



INSTALLATION AND MAINTENANCE GUIDE

SECTION 1 DECKING & DRYSPACE™

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TimberTech

DECKING AND DRYSPACE

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Dear Valued Customer...

TimberTech would like to thank
you for your interest in our
decking products.
Our aim is to provide excellent
customer service with unrivalled
product quality.

TimberTech focuses on quality, innovation and brand in all that we do. With an assortment of boards, industry leading railing systems and numerous accessories, building beautiful decks has never been easier.

TimberTech is committed to providing builders and professional deck installers with exciting new products as well as providing supporting material for the professional to help differentiate themselves in the marketplace.

TimberTech decking boards are available nationally in the UK and are backed by a 25-year limited residential warranty (10 year commercial).

TimberTech has compiled this Maintenance Guide to provide a thorough resource for technical information and installation instructions for our deck boards, DrySpace™ deck drainage system and our railing systems.

To receive further information on other TimberTech products visit www.timbertechuk.co.uk or call 029 2037 1584.

TimberTech covers the alternative decking market

With a variety of product offerings, from edeck and Reliaboard to VertiGrain to the aesthetically pleasing Earthwood EasyClean and Earthwood EasyClean Legacy, TimberTech covers all decking possibilities. With deck boards that offer fastening choices, revolutionary colour choices, and riser board to match, you can give your TimberTech deck the truly professional finished feel that you want.

This installation guide will direct you through the process of installing TimberTech deck boards. Most installers will find this process similar to the installation of a wood deck. However, there may be areas that differ from what you are used to.

These installation methods are recommended by TimberTech, but they may not cover every installation scenario you may encounter. Since each installation is unique in its performance requirements, the ultimate installation method used is the sole responsibility of the installer.



TimberTech recommends that all designs be reviewed by a licensed architect, engineer or local building official before installation. Make sure your plans meet building regulations before you begin the installation.

Do you need help with your installation?

TimberTech strives to provide the very best service to our customers. We have an excellent customer service team that is here to help you with your installation questions.

If you need help you can call customer services at 029 2037 1584 or visit www.timbertechuk.co.uk



Tools Required

TimberTech boards can be installed with a minimum number of readily available tools. However, many other tools are available that can provide even greater efficiency and ease of installation.

All tools should be used per applicable manufacturers' instructions

All tools should be used per applicable manufacturers' instructions. Some of the basic tool requirements:

- Impact Driver
- Carpenter Square

Chalk Line

- Spacing Tools
- Tape Measure
- Circular Saw

Jig Saw

Safety Glasses

Spirit Level

Use the jigsaw to cut around obstructions such as posts. A power mitre saw can also be very helpful during installation. When cutting boards with a hand held circular saw it is recommended that a thin kerf 40-tooth alternate top bevel finish blade be used to achieve the cleanest cuts. For a power mitre or compound power mitre saw a fine finish alternate top bevel blade is also recommended.

When working with TimberTech products be sure to wear proper clothing and safety equipment. Safety glasses should be used during the entire installation process.



Stop! Read before you start!

Directional Graining — TimberTech's grained surface on edeck, Reliaboard, VertiGrain, Earthwood and Riser boards is directional in manner. A notch has been added to one edge of the boards. When installing boards, this marked edge must be laid to the same side for the entire installation for a consistent appearance. Similarly, TimberTech's Riser board has one long beveled edge on the front and back. To ensure a consistent appearance from board to board, the beveled edge must be laid to same side. If you rip a piece be sure to note the location of the bevel. See individual board installation instructions.

Static Electricity – Static build-up is a natural occurring phenomenon and is normal in many polymer products. It could occur with TimberTech products under the certain environmental conditions.

Cantilevering — edeck, Reliaboard, Earthwood EasyClean, VertiGrain and Earthwood EasyClean Legacy boards can be cantilevered a maximum of 25mm. Colour and Grain Patterns — Our wood-polymer composite deck boards are designed to mimic the look of real wood, and like real wood, there will be a slight difference in colour and grain pattern from board to board. This is intentional and part of the manufacturing process, giving TimberTech wood-polymer composite decking the most realistic and wood-like appearance possible. This variation is purely aesthetic and does not or will not affect the performance of the product. You can be sure that TimberTech deck boards are designed and manufactured to high industry tolerances.

Our deck boards are designed to naturally weather over time. Most of the weathering process will be complete within the first year of the deck's life.

Safety — TimberTech offers products that meet with the American Disabilities Act standards for slip-resistant walking surfaces, and unlike traditional wood, TimberTech is splinter-free.

See timbertechuk.co.uk for more information.

Note — TimberTech is NOT intended for use as columns, support posts, beams, joists or other primary load-bearing members.

