



ENDURODECK

Installation Guide



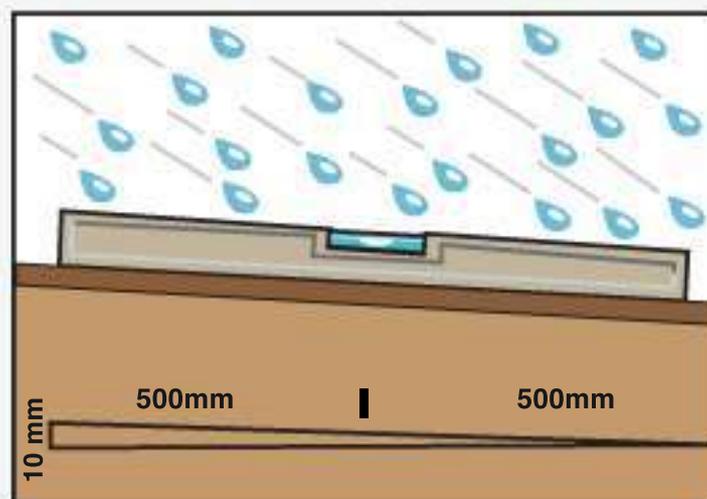
IMPORTANT: Read all sections before you start

Prior to installing any composite decking, it is recommended that you check with local building codes for any special requirements or restrictions. The diagrams and instructions outlined in this guide are for illustration purposes only and are not meant or implied to replace a licensed professional. Any construction or use of Endurodeck must be in accordance with all local zoning and/or building codes. The consumer assumes all risks and liability associated with the construction and use of this product.

Essentials Before Installation

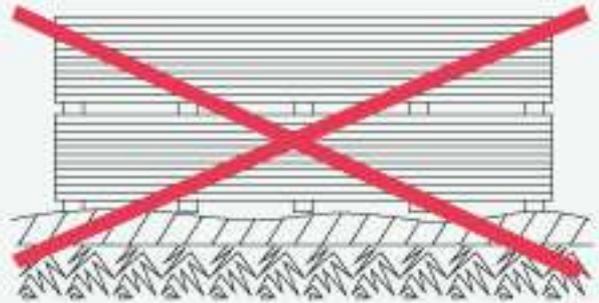
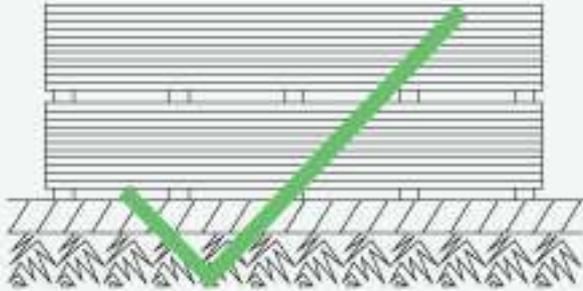
- 1 We suggest that Endurodeck be installed by a professional when possible. Endurodeck should not be used for the foundation or substructure. The ground or supporting structure should be strong enough to avoid from shifting, collapse and subsidence.
- 2 Avoid areas where heavy impact, standing water or corrosive chemicals are common.
- 3 Standard woodworking tools and fasteners are required for installation. Fasteners must be provided by Replas.
- 4 Ventilation
Note: Decking should not be installed in a sealed area, and the ventilation conditions under the boards shall ensure air or water can flow freely.

Important Endurodeck CANNOT be directly installed onto the ground. It must be installed onto a substructure that is made into a frame or joist, so there is adequate and unobstructed air flow under the decking to prevent excessive water absorption. If there is excessive water absorption, some swelling can occur. A minimum of 100 mm (4 inches) of continuous net free area under the decking surface is required for adequate ventilation, so air can circulate between adjacent members to promote drainage and drying. In the case that installation is below 100 mm (4 inches), it is recommended to look up the maximum rainfall of the area to determine what height would need to be built to ensure no flooding of the deck occurs. If the rainfall is determined not to flood the deck, a slope of 10 mm/meter must be used on the frame towards the direction of the drainage to ensure that there is no free-standing water. This will ensure the decking won't be submerged in water for long periods of time.



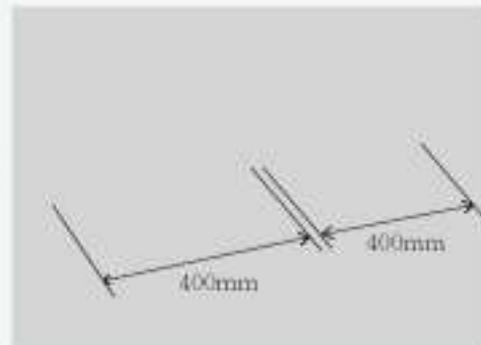
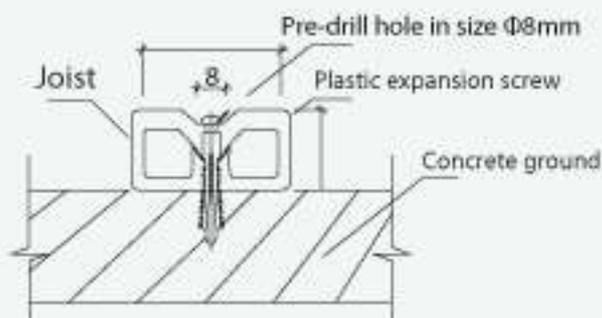
Storage

Endurodeck should be stored on a flat solid surface on joists or pallets.



