

INEX > BOARDS™

ANY BUILDING • ANY SURFACE • ANYWHERE

DECKING SOLUTIONS



INEX > DECKING™

INEX > MAXIDECK™





INEX>DECKING™



INEX>MAXIDECK™

Both **INEX>DECKING** and **INEX>MAXIDECK** provide an ideal substrate for the application of a wide range of approved coatings and stains that can deliver an authentic timber appearance, or simply a beautiful coloured look.

Go to the COATINGS section of our website to see the approved coating systems – be creative and decide the finish you wish to have.

www.ubiq.com.au

INEX>DECKING & INEX>MAXIDECK's

coating spectrum offers a tremendous array of design possibilities.



PRODUCT INFORMATION

INEX>DECKING is a revolutionary, low carbon, high strength, yet lightweight engineered cementitious composite based board suitable for all decking applications.

The textured surface of **INEX>DECKING** provides a superb surface for a wide range of approved coating systems.

INEX>DECKING has pencil round edges along the length of the board.

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



PRODUCT	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)	Kg/m ²	Kg/Length
INEX>DECKING	2700	140	19	24.6	9

WEIGHT

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

HIGH PERFORMANCE

INEX>DECKING can be cut and worked just like comparable fibre cement sheets, but offers improved bending strength characteristics and finish quality. **INEX>DECKING** spans over joists at maximum 450mm centres.

BAL-FZ & NON-COMBUSTIBILITY

INEX>DECKING is non-combustible and is approved for all Bushfire Attack Levels including BAL-FZ* construction in accordance with AS3959-2009.

*BAL-FZ (Flame Zone) is the highest Bushfire Attack Level where there is an extremely high risk of ember attack and burning debris ignited by windborne embers, and a likelihood of exposure to an extreme level of radiant heat and direct exposure to flames from the fire front. Details of BAL-40 and BAL-FZ systems are available on request, or are downloadable at www.ubiq.com.au

MATERIAL

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** is 100% recyclable.

VALUE

INEX>DECKING is an affordable substitute to natural timber and / or other decking composites. Visit our website to find your local stockist for pricing enquiries.

Note: UBIQ's concrete is a natural product and UBIQ sees it as such, with all its vital signs and characteristics. Each **INEX>DECKING** board is regarded as a single piece, just like natural timber. Efflorescences or small, visible pores or patches are not defects. They add to the character of the final finished and stained product. Differences in the surface appearance, which do not affect the fit for purpose of the panels, are permitted. The surface is not homogenous and the variations and texture are what deliver the remarkable appearance once these coatings are applied. They are what set these boards apart from other composite decking products.

PRODUCT INFORMATION



INEX>DECKING can be used for all decking applications, including all Bushfire Attack Levels.

SUPERIOR FINISH

UBIQ's unique textured surface allows for complete flexibility of finishes; from an authentic natural timber appearance to many other staining and painting options.

If a real natural timber appearance is desired then this can be readily achieved and with a reduction of the long term maintenance issues of timber itself. The illustration above shows **INEX>DECKING** with 2 coats of water based wood stain plus a clear top coat applied to deliver this timber effect finish.

Refer to the COATINGS menu on UBIQ's website for information regarding approved coating systems.

NON-COMBUSTIBLE

INEX>DECKING is deemed non-combustible under AS1530.1.

MOISTURE RESISTANCE

INEX>DECKING is moisture resistant and retains its structural integrity when subjected to multiple soak/dry cycles in accordance with clause 8.2.5 of AS/NZS 2908.2 2000 'Cellulose-cement products Part 2: Flat sheets'.

DURABILITY

INEX>DECKING is highly durable and represents a real alternative to natural timber. **INEX>DECKING** can be coated to achieve the timber look, without the ongoing maintenance issues of natural timber.

LOW CARBON

INEX>DECKING is a low carbon product containing about 40% of the embodied energy of equivalent portland cement derived products, containing 60% of post industrial recycled materials. It is 100% recyclable.

ASBESTOS AND TOXIN FREE

INEX>DECKING does not contain any toxins and is asbestos free.

MOULD & TERMITE RESISTANCE

INEX>DECKING is resistant to mould and termite attack.

Refer to **INEX>DECKING** Technical Information Sheet for detailed information.

TECHNICAL & INSTALLATION

INEX>DECKING is a unique engineered cementitious composite material that has been profiled to deliver a 140mm wide decking board. The **'COATINGS'** section of UBIQ's website provides you with many approved options for stain products that can be applied to deliver a range of finishes. Download and read carefully the relevant document(s) for your preferred coating system.

