

PHONESTAR TRI INSTALLATION GUIDE

V1.0 May 2024



Woodland Lifestyle

General and product information

PURPOSE

This guide is for the installation of Woodland Lifestyle PhoneStar Tri boards.

IMPORTANT DOCUMENTS

This guide must be read in conjunction with:

- › the PhoneStar Tri pass™
- › the PhoneStar Tri Specification guide
- › the PhoneStar Tri Care and Maintenance guide
- › the PhoneStar Tri details.

SKILLS REQUIRED

People with basic carpentry skills can use this guide. Where applicable, the person specifying or installing the PhoneStar Tri boards must be able to meet all RBW provisions.

FOR MORE HELP

For more information and technical support, visit [woodlandlifestyle.co.nz](https://www.woodlandlifestyle.co.nz).

While all reasonable efforts have been made to ensure the accuracy of information provided, please note that this guide is subject to change and should be considered as a guide only.

FOR OUR WARRANTY

Refer to [woodlandlifestyle.co.nz](https://www.woodlandlifestyle.co.nz).

SCOPE AND LIMITATIONS

For scope of use, limitations, conditions, and statement of NZ Building Code compliance, refer to the PhoneStar Tri pass™ [\[link to pass\]](#).

Pre-installation

HEALTH AND SAFETY

- › When cutting or drilling, ensure adequate ventilation or mechanical dust extraction.
- › Ensure proper support when cutting and nailing Woodland Lifestyle PhoneStar Tri boards.
- › Wear appropriate safety equipment: clothing, footwear, and eye protection.
- › Use all tools in accordance with relevant instruction manuals.
- › Keep tools sharp.
- › Plan and monitor a safe approach for working at height; select and use the right equipment.
- › Clear the work area of any obstruction before starting.

Further information can be found in the following documents:

- › *Small Construction Sites, the Absolutely Essential Health and Safety Toolkit* by WorkSafe. Available for download from <https://www.worksafe.govt.nz/topic-and-industry/building-and-construction/absolutely-essential-toolkit/>.
- › *Health and Safety at Work, Quick Reference Guide* by WorkSafe. Available for download from <https://www.worksafe.govt.nz/managing-health-and-safety/getting-started/health-and-safety-at-work-quick-reference-guide/>.

HANDLING AND STORAGE

Handling

Take care when transporting, handling, and storing PhoneStar Tri boards to avoid damaging the sheets/panels. Unload PhoneStar Tri boards manually and carry them on edge. If unloading mechanically, ensure there are at least two well-spaced supports or use a pallet to prevent excessive bending or sagging. When using a crane or hiab, consider using a spreader bar.

Should a board be punctured when transporting and/or handling, check to ensure the board has maintained its rigidity and repair with PhoneStar Tape.

Storage

Storage is critical. Failure to follow these requirements could result in poor performance or appearance of the product.

PhoneStar Tri boards are to be stored exclusively indoors, lying flat in a dry and frost-free place protected against sunlight.

The PhoneStar Tri boards must be protected from the sun when in storage or being laid in order to avoid minimal shrinkage that could result in open joints and warping effects.

Stack PhoneStar Tri boards on a flat, dry surface. Products and systems are to be protected against increased humidity, e.g., during the drying of plaster and screed.

TOOLS AND EQUIPMENT REQUIRED

Use standard carpentry tools and equipment to install the Woodland Lifestyle PhoneStar Tri boards, including a straight edge jigsaw with ceramic blade and a circular saw with widia blade and dust extraction.

Follow good trade practice and the supplier's instructions when using the tools.

Installation as a sound-insulating flooring underlay

STEP 1 BUILDING CONSENT DOCUMENTATION

Access and view building consent documentation if applicable.

STEP 2 CONFIRM THE SCOPE

Confirm the proposed use is within the scope and limitations of the pass™.

STEP 3 CHECK RELATED BUILDING WORK

Confirm the primary structure complies with the Building Code or, for an existing building, that it is suitable for the intended building work.

Confirm joist spacing and spans are in accordance with:

- NZS 3604:2011: Timber-framed buildings, or
- NASH Standard Part 2:2019 Light steel framed buildings, or
- AS/NZS 1170 Structural design actions.

