

The logo for ULTRA DECK. The word "ULTRA" is in white, bold, sans-serif capital letters inside a solid black square. To the right of the square, the word "DECK" is in black, sans-serif capital letters. The letter "E" in "DECK" is stylized with three horizontal lines passing through it.

ULTRA DECK

ULTRA DECK LUXE SERIES

Installation Guide



No oiling, staining
or sealing



Tested & built
to last longer



Up to 25-year
warranty

ultradeck.com.au

ULTRA DECK LUXE SERIES

Installation Guide

Read this first

Being a composite product, Ultra deck Decking behaves and has different characteristics to timber. To achieve a safe and long lasting Ultra deck Decking installation, it is important to read the following guide in full.

Warnings

1. Ultradeck Decking is not designed to be a freestanding element. It must be properly secured to a suitable substructure.
2. Any supporting substructure must comply with the relevant provisions of the Building Code of Australia and all applicable regulations.
3. A single Ultradeck board must span at least two support points (i.e. sit across three joists) to meet structural load-bearing requirements.
4. Sufficient spacing must be provided between boards, at joins, and along edges to allow for adequate ventilation and thermal expansion.
5. Ultradeck Decking must not be:
 - A. Used as a structural subframe
 - B. Installed directly onto solid surfaces like concrete
 - C. Cantilevered more than 50mm
6. Ultradeck Decking is a pre-finished product and must be handled, stored, and installed with care to avoid surface damage.
7. It is the responsibility of the installer, contractor, or property owner to assess the safety, suitability, and effectiveness of Ultradeck products for the intended application.

Static electricity

Co-extruded composite decking, including Ultradeck Luxe Series Boards, may experience static electricity build-up under certain environmental conditions.

This is most commonly caused by low humidity and dry weather. Other contributing factors can include the choice of subframe material, the presence of metal components such as balustrades, and insufficient earthing.

To help minimise static build-up, a water-based anti-static spray (such as ACL Staticide) can be applied. Please note that these sprays may need to be reapplied after rain or exposure to moisture. Additionally, installing anti-static mats or insulating materials on frequently touched surfaces (e.g. balustrades, door handles) may also reduce the effects.

In most cases, static build-up diminishes naturally over time as the decking surfaces wear and settle. Ultradeck does not offer a warranty against static electricity on Luxe Series Boards.

Safety

Always wear appropriate protective clothing and use suitable safety equipment when handling materials.

Ultradeck decking boards are heavier than traditional timber, so take extra care and follow safe lifting practices to prevent injury.

Storage & handling

Ultra deck Decking boards must be:

- Supported at least every 600mm on a level plane.
- Laid flat especially during transportation and never at an angle.
- Never be dropped or 'dumped' when unloading.
- Stored on a flat, dry surface.
- Covered until it is time to use them for installation.



Carry this
side up

Install colour side up

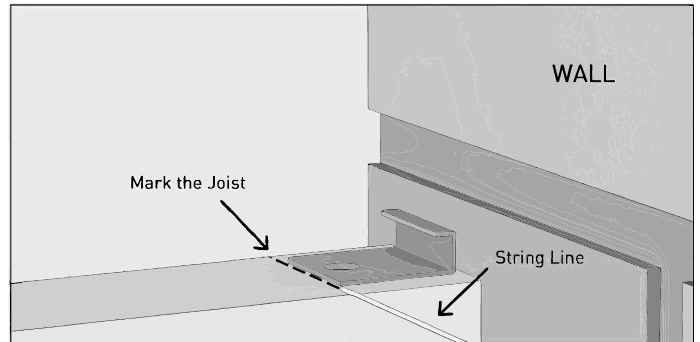
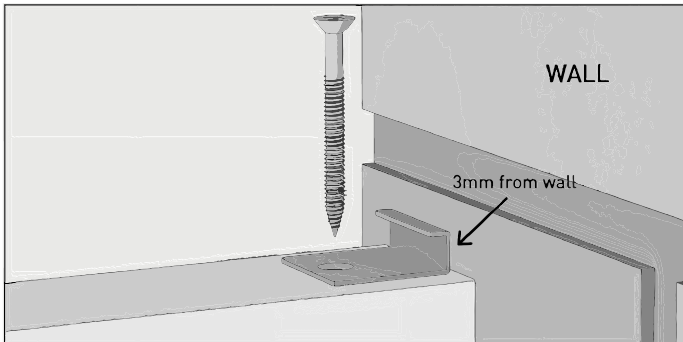


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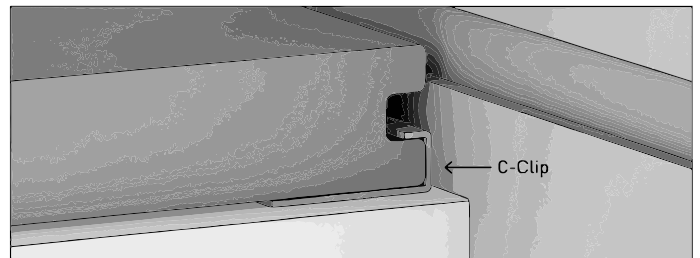
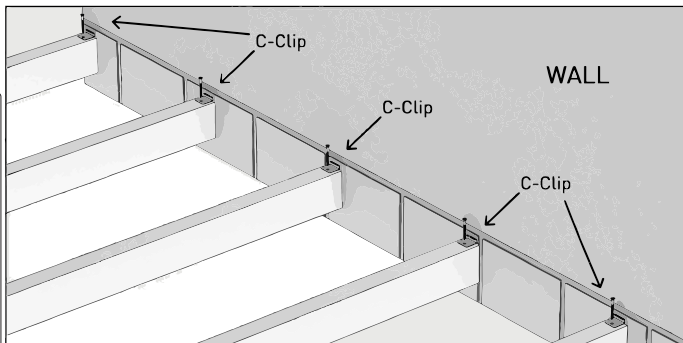
Installation Guide

Starting from a wall

1. Position C-Clip on top of the first joist a minimum of 3mm from the wall and screw into place. Repeat on last joist.
2. Run a string or chalk line from the front edge of the C-Clip between the first and last C-Clip and mark the remaining joists.