In order to achieve a long lasting and satisfactory finish for your coating; take a bit of care and follow the important 4 Steps described below.



4 STEP GUIDE FOR YOUR INSTALLATION & COATING SYSTEM

STEP 1 – PLAN YOUR DECK AND PREPARE YOUR BOARDS

Select your construction materials (timber or steel joists) and your preferred coating system. Ensure your boards are; dry, clean and dust free and ready for the first coat of your selected coating system. When storing them on site ensure they are stored flat and under cover in a well ventilated space. Review the application recommendations of the coating company prior to commencing your coating. Do not apply if temperatures are below 10°C or in high humidity.

STEP 2 – COAT ALL FACES PRIOR TO FIXING

Apply a single first coat to **ALL SIDES** of your **INEX>DECKING** prior to fixing. This first coat can be applied with a foam roller and then a brush to lay off in the direction of the boards. Ensure all surfaces (top, back, sides and ends) are coated and are allowed to dry prior to fixing.

STEP 3 – FIX YOUR BOARDS AND TOUCH UP ANY CONSTRUCTION CUTS

We recommend that you use a pre-drill and countersinking tool as part of your fixing process. Use 10 gauge stainless steel decking screws with a counter sinking head, (see overleaf for further details). Take care not to overdrive the screws as this may result in some chipping of the surface. It is best practice to apply a 6mm diameter bead of **INEX>BOND**, or other suitable construction adhesive/sealant, at each joist; and for all steel sub-structures, this is important to provide a cushioning effect.

At this stage any construction cuts or chips that expose the grey or raw part of your boards need to have the first coat re-applied to that area prior to fixing.

STEP 4 – SUBSEQUENT COATS

These should be applied as soon as possible and certainly within 2 weeks after fixing. Under all circumstances ensure your boards are; dry, clean and dust free. Once the **INEX>DECKING** boards are fixed apply the second and third coats of your coating system, both of which should be applied with a brush. The second coat will be another coat of your selected stain. Careful application of this coat and laying off in the direction of the boards will achieve the best results for you. We recommend that you trial a small test area first to establish the rate of application suitable for the desired effect.

At this stage ensure all screw fixings are sealed with these coats to avoid moisture or standing water penetrating into the board via these fixing points. Because concrete is hygroscopic it absorbs moisture and gives it off again. Water or moisture entering the board will not affect its structural performance, but can cause a darkening of the board below the coating and this darkening will remain until the board is allowed to dry out. This can be minimised by this step.

TECHNICAL & INSTALLATION

PRODUCT



WEIGHT

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

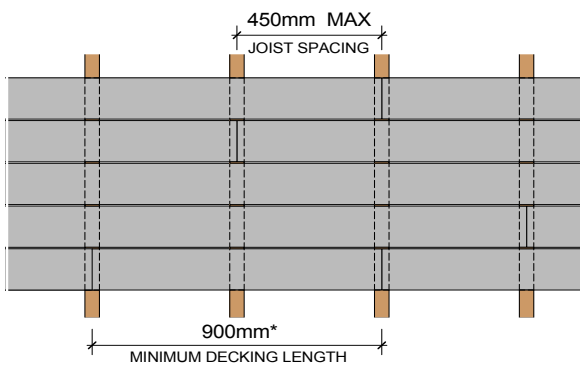
LOADING

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’.

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

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

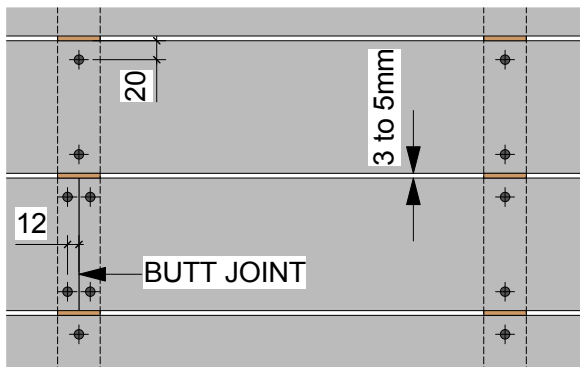


Figure 1

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

Ensure all **INEX>DECKING** boards have their first coat applied prior to fixing and are fixed rough side up. It is best practice to apply a 6mm diameter bead of **INEX>BOND**, or other suitable construction adhesive/sealant, at each joist; and for all steel sub-structures this is important to provide a cushioning effect.

