

Naxan decking



Installation Guide



System components*

*Must be procured from approved supply partners.



DKG Series Board
DKG 14025
4800 x 140 x 25mm



DKN Series Board
DKN 12520
4800 x 125 x 20mm



Fascia Board
FP200
3600 x 200 x 7mm



12mm Dowel
RR12
For capping



Starter Clip with Screw
SS40



**Concealed Fixing
Clip With Screw**
T4E



Approved Stain/Sealer



Design considerations

1. Framing

Timber: must comply with AS1684 for 'Residential timber-framed construction.'
Steel: NASH standard for residential and low-rise steel framing and manufacturer's framing specifications.

2. Span capacity

Residential installation: maximum of 450mm centre to centre joist span.
45° angle installation: maximum of 300mm centre to centre joist span.
Commercial installation: maximum of 300mm centre to centre joist span.

3. Structural joints and connections

All framing bolts, screws, nails, and hardware used in the construction of the deck must be durable and compatible with other materials and exposure to coastal or corrosive environment.

4. Fall and drainage

Decks should have a fall of at least 1:100 from the building to facilitate drainage. Flash decking to building where moisture can build up.

5. Termite risk management

Timber used for framing must comply with the National Construction Code (NCC), AS 3660.1.

6. Ventilation and drainage

Good airflow and prevention of water buildup underneath the deck is essential. A minimum of 70mm clearance is required below the decking boards over concrete and 300mm over soil.

7. Fixing

Use clips T4E for concealed fixing. Ensure clips are no closer than 15mm from the end of each board. Nail guns must not be used for installation of Naxan decking. If an alternative fixing method is required refer to authorised distributor.

8. Overhang

Maximum overhang must not exceed 25mm.

9. Expansion gap

Naxan decking will expand and contract along its length by approximately 1mm per metre over 10°C warmer than the ambient air temperature. Expansion can be reduced by using shorter lengths such as 2700mm or breaker boards. Installation should be carried at cooler ambient temperatures (below 30°C). Adjust butt joints as indicated in Fixing details on page 15.