3. With the top of the joists now marked, install C-Clips on the remaining joists. If necessary, C-Clips can be placed on every second joist. Gently push the first Ultra deck board into the C-Clips. You may need to angle the board slightly to push into the C-Clips
4. You can now begin to fasten your boards using Standard and Locking Clips - refer to Fastening Boards section.

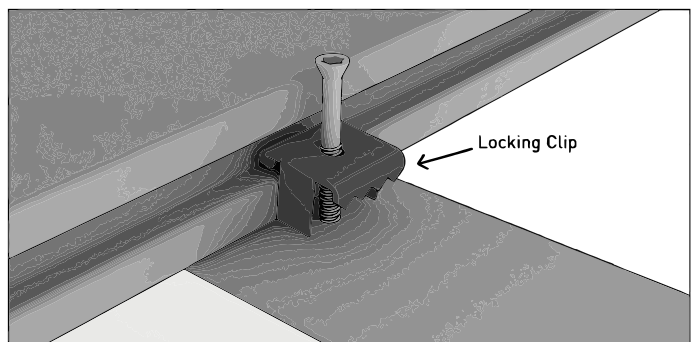
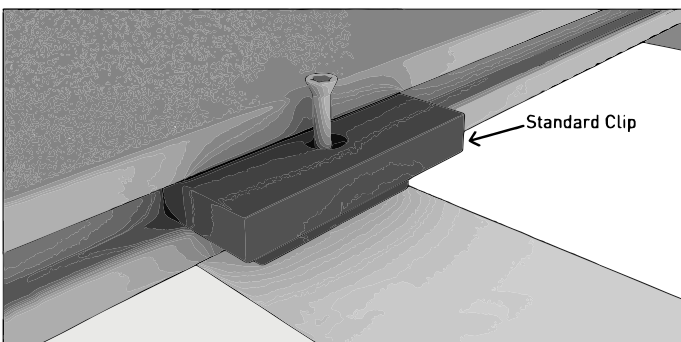


Fastening boards

Depending on which Quickfix system you are using, the fastening of your Ultra deck boards will slightly differ.

6mm board spacing

1. Insert Standard Clips and one Locking Clip into the groove of each board.
Important: Only one Locking Clip should be used per board, positioned as close to the centre of the board as possible
Partially screw down the clips — approximately 2mm — to hold them in place during installation.



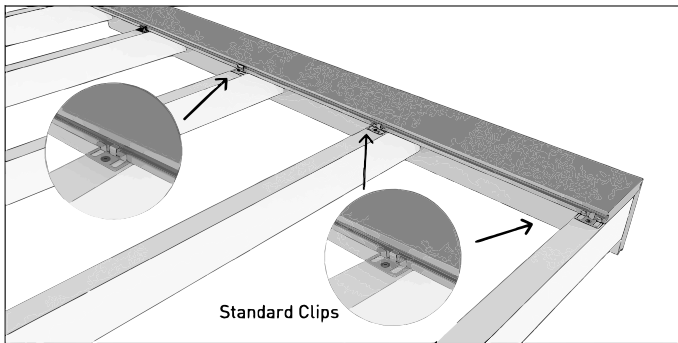
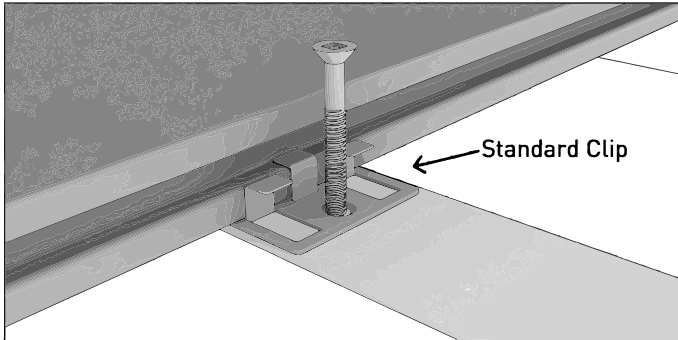
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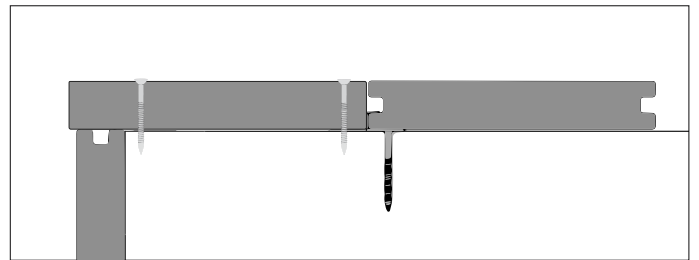
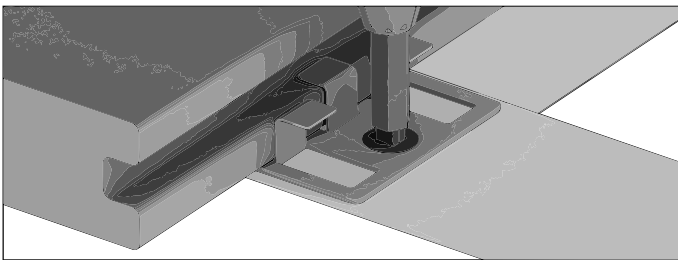
4mm board spacing

1. Insert Standard Clips into the side groove of each board.

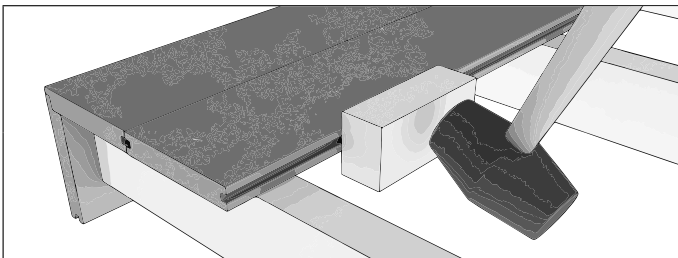
Position the clips carefully to ensure proper alignment, then screw them down approximately 2mm to hold them in place during installation.