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; however we recommend using a pre-drilling and countersinking tool as the best method of fixing.

FIXINGS – TIMBER JOISTS – Stainless Steel Fixings

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

FIXINGS – STEEL JOISTS – Stainless Steel Fixings

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

APPLICATION



FINISHES

If a natural timber appearance is desired then **INEX>DECKING** offers the perfect solution, and comes with a reduction of 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 many other staining or painting options.

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

Note: UBIQ's concrete is a natural product and UBIQ sees it as such, with all its vital signs and characteristics. Each **INEX>DECKING** board is regarded as a single piece, just like natural timber. Efflorescences or small, visible pores or patches are not defects. They add to the character of the final finished and stained product. Differences in the surface appearance, which do not affect the fit for purpose of the panels, are permitted. The surface is not homogenous and the variations and texture are what deliver the remarkable appearance once these coatings are applied. They are what set these boards apart from other composite decking products.

TECHNICAL & INSTALLATION

INSTALLATION EQUIPMENT

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

STORAGE: **INEX>DECKING** must be stored flat and in a well ventilated covered and dry area.

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. We recommend using a pre-drilling and countersinking tool as the best method of fixing.



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. The warm water test is not considered relevant to **INEX>DECKING**.

INEX>DECKING is moisture resistant and retains its structural integrity when subjected to multiple soak/dry cycles in accordance with clause 8.2.5 of AS/NZS 2908.2 2000 'Cellulose-cement products Part 2: Flat sheets'.

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 is not susceptible to Termite Attack.

LOADING PROPERTIES

INEX>DECKING is suitable for all residential or commercial decks with joist spaces at a maximum of 450mm centres, and where the support of a concentrated action to a limit of 1.8kN is permitted.

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.

INSTALLATION (FOR BAL-40 & BAL-FZ)

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.

INEX>DECKING is a unique engineered cementitious composite material that has been profiled to deliver a 140mm wide decking board. The '**COATINGS**' section of UBIQ's website provides you with many approved options for stain products that can be applied to deliver a range of finishes. Download and read carefully the relevant document(s) for your preferred coating system.



In order to achieve a long lasting and satisfactory finish for your coating; take a bit of care and follow the important 4 Steps described below.

4 STEP GUIDE FOR YOUR INSTALLATION & COATING SYSTEM

STEP 1 – PLAN YOUR DECK AND PREPARE YOUR BOARDS

Select your construction materials (timber or steel joists) and your preferred coating system. If your boards are to be fixed without spaces then we recommend that your joists allow for a slight fall in the direction of the boards to allow surface water to run off.

Ensure your boards are; dry, clean and dust free and ready for the first coat of your selected coating system. When storing them on site ensure they are stored flat and under cover in a well ventilated space. Review the application recommendations of the coating company prior to commencing your coating. Do not apply if temperatures are below 10°C or in high humidity.

STEP 2 – COAT ALL FACES PRIOR TO FIXING

Apply a single first coat to **ALL SIDES** of your **INEX>DECKING** prior to fixing. This first coat can be applied with a foam roller and then a brush to lay off in the direction of the boards. Ensure all surfaces (top, back, sides and ends) are coated and are allowed to dry prior to fixing.

STEP 3 – FIX YOUR BOARDS AND TOUCH UP ANY CONSTRUCTION CUTS

We recommend that you use a pre-drill and countersinking tool as part of your fixing process. Use stainless steel decking screws with a counter sinking head, (see overleaf for further details). Take care not to overdrive the screws as this may result in some chipping of the surface. It is best practice to apply a 6mm diameter bead of **INEX>BOND**, or other suitable construction adhesive/sealant, at each joist; and for all steel sub-structures, this is important to provide a cushioning effect.

At this stage any construction cuts or chips that expose the grey or raw part of your boards need to have the first coat re-applied to that area prior to fixing.

STEP 4 – SUBSEQUENT COATS

These should be applied as soon as possible and certainly within 2 weeks after fixing. Under all circumstances ensure your boards are; dry, clean and dust free. Once the **INEX>DECKING** boards are fixed apply the second and third coats of your coating system, both of which should be applied with a brush. The second coat will be another coat of your selected stain. Careful application of this coat and laying off in the direction of the boards will achieve the best results for you. We recommend that you trial a small test area first to establish the rate of application suitable for the desired effect.

