

IBUILT™

Engineered Wood Products

ULTIM8DECK INSTALLATION GUIDE

July 2018

Installation guide

ULTIM8® Composite Deck is quick and easy to install. Please take the time to read the following guide to ensure long lasting enjoyment of your product before you begin installing the deck.

Important information

Wearing equipment to protect eyes, nose and mouth from dust particles such as safety glasses, gloves, a dust mask and long sleeves is especially important when cutting and drilling.

Drilling

All boards must be pre-drilled before screwing the boards. Pre-drilling and Countersinking tools can be supplied if necessary to suit the selected screw type. Please ensure not to penetrate the joist while pre-drilling.

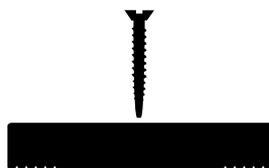
Screwing

Screwing with Grade 316 Stainless Steel 10g or 12g x 65mm screws is the recommended method of fixing ULTIM8 Composite Deck. Screws can be supplied on request.

Screws must be top fixed perpendicular (at a 90 degree angle) to the ULTIM8 Composite Deck boards. Ensure the head of the screw rests flush with the top of ULTIM8 Composite Deck boards. Do not over drive screws.

If alternative types of screws are used ensure pre-drilling holes that are at least 0.5 mm larger than the size of the screw shank.

Pre-drill and screw this side up:



Cutting

Saw blades with fewer teeth (18 to 24, on a 7" blade) stay cooler and last longer.

We recommend the use of carbide tipped blades and router bits or 20-grit diamond-tipped blades. When using a mitre saw, we recommend a 10"- 12" saw blade with 30 teeth or less.

Installing and fastening

As with all natural or composite product, ULTIM8 Composite Deck boards will expand and contract with changes in temperature.

Ensure adequate gaps are allowed for at installation with consideration to temperature. The ideal temperature condition for installing ULTIM8 Composite Decking is around 18-22°C.

Note expansion or contraction can be up to 2mm for every 10°C temperature change. It is recommended you measure and cut full lengths either side of the hottest part of the day.

A minimum side-to-side and end-to-end gap of 4mm is required based on installation at a temperature of 18-22°C. Butt joints must be staggered.

A clearance of min 15mm is required when abutting solid structures to allow for expansion. e.g. House cladding or retaining structures.

It is recommended that min 45mm wide joist framing be used, as this will allow for fastening 15mm min from the ends of ULTIM8 Composite Deck boards at butt joints. Additional joist support at butt joints is recommended to provide a greater fastening area and to avoid splitting the joist.

ULTIM8 Composite Deck should be fixed with 2 fasteners at every joist.

Health and safety

ULTIM8 Composite Deck boards are heavier and more flexible than traditional timber. We recommend that lengths of decking be carried on their side edges for increased support which will minimize breakages. Always exercise precaution and care when lifting ULTIM8 Composite Deck boards.

Due to the length and weight of each board (17kg per 5.4m Length), we recommend that ULTIM8 Composite Deck boards be safely handled by two people at any given time to avoid any possibility of injuries.

Compliance

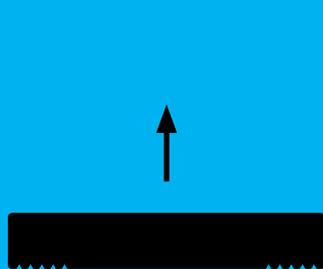
ULTIM8 Composite Deck products must be installed correctly, ensuring compliance with all the relevant regulations and aspects of the New Zealand Building Code, as well as any local regulations.

Proper ventilation and air circulation underneath the ULTIM8 Composite Deck is necessary to facilitate the evaporation of water and moisture. The recommended ground clearance is 100mm. The maximum joist spacing is 450mm.

Slight colour variation of ULTIM8 Composite Deck boards may occur in the same way natural timber does. The weathering process for ULTIM8 Composite Deck products will vary according to exposure to different climates, sunlight and moisture.

ULTIM8 decking should not:

- Be used as a structural or load bearing member.
- Be directly applied to a solid surface such as concrete.
- Be unsupported or cantilever at the ends. A maximum edge overlap of 30mm is acceptable to cover facing boards when used



Store and fix this side up:



Carry this side up:

Gaps and spans

ULTIM8 Composite Decking Gap and Span Table:

| | |
|--|-------|
| Residential centre-to-centre joist spacing (max) | 450mm |
| Min. ground clearance | 100mm |
| Min. side-to-side gap | 4mm |
| Min. end-to-end gap (butt join) | 4mm |
| Min. gap from side and end edge of board to solid structures | 15mm |
| Min. distance from side edge for fastening boards | 15mm |
| Min. distance from end edge for fastening boards | 15mm |
| Stainless steel (316) decking screws (pre-drill and countersink) | Yes |

Storage and handling

ULTIM8 Composite Deck boards must be:

- Supported at least every 600mm on a level surface.
- Laid flat during storage or transportation and never at an angle
- Must not be dropped or 'dumped' when unloading or carrying to site
- Stored on a flat, dry surface and at least 100mm off the ground
- Remain covered until time of installation

Maintenance

Regular cleaning to remove stains and debris of ULTIM8 Composite Deck is recommended. Cleaning ULTIM8 Composite Deck with a mixture of warm water mixed with a mild solution of sugar soap and a stiff bristle nylon brush is generally all that is required but household (non-abrasive) cleaners may also be used.

For tougher stains increasing the solution strength and rubbing along the grain with steel wool can help. Allow to dry and scrub with a little more water and a stiff bristle brush. Wash with clean water. Repeat if necessary for more stubborn stains.

Do not use a pressure washer with pressure exceeding 1500psi and closer than 30cm on ULTIM8 Composite Deck.

For detailed care and maintenance information, refer to the ULTIM8 Composite Deck Care and Maintenance Guide available at www.ibuilt.co.nz

Designed and tested
in Australia by:

mcx

innov8+crea8

NZWOOD

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