2. Screw down the clips ensuring they are tight and secure.

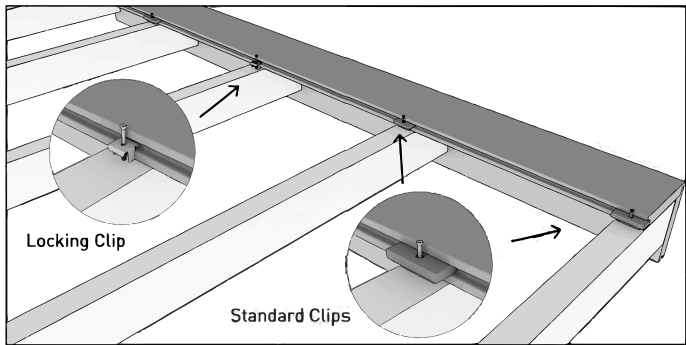


3. Push the next Ultra deck board into the clips. You may need to use a rubber mallet and block to seat the boards firmly in the clips.



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Ensure you have 1 (one) Locking Clip per board.

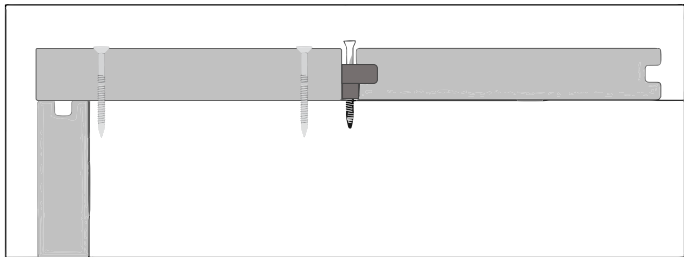
Failing to install a Locking Clip will allow your boards to shift and come out of alignment.

Note: If installing on hardwood joists, it is recommended to predrill your joists to avoid shearing screws. If you are shearing screws, increase your predrill size.

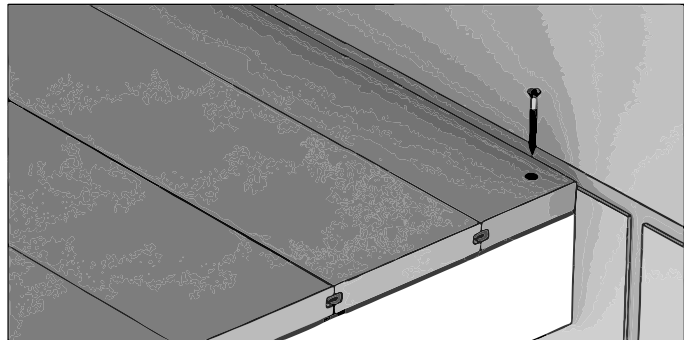
If you are installing on a steel frame, predrilling steel joists is necessary. The following table should be used as a guide to determine the size of drill bit needed.

Steel thickness	Drill bit size
<1.5mm	3mm
1.5-2.4mm	3.5mm
>2.4mm	3.75mm

2. Push the next board into position.



3. Repeat these steps and lay approximately 6-10 boards before screwing down properly (this is a guide only). Measure out from the first board to the last board to ensure that the boards are square.
4. Screw down this section of decking. Do not overtighten screws. If the screws are pulling through the clip, you are over tightening the screws.
5. When securing the Locking Clip, ensure that the screw is tightened sufficiently so the teeth bite into the groove of the Ultra deck boards.
6. Repeat steps 1-5 until complete.
7. Once you reach the end of your deck, you will likely need to rip the last board down to fit. Secure the last edge of your board by top fixing. Be sure to pre-drill and countersink the board and fasten every 450mm.



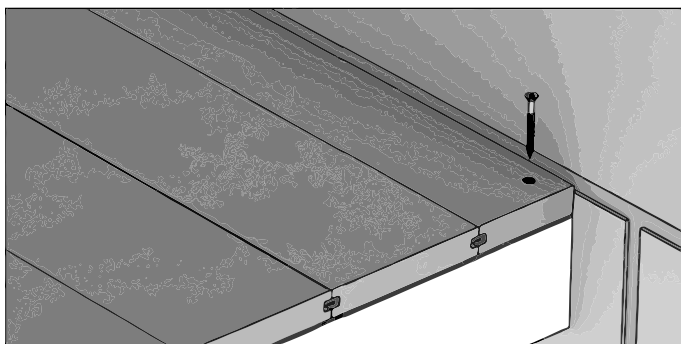
Joist material	Recommended screw
Timber	10g x 65mm 316SS countersunk screw
Metal	10g x 40mm countersunk screw suitable for metal

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4mm board spacing

- 4. Repeat steps 1-3 until complete, periodically measuring out from the first board to ensure your deck is square.
- 5. Once you reach the end of your deck, you will likely need to rip the last board down to fit. Secure the last edge of your board by top fixing. Be sure to pre-drill and countersink the board and fasten every 450mm



Joist material	Recommended screw
Timber	10g x 65mm 316SS countersunk screw
Metal	10g x 40mm countersunk screw suitable for metal

A cross-section diagram of a deck board. It shows the board's profile, the internal structure, and the placement of screws. The screws are shown being driven into the board from the top edge, securing it to the joist below.

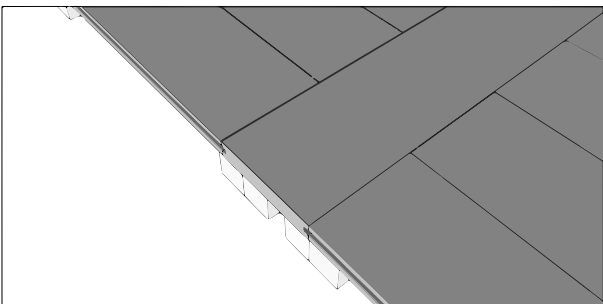
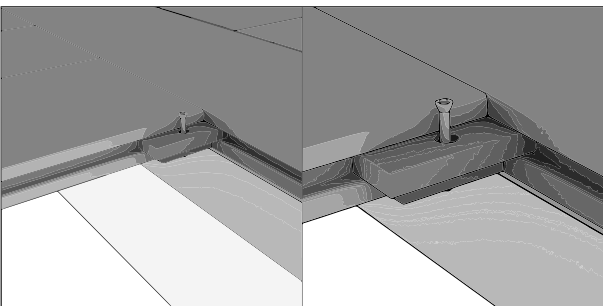
Breaker boards & picture framing

Depending on which Quickfix system you are using, installing breaker boards and picture frame boards will slightly differ.