At this stage ensure all screw fixings are sealed with these coats to avoid moisture or standing water penetrating into the board via these fixing points. Because concrete is hygroscopic it absorbs moisture and gives it off again. Water or moisture entering the board will not affect its structural performance, but can cause a darkening of the board below the coating and this darkening will remain until the board is allowed to dry out. This can be minimised by this step.

INSTALLATION (FOR BAL-40 & BAL-FZ)

PRODUCT



WEIGHT

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

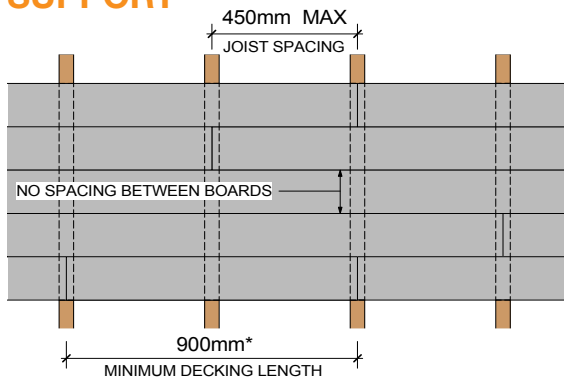
LOADING

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

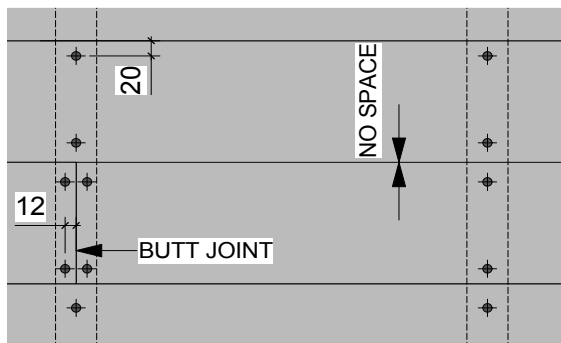
Timber framing must be in accordance with AS 1684 – ‘Residential timber-framed construction’ – SEE DIAGRAM BELOW.

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 LENGTHS** of **INEX>DECKING** **MUST NOT BE LESS THAN 900mm**. **INEX>DECKING** boards must span over a **MINIMUM 3 JOISTS**.

FIXING



ASSEMBLY

INEX>DECKING boards have their first coat applied prior to fixing and are fixed rough side up. It is best practice to apply a 6mm diameter bead of **INEX>BOND**, or other suitable construction adhesive/sealant, at each joist; and for all steel sub-structures this is important to provide a cushioning effect.

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; however we recommend using a pre-drilling and countersinking tool as the best method of fixing.

FIXINGS – TIMBER JOISTS – Stainless Steel Fixings

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

FIXINGS – STEEL JOISTS – Stainless Steel Fixings

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

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

**Alternative Solution with decking spaced at not greater than 2.5mm.

Clauses 8.7.1 (BAL-40) and 9.7.1 (BAL-FZ) of AS 3959-2009 *Construction of buildings in bushfire prone-zones areas* require that “Decking shall not be spaced”.

However UBIQ is aware that in some circumstances the Building Certifier has permitted spacing of decks if not greater than 2.5mm as an Alternative Solution to the standard.

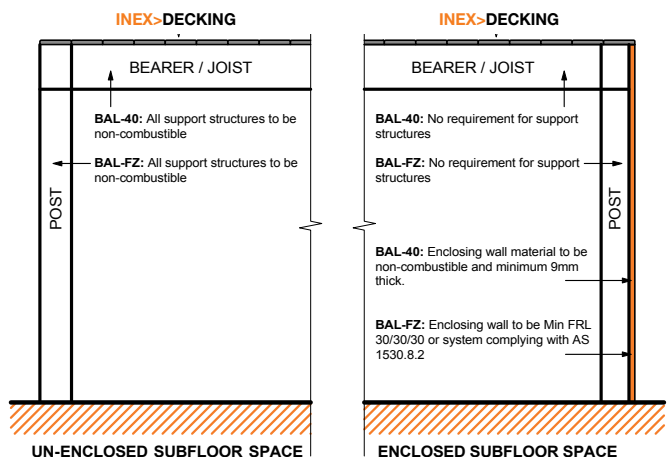
UBIQ advises that if this solution is desired then prior approval by the Building Certifier must be obtained prior to installation.

APPLICATION

FINISHES

If a natural timber appearance is desired then **INEX>DECKING** offers the perfect solution, and comes with a reduction of 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 many other staining or painting options.

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



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.

