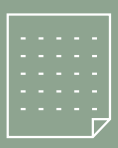
EKODECK®

Ekodeck® Decking

Classic / Product Manual



No oiling, staining or sealing



Easily repaired by sanding



15-year warranty

ekodeck.co.nz

V9.26

Ekodeck® Decking / Classic

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Ekodeck® Decking / Classic

TECHNICAL SPECIFICATIONS

Colours



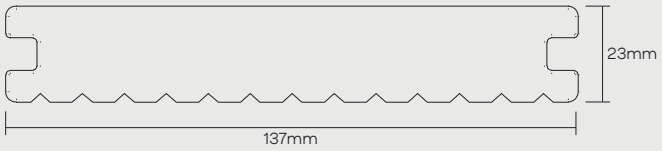
Greystone



Highland Oak

Decking Boards

COLOUR	SIZE	ITEM NO	PROFILE
Greystone	137×23×5400mm	0267428	
Highland Oak	137×23×5400mm	0267431	



Ekodeck® Decking / Classic

PRODUCT INFORMATION

Read this first

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

Warnings

1. Ekodeck® Decking is a pre-finished product, use care when storing, handling and installing to avoid damage.
2. It is the sole responsibility of the homeowner, contractor or the installer to determine the specific requirements, effectiveness, suitability and safety with regard to any application or use of Ekodeck® products.
3. Ekodeck® Decking is not designed to be a freestanding product. It must be installed safely and correctly fixed down to a substructure.
4. The substructure must comply with all the relevant regulations and aspects of the Building Code of New Zealand.
5. Ekodeck® Decking should not:
   A. Be used in a substructure application
   B. Be applied directly to a solid surface such as concrete
   C. Have a cantilever greater than 50mm
6. Any single piece of Ekodeck® Decking must be installed over at least 2 spans (i.e. 3 joists) to keep within the structural load bearing limits of its design.
7. Ekodeck® Decking must have sufficient gaps provided between boards and at joins and edges to allow for proper thermal movement and ventilation.
8. Structural elements including balustrading and pergolas should not be fastened to Ekodeck® Decking only. These should be fastened through the Decking to the subframe or adequate structural support for the application. Ensure that any fixings through the decking have adequate clearance for expansion.

Light refraction

In rare occurrences, sunlight can reflect or refract through glass or perspex creating a magnifying effect, whereby concentrated light and heat is focused on the product surface. This may lead to discolouration or damage.

This is not considered a product fault.

Safety

Always use proper protective clothing and safety equipment.

Ekodeck® Decking boards are heavier than traditional timber. Always exercise precaution and care when lifting.

Storage & handling

Ekodeck® 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 this side up



Ekodeck® Decking / Classic

PRODUCT INFORMATION

Natural variances & colour

Ekodeck® Decking is made by combining reclaimed timber with a mix of new and recycled plastics. It is designed to have a variation of colour and tone from one board/batch to another.

It is necessary to lay out your boards to ensure you have an even mix of both light and dark tones across the deck prior to cutting or installing to avoid large blocks of single tones. Boards cannot be exchanged or returned after they have been cut. If you do not accept the colour/finish of the board, do not cut or install it.

Ekodeck® Decking boards are subject to normal manufacturing variations and tolerances. Reasonable variances in board dimensions are not considered a product fault and due care should be taken when installing to allow for these.

Slip rating

Ekodeck® Decking boards are supplied with a certified anti-slip rating as per AS4586:2013. Over time, dependent on traffic, environment and other external factors, the surface may wear. It is the responsibility of the owner to periodically test the boards to ensure anti-slip rating requirements are being met.

Surface protection

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

Pressure washing

When using a pressure washer, ensure you wash the deck in a consistent manner to avoid stripes or swirls. We recommend using a fan spray nozzle, no more than 2000psi. Be sure to maintain a minimum distance of 30cm from the decking to avoid damage.

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. side-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 ekodeck.com.au for engineering and compliance certificates and for more information on spans, loads and Residential and Commercial applications.

Ventilation

We recommend a minimum of 40mm ground clearance, so long as there is adequate drainage beneath the deck.

Otherwise, we recommend a minimum of 90mm ground clearance.

Cutting

For best results, use hardwood blades. When using a drop saw we recommend a 60-80 tooth blade for cutting.

Where possible, delay any trimming of length until all boards are fully fastened and trim at the same time to achieve a uniform length for all boards across your deck.

End sealing

If installing around areas exposed to constant moisture, such as near swimming pools or spas, you must seal the ends with an appropriate clear, solvent-based paving or concrete sealer.

Thermal expansion & contraction

Ekodeck® expands and contracts in length with changes in temperature. This is normal behaviour of any wood plastic composite and is not a product fault.

It is most important to take this into consideration during installation of your Ekodeck® Decking.

Typically, Ekodeck® Decking will exhibit approximately 1-1.5mm of expansion/contraction per metre of board length.

Please note that any end gap left when the boards are hot will increase as they cool down and contract.

In extreme weather fluctuations (i.e. from a cold morning to full sun on a hot day), it is expected to see up to 8mm of expansion/contraction over a full 5.4m length.

For decks up to 5.4m in length we recommend running full length boards.

For decks longer than 5.4m we recommend the use of breaker boards.

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	2mm	1mm	1mm
	3m	3mm	2mm	2mm	1mm
	4m	4mm	3mm	2mm	1mm
	5.4m	4mm	3mm	2mm	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

- During installation, if the board is warm to the touch or has been sitting in full sun (i.e. hotter than ambient temperature) we advise to reduce the end gap.
- Ensure you leave a sufficient gap to solid structures, posts or walls to allow for expansion/contraction of Ekodeck and avoid damage to the boards or surroundings.
- Allow the boards to acclimatise to your site conditions. This allows your Ekodeck® to adapt to the ambient heat typical of your location.
- For each section of decking, leave your boards overlength. Fasten them down using Quickfix, then trim to length using a circular saw and straight edge to ensure all boards are the same length. This is best done after the boards have settled. (i.e. The following day after installation)

Breaker boards & picture framing

The use of breaker boards or picture framing your deck is strongly recommended.

Picture framing ensures a clean finish of your deck when using Ekodeck® Decking boards.

Breaker boards enable a single-board-length installation method, which helps manage the expansion and contraction characteristics of composite boards.



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



Example of a picture frame design (recommended):

Butt joints - Breaker boards & picture framing

Whilst we do not recommend the use of a butt joint method throughout the whole decking installation, in some instances it is necessary to end-to-end butt boards together - for example when running a breaker board or picture framing over 5.4m.

For best results, ensure that there is an adequate end gap left between the two boards. Refer to the End Gap Table above for reference, multiplying the recommended gap by 1.5X.

e.g. If the recommended End Gap is 2mm, leave a 3mm gap.

Two board ends should not share a single 45mm joist. It is necessary to double block any joists supporting butt joints.

Butt joints

Due to the thermal expansion properties of Ekodeck® we advise against the use of butt joints, regardless of the size of your deck.

It is difficult to ensure consistent and uniform gaps across your entire deck when using butt joints and boards of various lengths.

Mitre joints

When using a picture frame design on your deck, the corners of your picture framing boards can meet at an angled mitre joint.

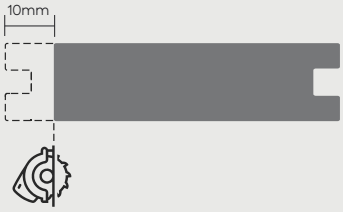
To reduce the likelihood of gaps opening, we recommend reducing the end gap suggested by the *Expansion gaps* table by 2mm.

Edge board finishing

There are no Edge Boards for Ekodeck® Classic. To make your own edge board:

- Measure back 10mm from the edge of your Ekodeck® Classic board and mark the length of your board.
- Using a circular saw, rip the groove off the board to give a square finish. We recommend the use of a straight edge.
- Sand the edge of the board using 40-grit sandpaper.

1.



2.



Edge board installation

The leading edge [square edge] of the edge board can be fastened two ways.

- Top fixing using a screw
- Angle bracket

If top fixing, be sure to predrill the board and countersink prior to fastening. We recommend using a 10g screw every 450mm.