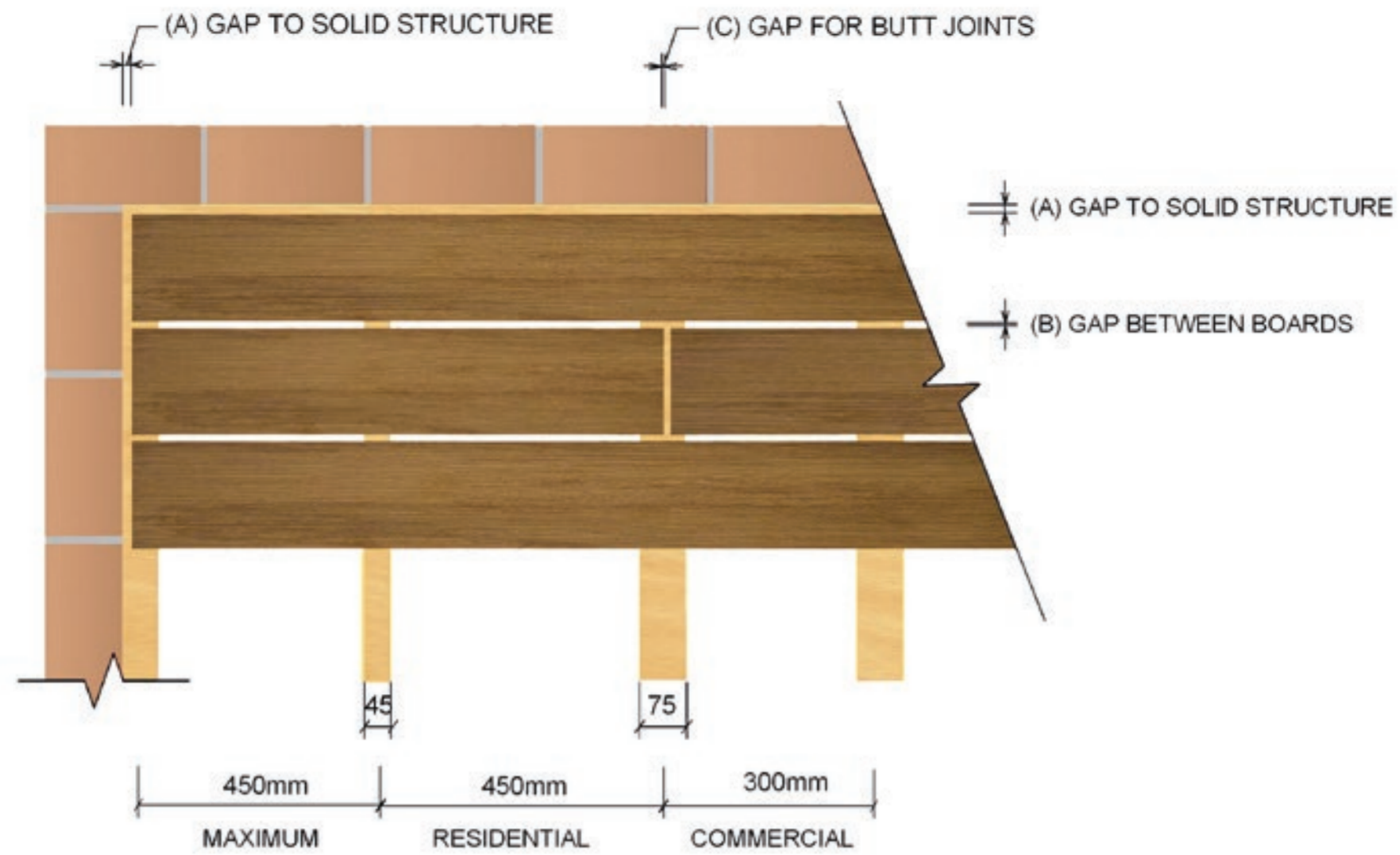
Installation details

Fixing details

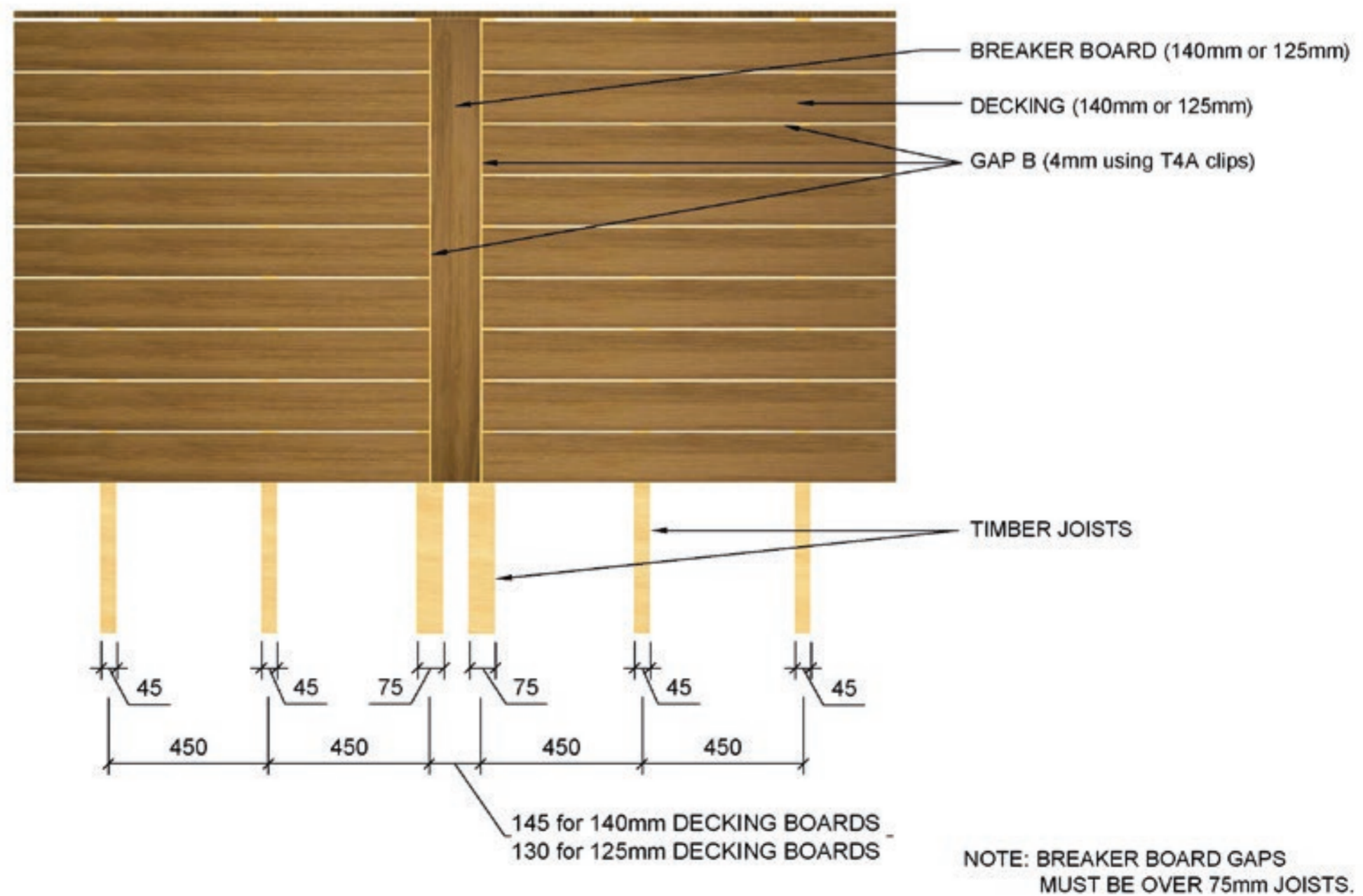
Dimensions (width)	125 x 20mm	140 x 25mm
A. Minimum end-gap to solid structure	10	10
B. Minimum gap – side by side	4	4
C. Minimum end-gap butt joint	5	5
Minimum distance from edge of board for fixing	25	25
Minimum ground clearance	300	300
Minimum clearance over concrete	70	70
Joist centres – residential (max)	450	450
Joist centres – residential diagonal (max)	300	300
Joist centres – commercial (max)	300	300
Zig-zag fixing	Yes	Yes
Fixing to steel structures	Yes	Yes
Fixing over concrete	Yes	Yes

Important: At all times, do not overdrive screws. Fix with low to medium torque.

