

Installation Guide

TimberTech® decking by James Hardie

OUTDOORS

TimberTech® by JamesHardie™

Australia October 2026

Make sure your information is up to date.
When specifying or installing products by James Hardie, ensure that you have the current technical information and guides. If in doubt, or you need more information, visit jameshardie.com.au or contact James Hardie on 13 11 03.

CodeMark® Australia
Certificate CM40486

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SCOPE

This guide covers the use of TimberTech® decking by James Hardie in a residential application in accordance the applicable requirements of the National Construction Code (NCC) 2022 (Amdt. 2) and 2025 and subject to relevant state and territory adoption periods.

CODEMARK® CERTIFICATION

The CodeMark® Certification Scheme is a voluntary third-party building product certification scheme that authorises the use of new and innovative products in specified circumstances in order to facilitate compliance with Volume 1 and 2 of the NCC.

TimberTech® decking by James Hardie™ has been certified under the CodeMark® Certification Scheme (Certificate Number CM40486) and available at www.jameshardie.com.au. This certificate can be provided to building certifiers and other regulatory authorities to facilitate the assessment of the product compliance or used to verify the suitability of the product for certain applications.



1 Introduction

A great outdoor space should look beautiful, be easy to maintain and stand up to everyday life. TimberTech® decking by James Hardie brings all of this together in one simple solution. As engineered decking with realistic timber looks and durability suited to Australian conditions, TimberTech® decking makes it easier to design and deliver outdoor spaces for effortless living.

Designed for low maintenance living, TimberTech® decking only needs an occasional clean. It is resistant to moisture damage, cracking and splintering, helping maintain a consistent, high-quality finish over time, when installed and maintained in accordance with James Hardie's published literature current at the time of purchase..

IMPORTANT NOTES

1. Failure to install, finish or maintain this product in accordance with applicable building codes, regulations, standards and James Hardie's written application instructions may lead to personal injury, affect system performance, violate local building codes, and void the James Hardie Product Warranty.
2. All warranties, conditions, liabilities (direct, indirect or consequential) and obligations whether arising in contract, tort or otherwise other than those specified in James Hardie Product Warranty are excluded to the fullest extent allowed by law. For the James Hardie Product Warranty information and disclaimers about the information in this guide, visit www.jameshardie.com.au.
3. The builder must ensure the product meets aesthetic requirements before installation. James Hardie will not be responsible for rectifying aesthetic surface variations following installation.

2 Safe Working Practices

TIMBERTECH® DECKING - DUST AND PROCESSING PRECAUTIONS

TimberTech® decking is not classified as hazardous according to Safe Work Australia criteria. However, cutting, drilling, rebating, grinding, sanding or sawing may generate fine dust that can irritate the skin, eyes and respiratory tract. Repeated or prolonged inhalation of dust above exposure limits may cause lung damage. Apply the hierarchy of controls and follow the safe work practice recommendations below whenever dust may be generated.

Cutting and Processing

- Use equipment appropriate for TimberTech® decking and the cutting or processing method.
- When using a mechanical saw or high-speed cutting tool, work outdoors and connect the tool to a well-maintained M or H class industrial vacuum fitted with a filter suitable for fine respirable dust.
- Use local exhaust ventilation to draw dust away from the worker's breathing zone when cutting, drilling, rebating or grinding.
- If dust levels remain high, modify the process or increase ventilation before continuing.
- Warn other workers in the area and keep them away from generated dust.
- Consider rotating workers across cutting tasks to reduce individual dust exposure.

Personal Protective Clothing

- When cutting or sanding, or where an inhalation risk exists, wear a correctly fitted Class P2 particulate respirator.
- Select, use and maintain respiratory protection in accordance with applicable regulations and AS/NZS 1715 and AS/NZS 1716.
- Wear safety glasses with side shields, goggles or a face shield appropriate to the task.

Clean Up and General Housekeeping

- Use a well-maintained M or H class vacuum fitted with a filter suitable for fine respirable dust, or use wet clean-up methods.
- Do not dry sweep generated dust.
- Prevent dust from entering drains and waterways.
- Wash hands before eating. Do not eat, drink or smoke in contaminated work areas.
- When cutting or sanding, wear suitable protective gloves, such as PVC or rubber gloves.

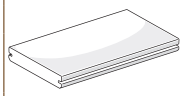
Handling and Storage

- Due to the boards' size and profile, use a two-person lift and carry boards on edge to reduce bending.
- Store boards flat on a clean, dry surface and protect them from site damage.
- Keep boards covered and shaded until installation.
- Keep away from heat, sparks, open flames and other ignition sources. Heating or decomposition may generate hazardous fumes.

3 Components

COMPONENTS

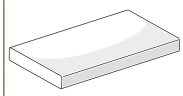
1 TimberTech® decking Grooved Boards



TimberTech® decking Grooved Boards feature grooves that allow fast placement of using hidden clip fasteners for a clean, fastener-free look of the main deck surface.

Product Name	Length (mm)	Width (mm)	Thickness (mm)	Weight/unit (kg)	Effective cover/unit (m²)	Product Code
Vintage Collection™ Weathered Teak Grooved	4877	140	25	10.77	0.681	920072
Vintage Collection™ Mahogany Grooved	4877	140	25	10.77	0.681	920062
Vintage Collection™ English Walnut Grooved	4877	140	25	10.77	0.681	920052
Vintage Collection™ Coastline Grooved	4877	140	25	10.77	0.681	920019

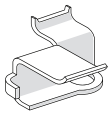
1 TimberTech® decking Square-edge Boards



TimberTech® decking Square-edge Boards feature ungrooved, straight edges designed for perimeter framing or picture-framing of your deck borders.