TimberTech must be supported by a compliant substructure.





Calculating Material Requirements

To determine how much TimberTech decking material you will need, start by calculating the area of your deck surface by multiplying length by width. Once you know this number, divide it by the numbers provided below for 3.6m and 4.8m boards.

When calculating the amount of decking you will need, it is recommended that you add roughly 5% to the total for a scrap factor.

edeck, Reliaboard, VertiGrain and Earthwood EasyClean and Earthwood EasyClean Legacy

Once you know the m^2 area, divide it by 0.51 for 3.6m boards and 0.67 for 4.8m boards.

Example: Length x Width = Total m²

 $M^2 \div \text{ by } 0.51(3.6\text{m}) \text{ or } 0.67 \text{ (4.8m)} = \text{Boards Needed (round the number up)}$

Boards Needed + 5% (Scrap Factor) = Final Number of Boards Needed (round the number up)

If you are attaching the boards at an angle (diagonal to joists), you will likely generate more scrap from cutting, so more material will most likely be required. A drawing to scale may help you determine how much more board material will be required or consult TimberTech.

Working With TimberTech Boards

Expansion and Contraction

TimberTech deck boards have minimal expansion and contraction with changes in temperature. Expansion and contraction are most significant where extreme temperature changes occur. Fastening the deck boards according to installation instructions minimizes the expansion and contraction.

Gapping Requirements for all TimberTech Boards

- Gap boards 3mm to 5mm side to side.
- Follow these butt joint gapping guidelines for all TimberTech boards:

| Below -1° celcius (30° F) | 5mm Gap | |
|------------------------------------|---------|--|
| -1° to 23°celcius (30° F to 74° F) | 3mm Gap | |
| Above 24° celcius (75° F) | 1mm Gap | |

 Allow 5mm minimum gap where the boards meet an adjoining structure or post.



Fastening Methods

TimberTech Riser Boards

Using screws with proper installation of TimberTech Riser boards provides the best long-term holding. TimberTech recommends the use of TimberTech TOPLoc™ Fascia Screws for best results. Refer to gapping requirements on page 5 for correct installation.

For use with TOPLoc™ Fascia Screws

• Using the TOPLoc[™] Fascia Bit, pre-drill 50mm from the top and bottom alternating a maximum of 300mm. It is recommended that screws are evenly spaced for the best look.



- Set Riser in place being sure to follow proper gapping requirements.
- Drive TOPLocTM fascia screws into the riser surface so that the screw head is flush with the surface. Do not completely torque down screw: screw should serve as a hanging mechanism to allow for expansion and contraction in the Riser. This will help to prevent any undesired consequences to movement in the Riser.
- Continue fastening in pattern described being sure to work left to right or right to left. This will ensure flatness in the Riser.

TimberTech Solid Boards (ungrooved edge)

Pre-drilling is required when within 38mm of the ends of the board and in cold weather. The preferred fasteners are high-quality coated TOPLoc[™] deck screws. Fasteners should be installed perpendicular to the deck and driven flush: do not overdrive.

edeck, Reliaboard, VertiGrain, Earthwood EasyClean and Earthwood EasyClean Legacy: TimberTech recommend 63mm TOPLoc™ high quality coated deck screws (We recommend always pre-drilling a 4mm pilot hole).

If nails are to be used, use stainless steel or high-quality coated nails. Small headed ring shank or casing nails provide minimal fastener exposure.

Extreme caution must be used. Do not overdrive the nail — it could cause the boards to split – especially at the ends. Nails should be driven so that the head is flush with the board surface.

Nails offer time savings but may loosen over time with the expansion and contraction of the entire deck system (joist and boarding). This may cause the nails to pop up from the deck surface, which will require re-setting the nails. Protruding nail heads are one source of the most common injury to bare feet on decks.

Fastener Mushrooming: The use of composite deck screws can reduce this effect. If mushrooming occurs, lightly tap the material back into the hole of all boards, except Earthwood EasyClean and Earthwood EasyClean Legacy. TimberTech recommend drilling a 4mm pilot hole to avoid 'mushrooming' of the material around the screw head. This provides a much neater finish.

TimberTech Grooved Boards

edeck, Reliaboard, VertiGrain, Earthwood EasyClean and Earthwood EasyClean Legacy Grooved Boards:

Use TimberTech CONCEALoc® HiddenFasteners. Follow the directions on the CONCEALoc® box.

Contact TimberTech on 029 2037 1584 for guidance if fixing directly into steel.

