



## **INSTALLATION GUIDE for solid residential Hybrideck**

### **Transport**

When transporting Hybrideck wood composite decking needs to be transported either flat in larger quantities with substantial support along its length or alternately for smaller quantities or where transporting on roof racks bound together on its edge. It is important that the packs are bound tightly together with strapping or “tie downs” and ideally supported in the upright position. Hybrideck can be unloaded easily by sliding one board flat on top of another board as the surfaces against itself are very slippery. However this also means that when transporting multiple boards together can be very slippery causing danger when accelerating or braking. Ensure boards are strapped together firmly.

### **Storage and Handling**

Hybrideck should be stored flat, ideally off the ground and under shelter away from direct sunlight. The boards require nine to ten supports along the full length of a 5.85m board.

### **Temperature Expansion and Contraction**

Hybrideck wood composite decking expands and contracts lengthways in line with temperature changes during the course of day. **BEFORE CUTTING**, the temperature of each board should be assessed. Hot boards will shrink as they cool and cool boards will expand as they heat up. The boards should be laid out in the area they will be installed and allowed to acclimatize.

To reduce the effects of movement of long boards over 4m angle screw into the joist at the centre of each board.

The **PREFERRED METHOD OF INSTALLATION** is

1. a picture frame design to encase the boards
2. a breaker board at right angles to the deck boards instead of staggered joins
3. angle screw into the joist at the centre of each board to allow even expansion at both ends of the board.

### **Orientation / Direction of Boards**

Lay the boards at the same orientation as they are removed from the pack. If a board is turned and laid in the opposite direction from the others there may be a texture or colour change which becomes apparent after the weathering process.

### **Safety & Tools**

Usual safety precautions and procedures adopted when working with wood should be applied when working with Hybrideck.

**Hybrideck SOLID Residential** can be drilled, sawn, fastened and routed with any of the wood working tools that would be used to install decking.

## **Project Planning**

**Hybrideck SOLID Residential** requires Joists at 450mm centres and the deck should have a fall of 2mm per meter of decking along the long edge to allow the clearance of moisture forming on the deck.

Ground Clearance - over damp ground with little ventilation 300mm is required. However it can be used over sealed substrates such as concrete or a waterproof membrane with as little as 50mm ground clearance.

Overhang on the ends or sides of the deck should be no more than 50mm

Using **Hybrideck SOLID Residential** concealed fixings ensures the required 5mm space between boards.

If using the preferred design of picture frame and or breaker boards, extra joist 'noggins' will be required.

If your deck is situated on a second story and will be exposed to strong winds, applying wind break cloth over the joists, before installing the deck can reduce the effects of any wind noise later.

### **Fixing**

If working parallel to the building leave a 5mm gap between the building and the first board. Attach edge fixings every 450mm and install the first board. For ease of installation, don't over tighten the fixing screw as this can make the next board difficult to slide into place. You can tighten the screw later if required. Any screws or nails should be located no less than 25mm from the edge or end of your Hybrideck boards.

### **Fixing Base Boards**

When using nails or screws on the deck boards or base boards, pre drill first and use large head nails. Leave the head slightly proud rather than countersunk. This allows the decking to expand and contract under the head. When fixing base boards try to do so when it has been in the sun and expanded to its maximum. Fixings should be every 300mm to keep the base board stable.

### **Breaker Boards ( perpendicular boards)**

Breaker boards are recommended for large decks of 8 to 10 metres or more. These boards run at a 90 degree angle to the deck boards and need to be attached with edge fixings or screwed to extra joists installed where the breaker board will be installed.

### **Staggered Butt Joins**

For use on smaller decks, staggered butt joins can be secured with an angle screw into the joist, through the fixing channel in the middle of each board to allow the decking to expand and contract equally at each end of the board and keep the joins stable.