INSTALLATION (FOR BAL-40 & BAL-FZ)

INSTALLATION EQUIPMENT

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

STORAGE: **INEX>DECKING** must be stored flat and in a well ventilated covered and dry area.

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. We recommend using a pre-drilling and countersinking tool as the best method of fixing.



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. The warm water test is not considered relevant to **INEX>DECKING**.

INEX>DECKING is moisture resistant and retains its structural integrity when subjected to multiple soak/dry cycles in accordance with clause 8.2.5 of AS/NZS 2908.2 2000 'Cellulose-cement products Part 2: Flat sheets'.

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 is not susceptible to Termite Attack.

LOADING PROPERTIES

INEX>DECKING is suitable for all residential or commercial decks with joist spaces at a maximum of 450mm centres, and where the support of a concentrated action to a limit of 1.8kN is permitted.

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.

PRODUCT INFORMATION

Save up to 80% of Decking Installation Time!

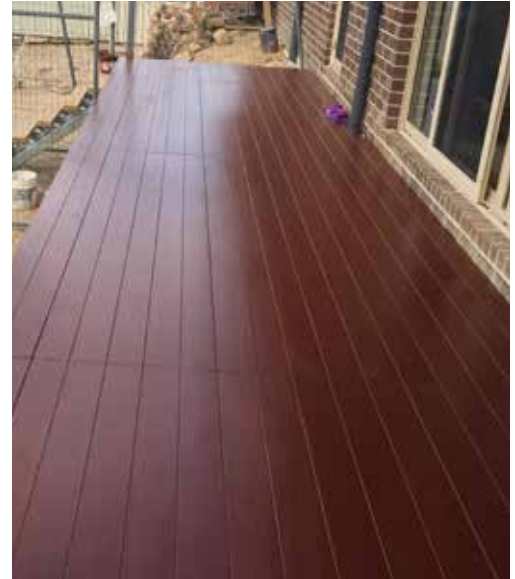
INEX>MAXIDECK is a revolutionary, low carbon, high strength, yet lightweight engineered cementitious composite Tongue and Groove (T&G) decking sheet.

The textured surface of **INEX>MAXIDECK** provides a superb surface for a wide range of approved coating systems.

INEX>MAXIDECK is ‘decking by the sheet’ and comes with grooves routed into its surface to deliver an authentic decking board appearance without the fuss of having to lay individual decking boards.

Each **INEX>MAXIDECK** sheet represents 5 x 120mm wide individual decking boards, thereby cutting the installation time to less than 20% of what it would be if individual boards were used.

INEX>MAXIDECK is suitable for all decking applications, where the required Live Load is not greater than 2.7kN.



PRODUCT	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)	Kg/m ²	Kg/Sheet
INEX>MAXIDECK	2700	600	16	20.7	34

WEIGHT

At Approx. 34kg per 2700mm length, the 600mm wide **INEX>MAXIDECK** sheet is relatively light weight and easy to handle on site.

HIGH PERFORMANCE

INEX>MAXIDECK can be cut and worked just like comparable fibre cement sheets, but offers improved bending strength characteristics and finish quality. **INEX>MAXIDECK** spans over joists at maximum 450mm centres.

BAL-FZ & NON-COMBUSTIBILITY

INEX>MAXIDECK is non-combustible and is approved for all Bushfire Attack Levels including BAL-FZ*.

As there is no spacing between individual decking boards, **INEX>MAXIDECK** is therefore by default BAL-FZ compliant in accordance with AS3959-2009 *construction of buildings in bushfire prone zones*.

**BAL-FZ (Flame Zone) is the highest Bushfire Attack Level where there is an extremely high risk of ember attack and burning debris ignited by windborne embers, and a likelihood of exposure to an extreme level of radiant heat and direct exposure to flames from the fire front. Details of BAL-FZ systems are available on request, or are downloadable at www.ubiq.com.au*

MATERIAL

INEX>MAXIDECK is an advanced high strength, low carbon fibre reinforced Engineered Cementitious Composite (ECC) product, containing 60% of post industrial recycled materials. It is toxin free and is 100% recyclable.

DURABILITY

INEX>MAXIDECK is highly durable and represents a real alternative to natural timber. **INEX>MAXIDECK** can be coated to achieve the timber look, without the ongoing maintenance issues of natural timber.

PRODUCT INFORMATION



INEX>MAXIDECK can be used for all decking applications, including all Bushfire Attack Levels.