Fasteners Required Per Square Metre (face fix)

Solid Board/Face fix

| edeck | 40 |
|----------------------------|----|
| Reliaboard | 40 |
| VertiGrain | 40 |
| Earthwood EasyClean | 40 |
| Earthwood EasyClean Legacy | 40 |

- See individual board installation instructions for the recommended fasteners.
- Refer to fastener manufacturer's instructions for installation.
- See instructions for CONCEALoc® Hidden Fasteners on page 10 for required number of fasteners required if using the hidden fastening system with grooved boards.

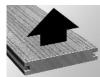
edeck

Brushed side up





VertiGrain Woodgrain side up



Grain side up

Grain side up







TIMBERTECH® SOLID BOARDS

Earthwood EasyClean®, Earthwood EasyClean Legacy®, VertiGrain®, Reliaboard and edeck®

Fastening Guidelines for Solid Boards

- Pre-drilling is required when within 38mm of the ends of the board and in cold weather.
- When applying screws, a raised area of material or mushroom effect
 may form around the head of the screw. This material may be
 tapped back into the hole of all boards, except Earthwood EasyClean
 and Earthwood EasyClean Legacy boards. TimberTech recommend
 drilling a 4mm pilot hole to avoid 'mushrooming' of the material
 around the screw head. This provides a much neater finish.
- Do not use glue or caulk to fasten TimberTech boards or to seal the
 joint between two boards and any other surface. This will inhibit the
 natural expansion and contraction of the boards and will impede
 the drainage of the deck.

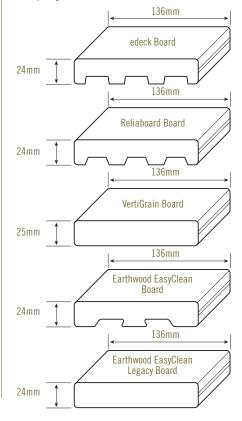
edeck, Reliaboard, Earthwood EasyClean, VertiGrain and Earthwood EasyClean Legacy:

Use TOPLoc $^{\mbox{\scriptsize TM}}$ screws, two at each joists.

Standard Joist Spacing

| All TimberTech boards | | | |
|-----------------------|-----------|-----------|-----------|
| | 90° Angle | 30° Angle | 45° Angle |
| 490 kg/m ² | 400mm | 350mm | 300mm |
| | | | |

Special conditions will require an engineering inspection and/or reduced spans. Always consult building regulations. Maximum stair joists (stringer) spacing for decking boards is 300mm on-centre. Make sure there is at least one stringer for support in the middle of the stair opening.



Important Information

- For use in areas with minimal obstructed continuous airflow such as roof and on-grade applications use a minimum 38mm joist system supported by the substructure over which the deck is built (generally 50mm is the preferred joist for this type of install).
- To aid water run-off the deck should slope 12.5mm for every 2.4m away from the house.

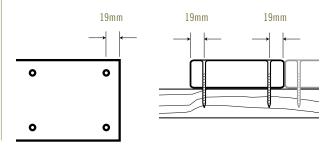
Installation Instructions

Install from the outside edge of the deck toward the house so the ripped board is less noticeable.

- Drill a 4mm pilot hole
- Fasten 19mm from the outside edge and end of each board, using two screws per joist.
- Pre-drill to fasten ends of boards to avoid splitting.

For gapping requirements see page 5. The ends of the boards must fall on a joist. It is strongly recommended that framing members at butt joint locations be doubled up for added fastening surface.

 Rip last board as needed to fit. Install fasteners perpendicular to board surface and drive flush. Do not overdrive or splitting may occur.





TIMBERTECH® SOLID BOARDS

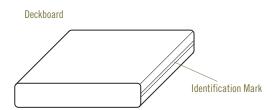
Earthwood EasyClean®, Earthwood EasyClean Legacy®, Vertigrain®, Reliaboard and edeck®

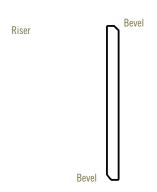


Directional Graining

edeck, Reliaboard, Earthwood EasyClean, VertiGrain and Earthwood EasyClean Legacy

TimberTech's grained surface is directional in manner. A notch has been added to one side of the boards. When installing boards, this marked edge must be laid to the same side for the entire installation for a consistent appearance. The Riser board has one long edge beveled on the front and back. To ensure a consistent appearance from board to board when installing the Riser, the beveled edge must be laid to the same side. If you rip a piece of Riser be sure to note the location of the bevel on the ripped piece to ensure consistency.



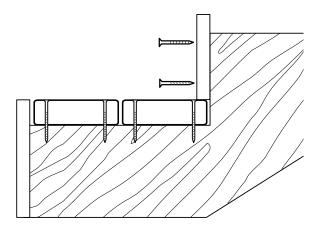


Stairs

TimberTech does not recommend installing boards on steps without a riser hoard.

