Foreverbeech™
90x23mm Decking
Technical Manual

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a healthy place.
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HEALTH BASED BUILDING™

Appendix

Content	Page
Cover Page	1
Appendix	2
Product Pack Pictures	3
Installation and Maintenance	4
Profile Dimensions and Fixing Positions	6
Screws	7
Durability document	8

Decorative appearance and features as per pictures above.

Percentage length spec per pack:
1.0m to 2.4m 40%
2.5m to 4.0m 52%
4.1m and over 8%

FOREVERBEECH DECKING
INSTALLATION AND MAINTENANCE

Before commencing deck construction confirm with your local council that the proposed deck complies with council regulations and that its design and construction methods are compliant with the New Zealand Building Code NZS 3602 and NZS 3604

INSTALLATION & STRUCTURE

1. **Ventilation**
   Failure to provide for suitable ventilation is a major cause of early deck timber failure. A minimum of 450mm above ground is required. It is important the perimeter of the deck is not fully enclosed and remains open to airflow. Completely enclosing the sides of the deck will inhibit ventilation and impact deck timber durability. The deck structure under the deck timber must be well ventilated to establish good cross ventilation. Cross ventilation reduces moisture levels in deck timbers, air below the deck timbers and moisture levels in ground below deck timbers. Other steps that can be taken to reduce moisture levels below deck timbers include ground level vapour barriers and in-ground water drainage systems. Please contact HBB via enquiries@healthbasedbuilding.com or 0800 611 711 if you are concerned your deck structure may impact deck timber durability.

2. **When installed correctly**

   Deck timber height above ground will be a minimum 450mm

   Fixings will be as per those included in the technical manual

   Holes for fixings will be pre-bored using drill type stated in the technical manual

   Holes for fixings will not be counter sunk with fixings finishing flush with deck timber

   Pre-boring the deck timber will not penetrate into deck structure

   Fixings spaced at 15mm in from deck edges and 20mm in from cut ends

   Minimum 4mm gaps between 90mm deck timbers and 6mm for wider boards

   Minimum 12mm gap between deck timbers enclosing deck structure

   No in-ground contact

   A minimum 12mm gap between deck edges to building surfaces

   Foreverbreathe exterior oil coating to both faces and all edges including cut ends

   A maximum 450mm joist spacing

MAINTENANCE

Decks should be cleaned with Foreverbreathe Oxygen Cleaner and a stiff brush at least twice per year to clear gaps and remove surface mould spore. Remove leaf litter and place pot plants or other large objects on raised feet to allow water to drain freely.

Decking can be water-blasted. It is important to use a low pressure system so as not to damage the deck surface. We recommend a circular movement low pressure system. Oil coatings can be reapplied once the deck timber has dried and is free of residual moisture.

Note: the timber can be left uncoated if the preference is to show a natural silvering appearance. Expect surface cracking.

Below: low pressure Karcher water blaster with circular brush attachment

STORAGE AND HANDLING

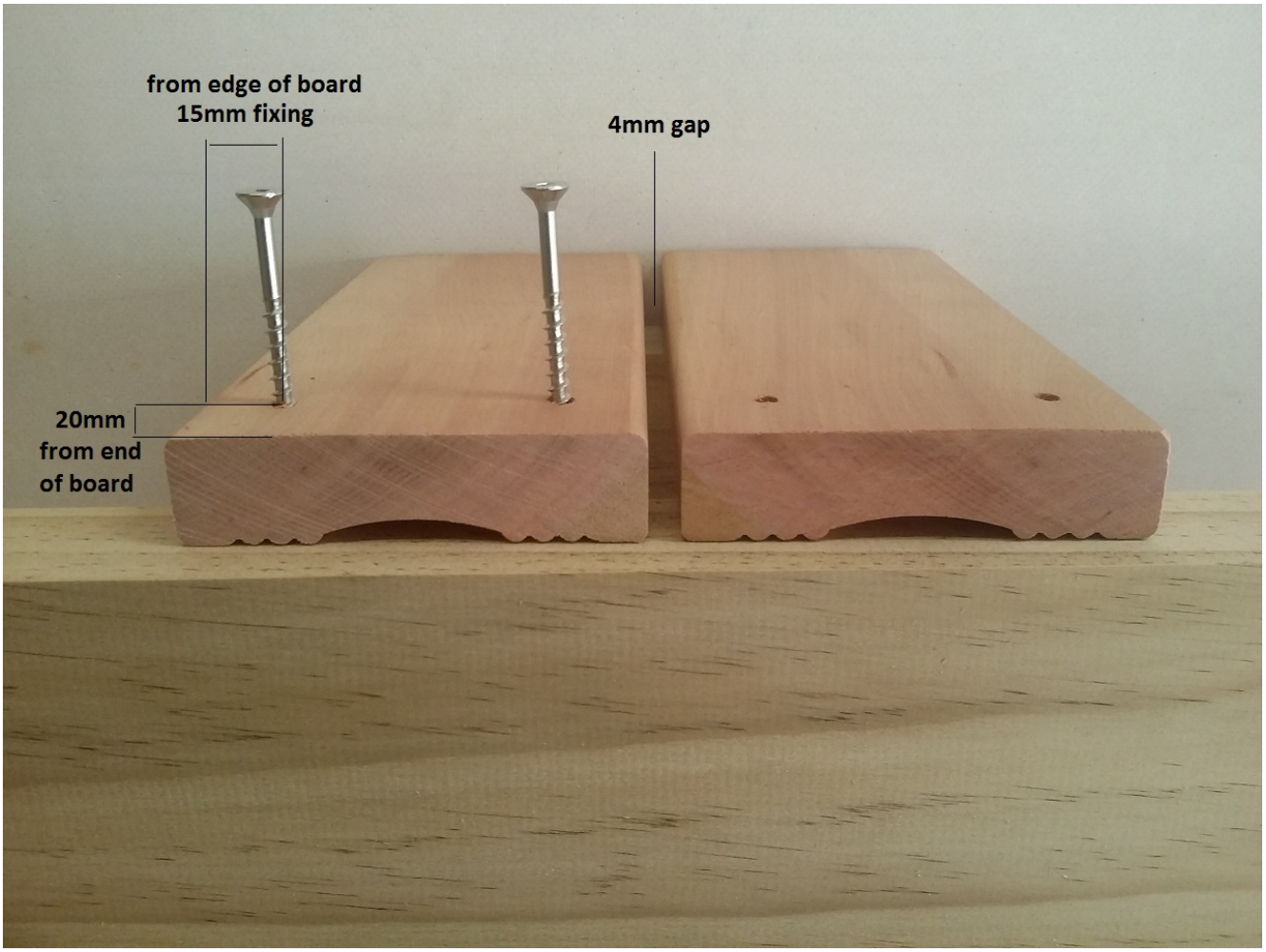
Foreverbeech decking should be kept dry and out of the weather until installation. On site each pack should be kept off the ground by at least 100mm by placing it on bearers and covered to protect from sun and rain.