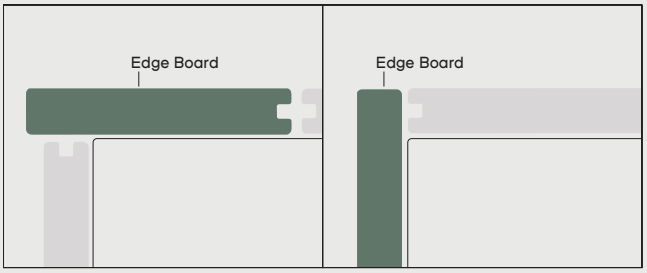
If using an angle bracket, source a suitable bracket (these are a generic angle bracket and not an Ekodeck® item) and secure them to the bottom of the Ekodeck board every 450mm using a suitable fastener.

Edge board positioning

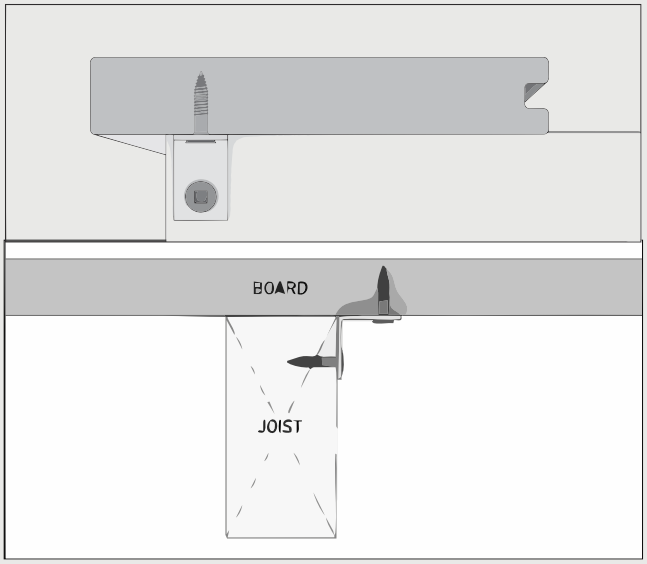
Position the edge board either horizontally or vertically, whichever your preference is.

Be sure to overhang the edge board enough to allow for a fascia to be set beneath it.

Over time, a vertical edge board may fill with debris - this is something to be mindful of.



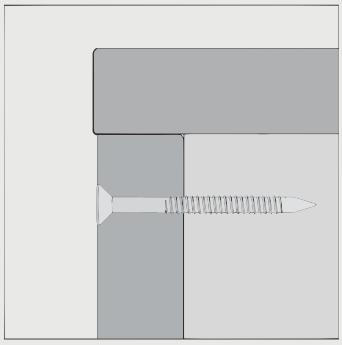
Angle bracket installation



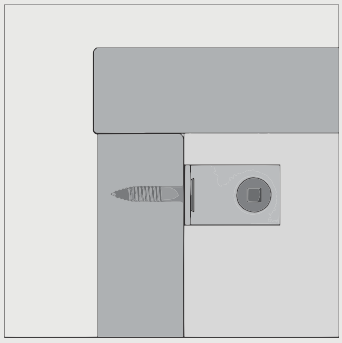
Fascia fixing options

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

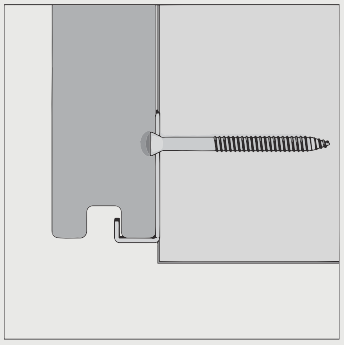
Face-fix



Angle bracket



C-Clip



Prior to cutting & installing

It is necessary to lay out your boards to ensure you have an even mix of both light and dark tones across the deck prior to cutting or installing to avoid large blocks of single tones. Boards cannot be exchanged or returned after they have been cut. If you do not accept the colour/finish of the board, do not cut or install it.

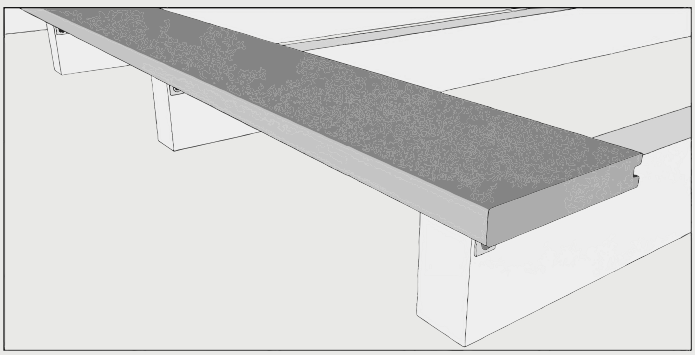
Starting from a step or edge (recommended)

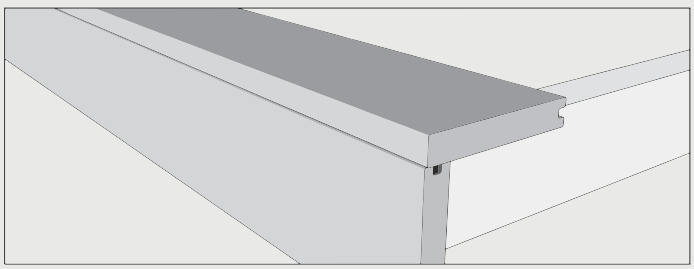
For best results, we recommend starting at the edge of your deck and working back to your wall/house. This ensures you have a full board at the edge or step of your deck where it is most exposed as well as offering a wider range of options to finish and fasten the leading edge of your board and fascia.

1. Finish the leading edge of your board appropriately to ensure a fascia can be installed for a clean finish. Refer to section Edge board finishing.
2. For a consistent finish free from screws, use angle brackets (not supplied) to fasten the leading edge of your edge board.

Alternatively, you can top-fix with screws. We recommend to pre-drill and countersink prior to fastening every 450mm.

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

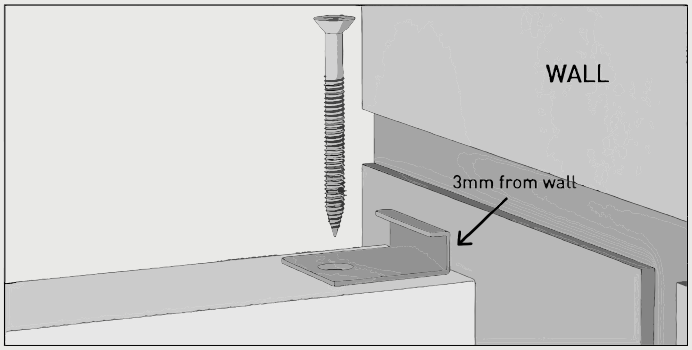


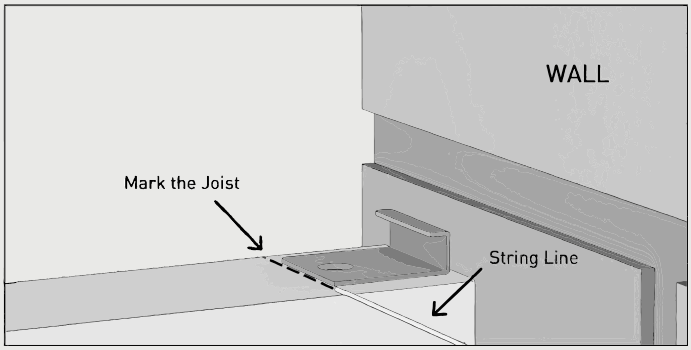


3. Consult the Fascia fixings options above and install your fascia boards if appropriate.
4. You can now begin to fasten your boards using Standard and Locking Clips - refer to Fastening Boards section