Product Name	Length (mm)	Width (mm)	Thickness (mm)	Weight/unit (kg)	Effective cover/unit (m²)	Product Code
Vintage Collection™ Weathered Teak Square	6096	140	25	13.81	0.852	920079
	4877	140	25	11.05	0.681	920078
Vintage Collection™ Mahogany Square	6096	140	25	13.81	0.852	920069
	4877	140	25	11.05	0.681	920068
Vintage Collection™ English Walnut Square	6096	140	25	13.81	0.852	920059
	4877	140	25	11.05	0.681	920058
Vintage Collection™ Coastline Square	6096	140	25	13.81	0.852	920029
	4877	140	25	11.05	0.681	920028

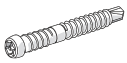
2 CONCEALoc™ Hidden Fastener Clips and Screws



CONCEALoc™ hidden fasteners are used to lock TimberTech® decking Grooved Boards to support joists without leaving visible screw heads on the surface. Suitable up to BAL19 rated areas only.
Box Contents: 175 x Clips, 184 x Screws and 1 x Driver Bit.

700049

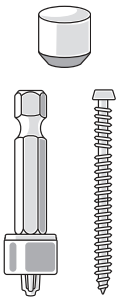
4 Cortex™ Aluminium Driller Screws



The Cortex™ aluminium driller screws can be used to fix both TimberTech® decking Grooved and Square-edge Boards.
Box Contents: 350 Screws/Box including 1 x Driver Bit. Suitable up to BAL29 rated areas only.

700044

4 Cortex™ Screw & Plug Kit



The Cortex™ Plug is used to fill the cored hole created by the Cortex™ Setting Tool.
Plugs are available on their own or in a kit including Cortex™ Screws and Cortex™ Setting Tool (Driver Bit).

Product Name	Box Contents and Quantities	Product Code
Cortex™ Weathered Teak Screw & Plug Kit	350 x Screws, 400 x Plugs & 3 x Driver Bits	700042
Cortex™ Weathered Teak Plugs	400 x plugs	700041
Cortex™ Mahogany Screw & Plug Kit	350 x Screws, 400 x Plugs & 3 x Driver Bits	700040
Cortex™ Mahogany Plugs	400 x plugs	700039
Cortex™ English Walnut Screw & Plug Kit	350 x Screws, 400 x Plugs & 3 x Driver Bits	700038
Cortex™ English Walnut Plugs	400 x plugs	700037
Cortex™ Coastline Screw & Plug Kit	350 x Screws, 400 x Plugs & 3 x Driver Bits	700032
Cortex™ Coastline Plugs	400 x plugs	700031
Cortex™ 316 Stainless Steel Screws	350 x Screws & Driver Bit	700043

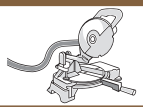
REQUIRED TOOLS

Jigsaw



Used to cut around obstructions such as posts.

Mitre Saw



Used for cutting TimberTech® decking boards. Fitted with a fine-toothed, carbide-tipped finish trim blade (305mm - 60 tooth minimum). For a power mitre or compound power mitre saw, a fine finish alternate top bevel blade is also recommended.

Cordless Drill



Used to fix TimberTech® decking boards. Note: Do not use an impact driver if installing with Cortex™ hidden fastener system.

Vacuum



Use a well-maintained M or H class vacuum fitted with a filter suitable for fine respirable dust.

Router



Required for start/stop boards as shown in this guide.

4 Design Considerations

SCOPE AND OVERVIEW

This installation guide covers the use of TimberTech® decking by James Hardie in an outdoor or indoor application over timber or light gauge steel frames or in a residential deck application. It does not contain all information relevant for constructing a deck.

DESIGN

General

All design and construction must comply with the appropriate requirements of the current National Construction Code (NCC) and other applicable regulations and standards.

Responsibility

The specifier or other party responsible for the project must ensure that the details in this guide are appropriate for the intended application and that additional detailing is performed for specific design or any areas that fall outside the scope of this guide.

Loading

TimberTech® decking is structurally designed to withstand the domestic and residential activities for self-contained dwellings (Category A1) of Table 3.1 of AS/NZS 1170.1 - 'Structural design actions - Permanent, imposed, and other actions' of 1.8kN concentrated load and a UDL (Uniformly Distributed Load) capacity of 2kPa at the floor joist spacing, outlined in Table 1 when installed and maintained in accordance with James Hardie's published literature current at the time of purchase.

FRAMING

General

TimberTech® decking boards may be fixed to either timber or corrosion resistant light gauge steel frame joist centres. Floor joist must be a nominal of 45mm wide (except for Narrow Timber I Joists and LVL solid joist).

Framing must have the appropriate level of durability required to prevent corrosion or deterioration.

As joists are installed, run string line frequently to ensure that the tops of the joists are in plane, as TimberTech® decking boards will conform to the contour of the joists to which it is attached. It may be necessary to shim or plane joists due to size variations in lumber. Be sure to sort and exclude any extremely crowned joists/lumber material.