For a concrete flooring, ensure the floor is in accordance with NZS 3101:2006 and cured for a minimum of 28 days.

Confirm that the framing and substrate are straight and true and within the specified tolerances outlined in NZS 3604:2011 *Timber-framed buildings*, Section 10; NASH Standard Part 2:2019 *Light Steel Framed Buildings*, Section 6; and NZS 3114:1987 *Specification for concrete surface finishes*, Section 2.5. Ensure evenness tolerance is maximum 3 mm over 2 m.

Confirm a vapour barrier or damp-proof membrane is installed if required.

Where applicable, select a suitable flooring substrate.

For an existing floor out of plane or out of level, a liquid-applied self-levelling compound may be applied. Installation in an existing building requires removal of doors and floor coverings. Confirm there is enough room for the added height of PhoneStar Tri boards and the selected finished flooring product. Cut architraves and door jambs to the finished floor height.

STEP 4 PREPARATION

Due to the materials, PhoneStar Tri boards require acclimatisation for 24 hours prior to installation to avoid warping or expansion/shrinkage. Dividing PhoneStar Tri boards into small piles will shorten the acclimatisation time.

Clean and vacuum the substrate prior to installing the boards. The substrate must be clean, dry, free from separating layers of all kinds, and dust-free.

STEP 5 INSTALL THE WOODLAND DECOUPLING FLEECE

Where the installation includes Woodland decoupling fleece, lay the fleece as follows:

Decoupling fleece laid floating on the substrate

The Woodland fleece is laid floating on the substrate. For laying, the substrate must be clean, dry, and free from separating layers of all kinds. Cut the Woodland fleece to the appropriate length and lay it floating on the substrate. Each subsequent web is butted against the previously laid web edge to edge. Gaps between the webs are to be avoided. The webs must not overlap. Avoid cross joints. Maintain an offset of at least 100 mm.

STEP 6 INSTALL THE PHONESTAR TRI BOARDS

Install an edge insulation strip to the base of the wall. Ensure this is of sufficient height (above the final floor covering). Ensure clean corner formation. The self-adhesive edge insulation strip must be butt-jointed in the corner and masked in the case of wet screeds. The overlaying part of the edge insulation strip should only be removed once the final upper covering has been put into place.

In the event PhoneStar Tri boards need to be adjusted, cut them to the appropriate length/form with a circular saw or a jigsaw. Tape the cut edges immediately after cutting the board with PhoneStar tape.

Install the PhoneStar Tri boards in a staggered stretcher bond manner with each other offset by at least 100 mm. Edges must be tightly placed next to each other. Place the PhoneStar Tri boards in the space with the visible side up (visible side: side with label and corrugated board surface).

Critical points, such as uneven PhoneStar Tri boards, must be weighed down when being glued down.

When installing multiple layers of PhoneStar Tri boards, ensure that the butt joints of the first layer are fully covered. The second layer of boards must be adhered to the first layer. Apply adhesive to the underside of the board (side without label and smoother surface). Apply adhesive along the outer edges approximately 10 to 20 mm from the edge of the board and across the entire board surface in intervals of approximately 100 mm. After the adhesive has been applied, place the PhoneStar Tri boards on to the first layer and press them down. Begin the first row of the second PhoneStar Tri board layer with half a PhoneStar Tri board or with a board rotated by 90° in relation to the first layer. Then complete the row with PhoneStar Tri boards halved in length or continue to install the boards rotated by 90° accordingly. Continue with the further installation with whole PhoneStar Tri boards.

Allow a 4 mm gap at the junction of wall to floor or ceiling to wall.

Alternatively, PhoneStar Tri boards can be adhered directly to the substrate when the Woodland Fleece is not used. Apply adhesive to the underside of the board (side without label and smoother surface). Apply adhesive along the outer edges approximately 10 mm to 20 mm from the edge of the board and across the entire board surface in intervals of approximately 100 mm. After the adhesive has been applied, place the PhoneStar Tri boards on the subsurface and press them down.

STEP 7 INSTALL WOODLAND DECOUPLING PLATE

Where the Woodland decoupling plate is specified, it must be installed by full-surface bonding to PhoneStar Tri boards.