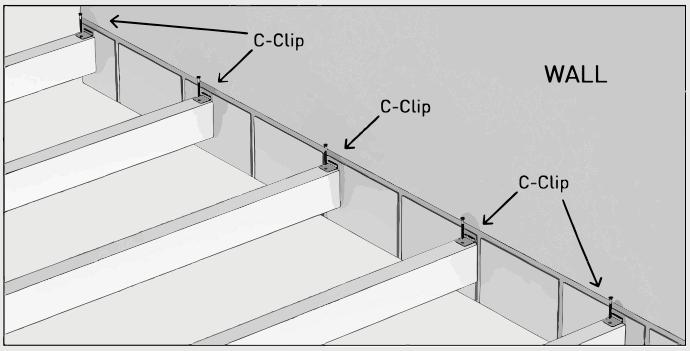
Starting from a wall

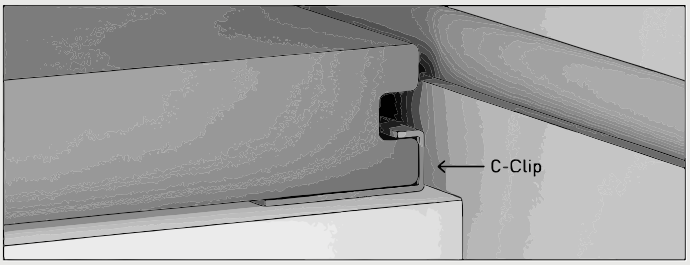
1. Position C-Clip on top of the first joist a minimum of 3mm from the wall and screw into place. Repeat on last joist.
2. Run a string or chalk line from the front edge of the C-Clip between the first and last C-Clip and mark the remaining joists.





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 Ekodeck® 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.



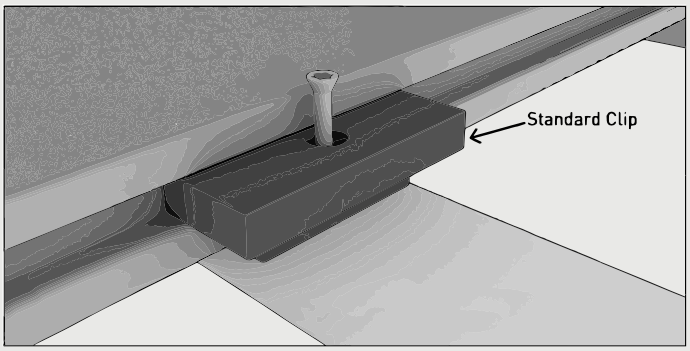


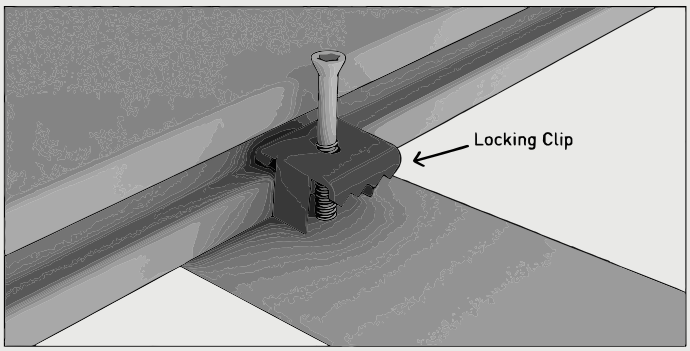
Fastening boards

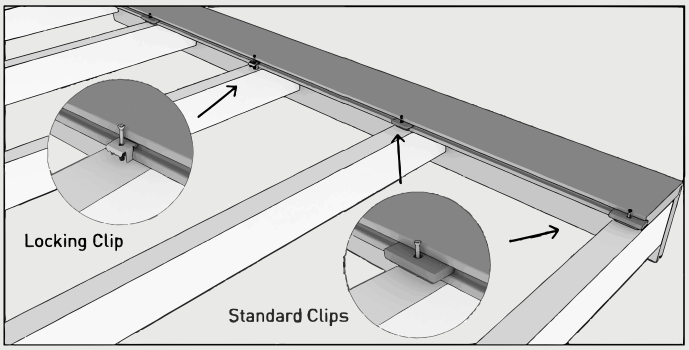
Depending on which Quickfix system you are using, the fastening of your Ekodeck® boards will slightly differ.

6mm board spacing

1. Insert Standard Clips and Locking Clip into the groove of the board. Note: you must use 1 (one) Locking Clip only per board, which is placed nearest the centre of each board. Screw down approximately 2mm to hold the clips in place.







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

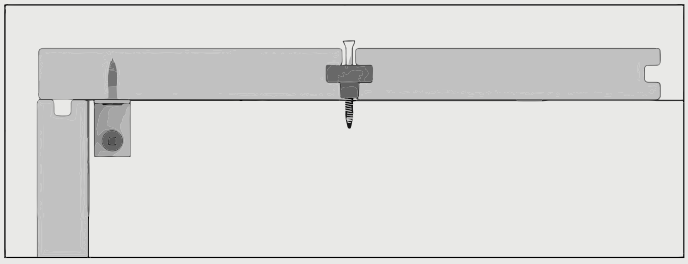
Failing to install a Locking Clip will allow your boards to shift and come out of alignment.

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.

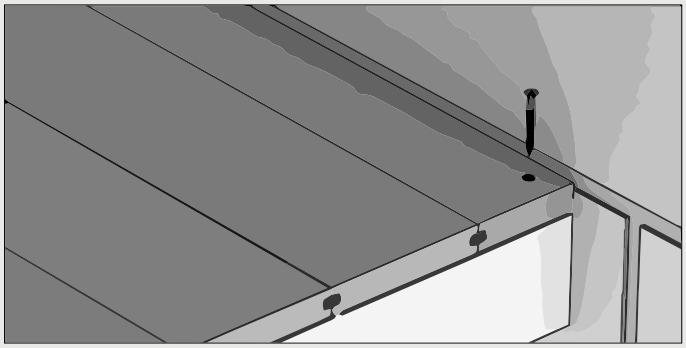
If you are installing on a steel frame, predrilling steel joists is necessary. The following table should be used as a guide to determine the size of drill bit needed.

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

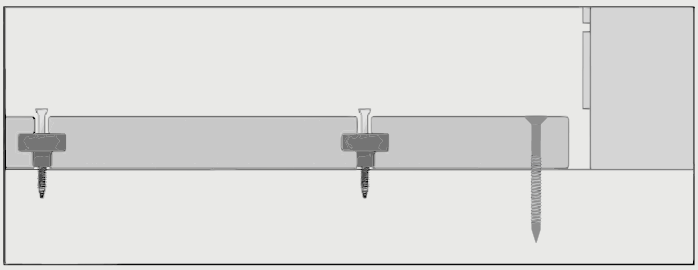
2. Push the next board into position.



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 Ekodeck® 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.



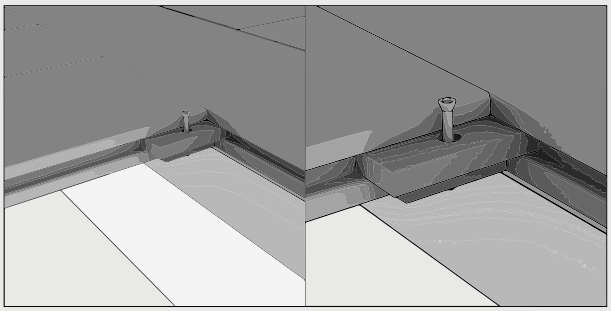
Joist material	Recommended screw
Timber	10g x 65mm 316SS countersunk screw
Metal	10g x 40mm countersunk screw suitable for metal