Prior to installation, check to make sure all joists are level, structurally sound, and there are no nails or screws protruding.

Proper joist spacing is required for proper installation. Joist spacing should never exceed 400mm on centre. For a more rigid feel, 300mm may be preferred. However, all angled or commercial installations of decking require 305mm on centre maximum.

Install solid wood blocking between each joist, placed in rows at maximum every 1.22 - 1.33m within the structure using exterior grade screws. Solid blocking will help reduce up or down movement and/or twisting of joists. Limiting joist movement can help reduce excessive gapping and also ensure a more uniform finished surface of the deck.

It is recommended to add additional framing, tighter joist spacing (152mm to 203mm maximum). Also, only use top-down fastening in locations such as near glass, areas of high heat build or sunlight reflection.

TABLE 1

Maximum Floor Joist centres in residential applications	
Substructure Type	**Maximum Joist Centre (mm)**
Basic Installation	400*
Picture Frame Installation	400*
Diagonal Installation	300*

Timber Framing

Use of timber framing must be in accordance with AS 1684 - 'Residential timber-framed construction', treated dry kiln timber or durable hardwood, the building code of Australia and the framing manufacturer's specifications.

- Narrow Timber I Joists (min. 40mm wide):
  Refer to table 4 or 5 for specific fastener requirements. The flange of the joist profile must have an adequate depth to ensure full fastener embedment.
- LVL solid joist (min. 42mm wide): Refer to table 4 or 5 for specific fastener requirements.

NOTE:
*Only when installing on existing frames with joists spaced at 450mm centres, additional 45mm wide blocking can be added to reduce the joist spacing to 405mm centres max.

Steel Framing

Use of steel framing must be in accordance with NASH standard for residential and low-rise steel framing Part 1 and the framing manufacturer's specifications. Framing members must be in the range 0.75mm to 1.9mm BMT (base metal thickness). The steel framing must have the appropriate level of durability required to prevent corrosion.

NOTE: Cutting or drilling metal should not be done on TimberTech® decking boards as metal shavings may become hot and embed themselves into the decking boards.

Tolerances

In order to achieve an acceptable finish, it is imperative that framing is straight and true, maintaining a maximum tolerance of 4mm over 3 metres in all directions.

Fastener Durability

Fasteners must have the appropriate level of durability importance in coastal areas and areas subject to salt spray and other corrosive environments.

Fasteners must be fully compatible with all other materials that they are in contact with to ensure the durability and integrity of the assembly.

James Hardie recommends a minimum Class 3 fastener. Contact fastener manufacturers for more information.

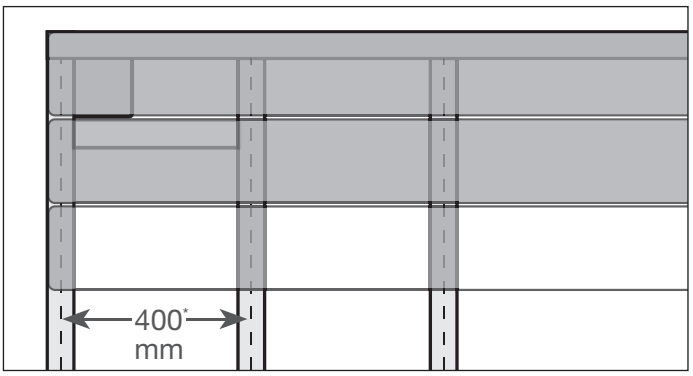


FIGURE 1 SUBSTRUCTURE FOR BASIC INSTALLATION

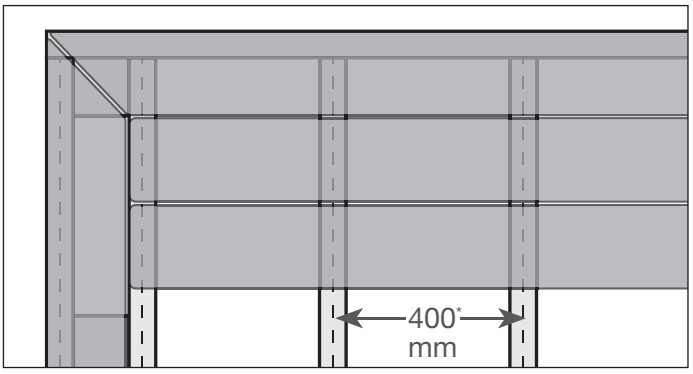


FIGURE 2 SUBSTRUCTURE FOR PICTURE FRAME INSTALLATION

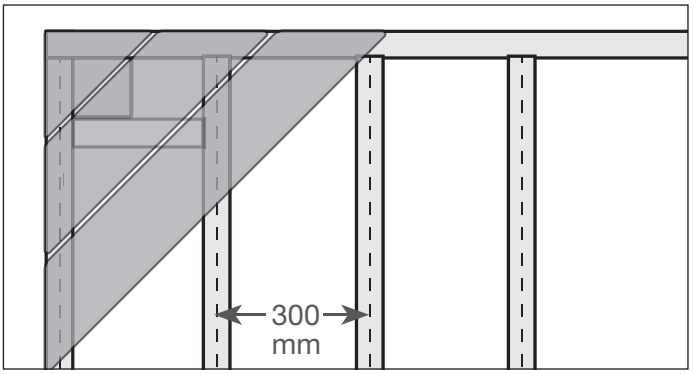


FIGURE 3 SUBSTRUCTURE FOR DIAGONAL INSTALLATION

NOTE:
To help protect against moisture ingress and rot, always prime the end grain of timber members, together with surfaces which are permanently concealed and may be in contact with other building materials.

