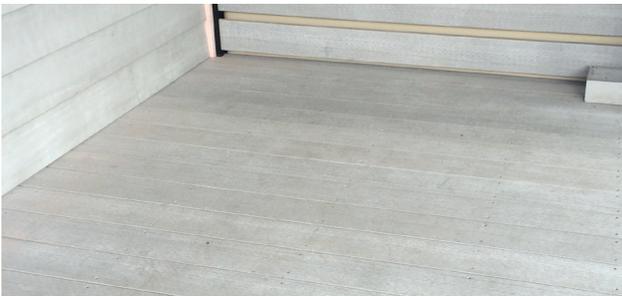


## TECHNICAL & INSTALLATION SHEET

MAY 2015

### PRODUCT



### WEIGHT

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

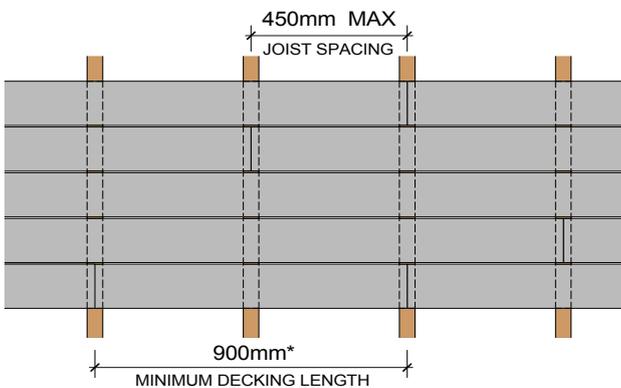
### LOADING

**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

**INEX>DECKING** can be fixed to timber or steel joists with spacing at maximum 450mm centres.

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 uncovered decks, allow a 2-3mm fall per metre of deck to aid rainwater runoff as required. Fall must run in the direction away from adjoining structure.

Recommended Spacing between **INEX>DECKING** boards: 3mm- 5mm\*\*.

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

\*\*For Bushfire Prone Areas BAL-40 and BAL-FZ decking must not be spaced. See our ‘FIRE-RATED’ section on-line for further details.

### FIXING

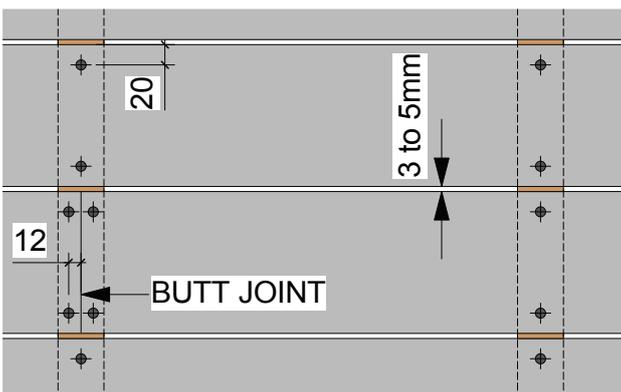


Figure 1

Provided that the substrate for **INEX>DECKING** is built in accordance with AS 1684 for timber framing, or AS 3623 for steel framing; and in compliance with the BCA requirements, UBIQ advises that there is no restriction with respect to the distance between **INEX>DECKING** and the finished ground surface for external application.

### 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.

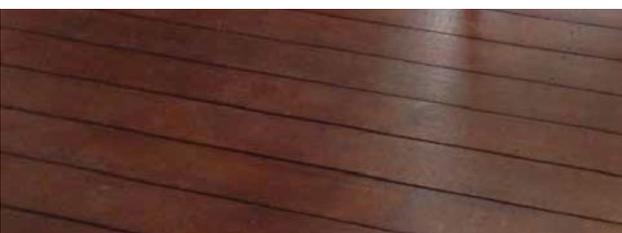
**FIXINGS – STEEL JOISTS – Class 3 Galvanised Fixings or higher.\***

**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.

### 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.

For further details of coating options refer to the COATINGS menu at: [www.ubiq.com.au](http://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.

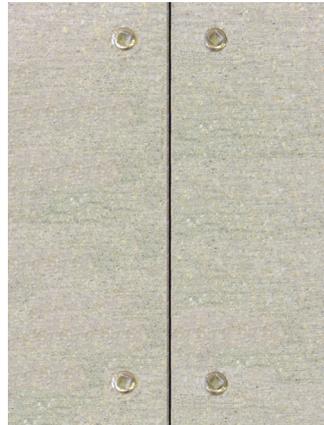
## INSTALLATION EQUIPMENT

UBIQ recommends the following equipment and accessories for the installation of **INEX>DECKING**:

**GENERAL:** **INEX>DECKING** can be machined and worked in same way as comparable fibre cement sheeting.

**CUTTING:** **INEX>DECKING** should be cut using a mechanical drop saw with a fitted dust extraction system. To achieve the best cutting results, use a diamond edge blade similar to that used to cut softer brick or stone or a specific cutting blade for fibre cement sheets. See also Health & Safety section below.