For the installation, the surface must be clean, dry, and free from separating layers of all kinds.

The decoupling plates are cut to size using a hand-held circular saw or a jigsaw.

Apply the adhesive to the complete surface of the PhoneStar Tri boards using a notched trowel. Apply adhesive only to the area being processed. Install the decoupling plate into the adhesive bed with a slight pushing movement and press down over the entire surface. Butt the decoupling plates against one another and offset them in half drop from row to row to avoid cross joints.

When installing the decoupling plate, care must be taken to ensure that the butt edges are not directly above the butt edges of the PhoneStar Tri boards. The butt edges must be offset by at least 100 mm.

Drying time of at least 24 hours is required and as per the adhesive manufacturer's requirements.

Following laying of the decoupling board, it must be protected against construction site traffic and dirt until the final covering is installed.

STEP 8 INSTALL THE SELECTED FLOOR COVERING

Install the selected floor covering in accordance with the supplier's instructions.

In areas with high moisture loads (e.g., bathrooms), ensure full-surface sealing is carried out in accordance with building consent and design specifications. See Woodland approved waterproofing membranes at woodlandlifestyle.co.nz.

STEP 9 COMPLETION

Check to ensure all components are installed correctly and in accordance with this document.

Installation as a sound-insulating wall panel or ceiling panel

STEP 1 BUILDING CONSENT DOCUMENTATION

Access and view building consent documentation if applicable.

STEP 2 CONFIRM THE SCOPE

Confirm the proposed use is within the scope and limitations of the pass™.

STEP 3 CHECK RELATED BUILDING WORK

Confirm the primary structure complies with the Building Code or, for an existing building, that it is suitable for the intended building work.

Confirm framing spacing is in accordance with:

- NZS 3604:2011: Timber-framed buildings, or
- NASH Standard Part 2:2019 Light steel framed buildings, or
- AS/NZS 1170 Structural design actions.

Confirm that the framing is straight and true and within the specified tolerances outlined in NZS 3604:2011 *Timber-framed buildings*, Section 10 or NASH Standard Part 2:2019 *Light Steel Framed Buildings*, Section 6.

PhoneStar Tri boards can be:

- fixed directly to masonry and concrete
- fixed directly to lightweight steel or timber framing
- fixed to 16 mm channels that are fixed to structure
- fixed to 16 mm channels that are fixed to 45 mm x 45 mm battens with fibreglass or wool insulation.

Confirm 45 mm x 45 mm battens are installed if specified or required.

Confirm fibreglass or wool insulation is installed if specified or required.

Install 16 mm channels to the battens or timber framing if specified or required.

PhoneStar Tri boards can be direct-fixed to a substrate in:

- single layer
- two layer.

Mounted on a stud wall (timber or metal):

- single layer/one side
 - two layer/one side
 - single layer/two sides
 - two layer/two sides.
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STEP 4 PREPARATION

Due to the materials, PhoneStar Tri boards require acclimatisation for 24 hours prior to installation to avoid warping or expansion/shrinkage. Dividing PhoneStar Tri boards into small piles will shorten the acclimatisation time.

STEP 5 INSTALL PHONESTAR TRI BOARDS

In the event PhoneStar Tri boards need to be adjusted, cut them to the appropriate length/form with a circular saw or a jigsaw. Tape the cut edges immediately after cutting the board with PhoneStar tape. Boards must be cut for a firm fit, as gaps will transmit sound.

Install the PhoneStar Tri boards horizontally in a staggered stretcher bond manner with each other offset by at least 100 mm. Edges must be tightly placed next to each other. Place the PhoneStar Tri boards in the space with the visible side out (visible side: side with label).

Allow a 4 mm gap at the junction of wall to floor or ceiling to wall.

Fix boards with standard drywall screws.

Seal gaps with acoustic sealant.



STEP 6 INSTALL THE SELECTED WALL OR CEILING COVERING

Install the selected wall or ceiling covering in accordance with the supplier's instructions. As with the PhoneStar Tri boards, a 4 mm gap must be left at the junction wall to floor or ceiling to wall. Seal the gaps with acoustic sealant.

STEP 7 COMPLETION

Check to ensure all components are installed correctly and in accordance with this document.