TOOLS

Drill and drill bit. Pre-bore 5mm for 10G screws, 6mm for 12G screws.

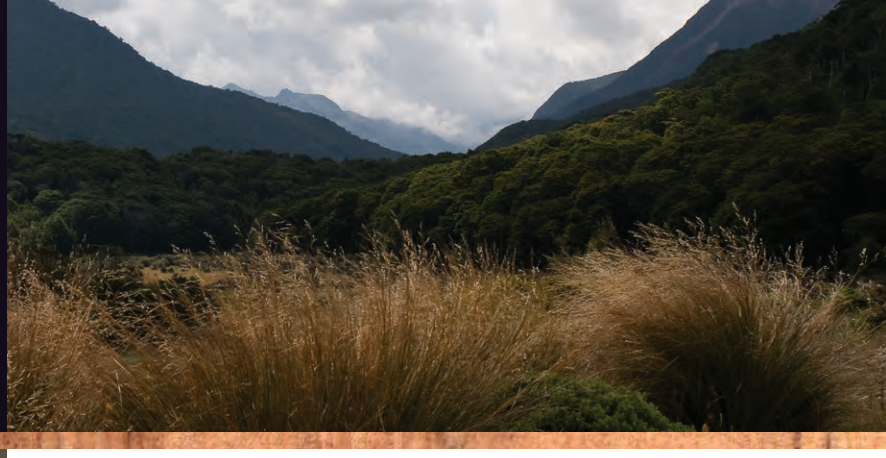
PROFILE DIMENSIONS AND FIXING POSITIONS

90mm wide decking



FOREVEBEECH 90mm DECKING SCREWS
65MM X 10G 316 SS - 500 PER BOX PRODUCT
CODE: SS65X10316

foreverbeech™



SUPERIOR NATURAL DURABILITY

EXTERIOR HEARTWOOD CLADDING & DECKING

foreverbeech Hardwood Timbers

Natural durability of beech timbers has long been understood within the scientific community. The New Zealand Forest Service first investigated durability and performance of beech (Nothofagus spp) in the 1960's. Considerable scientific research and publications on New Zealand beech timbers exists.

Sourced under strict sustainable forest management guidelines, Foreverbeech branded timber is the premier performing hardwood species available to the New Zealand market. Ownership of the harvesting, sawmilling, grading, kiln drying and profiling process connects a chain of custody to ensure only heartwood timber is involved in Foreverbeech cladding and decking.

New Zealand Red Beech and Hard Beech durability and suitability for external and internal building applications have been clarified by a comprehensive review of New Zealand Building Standards, published BRANZ reports, SCION / Ensis and www.nzwood.co.nz/forestry-2/red-beech/

Cladding and decking product can be found at www.healthbasedbuilding.com

	Red Beech Heartwood	Hard Beech Heartwood
NATURAL DURABILITY	CLASS 2	CLASS 2
HAZARD CLASS COMPARISON	H 3.2	H 3.2

Health Based Building

- Chemical free. The presence of natural extractives or polyphenols within beech timber provides durability and resistance to decay without the addition of chemicals or additives.
- Foreverbeech timbers are naturally resilient and not susceptible to attack by insects including borer beetle.
- Red and Hard Beech Heartwood has the best natural durability of commercially available timbers in NZ.
- Once dry, Foreverbeech is incredibly stable, offering superior durability, strength, wear and finishing characteristics.
- Red Beech is acknowledged to be the most stable dried timber in NZ.
- Red and Hard Beech Heartwood is recognised as equivalent to preservative treated timber of H3.2 NZS3602:2003.
- Forest Industry and Wood Products testing confirms that for Red and Hard Beech Heartwood installed away from ground contact but fully exposed to the weather, has an average durability exceeding 25 years.
- With some protection from weather and where timber is free to dry out after wetting, a life expectancy of up to 50 years is readily achieved.

MPI APPROVED TIMBER SOURCES™ · Sustainably Harvested · Traceability · Heartwood Guaranteed

Exclusive to:

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