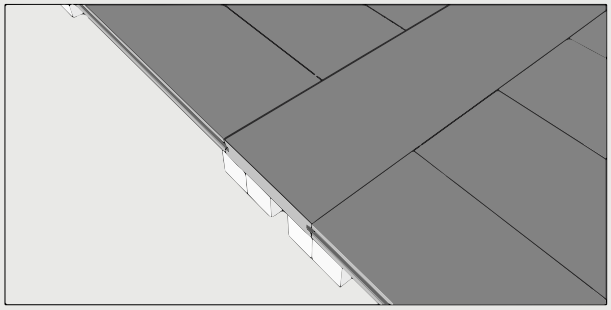


Breaker boards & picture framing - 6mm board spacing

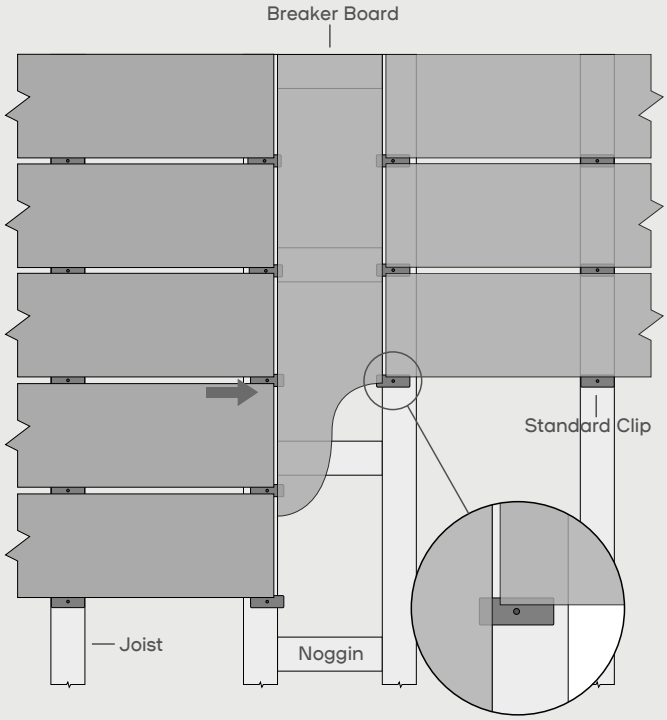
To secure your breaker board or picture frame you can use Standard Clips.

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





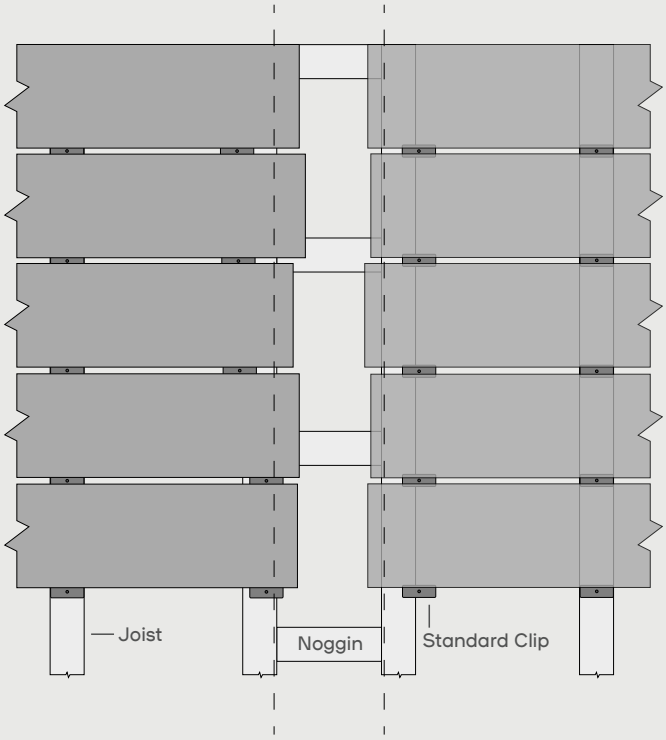
Suggested framework and clip placement



Step 1/4

Cut boards over-length. Install using Quickfix.

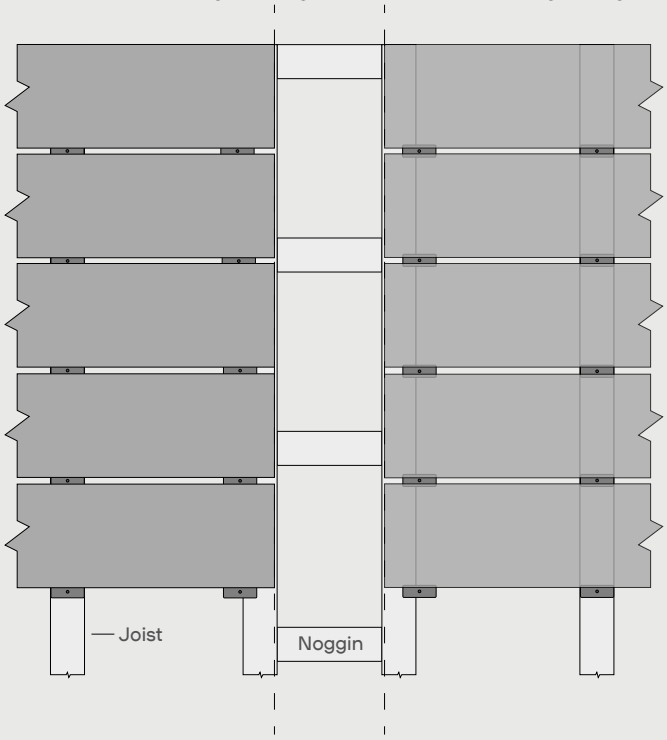
Leave last row of Standard Clips unfastened.



Step 2/4

Mark out breaker board location.

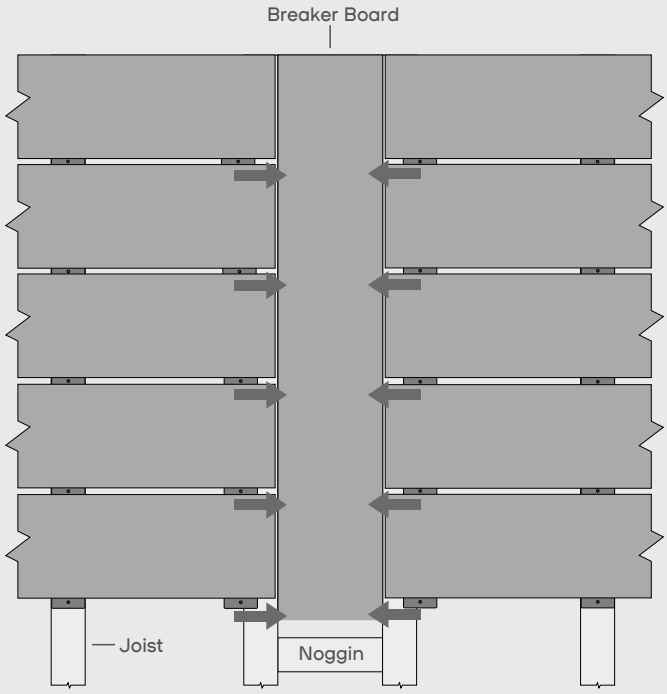
Trim boards to length using circular saw and straight edge.



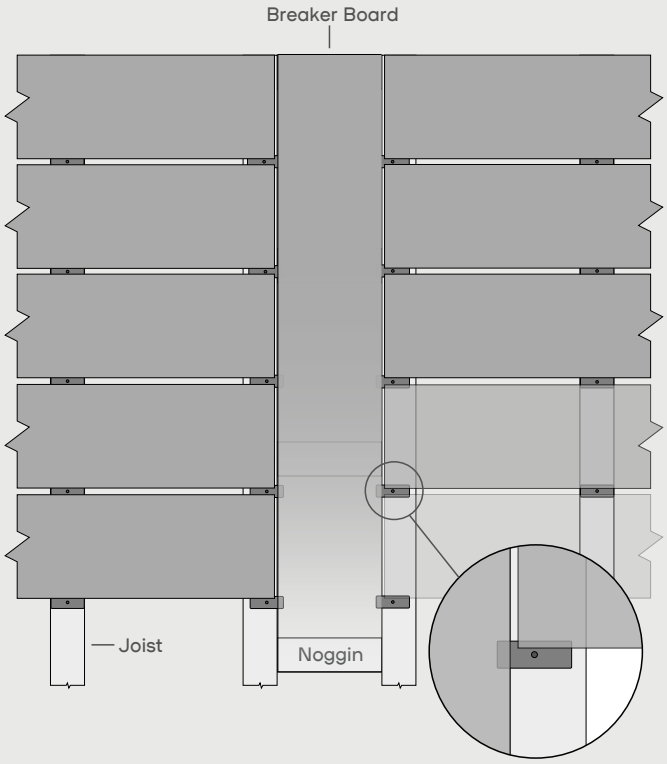
Step 3/4

Drop in breaker board.