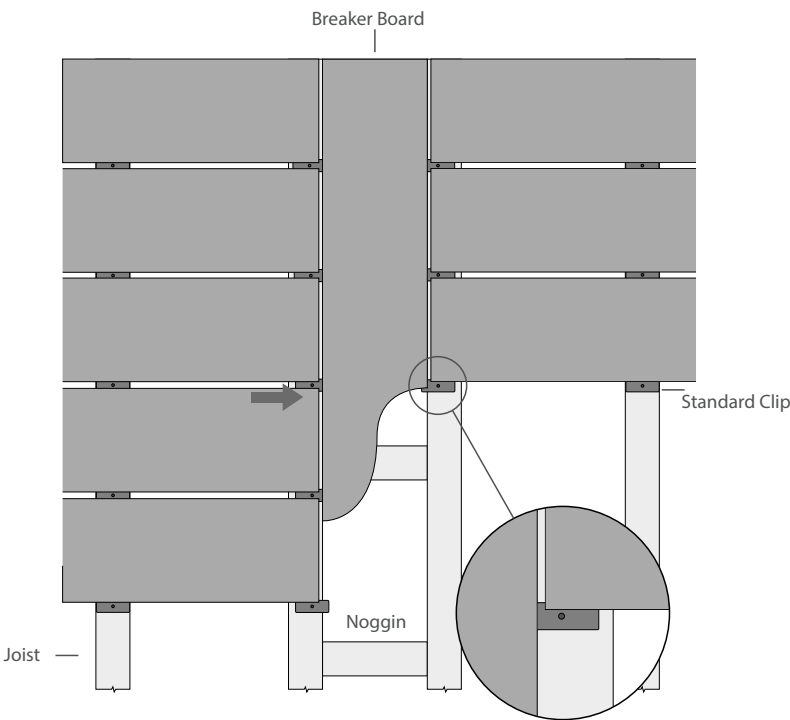
6mm board spacing

To secure your breaker board or picture frame you can use Standard Clips.

Use the overhanging (short) edge of the Standard Clip to secure the breaker board.



Suggested framework and clip placement



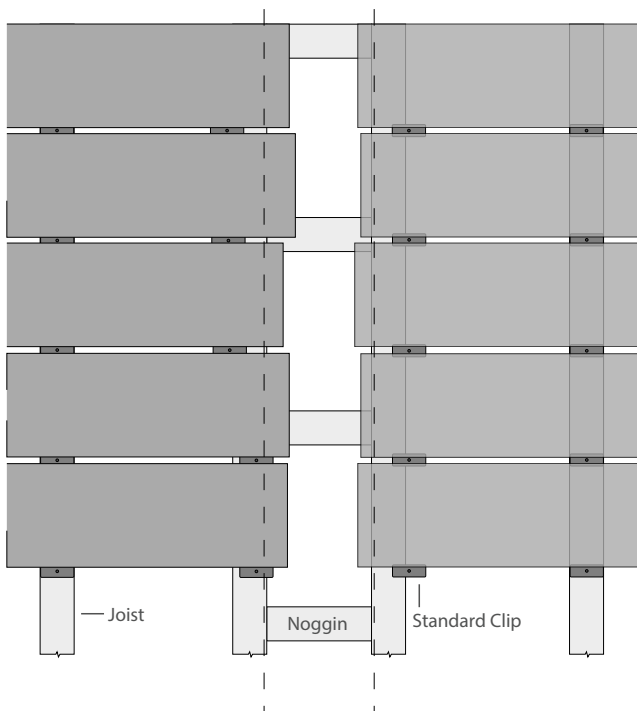
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Step 1/4

Cut boards over-length. Install using Quickfix.

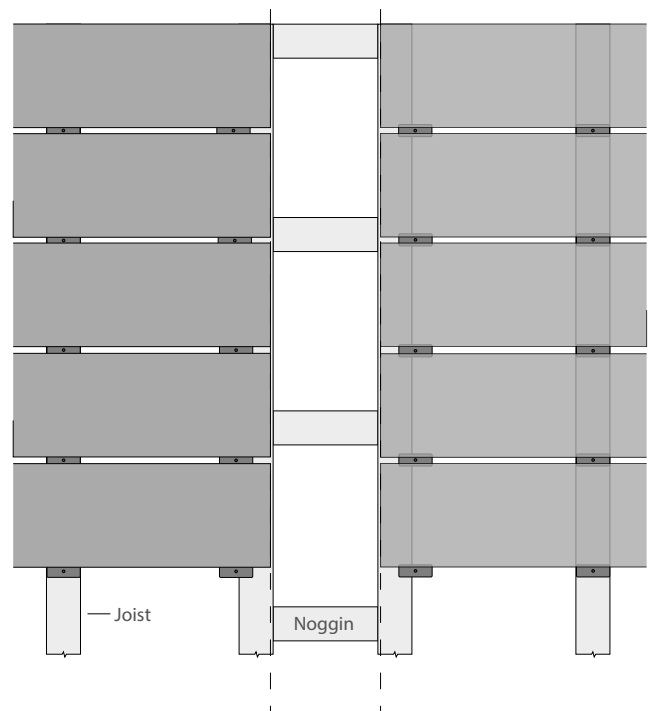
Leave last row of Standard Clips unfastened.



Step 2/4

Mark out breaker board location.

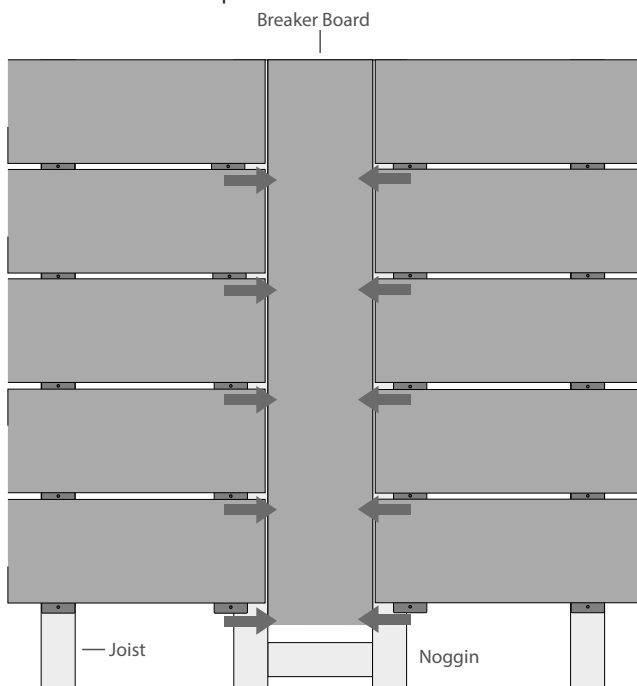
Trim boards to length using circular saw and straight edge.