SUPERIOR FINISH

UBIQ's unique textured surface allows for complete flexibility of finishes; from an authentic natural timber appearance to a multitude of other staining and painting options.

If a real natural timber appearance is desired then this can be readily achieved with a reduction of the long term maintenance issues of timber itself.

Refer to the COATINGS menu on UBIQ's website for information regarding approved coating systems.

VALUE

INEX>MAXIDECK is an affordable substitute to hardwood and / or other decking composites. Each **INEX>MAXIDECK** represents 5 x 120mm wide individual decking boards, thereby cutting the installation time to 20% of what it would be if individual boards were used. Visit our website to find your local stockist for pricing enquiries.

MOISTURE RESISTANCE

INEX>MAXIDECK is moisture resistant and retains its structural integrity when subjected to multiple soak/dry cycles in accordance with clause 8.2.5 of AS/NZS 2908.2 2000 'Cellulose-cement products Part 2: Flat sheets'.

LOW CARBON

INEX>MAXIDECK is a low carbon product containing about 40% of the embodied energy of equivalent portland cement derived products, containing 60% of post industrial recycled materials. It is 100% recyclable.

ASBESTOS AND TOXIN FREE

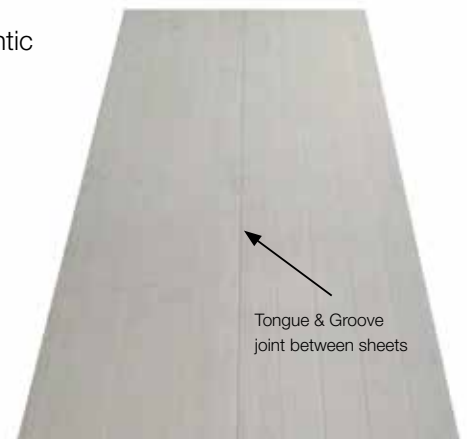
INEX>MAXIDECK does not contain any toxins and is asbestos free.

MOULD & TERMITE RESISTANCE

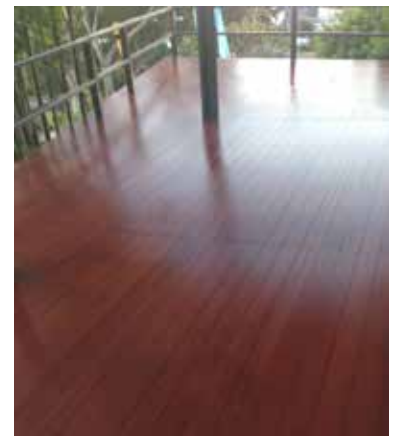
INEX>MAXIDECK is resistant to mould and termite attack.

Refer to **INEX>MAXIDECK** Installation Sheet for further information.

Note: UBIQ's concrete is a natural product and UBIQ sees it as such, with all its vital signs and characteristics. Each **INEX>MAXIDECK** board is regarded as a single piece, just like natural timber. Efflorescences or small, visible pores or patches are not defects. They add to the character of the final finished and stained product. Differences in the surface appearance, which do not affect the fit for purpose of the panels, are permitted. The surface is not homogenous and the variations and texture are what deliver the remarkable appearance once these coatings are applied. They are what set these boards apart from other composite decking products.



INEX>MAXIDECK in the raw.



INEX>MAXIDECK installed and coated

INSTALLATION (INCL. BAL-40 & BAL-FZ)

BAL-FZ (& BELOW) COMPLIANCE

INEX>MAXIDECK 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.



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.

As there is no spacing between individual decking boards, **INEX>MAXIDECK** 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.

INEX>MAXIDECK is a unique engineered cementitious composite material in a tongue and grooved sheet and “V” groove form to deliver an easy fix decking product. The ‘**COATINGS**’ section of UBIQ's website provides you with many approved options for stain products that can be applied to deliver a range of finishes. Download and read carefully the relevant document(s) for your preferred coating system.



In order to achieve a long lasting and satisfactory finish for your coating; take a bit of care and follow the important 4 Steps described below.

4 STEP GUIDE FOR YOUR INSTALLATION & COATING SYSTEM

STEP 1 – PLAN YOUR DECK AND PREPARE YOUR INEX>MAXIDECK SHEETS

Select your construction materials (timber or steel joists) and your preferred coating system. We recommend that your joists allow for a slight fall in the direction of the sheets and away from the building to allow surface water to run off.