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



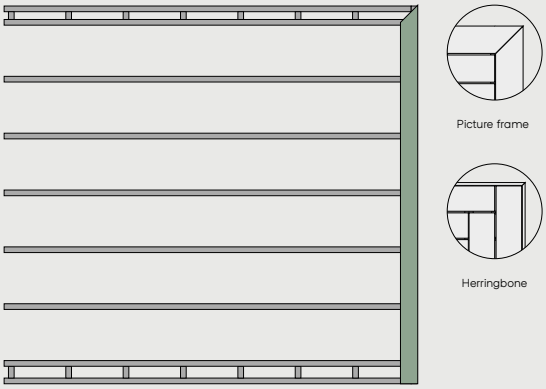
Step 4/4



Order of installation

Step 1: Mitre the corner of your first picture frame board and install.

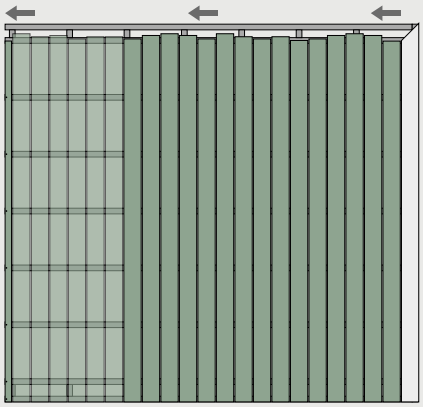
An alternative to better manage expansion and contraction is a herringbone corner.



Step 2: Cut all your decking boards slightly over-length and install - moving from the outside edge

(where you just installed the framing board) and moving back towards the house.

The last board installed along the house will most likely need to be ripped down to fit, and will need to be top-fixed with screws every 450mm along the last edge.

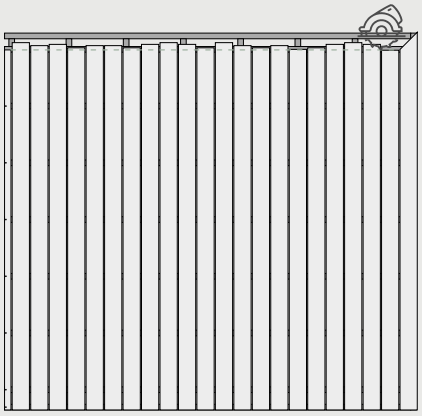


Handy Hint: Cut the first and last boards to length, this ensures you can get your circular saw in position.

Step 3: Trim decking boards to length all at once using a circular saw and guide.

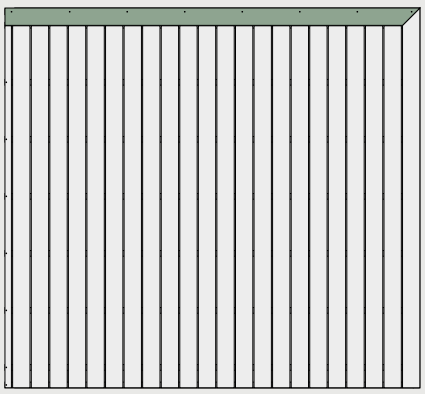
Handy Hint: Set the depth of your circular saw so as to not cut your joists.

Handy Hint: A length of Ekodeck® can be used as a straightedge to give you a straight cut.

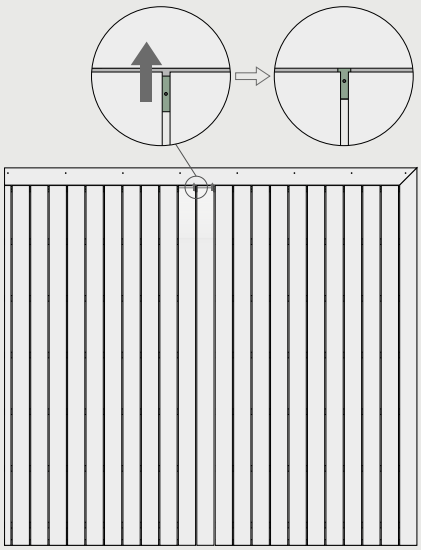


Step 4: Mitre the corner of your final picture frame board and install.

Note: You should be able to fasten the leading edge of your picture frame using C-Clips. Failing this, you may need to fix down the outside edge of the edge board by top fixing.



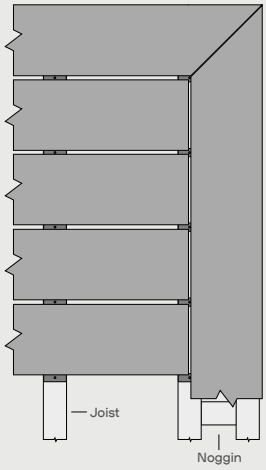
Step 5: Slide the ends of the Standard Clips into side of the framing board and screw down.

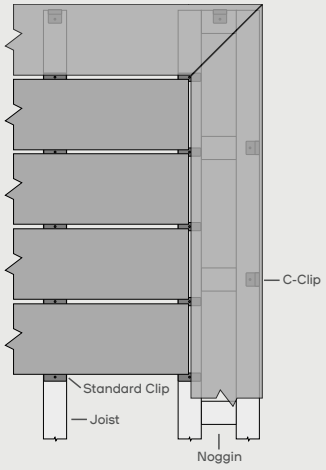


Finishing Options

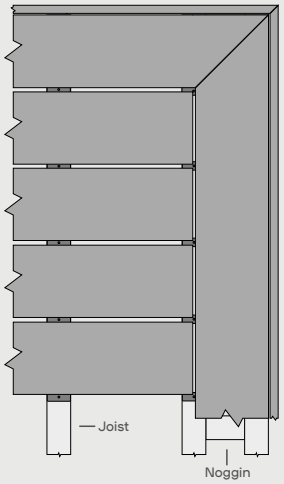
There are a variety of designs to choose from when it comes to finishing the corners and edges of your Ekodeck® Classic deck.
The following examples are shown using the 6mm Quickfix system.