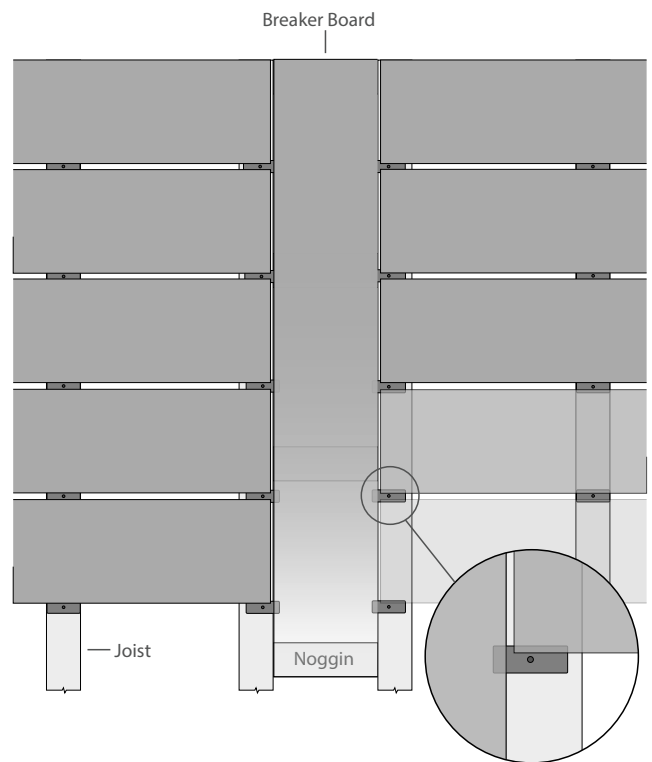
Step 3/4

Drop in breaker board.

Slide end of standard clips into breaker board and screw down.



Step 4/4



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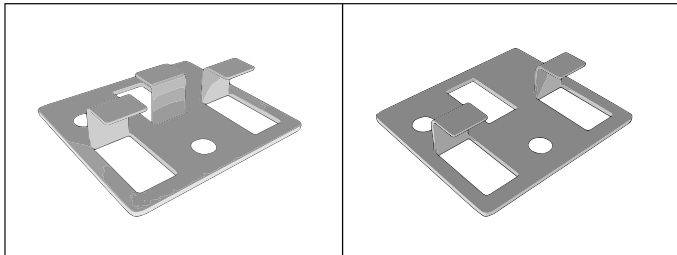
Installation Guide

4mm board spacing

To secure your breaker board or picture frame you can use one of two methods.

- Modifying Standard Clips to make them single sided.
- Using C-Clips.

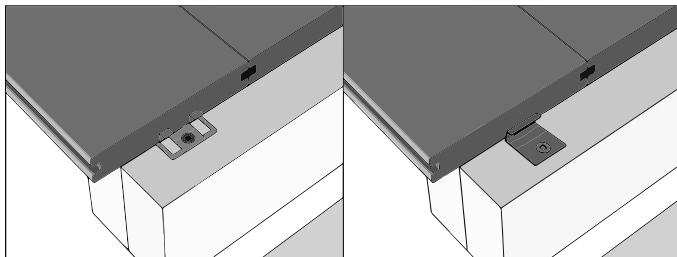
A Standard Clip can be modified by using a punch to flatten or completely remove the single tab



Standard Clip

Modified Standard Clip

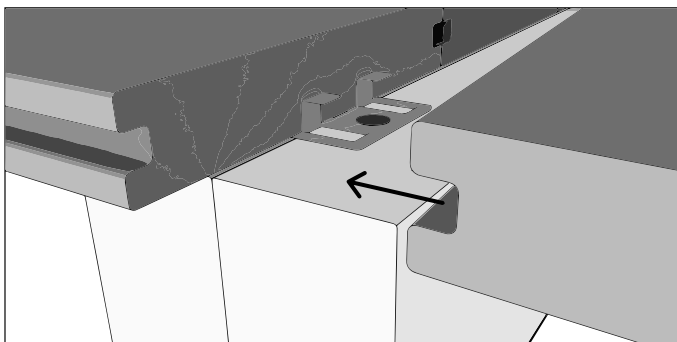
- Install clips every 450mm.



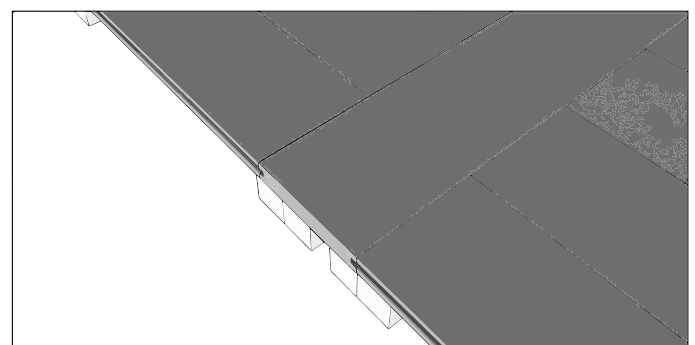
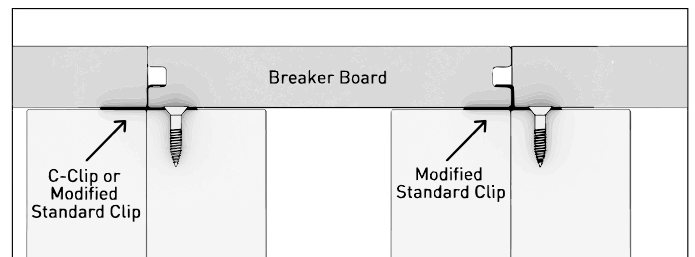
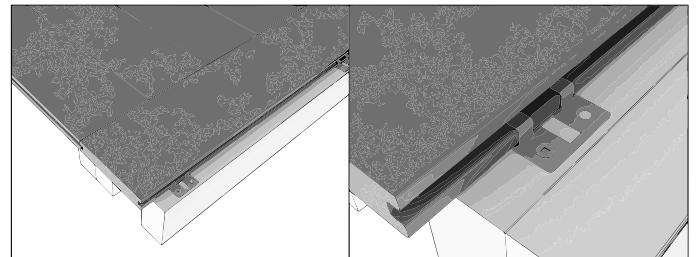
Modified Standard Clip

C-Clip

- You can now push your breaker board or picture frame board into place.