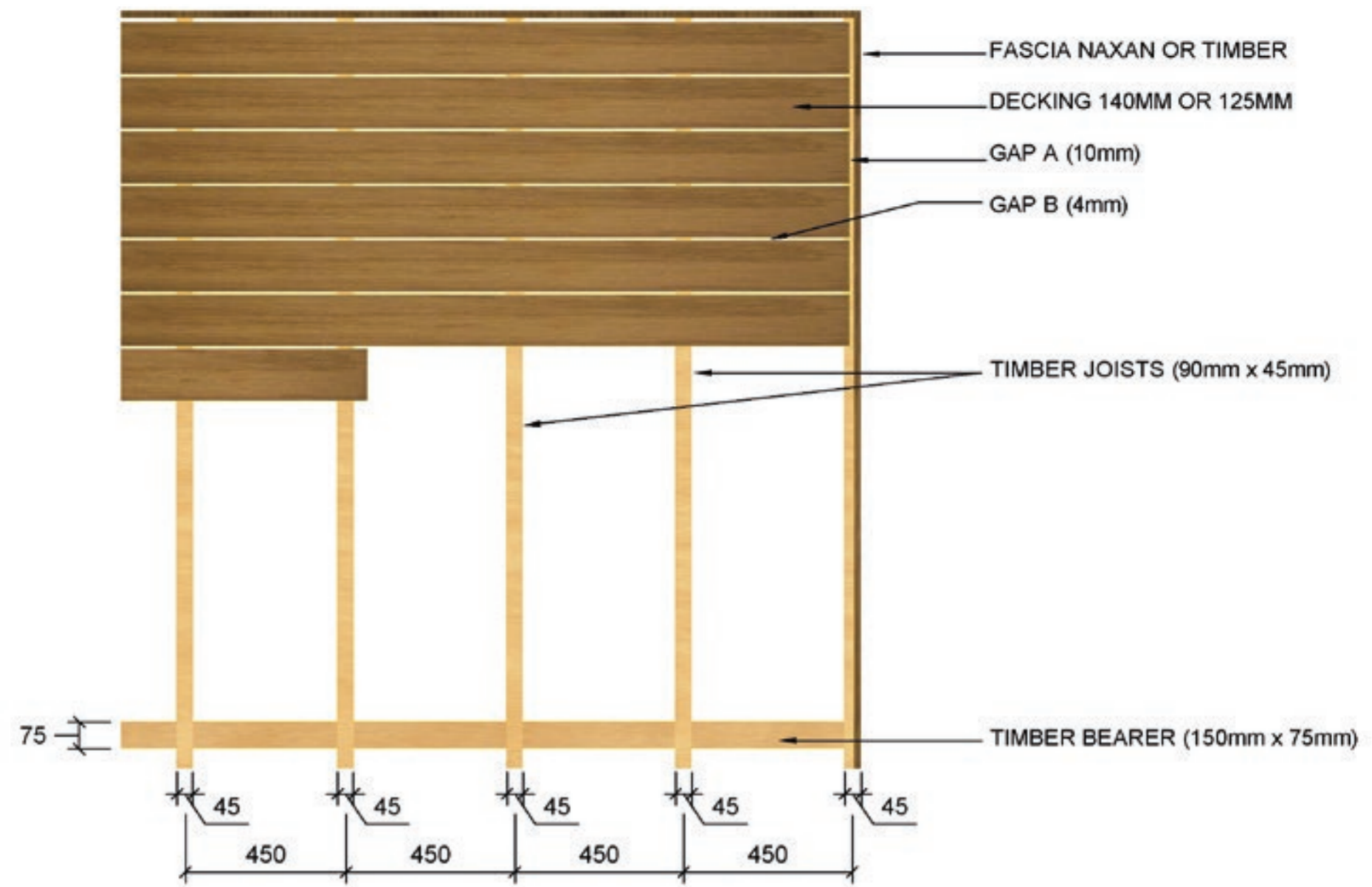
Spacing of boards



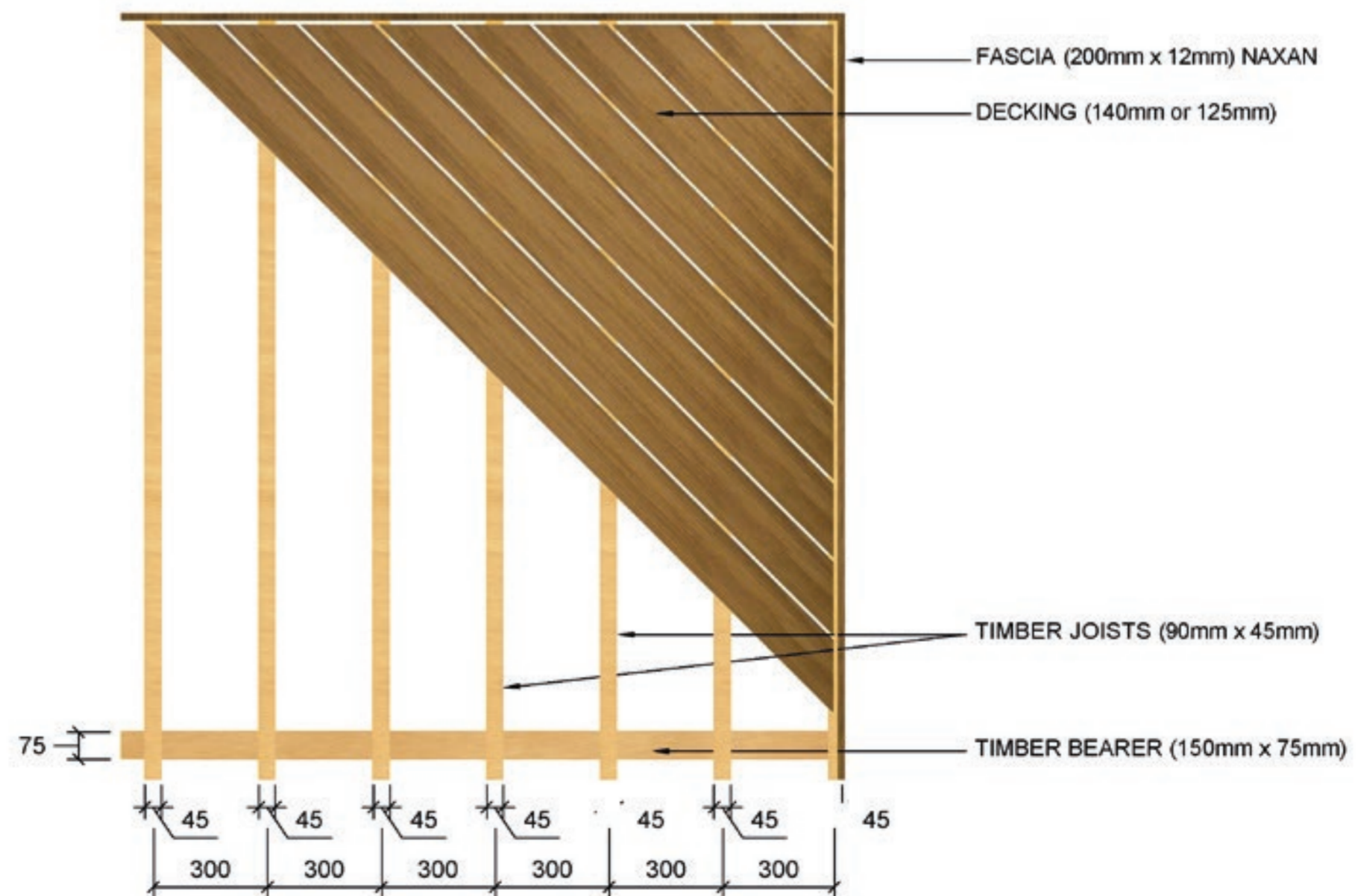
Breaker board joist layout