TIMBERTECH® DECKING

General
All design and construction must comply with the appropriate requirements of the current applicable building codes.

Walking Surface
TimberTech® decking boards must be installed embossed side up.

Cantilevering
For best results, do not cantilever 13mm beyond the edge of the fascia or deck framing.

Routing
TimberTech® decking boards should not be routed on the edges, ends, or sides with the exception of the start/stop boards.

Colour and Grain Patterns
TimberTech® decking is 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 and all colours are designed to realistically replicate the natural tones and textures of quality timber.

This variation is purely aesthetic and does not or will not affect the performance of the product. When working with multiple packs of decking, consider pulling boards randomly to mix rather than completing one pack at a time. It is good practice to lay out decking boards to ensure the desired look.

Colour and Temperature
TimberTech® decking is designed to release heat faster when no longer in direct sunlight, helping your deck return to a comfortable temperature sooner. However, like many engineered decking surfaces, TimberTech® decking can become hot in direct sunlight, and all else being equal, the darker the decking colour, the hotter it will feel.

Air Flow Considerations
In areas with obstructed airflow such as roofs, water management systems, skirting and on-grade applications, a minimum of 38mm clearance should be provided.

More clearance and airflow can help reduce /minimize movement and gapping due to increased heat build.

DO NOT attach decking boards to a floating sub-structure which is not mechanically fastened frequently and sufficiently to the building and roof deck.

5 Installation Requirements

FASTENERS

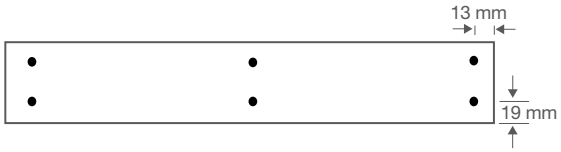
General

Due to the durability of TimberTech® decking, a high-quality fastener is recommended that meets the following specifications: use Cortex™ hidden fasteners or a high quality stainless steel screw (minimum #7 size and minimum length of 57mm).

Be sure that screws are driven to a minimum depth of 32mm into solid wood framing below the bottom of the TimberTech® decking board. This will enhance holding power and uplift resistance.

Avoid using flathead screws. Trim head screws typically provide a better result. As always, the fastener should be tested on a sample board before being used on your deck.

Be sure to install 2 screws per joist on each decking board. Regardless of temperature during attachment of TimberTech® decking boards, be sure to keep butt joints and mitres tight and place fasteners within 13mm of ends.



James Hardie recommends using TimberTech® decking fasteners with TimberTech® decking. TimberTech® decking fasteners are specifically engineered and tested to work with unique profile and material characteristics designed to deliver the best results and to help minimize the risk of issues during or after installation, including but not limited to gapping, warping, board movement, oil canning, and squeaking.

For salt water coastal applications, we suggest using the Cortex™ 316 stainless steel screws.

DO NOT use nails to fasten TimberTech® decking boards.

TABLE 9

Fastener options for fixing TimberTech® decking boards		
Application	CONCEALoc™ hidden fastener	Cortex™ screw
TimberTech® decking Grooved Boards	●	●
TimberTech® decking Square-edge Boards		●

Cortex™ hidden fastener system

Cortex™ hidden fastener system is a concealed fastening method used for fixing TimberTech® decking boards. It uses specialized face-screws and colour-matched plugs made from actual deck boards to hide screw heads, creating a smooth, fastener-free surface.

The Cortex™ Setting Tool must be used to set the Cortex™ screw to the proper depth. The Cortex™ screw must be driven perpendicular to the deck surface for proper fit and ideal finished look (DO NOT drive at an angle).

Fasteners should be positioned approximately 13mm from board ends and 19mm from board sides.

The cored hole created by the setting tool must be free of debris or moisture. A smooth plastic hammer head is used to set the Cortex™ plug.

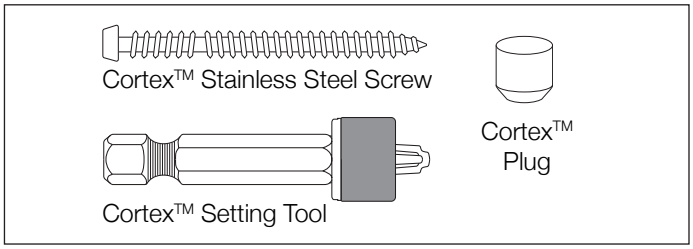


FIGURE 4 CORTEX™ HIDDEN FASTENER SYSTEM

NOTE:
Do not use Impact Drivers for fixing Cortex™ hidden fasteners. A corded or cordless is recommended.

Do not use Cortex™ hidden fasteners for decks with framing members in constant contact with saltwater.

CONCEALoc™ hidden fastener system

CONCEALoc™ hidden fastener system is a specialized hardware solution made by the Azek Group, LLC for installing TimberTech® decking grooved boards. It fits directly into the side grooves of the planks and fastens to the framing at a 45-degree angle, creating a smooth, fastener-free walking surface with no visible screw heads.

The CONCEALoc™ hidden fastener system can also be used with TimberTech® decking Square-edge Boards after notching with a CONCEALoc™ Groove Cutting Router Bit (See fig 8).