- If installing a picture frame board, secure the finishing edge of your board using brackets as seen in 'Finishing/Fascia Options.'
- If installing a breaker board and are continuing your deck, secure the second edge of your breaker board using a modified Standard Clip. Be sure to install a Locking Clip in the middle of the board.



With your breaker board now installed, you can continue to lay the rest of your deck.

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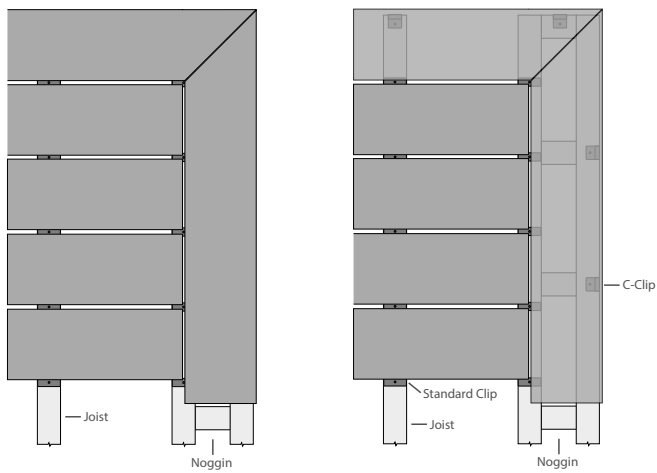
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Finishing Options

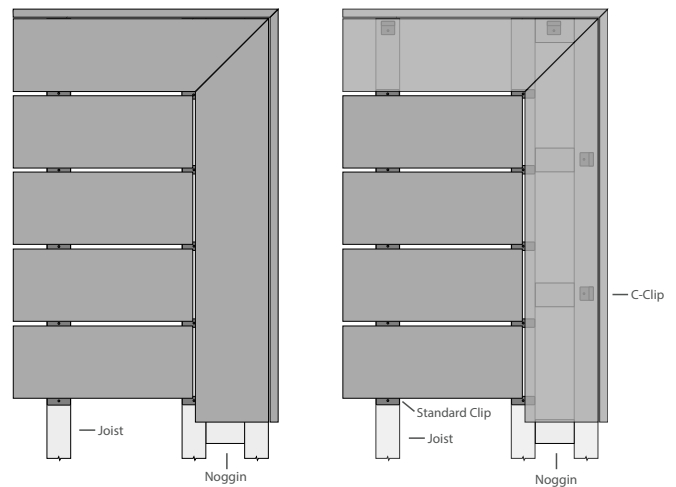
There are a variety of designs to choose from when it comes to finishing the corners and edges of your Ultra deck LuxeSeries deck.

The following examples are shown using the 6mm Quickfix system.