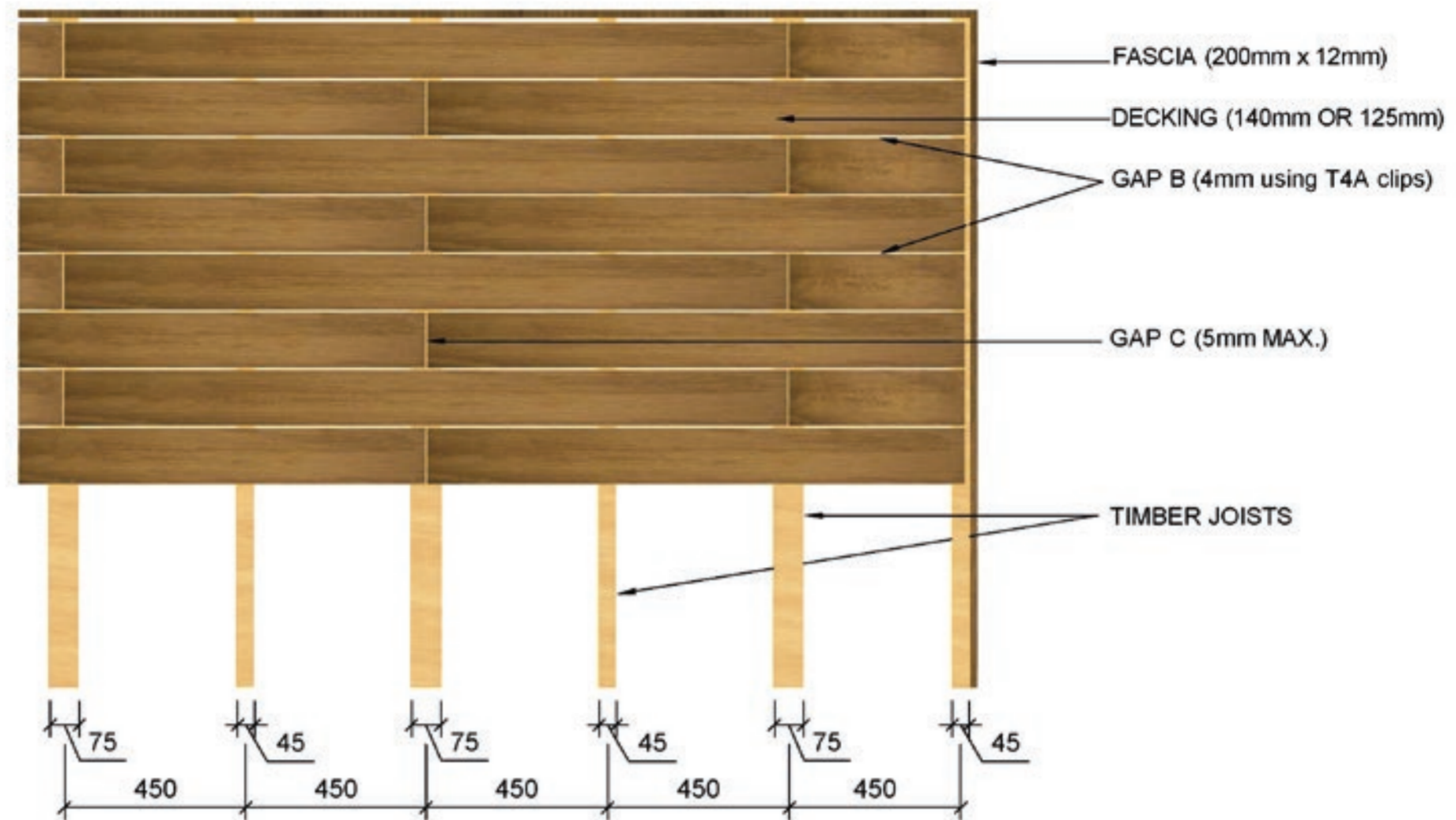
Standard joist layout



Joist layout for diagonal decking

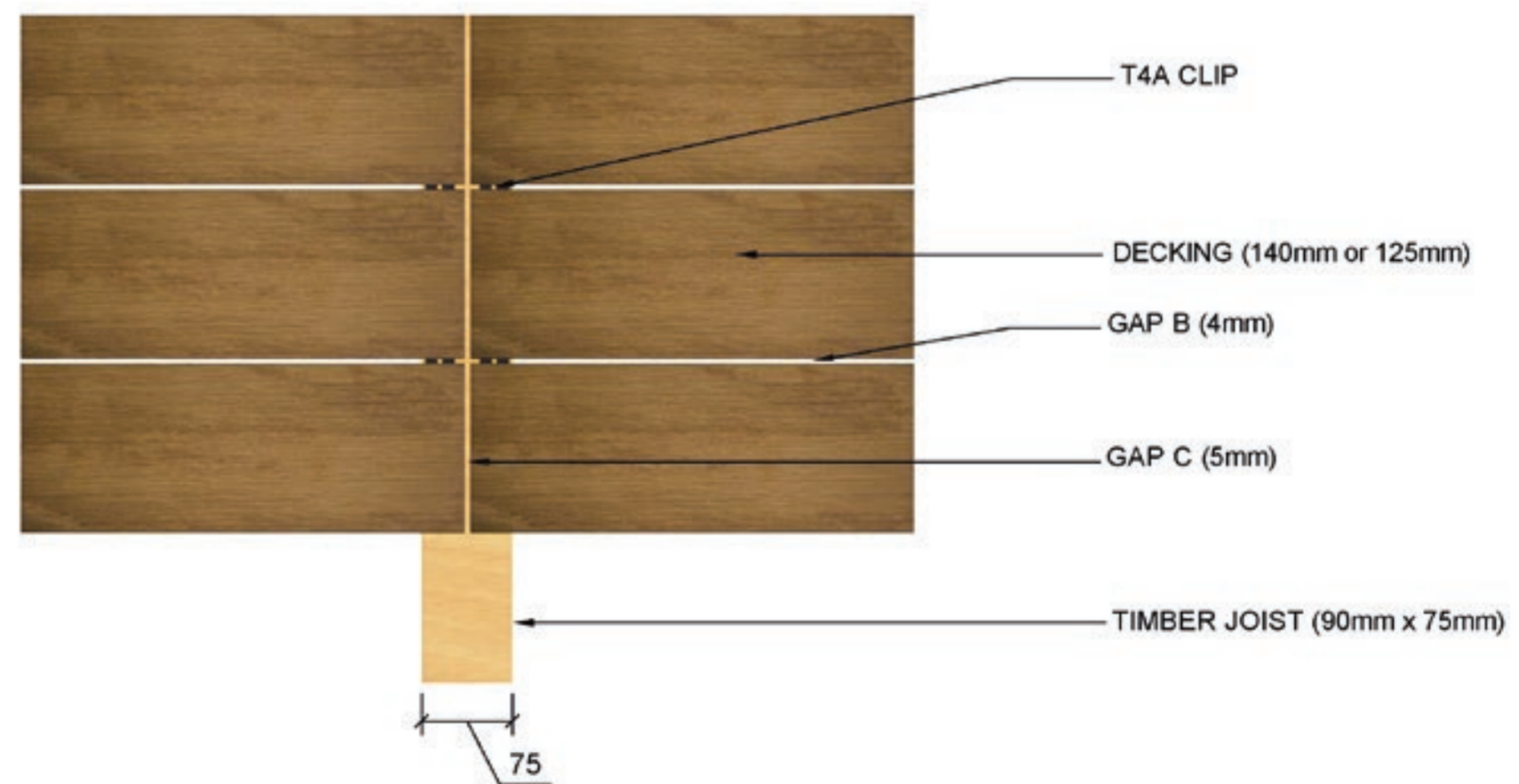