- Ensure the step tread is at least the depth of two full boards plus a 3mm to 5mm gap between boards (280mm front to back).
- Ensure there is at least one stair stringer for support in the middle of the stair span. Maximum stringer spacing for stairs is 300mm centres.
- Attach a Riser board to the front of the bottom step.
- Leave a 5mm gap between the boards and any other surface including rail posts.
- Place the Riser board directly on top of the last board installed for the previous step to create the next step.

Repeat the process above.



Installing Riser boards

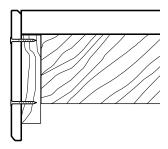
Using screws with proper installation of TimberTech Riser boards provides the best long-term holding. TimberTech recommends the use of TimberTech TOPLoc™ Fascia Screws for best results. Refer to gapping requirements on page 5 for correct installation.

For use with TOPLoc™ Fascia Screws

 Using the TOPLoc[™] Fascia Bit, pre-drill 50mm from the top and bottom alternating a maximum of 300mm. It is recommended that screws are evenly spaced for the best look.



- Set Riser in place being sure to follow proper gapping requirements.
- Drive TOPLoc[™] fascia screws into the Riser surface so that the screw head is flush with the surface. Do not completely torque down screw; screw should serve as a hanging mechanism to allow for expansion and contraction in the Riser. This will help to prevent any undesired consequences to movement in the Risers.
- Continue fastening in pattern described being sure to work left to right or right to left. This will ensure flatness in the Riser.





TIMBERTECH® GROOVED BOARDS

Earthwood EasyClean®, Earthwood EasyClean Legacy®, VertiGrain® and Reliaboard with CONCEALoc® Hidden Fasteners

Showcase and preserve the beauty of your deck with CONCEALoc® Hidden Fasteners.

Coverage

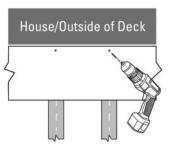
- To cover approximately 9.3 m² of decking at joist centres of 400mm.
 Each pack contains 175 CONCEALoc Fasteners and 183 screws.
- CONCEALoc Hidden Fasteners are available by the box (9.3 m² cover), bulk packs that cover 93m² or with the screws collated in a 46m² pack (requires a CONCEALoc gun).

Important Information

- Warning! Parts have sharp points and edges. Use caution when handling and installing. Wear safety glasses at all times.
- For use in areas with minimal obstructed continuous airflow such as roof terraces a minimum 38mm joist system supported by the substructure over which the deck is built is required (although generally 50mm is mainly used).
- To aid water run-off the deck should slope 12.5mm for every 2.4m away from the house.

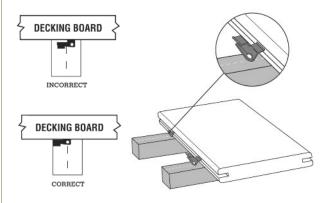
1 Install the First Board

 Pre-drill with 4mm drill bit and fasten outer edge of the first board at each framing support 25mm from the edge using TOPLocTM high-quality coated deck screws.



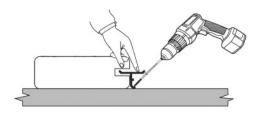
2 Position CONCEALoc® Fasteners

Fully insert the CONCEALoc® fastener into grooved edge of board.
 Screw hole should be lined up with the centre of support joist.



3 Install CONCEALoc® Fasteners

- Using an impact driver, drive the screw at 45° angle through the fastener and into the joist while applying pressure on the fastener.
- Install one fastener and screw at each joist.
- Make sure fastener is in full contact with edge of board and the screw is holding the fastener down tight to the deck board.
- Screw hole should be lined up with the centre of the joist.



4 Complete Installation

- Place the next board into position against the fasteners. Slightly
 raise the outer edge of the board being installed and slide it onto the
 fastener until the board contacts the spacer.
- Tap into place with a rubber mallet.
- The last board will need to have the outside edge attached using the method described in Step #1. It may be necessary to rip the last board to fit.



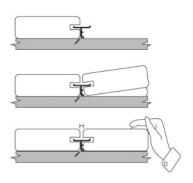
TIMBERTECH® GROOVED BOARDS





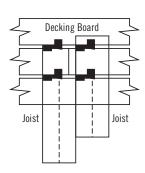
5 Proper Gapping

- Check the gap between the boards for consistency it will be between 3mm to 5mm.
- · Repeat previous steps until deck is complete.



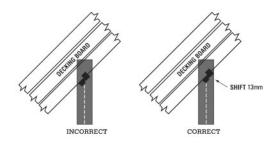
6 How to Install CONCEALoc® at Butt Joints

- Joists must be doubled up at butt joints for proper fastener attachment.
- Install CONCEALoc® and screw at each joist of the first board including the joist at the joint.
- Install second board in the same fashion and place a second fastener at the joint attaching it to the framing block.