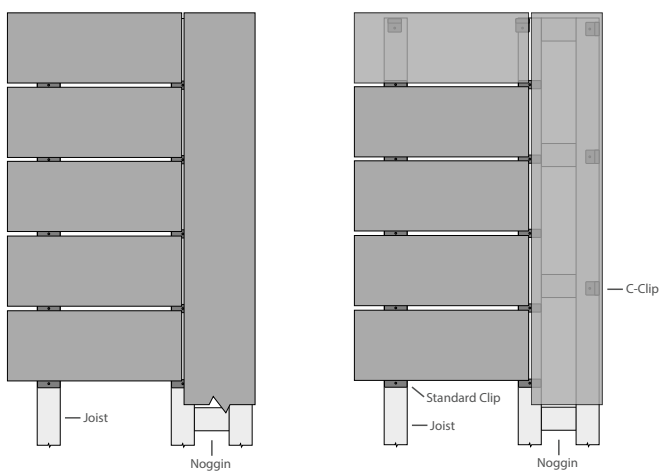
Picture framing



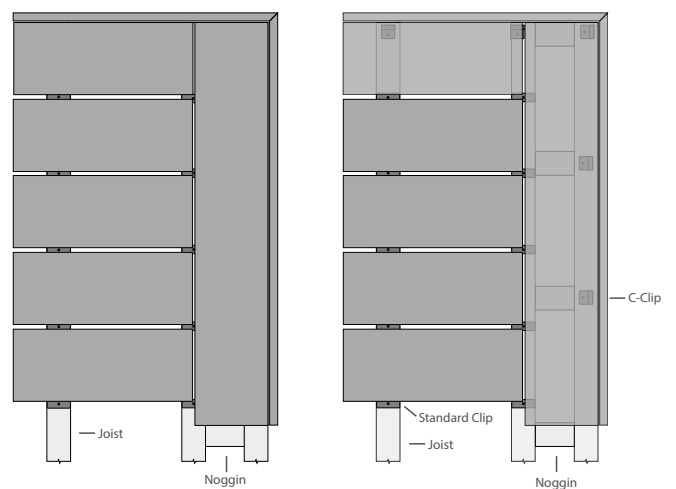
Picture framing with fascia board



Single border



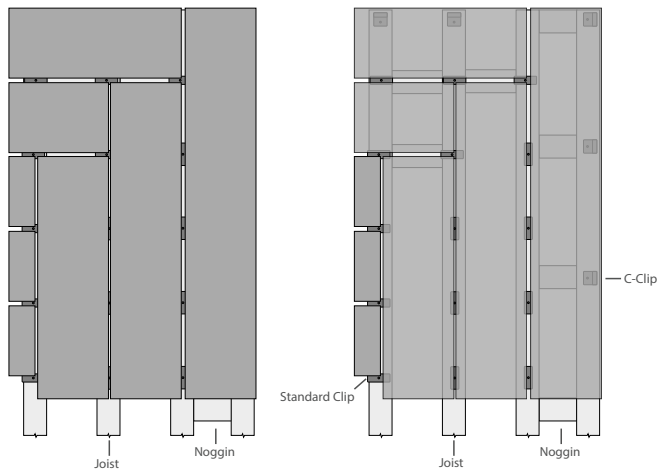
Single border with fascia board



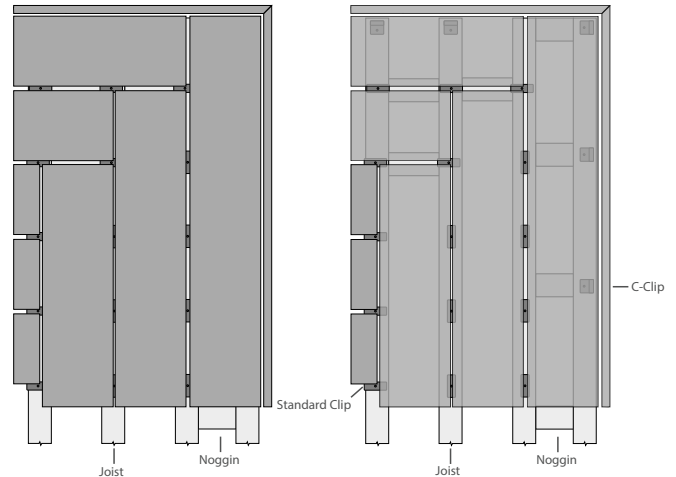
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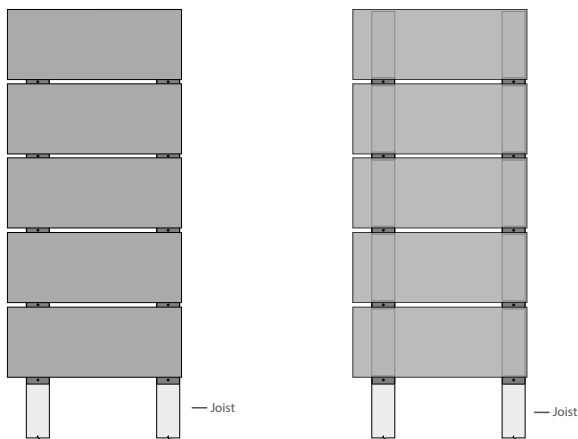
Herringbone detail



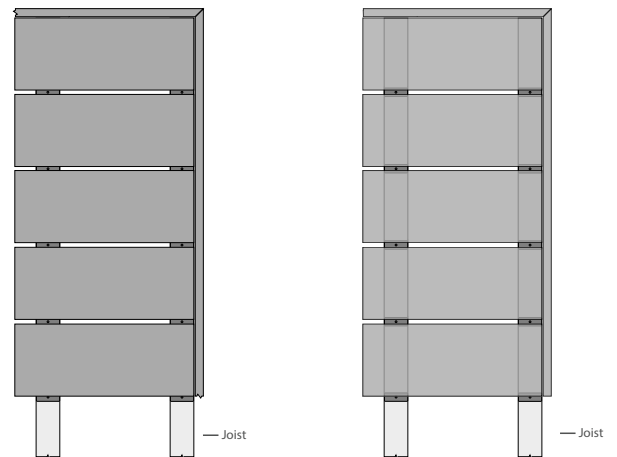
Herringbone detail with fascia board



No framing



No framing with fascia board



Cleaning

It is recommended to clean your deck immediately after installation and periodically as you see fit:

1. Wash the deck with hot water and dishwashing liquid using a soft broom or mop.
2. Rinse your deck - a garden hose is recommended.

Cleaning requirements will vary depending on product use, surrounding environment and weather exposure. We recommend a General Clean is performed at least annually.

Foreign substance stains should be cleaned immediately.

Refer to our Care & Maintenance guide for more information.

Weathering

Ultradeck is a UV-stabilised, colour-fast product designed to maintain its appearance over time.

As with most outdoor materials, a slight initial colour shift may occur when first exposed to UV light.

This is most noticeable in areas where objects like pots, mats, or furniture have covered the surface for extended periods.

This minor change is normal and not considered a product fault.



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Edge board finishing

We recommend the use of Ultra deck LuxeSeries Edge Boards for the edge of your deck, as well as steps. This ensures a clean finish.

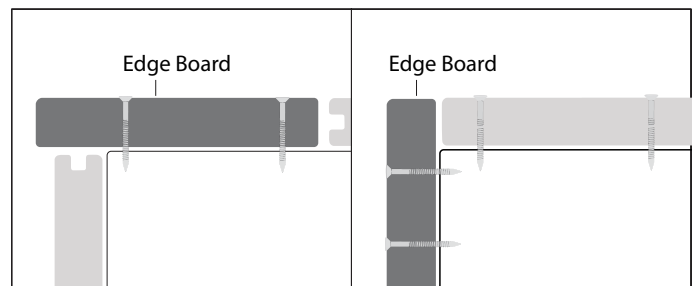
Edge Board

Edge board positioning

You can install the Edge Board either horizontally or vertically, depending on your preferred aesthetic.

Ensure the Edge Board overhangs far enough to accommodate the fascia panel beneath it.

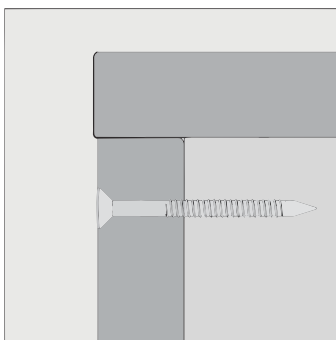
If installed vertically, be aware that the Edge Board may accumulate debris over time, so this should be considered during design and maintenance planning.



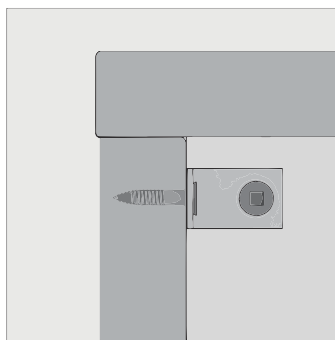
Fascia fixing options

See below various ways to fix your fascia board. Fascias should be fastened every 450mm.