Staggered joints – joist sizing

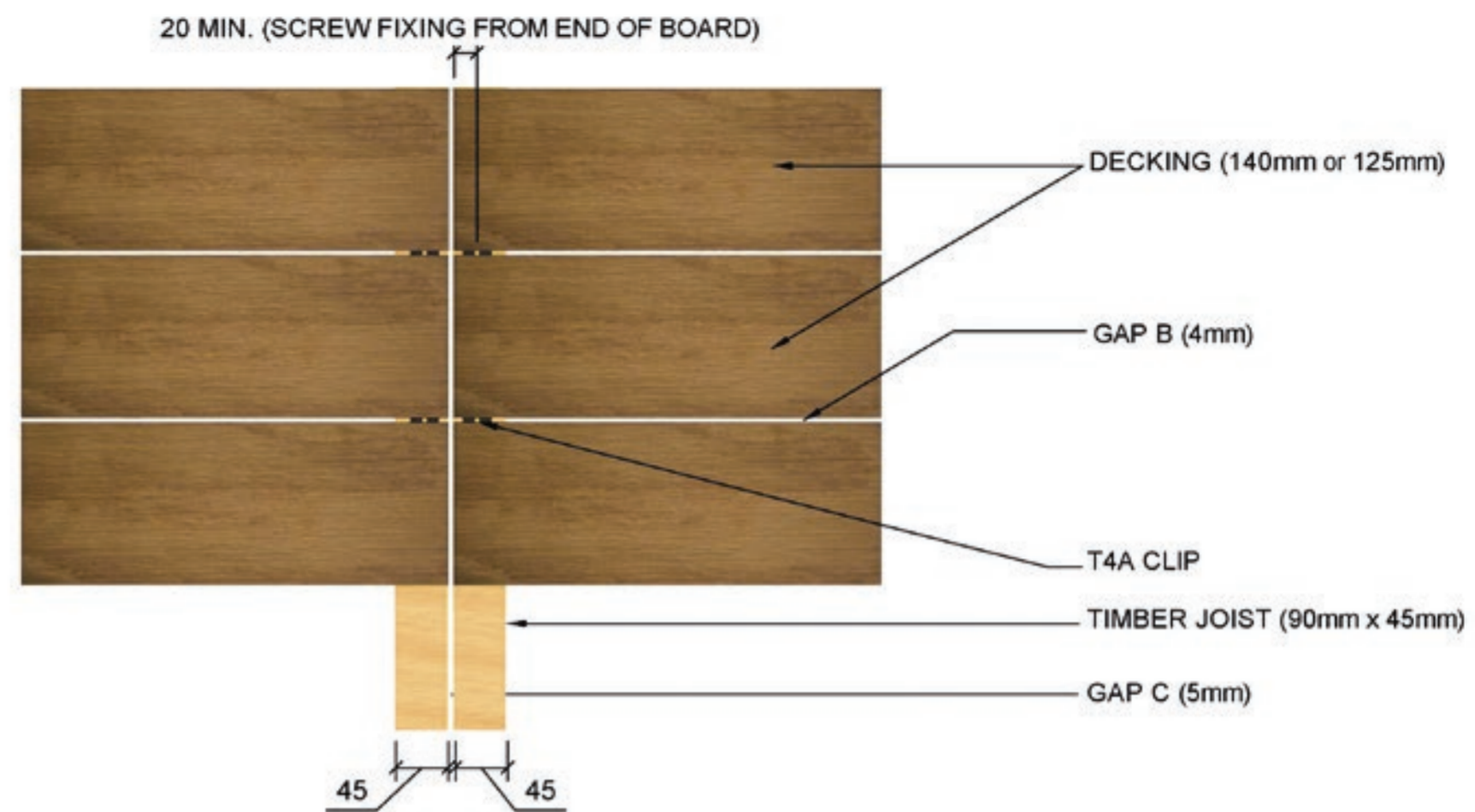


NOTE: END JOINTS MUST BE OVER 75mm JOIST
(REFER TO DRAWING 6 AND 7)

