

BAL-40 & BAL-FZ INSTALLATION SHEET

MAY 2015

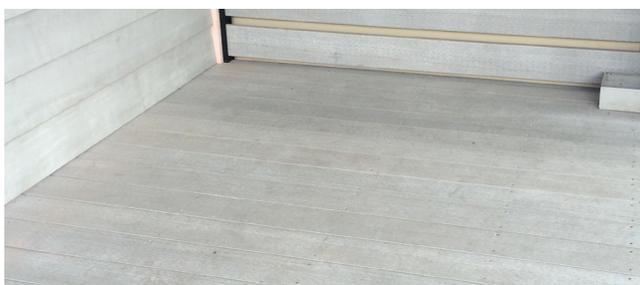
The Australian Standard AS 3959-2009 *Construction of buildings in bushfire-prone areas* requires certain performances of building materials for various determined levels of Bushfire Attack Level (BAL). This standard currently comprises six categories, namely BAL-LOW, BAL-12.5, BAL-19, BAL-29, BAL-40 and BAL-FZ.



INEX>DECKING is manufactured UBIQ's unique low carbon Engineered Cementitious Composite, a material which has been tested for Combustibility under Australian Standard AS/NZS 1530.1:1994 *Part 1: Combustibility test for materials* and has been deemed Non-combustible. This is the standard of non-combustibility that is required by the Australian Standard AS 3959-2009 *Construction of buildings in bushfire-prone areas* – clause 1.5.19 Non-Combustible.

Therefore **INEX>DECKING** can be used in all bushfire-prone areas and this document outlines how it can be used in both BAL-40 and BAL-FZ construction.

PRODUCT



WEIGHT

At approx. 9kg per 2700mm length **INEX>DECKING** is relatively lightweight and easy to handle on site.

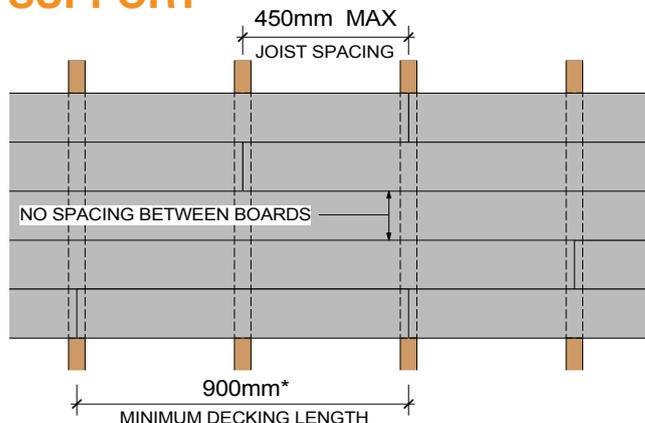
LOADING

INEX>DECKING is suitable for all decking applications, where the required Live Load is not greater than 1.8 kN.

STORAGE

INEX>DECKING should be stored dry, flat and with all edges protected from damage. We recommend storage undercover and raised from the ground. Do not store **INEX>DECKING** vertically.

SUPPORT



FRAMING

In BAL-40 or BAL-FZ construction **INEX>DECKING** can be fixed to either timber or steel joists; depending on whether the deck or verandah subfloor space is enclosed – SEE DIAGRAM OVERLEAF

Timber framing must be in accordance with AS 1684 – ‘Residential timber-framed construction’.

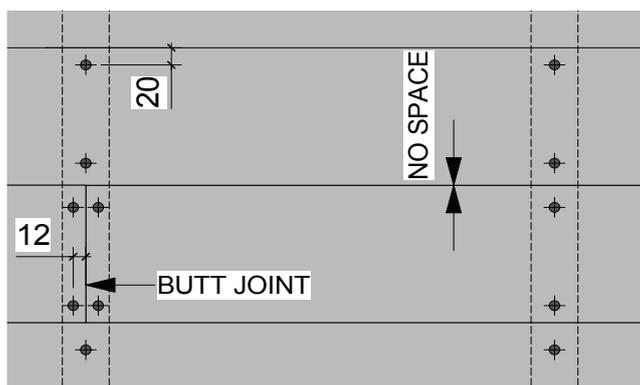
Steel framing must be in accordance with AS 3623 – ‘Domestic metal framing’.

For BAL-40 or BAL-FZ **INEX>DECKING** boards **MUST NOT** be spaced.

Since the decking boards are **NOT SPACED** UBIQ recommends that the framing structure allows for a slight fall to allow for run off. This fall should be in the direction of the boards.

*When installing, **CUT LENGTH** of **INEX>DECKING** **MUST NOT BE LESS THAN 900mm**. **INEX>DECKING** board must span over **MINIMUM 3 JOISTS**.

FIXING



ASSEMBLY

INEX>DECKING must be installed with rough side up.

Butt ends of **INEX>DECKING** must be supported by a joist.

FIXINGS:

Ensure all fixings are located according to Figure 1. Most self-embedding screws will countersink neatly into **INEX>DECKING**. However due to the cementitious nature of **INEX>BOARDS** if the correct pressure and torque is not applied there may be some surface blow out of the material, particularly at screw points close to the edges or ends of the material. This can be alleviated by pre-drilling a nominal 2mm to 3mm deep hole of the approximate screw head diameter at the screw point.