When storing **INEX>MAXIDECK** on site ensure they are stored flat and under cover in a well ventilated space. Review the application recommendations of the coating company prior to commencing your coating. Do not apply if temperatures are below 10°C or in high humidity.

STEP 2 – COAT ALL EDGES PRIOR TO FIXING

Apply a single first coat to **ALL EDGES** (ends and tongue or groove sides) of your **INEX>MAXIDECK** prior to fixing. Use a brush to ensure all parts of the tongue and groove sides are fully coated and are allowed to dry prior to fixing. Again, review the application recommendations of the coating company prior to commencing coating. Do not apply if temperatures are below 10°C or in high humidity.

STEP 3 – FIX YOUR BOARDS AND TOUCH UP ANY CONSTRUCTION CUTS

Apply a 6mm bead of **INEX>BOND**, or other suitable construction adhesive/sealant, to each joist and a 2mm to 3mm bead to the tongue and groove joints prior to fixing. We recommend that you use a pre-drill and countersinking tool as part of your fixing process. Use stainless steel decking screws with a counter sinking head, (see overleaf for further details). Take care not to overdrive the screws as this may result in some chipping of the surface.

At this stage any construction cuts or chips that expose the grey or raw part of your sheets need to have the first coat re-applied to that area prior to fixing.

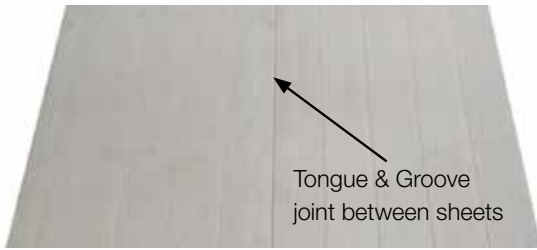
STEP 4 – SUBSEQUENT COATS

Once the **INEX>MAXIDECK** boards are fixed apply the first, second and third coats of your coating system. Do not apply if temperatures are below 10°C or in high humidity. Your first coat can be applied with a foam roller or spay and then use a brush to lay off in the direction of the grooves. The second coat will be another coat of your selected stain and this should be applied with a brush. Careful application of this coat and laying off in the direction of the boards will achieve the best results for you. We recommend that you trial a small test area first to establish the rate of application suitable for the desired effect. Again, review the application recommendations of the coating company prior to commencing coating for which the first coat must be applied immediately, with subsequent coats within 2 weeks of fixing. Always ensure your sheets are; dry, clean and dust free prior to any coat.

At this stage ensure all screw fixings are sealed with these coats to avoid moisture or standing water penetrating into the board via these fixing points. Because concrete is hygroscopic it absorbs moisture and gives it off again. Water or moisture entering the board will not affect its structural performance, but can cause a darkening of the board below the coating and this darkening will remain until the board is allowed to dry out. This can be minimised by this step.

INSTALLATION (INCL. BAL-40 & BAL-FZ)

PRODUCT



WEIGHT

At Approx. 34kg per 2700mm length **INEX>MAXIDECK** is relatively lightweight and easy to handle on site.

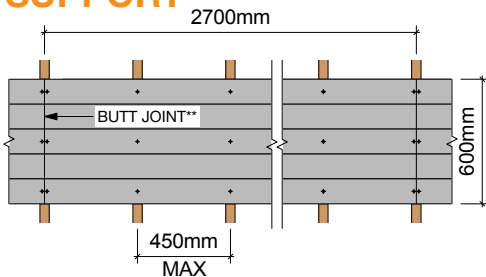
LOADING

INEX>MAXIDECK is suitable for all decking applications, where the required Live Load is not greater than 2.7kN.

STORAGE

INEX>MAXIDECK 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>MAXIDECK** vertically.

SUPPORT



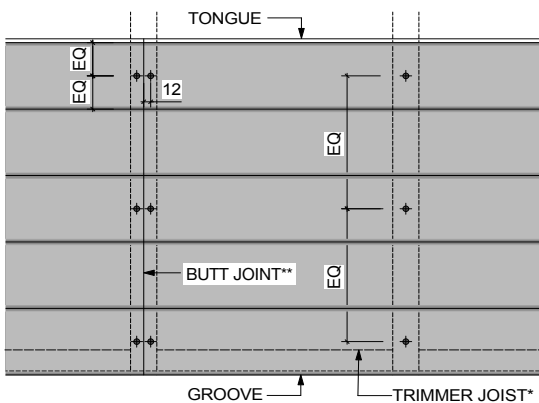
FRAMING

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

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’.

FIXING



*All frame edges must have trimmer joists as support.