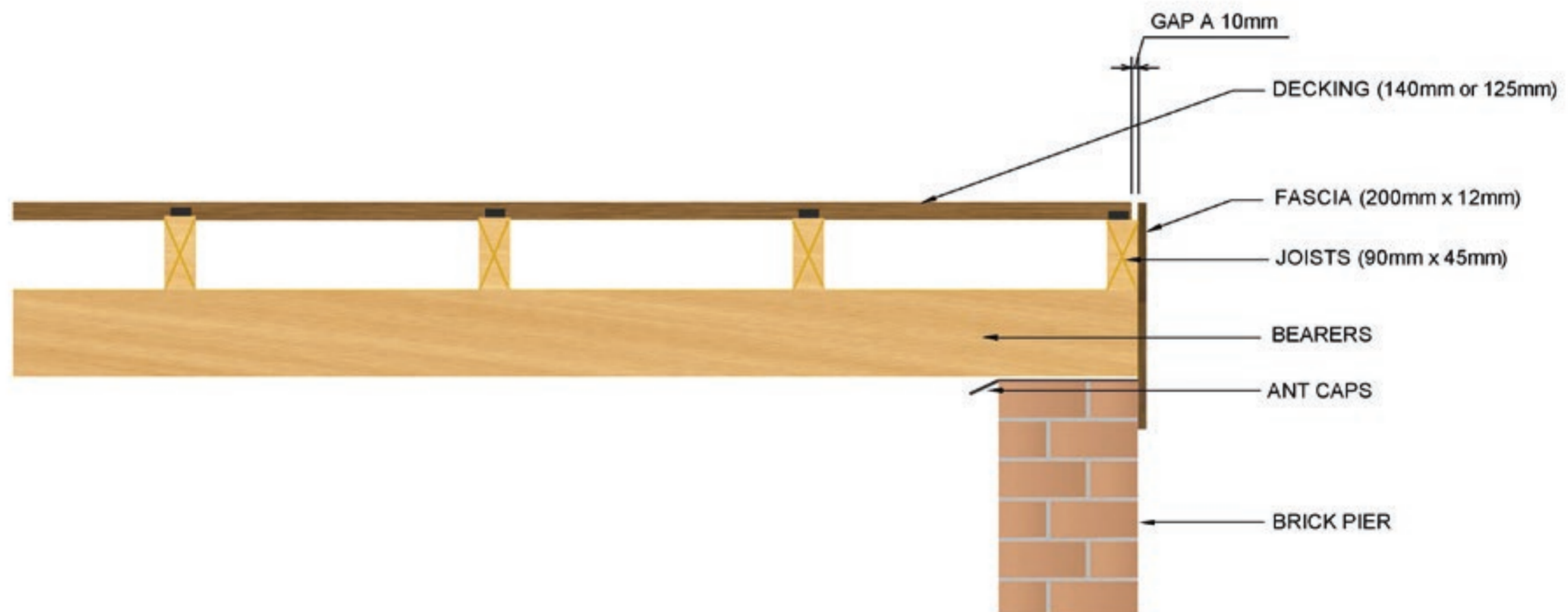
Butt joint detail – single joist



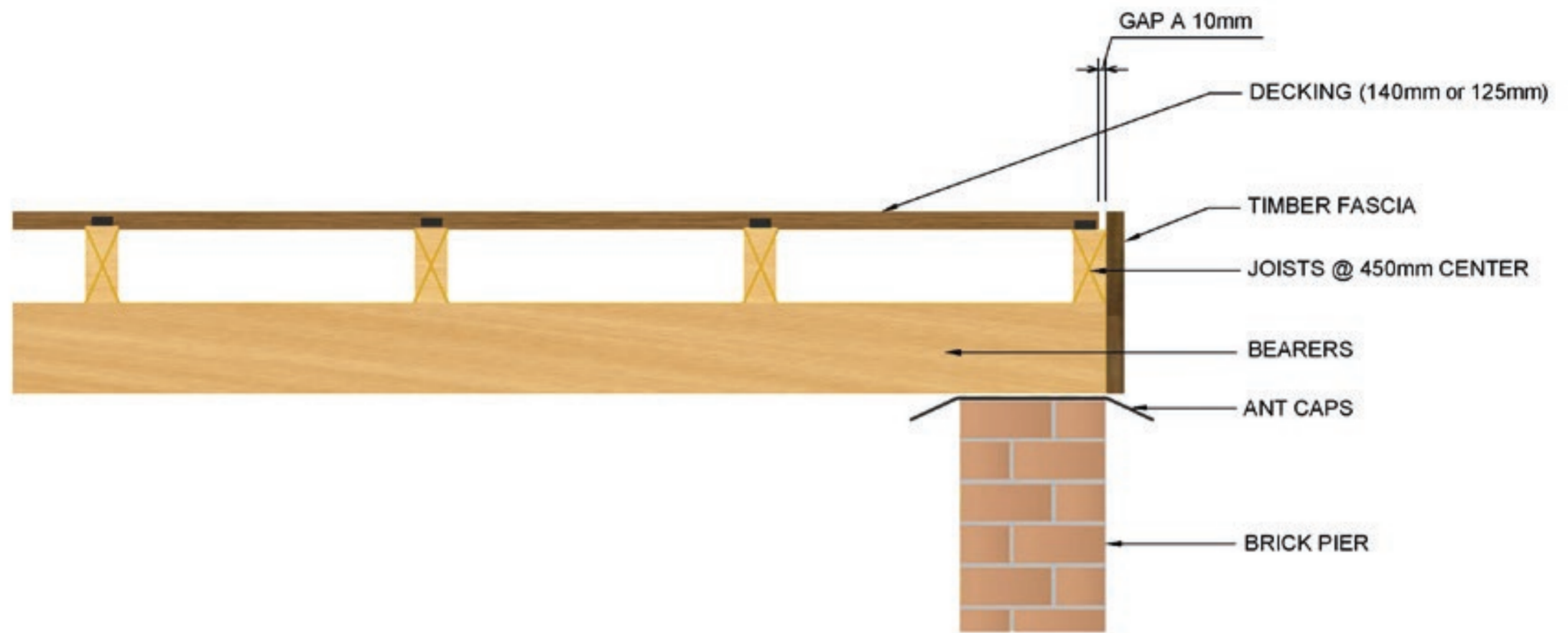
Butt joint detail – double joist



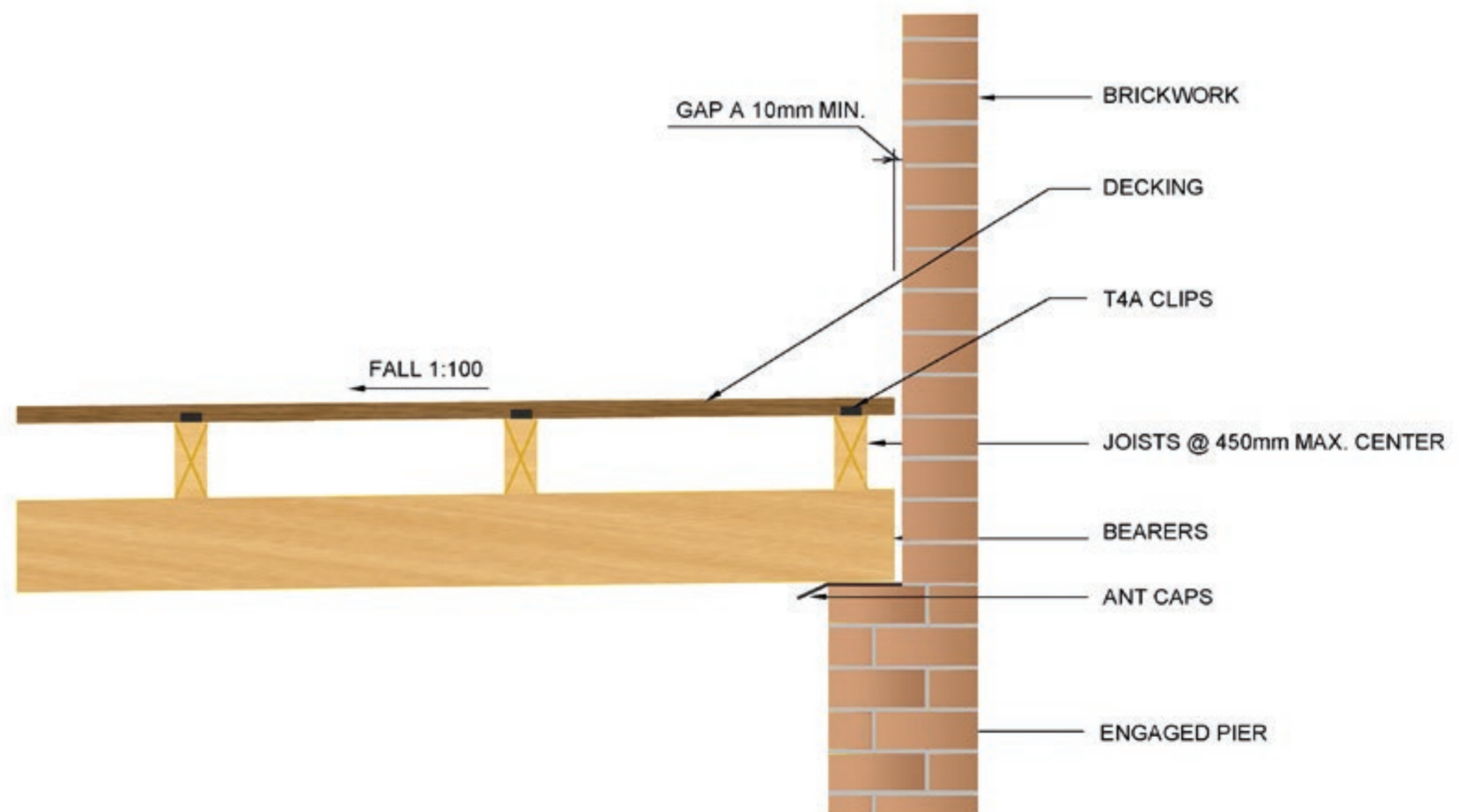
Option A – Timber fascia



Option B – Naxan fascia



Fall and gap to brick wall



Surface finishing

Naxan decking made with Resysta® will not fade or rot like timber (softwood/hardwood) and can be stained and sealed using NaturalStain™ range of stains and sealer by Intergrain® to create modern, eye-catching finishes.

Intergrain NaturalStain is a high performance, semi-transparent, water based stain designed to transform the colour of the Naxan decking.