Once the CONCEALoc™ hidden fastener is inserted into the grooved edge of a board, the screw hole should be lined up with the centre of the support joist. Then insert the CONCEALoc™ screw at a 45° angle through the fastener hole and into the joist while applying pressure on the fastener against the edge of the board.

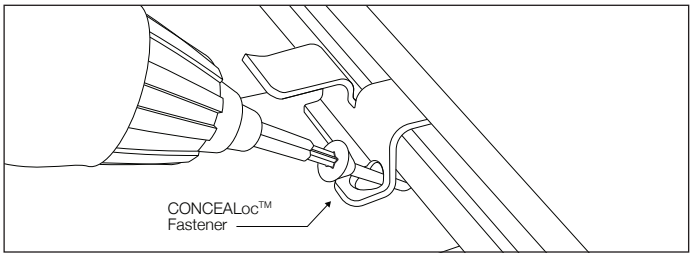


FIGURE 5 CONCEALOC™ HIDDEN FASTENER SYSTEM

NOTE:
When using clips, larger gaps can be expected at butt joints or breaker boards. Consider using top down fastening methods to help reduce gapping.

Installing CONCEALoc™ hidden fasteners at butt joints

Joists at butt joints must be doubled up for proper fastener attachment. The two clips on the left are shifted approximately 6mm to the right of centre on the joists. If this is not done the spacer tab may fall within the gap of the butt joist (See Figure 6).

To help minimize gaps at butt joints, install Cortex™ screws within 13mm of board ends as well as 2 per joist at two to three joists from butt joints on either side of the butt joint. and for a more secure attachment, consider adding Cortex™ screws within 13mm of board ends as well as 2 per joist at minimum of 3 joists from each board end in either direction.

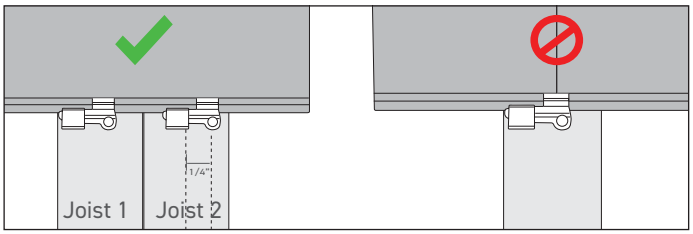


FIGURE 6 CONCEALoc™ HIDDEN FASTENER AT BUTT JOINTS

NOTE:
Adding more fasteners added will increase performance. Consider adding additional fasteners for longer runs or longer length boards.

Never place Cortex™ hidden fasteners only/solely on a single joist for butt joints, board ends and miters. If using Cortex™ with CONCEALoc™ hidden fasteners, you must place Cortex™ into a minimum of 3 joists from each end of the decking board.

Installing CONCEALoc™ hidden fasteners on diagonal

When the deck is located in a corner of the house, start with a small triangular piece of decking in the corner and work your way out.

Offset the clip 13mm to the right of centre line of the joist, so the screw will not exit the side of the joist when driven.

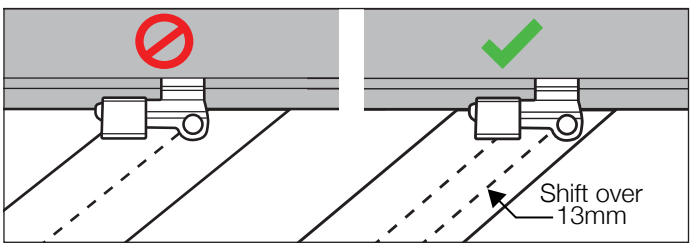


FIGURE 8 CONCEALoc™ HIDDEN FASTENER ON DIAGONAL

Using CONCEALoc™ hidden fasteners with TimerTech® decking
Square-edge Boards

Create a 51mm long notch on the edge of the plank at every joist. Use a CONCEALoc™ Groove Cutting Router Bit or equivalent 6mm slot cutting bit.

Flip the plank over and start the notch 10mm off the bottom of the plank. Set the depth of the cut from 11mm to 13mm deep.

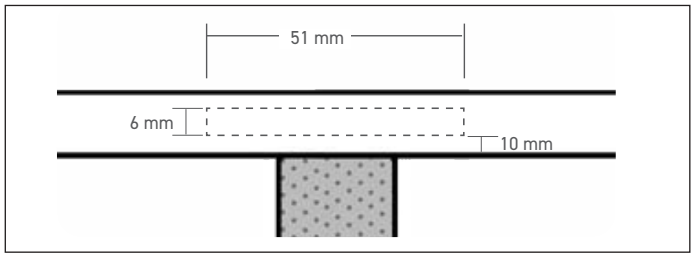


FIGURE 8 NOTCHING A SOLID DECKING BOARD

NOTE:
Do not use CONCEALoc™ hidden fasteners or L-Brackets for stair installation.

STAIR INSTALLATION

General

TimberTech® decking boards work well for stair treads and risers, provided you follow specific installation rules regarding stringer spacing, face-fastening, and local building codes.

The process for building staircases with TimberTech® decking boards differs slightly from the process with standard flat decking surfaces.