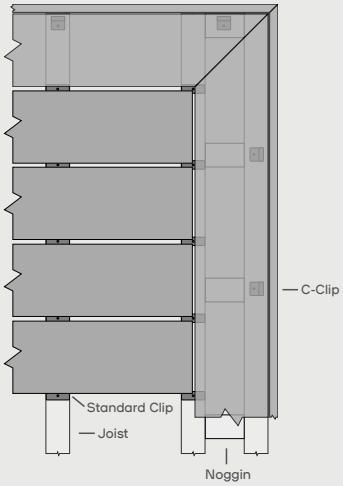
Picture framing



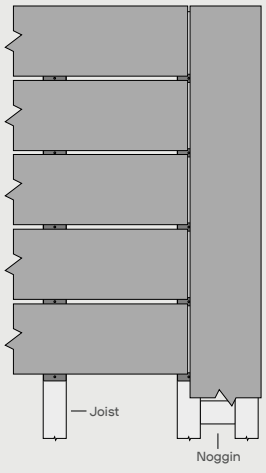


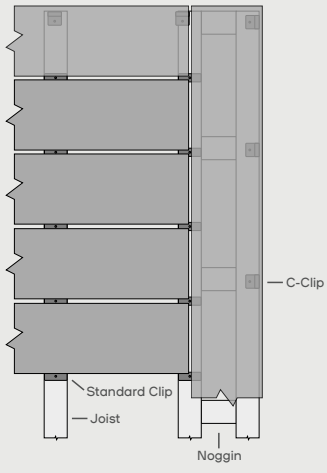
Picture framing with fascia board



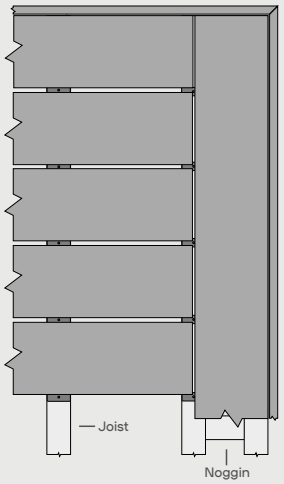


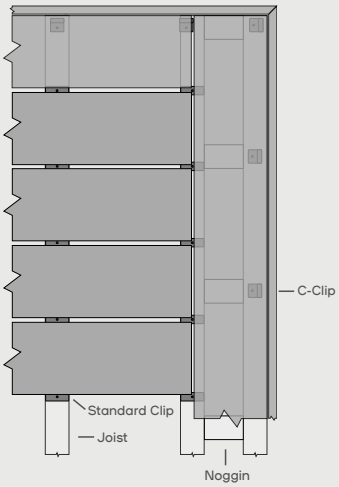
Single border



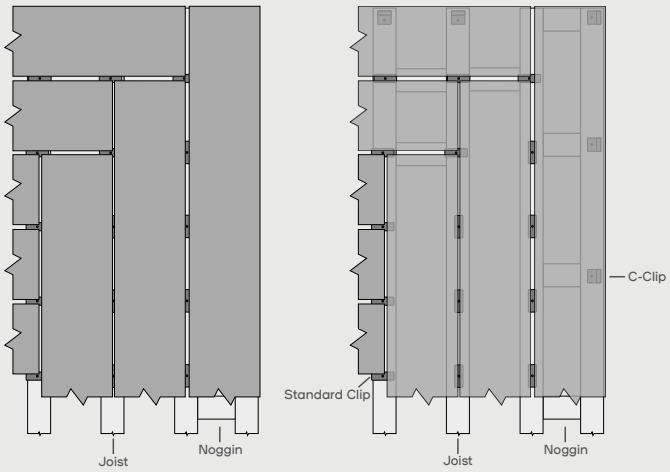


Single border with fascia board

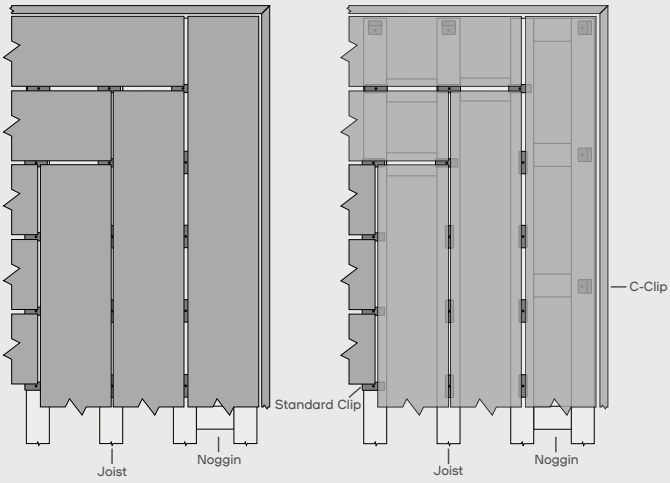




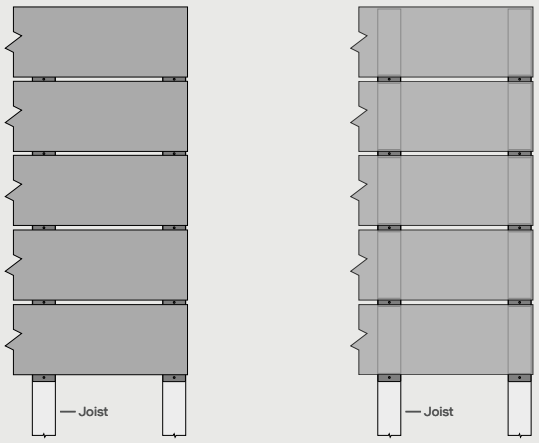
Herringbone detail



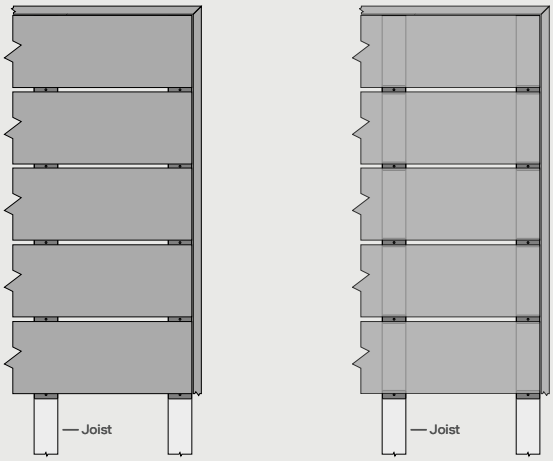
Herringbone detail with fascia board



No framing



No framing with fascia board



Ekodeck® Decking / Classic

TECHNICAL SPECIFICATIONS

TEST	STANDARD	RESULT
Global GreenTag™	-	Global GreenTag™ GreenRate Level C
Structural Design: Concentrated Loads & Spans*	AS/NZS1170.1:2002	**Residential**: Uniformly Distributed Actions 1.5kPa; Concentrated Actions 1.8kN; Joist Span 450mm **Residential Stairs & Landings**: Uniformly Distributed Actions 2.0kPa; Concentrated Actions 2.7kN; Joist Span 400mm **Commercial**: Uniformly Distributed Actions 2.0kPa; Concentrated Actions 2.7kN; Joist Span 400mm
Burning Behaviour	AS/ISO 9239.1-2003	CHF value (non-directional): 4.1kW/m^2 Smoke value (non-directional): 93%.min
Fire Related Characteristics	AS/NZS 1530.3-1999	Ignition Time (min): NI Flame Propagation Time (s): NA Heat Release Integral (kJ/m²)I: NA Ignitability Index (0-20): 8 Spread of Flame Index (0-10): 1 Heat Evolved Index (0-10): 7 Smoke Developed Index (0-10): 7
Weight	-	21.8kg per 5.4m length / 4.03kg/m / 28.23kg/m²
Coefficient of Linear Thermal Expansion	ASTM D6341-16	3.83×10^{-5} cm/cm/°C
Slip Resistance	1. AS4586:2013 Oil-wet inclining platform method 2. AS4586-2013 Wet pendulum test method	1. R11 2. P5
Luminance Reflectance Value (LRV)	AS 1428.1-2009 Appendix B (also compliant with AS/NZS 1428.4.1-2009)	Greystone In Dry: 6.66 In Wet: 4.44
Accelerated Weathering	AS1580 Method 601.1	?E*ab: 1.3 (minor change in colour)
Water Absorption	ASTM D570-98	0.51%
Rot & Decay Resistance	In-ground accelerated field simulator test designed by the University of Melbourne	Mass loss Ekodeck: 0.23% Mass loss Radiata Pine: 3.42%
Termite Resistance	Accelerated field simulator test designed by the University of Melbourne using subterranean termites (Coptotermes acinaciformis)	1.19g/cm^3

*See page 17 for more information

Ekodeck® Decking / Classic

TECHNICAL SPECIFICATIONS

TEST	STANDARD	RESULT
Janka Hardness	ASTM ASTM D1037-12	10.5 (very hard)
Charpy Unnotched Impact Strength	ASTM D6110-10	80 J/m C (Complete break)
Deflection Temperature Under Load	ASTM D648-07 Method B	105˚C
Screw Withdrawal & Lateral Resistance Characteristics	ASTM D1761 10g 316 stainless steel	Withdrawal resistance: 106N Lateral resistance: 1434N

ENGINEERING EVALUATION:
EKODECK® CLASSIC DECKING BOARDS, 137MM X 23MM

This document serves as a report from a professional engineer in accordance with Clause A5G3(1)(e) of the National Construction Code 2022 Volumes One, Two & Housing Provisions pursuant to demonstrating that Ekodeck® Classic, installed in accordance with the requirements detailed below contributes to a building or structure achieving NCC 2022 B1P1(2)(b) & H1P1(2)(b).

Deemed-to Satisfy clauses B1D3(b)(iii) reference AS/NZS 1170.1 for the determination of imposed actions. AS/NZS 1170.1 Table 3.1 provides reference values of imposed floor actions.

In all cases the design and use of Ekodeck® Classic must be independently verified, accounting for all relevant performance requirements, including, but not limited to, suitability for the particular application and strength of the supporting structure.