How to Install on Diagonal

- When the deck is located in a corner of the house, start with small triangular piece of decking in the corner and work your way out.
- Offset the centre 13mm towards the long point of the joist, so screw will not exit the side of the joist when driven.



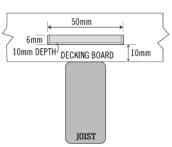
8 Allowing Rainwater to Drain Under Your Deck

• To aid water run-off the deck should slope 12.5mm for every 2.4m away from the house.

9 How to Replace a Board

- Make two parallel cuts down the centre of the board to be replaced, then remove the centre piece.
- Using a small pry bar, remove the remaining pieces of decking from the tabs.
- Using a reciprocating saw, remove the tabs on the side of the board with the screw heads showing.

- Position new board into place, and drive onto remaining tabs.
- Once the board is set into position, secure the loose edges with TOPLocTM high quality coated deck screws.



10 To use CONCEALoc® Hidden Fasteners with TimberTech Solid (ungrooved edge) Boards

- Create a 50mm long groove on the edge of the board at every joist.
- Use a 6mm slot cutting bit (Freud model #56-112, Bosch #85610M).
- Flip the board over and start the groove 10mm off the bottom of the board.
- Set the depth of the cut to a minimum of 11mm.

Note: Be sure to ID the side of the board that has the directional V-notch; the boards with IDs should be installed to the same side. See Directional Graining on page 9.

Do Not Use CONCEALoc® Hidden Fasteners for Stair Installation



TRIMMING A TIMBERTECH® DECK

TimberTech Riser Boards

Riser Boards

- Cedar, Grey, Slate, Chestnut, Silver Maple, Brown Oak, Tigerwood, Pecan and Mocha.
- 3.6m lengths 14mm thick by 184mm wide.

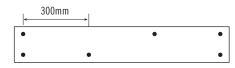
Fastening Methods

TimberTech Riser Boards

Using screws with proper installation of TimberTech Riser boards provide the best long-term holding. TimberTech recommends the use of TimberTech TOPLoc™ Fascia Screws for best results. Refer to gapping requirements on page 5 for correct installation.

For use with TOPLoc™ Fascia Screws

 Using the TOPLocTM Fascia Bit, pre-drill 50mm from the top and bottom alternating a maximum of 300mm. It is recommended that screws are evenly spaced for the best look.



- Set Riser in place being sure to follow proper gapping requirements.
- Drive TOPLoc[™] fascia screws (at right angle) into the Riser surface so that the screw head is flush with the surface. Do not completely torque down screw; screw should serve as a hanging mechanism to allow for expansion and contraction in the Riser boards. This will help to prevent any undesired consequences to movement in the Riser boards.
- Continue fastening in pattern described being sure to work left to right or right to left. This will ensure flatness in the Riser.

Steps

For steps we recommend the deck board tread is cantilevered over the vertical riser as shown below.





CARE & CLEANING



With proper installation and care, TimberTech products will provide years of outdoor living pleasure.

Storage

Store TimberTech products under cover to maintain a clean surface. If stored outdoors, they must be covered with a non-translucent material.

- All products should be stored flat and on a dry surface.
- Stack units with banding and bottom supports aligned.

Handling

Although all TimberTech boards are made with low-maintenance materials, each board's unique features require special care and handling, ensuring lasting beauty.

To maintain the beauty of TimberTech products please follow these important guidelines when moving and working with TimberTech:

- Never dump TimberTech materials when unloading.
- When carrying TimberTech boards, carry on edge for better support.
- Do not slide boards against each other when moving them. When removing them from the unit, lift the boards and set them down.
- Do not slide tools or drag equipment across the top of the boards during construction.
- Keep the surface of the boards free of construction waste to prevent damage to the boards.

Discarding Scrap Product

Scrap can be discarded with normal construction debris.

Care & Cleaning

Basic Cleaning Recommendations

Although TimberTech products are low-maintenance, TimberTech recommends periodic cleaning of your deck to help maintain the beauty of the product.

A power washer can be used when cleaning TimberTech products. The recommended maximum pressure is 1500 psi for TimberTech decks. A fan tip nozzle should be used along with the proper cleaning product. Spray in the direction of the grain pattern to avoid damaging the product. Use caution not to damage the material and always take the proper safety precautions when operating a power washer.

To remove product identification printing from the side or bottom of a TimberTech deck board use Isopropyl Alcohol (rubbing alcohol).

Ice and Snow

For ice removal, either rock salt or calcium chloride may be used without damage to the surface. However, either of these products may leave a white residue, which can be removed by either rinsing with water or with a mild soap/water solution.