**SCREW FIXING:** Use a cordless drill or automatic screw gun. **INEX>DECKING** must be fixed to joists by screw fixings.



**DUST LIMITATION:** Always limit dust with a vacuum dust extraction system with a suitable filter.

### Important Notes:

Ensure all components are compatible with each other and suitable for **INEX>DECKING** and/or the intended surface finish.

Failure to install, finish or maintain this product in accordance with relevant building codes, regulations, standards and UBIQ's current published instructions may lead to personal injury, affect system performance, violate local building codes, and possibly void the product warranty.

## MATERIAL PROPERTIES

**INEX>DECKING** is an advanced high strength, low carbon fibre reinforced Engineered Cementitious Composite (ECC) product, containing 60% of post industrial recycled materials.

**INEX>DECKING** conforms to the requirements of AS/NZS 2908.2 2000 'Cellulose-cement products Part 2: Flat sheets', other than the optional 'Warm Water' test item 6.4. In this test, **INEX>DECKING** performs to a mean MPa of >10.

**INEX>DECKING** conforms to AS 4964 2004 as containing no asbestos. It is toxin free and is 100% recyclable.

**INEX>DECKING** is deemed non-combustible when tested in accordance AS/NZS 1530.1 and is therefore a non-combustible material suitable for **Bushfire BAL-40** and **BAL-FZ** constructions under AS3959-2009. .

**INEX>DECKING** when tested in accordance AS/NZS 1520.3 displayed no; Ignitability, Spread of Flame, Heat Evolved or Smoke Developed.

**INEX>DECKING** when tested in accordance AS/NZS 3837-1998 for heat and smoke release rates is classified **Group 1 for Specification A2.4 of the BCA**.

**INEX>DECKING** when tested in accordance with AS/NZS 2908.2 2000 item 6.6 "Soak Dry", **INEX>DECKING** performs to a mean MPa of >20; test undertaken in accordance with clause 8.2.5 of AS/NZS 2908.2:2000. This represents a test pass at over 80% of the dry strength retained after 25 soak-dry cycles.

**INEX>DECKING** is not susceptible to Termite Attack.

## LOADING PROPERTIES

**INEX>DECKING** is suitable for use in decks with joist supports at maximum 450 mm centres under Category of Use A1 & A2 (Domestic & Residential Activities) of Table 3.1 AS/NZS 1170.1:2002 where the support of a concentrated action of 1.8 kN is required.

**INEX>DECKING** has a mean bending strength of >22MPa for Type B (equilibrium) and >20MPa for Type A (wet) and therefore **INEX>DECKING** is suitable for Categories A or B Class 5 conditions. Tests undertaken in accordance with clause 8.2.1 of AS/NZS 2908.2: 2000 'Cellulose-cement products Part 2: Flat sheets'.

**INEX>DECKING** has a mean modulus of elasticity of >9GPa for Type B (equilibrium) and >7MPa for Type A (wet) conditions.

Tests undertaken in accordance with section 9 of AS1774.31.1:2000 'Refractories and refractory materials – Physical test methods; Modulus of Elasticity – Flexural method'.

## HEALTH & SAFETY

UBIQ advises that **INEX>DECKING** contains fibreglass reinforcing and causes fine dust when cutting or machining. Continuous or excessive inhalation of fine dust containing fibreglass particles can cause irritation and may cause lung scarring (silicosis). This dust could be carcinogenic as all dust may be. Exposure to such dust may cause irritation to the skin or other body surfaces.

When cutting **INEX>DECKING** use methods recommended in this brochure to minimise dust production, and in addition:

**LOCATION:** Do not cut **INEX>DECKING** indoors. Cut in a well ventilated outdoor location.

**CLOTHING, MASK & GOGGLES:** Always wear protective clothing and properly fitted and approved mask (respirator) and eye protective goggles.

**DUST LIMITATION:** Always use a mechanical circular saw equipped with a fitted dust extraction system. When cutting is finished always vacuum up residual dust. Maintain the work area as a dust free environment.

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