The ultimate Limit State (ULS) & Serviceability Limit State (SLS) performance of Ekodeck® Classic have been verified based on:
- Testing in accordance with the principles of AS/NZS 1170 series at an Accredited Testing Laboratory (Reports 230621010SHF-001, GZHH00510149); and,
- Calculation of design capacities of the Ekodeck® Classic by a professional engineer in accordance with AS/NZS 1170.1, Appendix B; and,
- Comparison with the design action effects based on combinations of actions for strength and serviceability for the imposed floor actions provided in AS/NZS 1170.1, Table 3.1.

Ekodeck® Classic shall be installed in accordance with Ekodeck® Classic / Installation Guide, V6.23 onto supports;
- with minimum bearing width of 45mm; and,
- with minimum support spacing / design concentrated action combinations, of;
  - 450mm/1.8kN, 400mm/2.7kN, 350mm/3.6kN, 300mm/4.5kN,
- with each board installed over at least two (2) spans.

Ekodeck® Classic is suitable for external decking application in accordance with the following AS/NZS 1170.1 Table 3.1 imposed floor actions and maximum support spacings.

EKODECK® CLASSIC DECKING SYSTEM Performance to AS/NZS 1170.1:2002. T.3.1

Type of activity / occupancy for part of building or structure	Specific uses	Uniformly distributed actions (kPa)	Concentrated actions (kN)	Max. joist spacing c/c (mm)
A Domestic & residential activities (see also Cat C)				
A1 Self-contained dwellings	General areas, private kitchens and laundries in self-contained dwellings	1.5	1.8[1]	450
	Balconies used for floor type activities in self-contained dwellings: (a) less than 1m above ground level	1.5	1.5kN/m run along edge	450
	(b) other	2.0	1.8[1]	450
	Stairs[2] and landings in self-contained dwellings.	2.0	2.7	400
A2 Other	Balconies used for floor-type activities with community access.	Same as areas providing access but not less than 4.0	1.8	450
B Offices & work areas not covered by elsewhere				
	Balconies used for floor-type activities.	Same as areas providing access but not less than 4.0	1.8	450
C Areas where people may congregate				
C1 Areas with tables	Public, institutional & communal dining rooms & lounges, cafes & restaurants[5]	2.0	2.7	400
C3 Areas without obstacles for moving people	Corridors, hallways, aisles, stairs[2], landings[2], concourses, terraces, plazas etc not subject to wheeled vehicles.	4.0	4.5	300
	Corridors, hallways, aisles, stairs[2], landings[2] etc subject to wheeled vehicles, trolleys etc.	5.0	4.5	300
	Balconies used for floor-type activities.	Same as areas providing access but not less than 4.0	1.8	450
C5 Areas susceptible to overcrowding	Assembly areas without fixed seating[6] (concert halls, barsm vestibulesm public lounges, places of worship, shopping malls) and grandstands.	5.0	3.6	350
	Stages in public assembly areas.	7.5	4.5	300
D Shopping areas				
	Shop floors for the sale and display of merchandise.	4.0	3.6	350

AS/NZS 1170.1, Table 3.1 Notes - Design and Installation:

(1) for AS/NZS 1170.1 T3.1 domestic & residential activities, 1.8 concentrated action shall be applied over an area not less than 350mm2 (Refer to Note 1, AS/NZS 1170.1:2002, Table 3.1); and, 2.7kN concentrated actions, shall be applied over an area not less than 0.01m2 (Refer to AS/NZS 1170.1:2002, Cl.3.3(b)).

(2) Where a stair tread or landing is structurally independent of the adjoining elements, it shall be capable of withstanding a line load of 2.2kN/m of span of tread or landing. Boards shall be fully supported at stair treads or landings.

(5) Fixed seating is seating where the removal of the seating and the use of the space for other purposes is not likely.

Analysis Notes:

a) ULS strength combination 1.2G+1.5Q.

b) Design governed by serviceability deflection from concentrated action on a single board.

c) SLS deflections for distributed & concentrated actions G+ψQ (ψ=0.7).

d) Recognition & acceptance of deflection is at the discretion of the designer/user. Deflections are limited to; 2.7mm, SPAN/150 for 1.8kN action; 2.5mm, SPAN/143 for 2.7kN action; 2.4mm, SPAN/145 for 3.6kN action; and 1.6mm, SPAN/167 for 4.5kN action.

e) Floor vibration deflection limited to 2mm for 1.0kN point load & max. support spacing 450mm.

f) Modelled as 2-span continuous beam, each board supported on 3-joists.

g) Mean tested values of MOE and MOR with Material Reduction Factor = 1.1.

h) A Creep Factor of 4.0 is assumed, the long-term deflection from a significant concentrated action can be up to 4-times the short-term deflection and are best located over supports rather than at mid-span of the boards.

The analysis performed covers only those matters and products listed and excludes any other matter or product. The information presented in this report is valid for the shortest of the following periods:

- Until the product/system becomes modified in any way; or
- Until superseded by more recent technical information or by other certification; or
- Until Installation Guide, V6,23 is superseded; or
- Until the particular referenced parts of the NCC are superseded in the NCC or in State or Territory Building Regulations; or
- Until the particular referenced Standards are superseded.

Ekodeck® Decking / Classic

CARE & MAINTENANCE

Overview

Ekodeck® Classic is not a self cleaning product.

It will require periodic cleaning, especially in undercover or alfresco areas.

Cleaning requirements of your Ekodeck® Classic product will vary depending on product use and weather exposure.

Ekodeck® Classic is a semi-porous product which can stain, especially if not cleaned regularly.

This guide will give you some basic principles that will help you maintain the natural beauty of your Ekodeck® Classic.

Surface Protection

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

This product is not impervious to scratching.

Slip Rating

Ekodeck® Decking boards are supplied with a certified anti-slip rating as per AS4586:2013.

Over time, dependent on traffic, environment and other external factors, the surface may wear.

It is the responsibility of the owner to periodically test the boards to ensure anti-slip rating requirements are being met.

General Clean

A **General Clean** is essential immediately after installation to remove surface debris from transport and installation, and periodically as you see fit:

1. Scrub the deck with hot water and dishwashing liquid using a stiff-bristled broom, moving in the direction of the grain.
2. Rinse your deck thoroughly - a high pressure hose is recommended.
3. For best results, push any remaining water off the deck. A squeegee is recommended.

We recommend a **General Clean** is performed at least annually to minimise potential surface oxidation.

Stubborn Stains

If you are left with some stubborn stains after a **General Clean**, using a stain remover may be necessary.

We recommend the use of an aerosol car/engine degreaser to remove oil-based stains. Spray the affected area and lightly scrub with a soft cloth to remove the stain.

Follow with a **General Clean** to wash away the degreaser, being sure to apply a mixture of dishwashing liquid and warm water to your deck and let sit for 15 minutes before cleaning.

This product is not impervious to staining.

Scratches & Marks

In the event your Ekodeck® is scratched, it can easily be repaired by lightly sanding in the direction of the grain using 40g sandpaper.

Ekodeck® Classic's colour is consistent all the way through the board.

Water Marks & Tannins

Tannins are naturally found in timber which accounts for 45% of Ekodeck® Classic's composition. These tannins will excrete from the boards over time. This may create water marks following an episode of rain.

A **General Clean** will remove these water marks and help to accelerate the removal of tannins.

Dirt Marks

Exposed dirt in surrounding areas can lead to foot and pet traffic bringing unwanted dirt onto your deck. This dirt can become embedded in the textured grain of your Ekodeck®.

In the event this occurs, we recommend soaking the area with hot soapy water to loosen the debris, then give the boards a thorough clean with a pressure washer.

Ensure you pressure wash the deck in a consistent manner to avoid stripes or swirls.

We recommend using a fan spray nozzle no more than 2000psi.

Mould

Mould is often caused by a surrounding environment of constant moisture and shade. A dirty deck will also promote the growth and spread of mould.

If mould grows on your Ekodeck® Classic, we recommend the use of **30 Seconds Mould Off** to remove it.

It is recommended to clean your deck more regularly if mould reoccurs.

Weathering

Ekodeck® is a colour-fast and UV-stabilised product that will not lose its colour.