Painting/Staining/Sealing

Although not recommended, TimberTech products may be painted or stained. TimberTech does not guarantee the performance of anything applied to the product.

Wait approximately 8-10 weeks or until the product has completed its weathering process before painting or staining. Clean your TimberTech surface prior to applying paint or stain. Never paint or stain over surfaces that may contain dirt, or mildew. Always apply paints and sealers in accordance with the manufacturer's application instructions.

Dirt. Grime. Tannin and Mildew Stains

TimberTech products are formulated to inhibit mildew growth and minimize staining. Rinse off your TimberTech products periodically with a hose. Even if it appears clean, it is important to prevent build-up of pollen/debris. Mildew stains may occur where moisture, pollens, and/or dirt are present. Mildew needs a food source to grow, which can be grass, pollens, dirt, debris, wood and wood resins.

Maintaining a clean, dry surface is the best method for combating mildew. Ensure that water drains effectively from your deck. Be sure that gaps exist between boards to allow for drainage.

Deck reviver is available from TimberTech. Call 029 2037 1584 for further information.





Like any wood-based product, TimberTech's wood-polymer composite products may experience a naturally occurring process called Extractive Bleeding (sometimes called tea staining). This process may cause a temporary discoloration that will weather away. In most cases the weathering process takes 8-10 weeks but could vary depending on location and specific product application such as a covered porch.

If the stains have set on edeck, Reliaboard or VertiGrain, you may want to use fine sandpaper and sand lightly followed by a wire brush to re-grain the decking. Always follow the wood grain finish of the board. The sanded area will weather back in approximately 8-10 weeks but can very depending on location and specific application.

Do not apply this method to Earthwood EasyClean or Earthwood EasyClean Legacy boards.

Spot Stains

Many stains can be cleaned with soap and water. Areas cleaned may lighten; this will require 8-10 weeks exposure to the sun to match the remaining product. For information on stain cleaners, call TimberTech on 029 2037 1584.

Scratches, Nicks, Cuts and Grooves

edeck. Reliaboard and VertiGrain boards and Riser boards

Scratches, nicks, cuts and grooves can be eliminated by using a wire brush. Brush in the direction of the grain of the product. The brushed area will weather back in approximately 8-10 weeks.

Earthwood EasyClean and Earthwood EasyClean Legacy

Do not use a wire brush on these products. Surface scratches and abrasions on these products will fade after weathering.

TIMBERTECH® DRYSPACE™

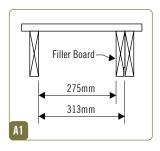
Deck Drainage System

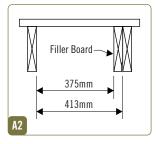


DrySpace is a revolutionary deck drainage system that collects the water that falls between the gaps in the boards and channels it away, leaving a virtually dry and functional space below.

Important Information

- DrySpace is designed for decks with 300mm and 400mm on centre joist spacing. A 50x150mm filler board can be installed to accommodate joist spacing up to 350mm for the 300mm on-centre and 450mm for the 400mm on-centre. The open space between on-centre joists should not be more than 275mm for the 300mm on-centre (Fig. A1), and no more than 375mm for the 400mm on-centre (Fig. A2). For decks with joist spacing greater than 350mm on-centre, the DrySpace kit for 400mm on-centre joists should be used, and for decks with joist spacing greater than 450mm on-centre.
- Installation of DrySpace must stop a minimum of 75mm before the riser. This allows water to exit the DrySpace panel and provide for ventilation.
- Never install DrySpace over a beam.
- DrySpace should not be spliced to achieve longer runs. Lapping the system could result in leakage.
- DrySpace should not be enclosed with a wall around the outside perimeter of the deck. It is not intended to be a water proof roof system.
- DrySpace must be installed so that water runs away from the house.
- Appliances, such as dryers and exhaust fans, should not be vented into the space between the deck surface and DrySpace panels.
- Installation is easiest with two people.

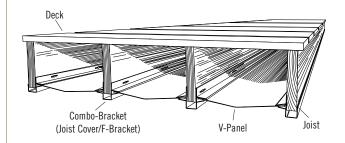




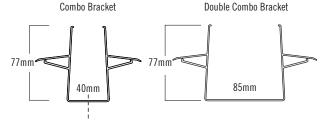
Tools and Materials Required

- Safety Glasses
- Square
- Utility Knife
- Pliers
- Chalk Line
- Hammer
- Two Putty Knives
- Butvl Rubber Tape
- Two Step Ladders
- Metal Snips
- Gloves
- Tin Flashing
- Tape Measure
- 25mm Hot Dipped Galvanized Roofing Nails or 25mm Deck Screws