When applied to correctly, NaturalStain will NEVER flake, blister or peel. NaturalStain delivers a wide range of colour options to cater for individual designs. NaturalStain is extremely durable and withstands wear on cladding and decking without the need for a top-coat.

Maintenance

All surface coatings will deteriorate over time. The speed of deterioration is dependent on many factors including traffic and exposure to the elements. We recommend that an annual maintenance inspection is conducted to ensure any coating deterioration is identified early.

To apply a maintenance coat to a surface which is in good condition, clean the surface and apply one coat of NaturalStain to dry timber.

Note: Maintenance coats of NaturalStain will continue to develop the colour intensity.



Preparation & Application Procedure

Methods: spray (air assisted airless or airless), lambswool applicator, quality brush

1. Clean Naxan decking with soapy water and rinse thoroughly. Remove excess pooled water and ensure surface is clean and free of dust and any other latent material.

Allow substrate to dry thoroughly.

2. Do not apply in temperatures above 35°C or below 10°C or if rain or dew is expected within four hours of application.

To achieve the best possible finish when coating large areas or in warm conditions, add Intergrain Hot Weather Additive™ to NaturalStain according to label instructions.

3. Stir Intergrain NaturalStain thoroughly before and during use with a flat blade stirrer. If the project requires more than one can of NaturalStain, mix all cans together in one large container to achieve colour uniformity.

4. Test a small area to ensure satisfaction with the colour and finish before staining the whole project. Use natural breaks in the deck to define the area.

5. Apply two coats of NaturalStain, allowing two hours drying between coats using a quality brush, lambswool applicator or spray (air assisted airless or airless).

In heavy traffic areas additional coats may be required.

6. When staining large areas, stain no more than three boards at a time. Complete an entire length or continue to a natural break such as a window.

8. Allow a minimum of two hours to dry before applying a second coat. (Optimum drying times are calculated at 25 degrees C and 50% relative humidity).

Colder temperatures and higher humidity can extend drying times.

Product information

1. Fire resistant

Naxan decking is certified to AS1530.8.1- 2007. It can be used in bushfire prone areas that have a bushfire attack level (BAL) up to and including BAL-40 as specified in Exova Warrington Aus Pty Ltd Report No. 39104000.2 and Ignis Evaluation Report No. 4112 [2016]. The certification allows for the decking's sub-floor space to be un-enclosed.

Sub-frame joists and bearers must be constructed from non-combustible materials or bushfire-resisting timbers. Refer to AS 3959-2009 when constructing decks in bushfire prone areas.

2. Storage and handling

Naxan decking boards are shipped in packs stacked flat onto pallets. Packs must be laid flat and in a dry area off the ground. 4.8 metre long packs require at least seven gluts under the pack for proper storage. Pre-finished and ready to use Naxan decking boards must be handled with care to avoid visible scratches and marks on the decking boards. The decking boards must be carried on their edges.

3. Health and safety

A Safety Data Sheet is available upon request with Naxan decking. Dust is produced during cutting, grinding or drilling of the boards. Approved dust masks and protective safety glasses or goggles must be worn for dust generating operations.

4. Deck maintenance

Because Naxan decking may be exposed to weather conditions and temperature changes all year round, annual deck maintenance is recommended to forestall repairs, protect your investment and maintain the beauty of the deck.

Sustainable



Made from 100% natural materials, Naxan is a truly sustainable product that does not impact the environment.

Safe



With a BAL 40 fire rating and slip-resistant properties, Naxan is a recommended solution in areas where the highest levels of safety are required.

Durable



Naxan offers a high level of durability – it doesn't rot, warp, crack or splinter – making it perfect for a variety of installations.

Versatile



Naxan offers a high level of durability – it doesn't rot, warp, crack or splinter – making it perfect for a variety of installations.

Strong



Offering impressive flexural, compressive and shear strength, Naxan is a tough and long-lasting product for the built environment.

Smart



Utilising world-first German engineering and design, Naxan has a 15-year warranty and is already used widely across Europe, Asia and the USA.

An outstandingly awarded material



**Green
Product
Award**
Winner
2018



Made from 50%
recycled content
Certification number:
043-012



MaterialPREIS

Material PREIS 2013
Red Dot award:
product design 2012
for Resysta Marine



reddot

RED DOT 2012
Resysta wins the
Red Dot product
design award 2012

DETAIL

Zeitschrift für Architektur • Revue d'Architecture • Revue d'Architecture

DETAIL 2011
Resysta wins the
Detail competition
2011

dwell
ON DESIGN

DWELL 2011
Resysta wins the
design and product
award 2011



AIT Innovation 2011
Resysta wins the
innovation award
for sustainability

Warranty and responsibility

Warranty

Product warranty statement for the Naxan decking board is available on the ProGeneus website: www.progeneus.com. ProGeneus warrants that the Naxan decking boards are free from defects in materials and manufacture subject to the conditions and exclusions set out in the Product Warranty Statement.

Responsibility

The final installation specification and compliance of the deck using Naxan decking boards lies solely with the party responsible for the project. The design considerations, fixing and installation details in this guide represent common types of construction and installation practice used in Australia.

Disclaimer

The information contained in this installation guide is only advisory and general in nature. It is not intended to substitute advice or consultation from registered building professionals to ensure designs, systems and installation for projects conform to the National Construction Code or any other laws imposed by the States, Territories or local councils. The user of this guide understands and agrees that ProGeneus, its member companies, its officers, agents and employees shall not be liable in any manner under any theory of liability for the user's reliance on this guide. The user agrees to release, hold harmless and indemnify ProGeneus, its member companies, successors, assigns, officers, agents and employees from any and all claims of liability costs, fees (including lawyer's fees), or damages arising in any way out of the use of this information. If you have any questions, please visit www.progeneus.com or call the Company.