FIXINGS – TIMBER JOISTS – Class 3 Galvanised Fixings or higher.*

Screws: 10g x 50mm self embedding countersunk head screws.

FIXINGS – STEEL JOISTS – Class 3 Galvanised Fixings or higher.*

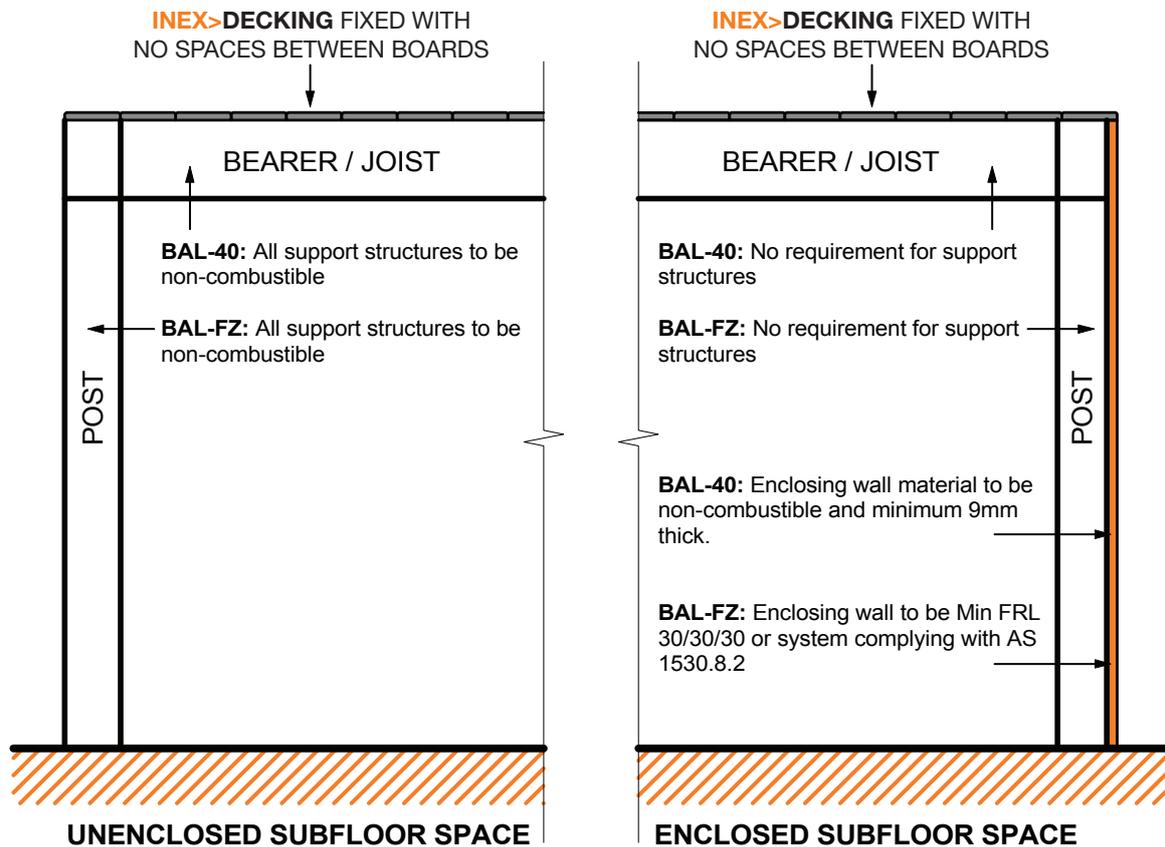
Screws: 10g x 40mm self-drilling, self-embedding, stainless steel countersunk screws.

*Class 4 or Stainless Steel screws for sea spray zone in accordance with AS 3566.

When fixing **INEX>DECKING** to the joists, it is good practice to apply a 6mm diameter bead of **INEX>BOND** to bond **INEX>DECKING** to the frame even when mechanical fixings are used.

Figure 1 FOR BAL-40 OR BAL-FZ **INEX>DECKING** BOARDS **MUST NOT** BE SPACED.

FOR BAL-40 OR BAL-FZ **INEX>DECKING** BOARDS **MUST NOT** BE SPACED.



This diagram outlines the requirements under AS 3959-2009 *Construction of buildings in bushfire-prone areas* for the framing of verandas, decks, steps, ramps or landings for either BAL-40 or BAL-FZ construction.

APPLICATION



FINISHES

If a real natural timber appearance is desired then **INEX>DECKING** offers the perfect solution, and comes without the long term maintenance issues of timber itself. UBIQ's unique textured surface on **INEX>DECKING** allows for complete flexibility of finishes to be achieved; from an authentic natural timber appearance to a multitude of other staining or painting options.

INEX>DECKING, like natural timber, cannot be left in its raw state after installation.

INEX>DECKING must be stained or sealed within 1 month after being laid.

For further details of coating options refer to the COATINGS menu at: www.ubiq.com.au.

SEAL UNDERSIDE IN EXPOSED AREAS

For uncovered decks, or deck areas likely to receive frequent rain fall, it is recommended to seal the underside of **INEX>DECKING** prior to laying, especially if PVC joist protectors are used between joists and decking. This sealing can be undertaken with a single coat of the selected stain to be used, or a proprietary concrete sealer.

Note: Due to the cementitious nature of **INEX>BOARDS** some superficial pin-holing may occur.