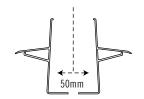
For Decks with 400mm Joist Centre Spacing

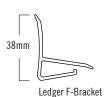






For 50mm joists cut and separate the combo bracket as shown below







TIMBERTECH® DRYSPACE™

Deck Drainage System

Installation for Decks with 400mm Joist Centre Spacing

Determine the correct installation pitch

DrySpace must be installed with a pitch (see Fig. B). Mark the correct pitch on each side of the joist with a chalk line. Measure from the bottom of the joist (Fig. C). A 4.8m long Combo Bracket installation will have an overall downward pitch of 50mm from the house to the front of the deck. **The pitch must be directed away from the house.**

Ledger F-Bracket installation

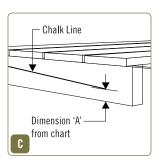
Cut the Ledger F-Bracket 6mm shorter than the joist opening. Measure 38mm from the bottom of the joist (Fig. E); then fasten the Ledger F-Bracket to the ledger board by driving 25mm hot dipped galvanized roofing nails (or deck screws) in the centre of the nail slots. Do not overdrive the fastener, but make sure the Ledger F-Bracket is firmly secured.

Install Combo Brackets

NOTE: The Combo Bracket includes integral brackets on each side to insert and hold the V-Panel. Bracket must stop at beam.

• Measure bracket length, then cut the DrySpace Combo Bracket 25mm shorter than the joist length.

| Joist Length | Dimension 'A' | |
|---------------|---------------|--|
| 1.8m | 56mm | |
| 2.4m | 50mm | |
| 3.0m | 44mm | |
| 3.6m | 38mm | |
| 4.1m | 31mm | |
| B 4.8m | 25mm | |

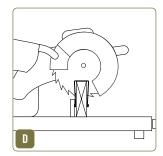


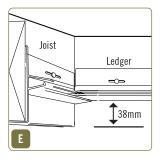
NOTE: To ensure a straight clean cut,place a scrap piece of 50mm x 100mm wood inside the Combo Bracket. Cut with a mitre saw (Fig. D).

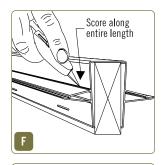
- The Combo Bracket must be cut down its length in the middle. Fix each half of the Combo Bracket to each of the bottom corners of the joist. Make sure the integral V-Panel Brackets on the outside of the Combo Bracket overlap the Ledger F-Bracket (Fig. E). Slide the lower leg of the Ledger F-Bracket into the Combo Bracket outside V-Panel Brackets. Align the top edge to the pitch chalk line.
- Nail the Combo Bracket in place with 25mm hot dipped galvanized roofing nails (or deck screws) in the provided nail slots. Nail both sides of the Combo Bracket.

NOTE: Nail tight, but don't overdrive the nail.

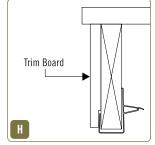
- For double joists use DrySpace Double Combo Bracket and follow steps above. Outside Combo Bracket installation.
- For the two outside deck brackets, the outside integral V-Panel
 Bracket must be removed. Trim what will be the outside portion of
 the Combo Bracket by making a score line under the V-Panel Bracket
 with a utility knife (Fig. F), then snap off the section with the integral
 V-Panel Bracket (Fig. G). Install the trimmed Combo Bracket for the
 inside portion of the bracket (Fig. H). This piece can be trimmed with
 a piece of timber.

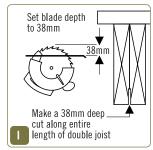












Note: If using 50mm joists please refer to Combo Bracket cutting instuctions on page 15

Custom Double and Triple Combo Brackets

• Remove any nails or obstructions that might be in the bottom 44mm of the doubled joist. Make a 38mm deep saw cut along the entire bottom of the double joist (Fig. I). Trim what will be the inside leg of two Combo Brackets just below the brackets for V-Panel installation (Fig. J). Note: Notch (with a utility knife) 38mm of both Combo Bracket legs near each end. Notching the legs will help lock the combined Combo Brackets in the saw cut at both ends of the cut. Check the fit of the trimmed Combo Brackets. Tape the two cut legs together with butyl rubber tape to create a sealed joint (Fig. K), then install into the saw cut. Make sure the Combo Brackets follow the chalk pitch line. Nail in place. NOTE: Decks with a triple joist can be covered using the same method only with three Combo Brackets.