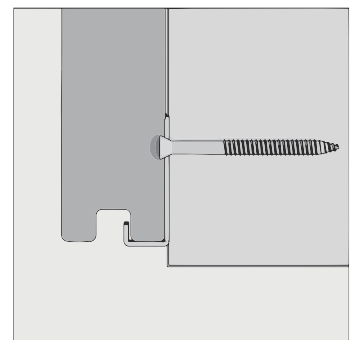
Face-fix



Angle bracket



C-Clip



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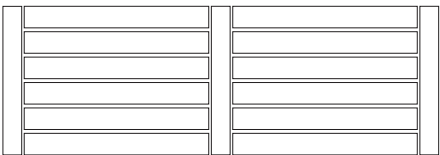
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Breaker boards & picture framing

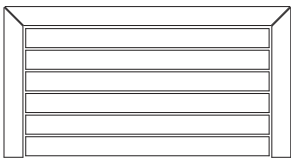
We strongly recommend incorporating breaker boards or picture framing into your deck design.

Picture framing provides a clean, finished edge and enhances the overall appearance when using Ultradeck decking boards.

Breaker boards allow for single-board-length installations, which help accommodate the natural expansion and contraction of composite materials — ensuring long-term structural stability and visual consistency.



Example of a breaker board design (recommended for decks longer than 5.4m)

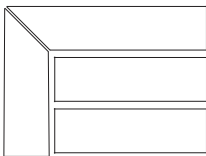


Example of a picture frame design (recommended):

Mitre joints

When using a picture frame design, the corners of the framing boards can be joined with angled mitre cuts for a clean, seamless look.

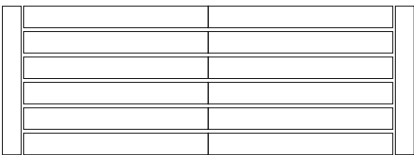
To minimise the risk of gaps forming at these mitred joints, we recommend reducing the end gap by 2mm from the value specified in the Expansion Gaps table.



Butt joints

Due to the thermal expansion characteristics of Ultradeck, we do not recommend the use of butt joints, regardless of your deck's size.

Using butt joints and mixed board lengths can make it difficult to maintain consistent, uniform spacing across the deck, leading to uneven gaps and a less professional finish.



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Natural variances & colour

Ultradeck decking is manufactured using a blend of reclaimed timber fibres and both new and recycled plastics. Each board is intentionally designed to feature natural variations in colour and tone, which may differ between individual boards and production batches.



Before cutting or installing, it's important to lay out all Ultradeck boards to ensure an even distribution of light and dark tones across your deck this helps avoid large sections with concentrated colour variation. Boards cannot be returned or exchanged once they've been cut. If you are not satisfied with the colour or finish, do not proceed with cutting or installation.



Ultradeck decking boards are manufactured within standard industry tolerances, and minor variations in board dimensions are considered normal. These variances are not deemed to be product faults, and appropriate allowances should be made during installation to accommodate them.

Slip rating

Ultradeck decking boards are supplied with a certified anti-slip rating in accordance with AS 4586:2013. Over time, surface wear may occur due to foot traffic, environmental exposure, and other external conditions.

It is the responsibility of the owner to periodically assess the deck surface to ensure it continues to meet relevant anti-slip requirements.

Surface protection

It is recommended to use surface protection on furniture and objects to avoid scratching or marking.

Pressure washing

Do not use a pressure washer on LuxeSeries decking boards. The use of a high-pressure washer could cause irreparable damage to your deck.

Gaps & spans

	Uniformly Distributed Actions	Concentrated Actions	Centre-to-centre joist spacing
Residential*	1.5kPa	1.8kN	450mm
Residential stairs & landings*	2.0kPa	2.7kN	400mm
Commercial*	2.0kPa	2.7kN	400mm
Min. ground clearance (with adequate drainage)			40mm
Min. ground clearance (without adequate drainage)			90mm
Min. sided-to-side gap			Auto-spaced by clip
Recommended end gap			Refer to Expansion Gaps table
Edge Boards			Should be fully supported

*As per AS/NZS 1170.1. Visit Ultra-deck.com.au for engineering and compliance certificates and for more information on spans, loads and Residential and Commercial applications.

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Ventilation

The clearance from the ground must be no less than 40mm with drainage and 90mm without drainage.

However, if any part of the NCC or Section 6.2 of the ABCB Housing Provisions specify a greater distance for certain conditions, the specified clearance must be adhered to accordingly.

Cutting

For optimal results, use hardwood-grade saw blades when cutting Ultradeck boards.

If using a drop saw, we recommend a 60–80 tooth blade for a cleaner finish.

Where possible, wait to trim board ends until all boards are securely fastened. Trimming them together ensures a consistent, uniform edge across your entire deck.

Thermal expansion & contraction

Ultradeck boards naturally expand and contract in length with changes in temperature — this is a normal characteristic of all wood-plastic composites and is not considered a product fault.

It is essential to account for this movement during installation.

- For decks up to 5.4m in length, we recommend using full-length boards.
- For decks longer than 5.4m, the use of breaker boards is strongly advised to manage thermal expansion and maintain a clean finish.

Expansion gaps

It is important to take Thermal Expansion & Contraction into account when gapping your boards.

The below table can be used as a guide when discerning the appropriate gap (in mm) to leave at each end of your board, depending on board length and ambient temperature during installation.

		Ambient temperature during installation (°C)			
		10°C	20°C	30°C	40°C
Board length (m)	1m	2mm	1mm	1mm	1mm
	2m	2mm	1mm	1mm	1mm
	3m	2mm	1mm	1mm	1mm
	4m	3mm	2mm	1mm	1mm
	5.4m	3mm	2mm	1mm	1mm

e.g. If temperature during installation is 20°C, the recommended end gap for a 5.4m board is 2mm.

Guidelines to best manage gaps

- If a board feels warm to the touch or has been exposed to direct sunlight (i.e. hotter than the ambient temperature), we recommend reducing the end gap during installation to account for thermal expansion.
- Always leave a sufficient clearance from solid structures, such as posts or walls, to allow for expansion and contraction. This helps prevent potential damage to both the boards and surrounding structures.
- Allow boards to acclimatise to site conditions before installation. This helps Ultradeck boards adjust to the local ambient temperature.
- For best results, leave boards slightly overlength during installation. Fix them in place using the Quickfix system, then trim all board ends together using a circular saw and straight edge once they have settled — ideally the following day. This ensures a consistent and professional finish.