The maximum allowable stringer spacing is as shown:

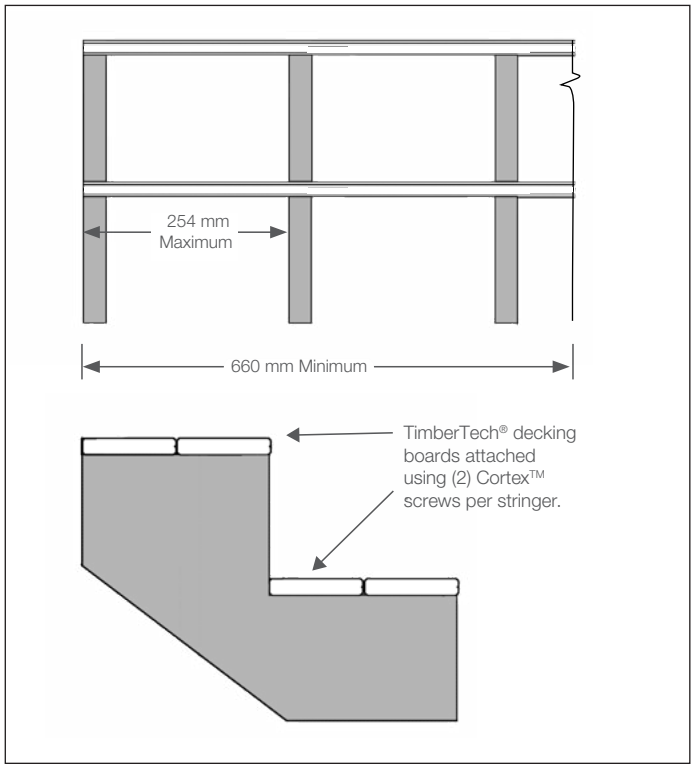


FIGURE 9 STAIR INSTALLATION

EXPANSION AND CONTRACTION

TimberTech® decking boards will expand and contract, move, and gap with changes in temperature, unlike wood which will fluctuate in size with moisture changes. The expansion and contraction encountered may result in gaps, which might be noticed at the ends of boards or in splice/butt joints. Gapping is normal and some gapping can be expected. Using top-down fastening method for the decking boards according to the Installation Guidelines will help minimize expansion and contraction.

Splices/butt joints are where gapping most commonly occurs. Limiting length of decking boards for long runs can help minimize gapping. Adding design features such as properly framed parting or breaker boards can reduce or eliminate the need for butt joints. Also consider using shorter decking board lengths or a design which allows running decking boards in shortest possible direction.

For better results keep decking boards as cool as possible during attachment. Direct full sun exposure will increase board temperature and length. If attaching during high heat, larger gapping can be expected.

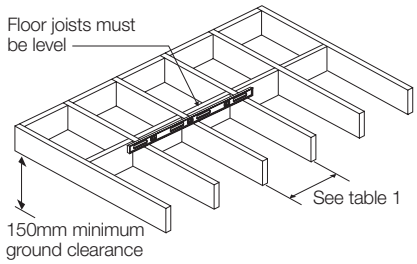
- **DO NOT** leave a gap at butt joints, splices or mitres.
- Expansion/contraction is most significant where extreme temperature change may exist.
- Best practice is to cut and fasten the decking boards as soon after cutting as possible.
- Be sure to fasten ends of boards, splices, or abutments to building or structure securely into framing using 2 screws. Position the screws at or within 13mm of each board end or joint and 19mm from side of decking board.
- For butt joints, be sure to trim factory ends to ensure squareness. Do not scarf cut butt joints.
- To help reduce or minimize movement, gapping, and expansion / contraction with TimberTech® decking boards, consider using only top-down fastening methods such as Cortex™ screws for the entire deck.
- Provide a 3mm to 6mm side to side gap between decking boards.
- Framing/sub-structure must be securely attached to ground footings or building structure. No floating sub-structures should be used in any application with TimberTech® decking boards, including on grade, concrete, or in roof top applications.
- For best results, stagger splices and mitres across deck surface so that all splices and mitres do not break on the same joist or beam.
- To further minimize expansion and contraction, proper ventilation and air flow should be considered.
- Some area building codes may require double joisting when joining boards end to end. Double joist and/or secure double blocking is always required at butt joints when using CONCEALoc™ hidden fasteners. Always check with your local code authority for specific requirements before installation.
- During installation, frequently check that TimberTech® decking boards are installed straight and with consistent gapping and spacing by using a string line.

6 TimberTech® decking Installation Steps

CONCEALoc™ HIDDEN FASTENERS INSTALLATION

STEP 1

Ensure your frame is square, maximum tolerance of 4mm in 3000mm length

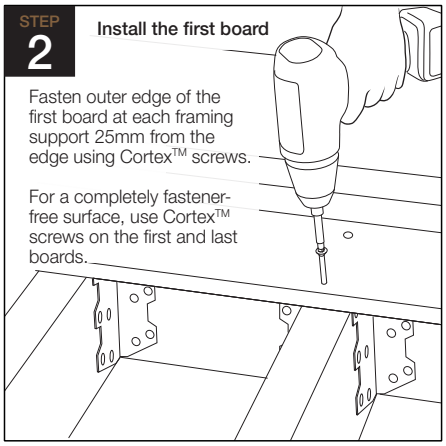


STEP 2

Install the first board

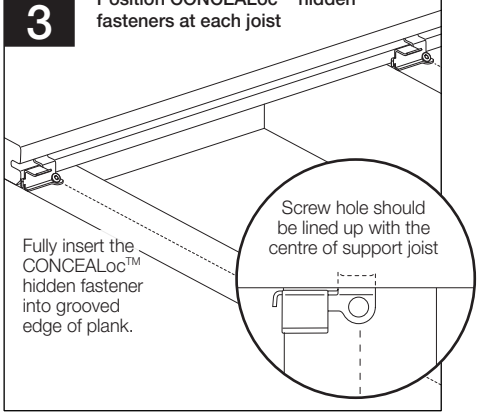
Fasten outer edge of the first board at each framing support 25mm from the edge using Cortex™ screws.