**When fixing to steel frame provide 2mm expansion joint at every 3rd (third) butt joint.

Figure 1

ASSEMBLY

Apply a 6mm bead of **INEX>BOND**, or other suitable construction adhesive/sealant, to each joist and a 2mm to 3mm bead to the tongue and groove joints prior to fixing.

INEX>MAXIDECK can be fitted to a square or staggered layout.

FIXINGS:

When fixing **INEX>MAXIDECK** to the joists, apply a bead of **INEX>BOND**, or another suitable construction glue, to the tongue and groove joints. Ensure all fixings are located according to Figure 1. Most self-embedding screws will countersink neatly into **INEX>MAXIDECK**. 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; however we recommend using a pre-drilling and countersinking tool as the best method of fixing.

FIXINGS – TIMBER JOISTS – Stainless Steel Fixings

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

FIXINGS – STEEL JOISTS – Stainless Steel Fixings

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

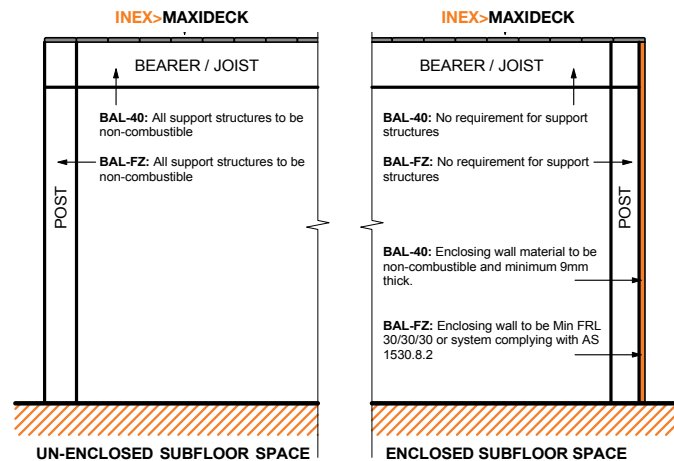
APPLICATION



FINISHES

If a natural timber appearance is desired then **INEX>MAXIDECK** offers the perfect solution, and comes with a reduction of the long term maintenance issues of timber itself. UBIQ's unique textured surface on **INEX>MAXIDECK** allows for complete flexibility of finishes to be achieved; from an authentic natural timber appearance to many other staining or painting options.

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



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.

Note: UBIQ's concrete is a natural product and UBIQ sees it as such, with all its vital signs and characteristics. Each **INEX>MAXIDECK** board is regarded as a single piece, just like natural timber. Efflorescences or small, visible pores or patches are not defects. They add to the character of the final finished and stained product. Differences in the surface appearance, which do not affect the fit for purpose of the panels, are permitted. The surface is not homogenous and the variations and texture are what deliver the remarkable appearance once these coatings are applied. They are what set these boards apart from other composite decking products.

INSTALLATION (INCL. BAL-40 & BAL-FZ)

INSTALLATION EQUIPMENT

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

STORAGE: **INEX>MAXIDECK** must be stored flat and in a well ventilated covered and dry area.

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

CUTTING: **INEX>MAXIDECK** 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>MAXIDECK** must be fixed to joists by screw fixings. We recommend using a pre-drilling and countersinking tool as the best method of fixing.



Important Notes:

Ensure all components are compatible with each other and suitable for **INEX>MAXIDECK** 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>MAXIDECK is an advanced high strength, low carbon fibre reinforced Engineered Cementitious Composite (ECC) product, containing 60% of post industrial recycled materials.

INEX>MAXIDECK 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. The warm water test is not considered relevant to **INEX>MAXIDECK**.

INEX>MAXIDECK is moisture resistant and retains its structural integrity when subjected to multiple soak/dry cycles in accordance with clause 8.2.5 of AS/NZS 2908.2 2000 'Cellulose-cement products Part 2: Flat sheets'.

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

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

INEX>MAXIDECK 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>MAXIDECK is not susceptible to Termite Attack.

LOADING PROPERTIES

INEX>MAXIDECK is suitable for all residential or commercial decks with joist spaces at a maximum of 450mm centres, and where the support of a concentrated action to a limit of 2.7kN is permitted.

HEALTH & SAFETY

UBIQ advises that **INEX>MAXIDECK** 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>MAXIDECK** use methods recommended in this brochure to minimise dust production, and in addition:

LOCATION: Do not cut **INEX>MAXIDECK** 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.



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