Step one: Fixing joist

Joist must be fixed onto flat and hard ground. It is recommended to use treated Pine wood joist or wpc joist. Adequate spacing in the joists is required to keep the decking boards from flexing. For residential projects, the joist span centre-to-centre should be less than 450 mm. For commercial projects, the joist span centre-to-centre should be less than 400 mm. If using an angled pattern, the joist span centre-to-centre should be 100 mm less than the normal requirement.



Joists Span

	angled with 90	angled with 45
commercial usage	400 mm	300 mm
residential usage	450 mm	350 mm

Commercial Decking Installation

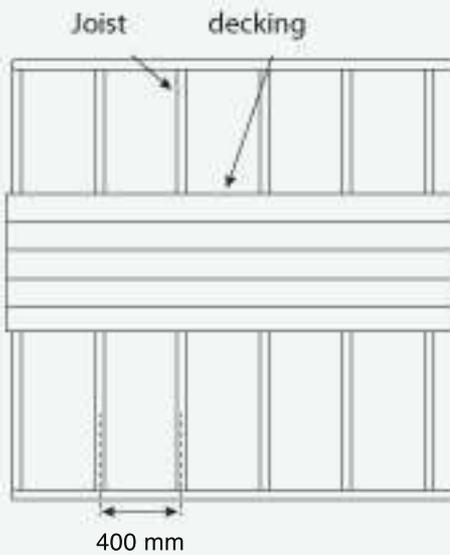


Figure a

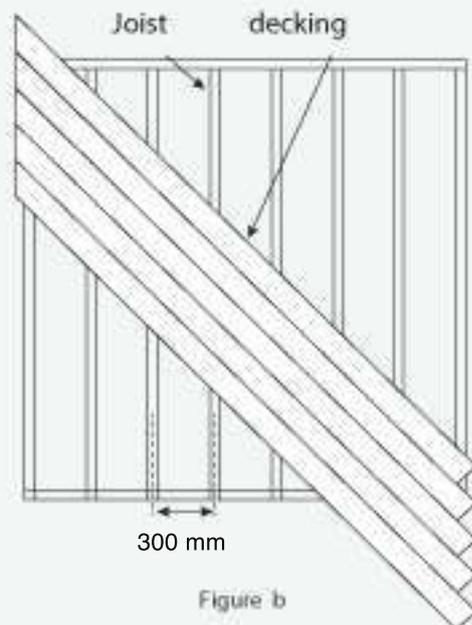


Figure b

Step 2: Installing Endurodeck

If using wpc joists always pre-drill before fastening Endurodeck boards. Make sure to leave enough gap as Endurodeck boards will expand and contract with changes in temperature. Expansion and contraction are most significant where extreme temperature changes occur. Gapping requirements are noted in the following key point.

Key point

- Side-to-side gap between boards: 3-7 mm
- End-to-object and side to object gap: Min 5 mm
- End-to-end gap: 3-7 mm. If installaling Endurodeck during winter you must allow more of a gap due to expansion and contraction.

Side - to - side:
3 -7 mm



End - to - solid
object: min 5 mm



Side - to - solid object:
min 5 mm



End - to - end:
3-7 mm



Step 2: Installing Endurodeck

Starter Clip

Pre-drill the joist and fix the starter clips to the centre of the joist using screws. Push the grooved edge of the board into the starter clips as shown in the below diagram.



Hidden Fasteners

Insert the fastener into the grooved edge of the board. Align the screw hole in fastener with the centre of the joist. Continue along the length of the board at every joist.



Care & Maintenance

Keep Endurodeck away from high-temperature equipment (such as heaters, barbecues etc.) to avert deformation, discoloration, or other damages. Never let kerosene, gasoline, or other organic solvents come into contact with your deck.

Do not leave opened cans or other metal items on it unattended for a long time to prevent rust stains. Do not place heavy loads directly onto Endurodeck.

Please take care of it during transportation, installation and storage. Although Endurodeck only requires minimal maintenance, a periodic clean can help maintain its beauty. Power washing with proper cleaning agents may enhance the results. Spray in the direction of grain pattern to avoid damaging it. Use with caution not to damage the material and always take proper safety precautions when operating a power washer.

Problem

Dirt or debris	Clean the decking to remove dirt or debris by using soap, hot water and a stiff bristle brush.
Mold & Mildew	Use conventional wood washes or cleaners that contain bleach and detergent.
Chalk Markings	All colored chalk lines are permanent except white. Scrubbing the area with hot soapy water with bleach may dislodge some of the chalk.
Ice, Snow	Calcium chloride or rock salt, available in many home centers, will melt ice on decking. Rinse off when first practical.
Water Spots	Clean with a deck cleaner containing Oxalic Acid. It is always best to test the cleaner on an inconspicuous or scrap piece of deck to make sure the cleaner does not harm the deck surface.
Oil & Grease Stains	Scrub in a household-degreasing agent as soon as the stain occurs. Rinse with hot water.
Berries and Wine Stains	Mix bleach into hot water according to the bleach-packaging label. Scrub the stain lightly and rinse thoroughly. The stain may not disappear entirely.
Ink Stains	Inks may be permanent. However, scrubbing with hot soapy water may lighten the stain. Rinse thoroughly.