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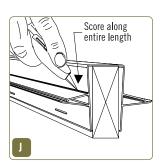
Deck Drainage System

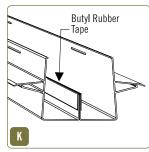


- Apply butyl rubber tape (Fig. L) to the following areas:
- 1) Corners where the F-Brackets overlap
- 2) Along the top edge of the Ledger F-Bracket making sure to cover the F-Bracket nail slots

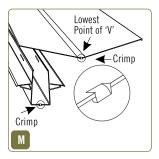
V-Panel installation

- Measure, then cut each V-Panel 75mm shorter than the joist to allow for drainage. Note: To prevent water from running back up the bottom side of the panel and Combo Bracket, crimp the drainage ends of the V-Panel and Combo Bracket downward with pliers (Fig. M).
- First install the V-Panel that will be anchored in the Ledger F-Bracket
 by inserting one panel edge into one of the Joist Cover's outside
 brackets. Next flex the panel to insert the opposite edge into the
 other Combo Bracket, then push the rest of the V-Panel in place.









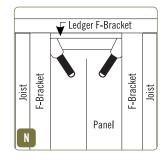
- To insert the V-Panel into the Ledger F-Bracket, place a putty knife in each corner where the Combo Bracket's outside bracket and Ledger F-Bracket overlap (Fig. N). Place a scrap piece of 50 x 100mm timber against the open edge of the V-Panel and tap with a hammer. NOTE: The 50 x 100mm timber protects the V-Panel edge from damage. V-Panels must stop at the beam.
- To collect and drain away water an optional vinyl or aluminum gutter can be installed (see Gutter installation below).

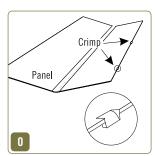
Faced with a smaller joist opening?

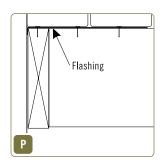
- If the joist opening (Fig. A) is less than 363mm, the V-Panel must be trimmed to 12.5mm less than the joist opening dimension. Score one side of the V-Panel with a utility knife, then snap the extra panel width off. Should the joist opening be 300mm or less, trim an equal amount of material from each side of the V-Panel.
- Use pliers to crimp the trimmed edges of the V-Panel downward every 150mm along the cut line (Fig. 0) to provide anchor notches when the V- Panel is installed in the Combo Bracket.

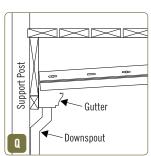
Best practice recommendation: Install flashing under first deck boards

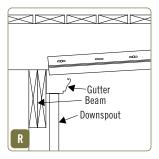
For best results, install flashing under the length of the two deck boards closest to the house (Fig. P). This will assure that water is pushed out into the V-Panels below.









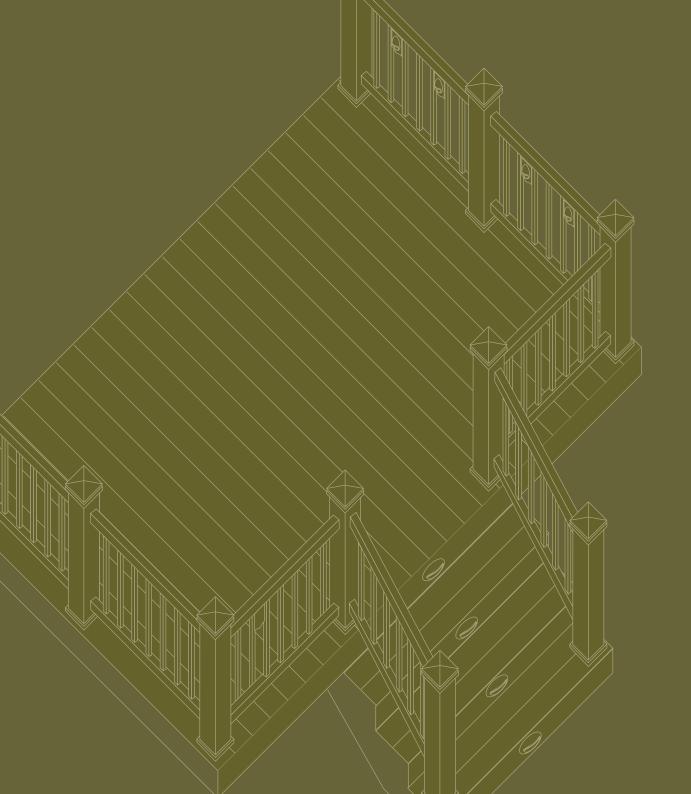


Gutter installation

An optional gutter and downspout can be installed with DrySpace. Gutters must be installed at support beams to collect water from the V-Panels. Each project will have different requirements. The most common installations are shown (Figs. Q and R). A gutter can also be installed along the ledger board to collect water from between the ledger board and house and between the ledger board and joist ends. Standard vinyl or aluminum gutters and downspouts can be used. These are readily available at builders merchants.

NOTE: Gutter, downspout and accessories are not included with the DrySpace system.

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