.*

Install the angle trim around the perimeter of the deck as required.

## **MAINTENANCE**

The decking can be cleaned with a brush/ sanding paper, or with a high pressure cleaner. If you clean the deck with a high pressure cleaner, you must keep a distance of at least 30cm from the deck boards. If necessary, you can use a neutral soap. Do not use solvent detergents or cleaning fluids.

1. Water stains; There will be some water stains on the surface of the newly installed terrace when the water evaporates after rain. It is temporary phenomenon which will disappear in about 1-2 months by itself. It can be cleaned by wiping the surface with steel wool if required.
2. Mud, dust, etc; Clean decking to remove dirt by using hot water with soap. Sand it with stiff brush if required.

3. Scratches, oil stains, alcohol stains, and cigarette stains etc. which are hard to be removed from the surface; Use steel wool or sandpaper carefully to try to remove the stain. Then sand surface and clean with hot water with soap.

#### **IMPORTANT NOTICE**

Data contained in this document is for information only and is believed to be reliable. Southgate Plastics cannot assume responsibility for results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability of the product for any specific purpose and we are pleased to provide a sample upon request.