For a completely fastener-free surface, use Cortex™ screws on the first and last boards.



STEP 3

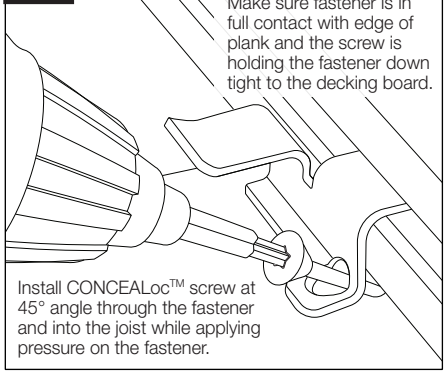
Position CONCEALoc™ hidden fasteners at each joist



STEP 4

Install CONCEALoc™ screws through fasteners

Make sure fastener is in full contact with edge of plank and the screw is holding the fastener down tight to the decking board.

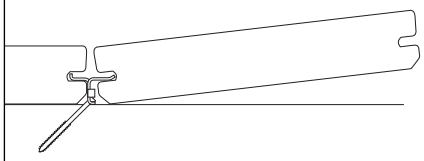


Install CONCEALoc™ screw at 45° angle through the fastener and into the joist while applying pressure on the fastener.

STEP 5

Position next plank

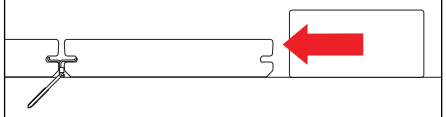
Place the next board into position against the fixing. Slightly raise the outer edge of the board being installed and slide it onto the fixing until the board contacts the spacer tab.



STEP 6

Gently tap board into final position

Gently tap the installed board with a beater board to slide into place. DO NOT USE a hammer as this could damage the board.

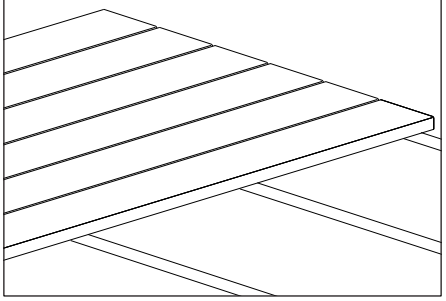


Use wood 45 x 90mm and at least 600mm in length as a tamping block/beater board to bring edge of decking board into contact with spacer tab to ensure proper spacing.

STEP 7

Install following boards

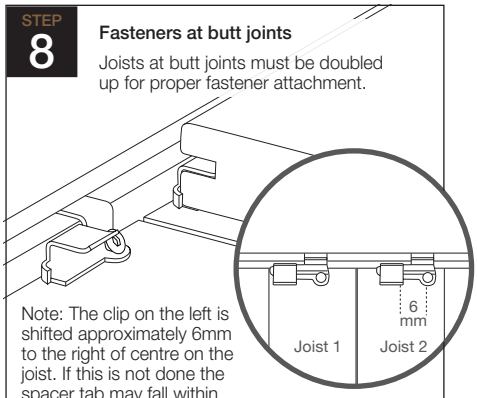
It is recommended that boards be checked frequently for straightness as they are installed, using a string line or laser line.



STEP 8

Fasteners at butt joints

Joists at butt joints must be doubled up for proper fastener attachment.

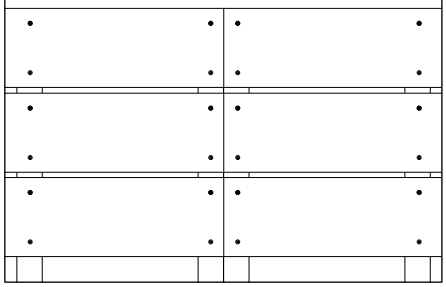


Note: The clip on the left is shifted approximately 6mm to the right of centre on the joist. If this is not done the spacer tab may fall within the gap of the butt joist.

STEP 9

Minimising gaps at butt joint

To help minimize gaps at butt joints, consider installing Cortex™ screws within 13mm of board ends as well as 2 per joist at two to three joists from butt joints on either side of the butt joint.

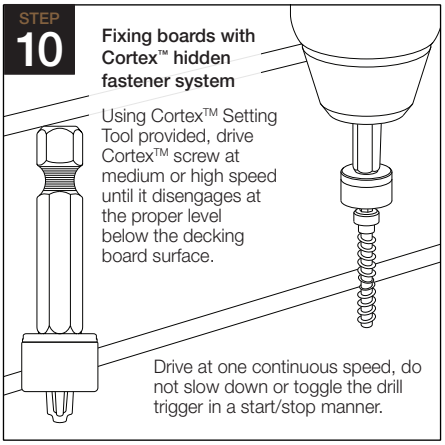


Cortex™ HIDDEN FASTENERS INSTALLATION

STEP 10

Fixing boards with Cortex™ hidden fastener system

Using Cortex™ Setting Tool provided, drive Cortex™ screw at medium or high speed until it disengages at the proper level below the decking board surface.