Like any outdoor building material, there may be a slight colour shift upon initial exposure to UV. This may be noticeable in areas where pots, mats or other furniture has been left for extended periods of time. This is to be expected and is not a product fault.

Painting, Oiling or Sealing

We do not recommend the use of any oils, stains, sealants, paints or any type of coating on Ekodeck®.

Any coatings applied to an Ekodeck® product are done so at own risk.

EKODECK CLASSIC WARRANTY
NEW ZEALAND EXPRESS WARRANTY

1. DEFINITIONS

1.1. The following terms have the following corresponding meaning:

"Application" means either Commercial Application or Residential Application as applicable.

"Authorised Purpose" includes, as determined by Ekodeck in their sole discretion, the following:

(a) installation of the Product in accordance with the applicable Ekodeck Installation Guide and Ekodeck Engineering Evaluation Certificate; and or

(b) use of the Product in a Residential Application or a Commercial Application; and or

(c) compliance with Ekodeck's Care & Maintenance Guide.

"Care & Maintenance Guide" means the care & maintenance procedures published by Ekodeck on Ekodeck's website: www.ekodeck.co.nz

"Commercial Application" shall refer to any use of the Product in commercial enterprise and in circumstances that do not fall within the definition of Residential Application.

"Defect" means a defect in the design, the workmanship, or the materials or a failure of the whole or part of the Product.

"Defective Product" means a Product that suffers from a Defect.

"Ekodeck" means Ekologix Australia Pty. Ltd. ACN 133 471 619 or any trading entity of Ekodeck.

"Ekodeck Engineering Evaluation Certificate" means the engineering certificate published by Ekodeck on Ekodeck's website: www.ekodeck.co.nz

"Installation Guide" means the Product installation instruction and procedures published by Ekodeck on Ekodeck's website: www.ekodeck.co.nz

"Product" means the product to which this Manufacturer's Warranty is attached when originally purchased from an authorised Ekodeck distributor.

"Purchaser" means any original end user of the Product who purchased the Product for an Authorised Purpose from an authorised Ekodeck distributor.

"Residential Application" shall refer to the use of the Product at a natural person's domicile and where the Product was purchased solely for personal, domestic or household use.

"Term" means a maximum period of 10 years or 25 years, as applicable, calculated from the date of purchase of the Product as stated on your receipt or invoice, subject to compliance with Ekodeck terms and this Warranty.

"You" means the purchaser.

2. THE WARRANTY

2.1 This Express Warranty is only between You and Ekodeck and is not transferable.

2.2 Ekodeck warrants to the Purchaser that the Product when used for an Authorised Purpose:

2.2.1. is of merchantable quality;

2.2.2. is free from Defects;

2.2.3. is fit for purpose;

2.2.4. complies with legislative requirements at the time of purchase; and

2.2.5. shall not split, rot, splinter or suffer structural damage.

(Hereafter collectively referred to as the **"Warranty"**).

2.3. The Warranty commences on the date that the Purchaser purchases the Product and expires on the following corresponding date being fifteen (15) calendar years from the date of original purchase by a Purchaser of the Product used in a:

2.3.1. Commercial Application; or

2.3.2. Residential Application.

(Hereafter collectively referred to as the **"Warranty Period"**).

2.4. Ekodeck, acting reasonably, will determine whether the Product was used in a Residential Application or Commercial Application having regard to the Claim.

3. WARRANTY CLAIM PROCEDURE

3.1. If You believe a Product has a Defect You must follow this Warranty Claim Procedure.

3.2. During the Warranty Period, the Purchaser must provide written notification together with supporting documents to Ekodeck within 30 days from the Purchaser discovering the Defect (**"Notice"**).

3.3. The Notice must include:

3.3.1. details with respect to the application of the Product;

3.3.2. a clear description of the alleged Defect;

3.3.3. photographs of the alleged Defect;

3.3.4. quantity of the Product claimed to be defective; and

3.3.5. proof of original receipt (or other evidence displaying the date of purchase, with such further evidence to be to the reasonable satisfaction of Ekodeck).

(Hereafter collectively referred to as a **"Claim"**).

3.4. Upon receipt of the Claim, Ekodeck will contact the Purchaser as soon as practically possible to investigate the Claim, where Ekodeck will seek to establish the cause of the Claim.

3.5. If a Defect is found, Ekodeck may, at its sole discretion, repair the Defective Product, supply new or like-for-like board, parts or components to replace the Defective Product (or part thereof). If an identical part or component is not available, Ekodeck may repair or supply parts and components of similar quality, grade, and composition. The provision of replacement boards relates only to the supply of product and does not include any costs associated with removal, disposal, or installation.

3.6. In addition to the rights of Ekodeck in clause 3.5 of this Warranty, Ekodeck may, at its sole discretion, elect to refund all or part of the purchase price paid by Purchaser for the Defective Product.

4. LIMITATIONS AND EXCLUSIONS TO WARRANTY

4.1. Where a Defect arises due to mould or mildew, the Warranty Period is limited to two (2) years from the Date of Purchase, irrespective of any other provision in this Warranty.

4.2. This warranty does not cover installation and or use of the Product for any purpose that is not an Authorised Purpose.

4.3. For the purpose of this Warranty, the following matters are excluded from the definition of a Defect:

4.3.1. improper installation, maintenance or handling of the Product and/or failure to abide by Ekodeck's installation or maintenance guidelines, including but not limited to improper gapping;

4.3.2. use of the Product in an application not recommended by Ekodeck's guidelines and applicable codes or standards;

4.3.3. movement, distortion, collapse or settling of the ground or the supporting structure on which the product is installed;

4.3.4. any act of God (including flooding, earthquake, lightning and any other naturally occurring environmental or other disaster);

4.3.5. staining from foreign substances (including mould, mildew, dirt, grease, oil and any other substance);

4.3.6. improper storage, abuse or neglect of the Product by Purchaser;

4.3.7. overloading;

4.3.8. ordinary wear and tear (including natural occurring change of colour associated with time and or exposure to natural elements);

4.3.9. splitting, swelling, cracking and delamination around screws;

4.3.10. any natural colour variance in the Product(s);

4.3.11. any cutting of the Product that compromises the structural integrity of the Product; or

4.3.12. using the Product beyond the capabilities associated with the applicable New Zealand Standard.

4.4. This Warranty does not extend to cover:

4.4.1. costs associated to remove any Defective Product from the Purchaser's premises, or the location of the Product;

4.4.2. any charges incurred by the Purchaser in returning any defective product to Ekodeck or in notifying Ekodeck of the alleged defective product;

4.4.3. costs associated with installing any replacement product;

4.4.4. costs associated with making a claim under this Warranty, including costs such as postage and handling; and

4.4.5. any other reasonably foreseeable costs incurred.

4.5. Ekodeck board dimensions and colour are subject to normal manufacturing variations and tolerances. Reasonable variances, as determined by Ekodeck, in Product dimensions and colour are not considered a defect under this Warranty and are specifically excluded. Due care should be taken when installing Ekodeck Products to allow for such variance.

5. GENERAL CONDITIONS

5.1. Ekodeck or any of its affiliated employees or agents will not be liable for any direct, indirect, special or consequential loss or damage arising out of the use of, or handling of any Ekodeck Product whatsoever, including any direct, indirect, special or consequential loss or damage suffered as a result of the negligence of Ekodeck, except those which cannot be excluded by law.

5.2. Nothing in this Express Warranty shall affect Your rights under the *Consumer Guarantees Act 1993*.

6. SEVERABILITY

6.1. If any term of this Warranty is held to be illegal, void or unenforceable in a jurisdiction, then:

6.1.1. where the term can be read down so as to give it a valid and enforceable operation of a partial nature, it must be read down to the extent necessary to achieve that result, and

6.1.2. in any other case the term must be severed from this Warranty for that jurisdiction in which event the remaining terms operate as if the severed provision had not been included.

7. CONTACT INFORMATION

7.1 Ekodeck can be contacted at:

Business address: Unit 6, 11 Sabre Drive
Port Melbourne, Victoria
Australia 3207

Phone: 0800 466 461

Email: info@ekodeck.co.nz