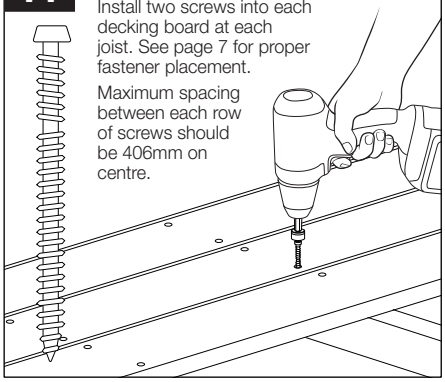
Drive at one continuous speed, do not slow down or toggle the drill trigger in a start/stop manner.

STEP 11

Install Cortex™ screws into joists

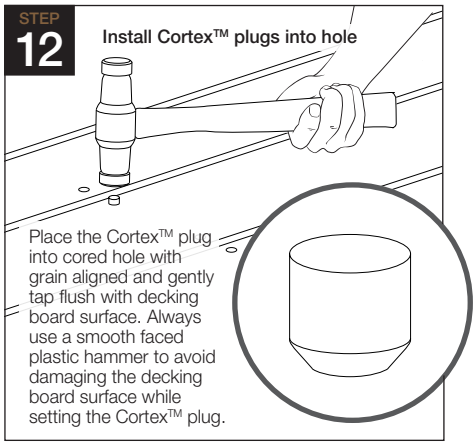
Install two screws into each decking board at each joist. See page 7 for proper fastener placement.

Maximum spacing between each row of screws should be 406mm on centre.



STEP 12

Install Cortex™ plugs into hole



Place the Cortex™ plug into cored hole with grain aligned and gently tap flush with decking board surface. Always use a smooth faced plastic hammer to avoid damaging the decking board surface while setting the Cortex™ plug.

7 Maintenance

CARE AND MAINTENANCE

To keep your TimberTech® decking looking its best:

- Avoid the use of rubber-backed mats, tarps, pool toys, and other non-porous items on the deck/porch for any extended period of time as these items may cause discolouration to the decking surface.
- Some products, such as sunblock and insect repellent, contain chemicals that may alter the surface of TimberTech® decking. Check product labels and consult with the manufacturer as to product compatibility with plastic materials prior to use on or near TimberTech® decking.
- Do not get any PVC glue or similar product on the surface of any TimberTech® decking board as it may discolour and permanently damage the surface.
- To clean TimberTech® decking, use Peerless JAL Versadet Floor Cleaner with a stiff natural fiber brush. Always read the cleaning product manufacturers specific information before using any product on your TimberTech® decking and follow their instructions. It is also a good idea to test the cleaner on a scrap piece or inconspicuous area of the deck to make sure it does not harm the surface.

IMPORTANT: Note that some composite deck cleaners in powder or liquid form, SHOULD NOT be used on TimberTech® decking as they are designed for use with wood/plastic composite decking and are not suitable to use.

How to replace a damaged plank

To replace a damaged decking board, make two parallel cuts down the centre of the board, then remove the centre section.

Using a small pry bar, carefully remove the remaining sections of the board from the CONCEALoc™ clips. Next, use a reciprocating saw to remove the clips on the side of the board where the screw heads are visible.

Position the replacement decking board so it engages with the remaining CONCEALoc™ clips. Once the board is properly aligned and fully seated, secure the exposed edge using Cortex™ hidden fasteners for a clean, colour-matched finish.

8 Product Information

MATERIAL

TimberTech® decking is an advanced PVC decking product made of high-performance polymers.

Metamerism

Metamerism is the phenomenon wherein two coloured samples will appear to be of the same shade under one light source but will appear to be different shades under a second source.

When installing TimberTech® decking boards at different angles, metamerism may make the boards installed at one angle appear to be of a different shade than the decking boards installed at the other angle, depending on the lighting and the angle which the deck is viewed.

This is a natural phenomenon, not a defect, and can occur even when the decking boards are cut from the same boards or come from the same unit. Metamerism is an aesthetic property and not a performance or product warranty issue.

Colour and Temperature

TimberTech® decking is designed to release heat faster when no longer in direct sunlight, helping your deck return to a comfortable temperature sooner. However, like many engineered decking surfaces, TimberTech® decking can become hot in direct sunlight, and all else being equal, the darker the decking colour, the hotter it will feel.

Static Build-up

The buildup or generation of static electricity is not a product defect, and is a naturally occurring phenomenon in many products such as carpeting, upholstery, and clothing, and can occur on many decking products including TimberTech® decking under certain environmental conditions.

STORAGE AND HANDLING

- Store TimberTech® decking boards on a flat and level surface.
- Store products in a cool, shady area prior to installation.
- Do not stack packs over 8 units high.
- Always leave factory applied protective wrap, If stored outdoors, the product must be covered with non-translucent material.
- Use care when handling product with a forklift as forks can easily damage the material.
- If banding is used, use protective corners to prevent indents from the bands.
- Avoid storing TimberTech® decking in areas of excessive heat.

Notes



For information and advice
call 13 11 03 | jameshardie.com.au

TimberTech® by JamesHardie™

Australia October 2026

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