

PRODUCT TECHNICAL STATEMENT

PURPOSE OF DOCUMENT

UBIQ is a supplier of a unique engineered cementitious composite board for exterior decking branded as **INEX>DECKING**.

This document provides an executive summary of information necessary to consider when specifying or using **INEX>DECKING**.

UBIQ recognises the importance of its products in the ultimate performance of a building. Consequently, it has decided to provide this technical statement in order to demonstrate that it has met its s14G responsibilities. UBIQ is able to substantiate the claims of performance based on robust, relevant evidence, which is available upon request providing that the information is not commercially sensitive.

RELEVANCE OF NEW ZEALAND BUILDING CODE

The NZ Building Code applies to building work¹. For **INEX>DECKING**, compliance with the relevant provisions of the building code obligations are listed in Appendix 1.

PRODUCT DESCRIPTION & USE

INEX>DECKING is a 19mm thick, high strength, lightweight, low carbon, fibre reinforced Engineered Cementitious Composite (ECC) board including 60% post industrial recycled materials suitable for exterior decking. Once a wood stain is applied to **INEX>DECKING**, it has the appearance of natural timber. **INEX>DECKING** is a highly durable product and represents a real alternative to natural timber without its ongoing maintenance issues.

INEX>DECKING is available in the following sizes:

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

SCOPE OF USE

INEX>DECKING is intended for use on buildings with an importance level 2 or less.

It may be used in the following situations:

- On new and existing buildings up to 10m in height
- In wind zones up to an including extra high, as defined by NZS3604, or up to a maximum upper limit state (ULS) of 2.5kPa where the framing has been specifically engineered
- On new buildings where the framing complies with the NZBC
- On existing buildings where the designer and installer have assured themselves that the structure is adequate for the intended building work

DESIGN CONSIDERATIONS & LIMITATIONS

INEX>DECKING is suitable to be used in application where the live load is not greater than 1.8kN on timber or steel joists. Joist spacing's shall be no greater than 450mm centres. Uncovered decks require a fall of 2 – 3 mm/M to aid surface water run-off. Appropriate durable fixings must be used based on the exposure zone as defined Section 4 NZS 3604: 2011

¹ The meanings of italicized words are as defined in Clause A2, Building Regulations 1992, Schedule 1 (The NZ Building Code) or as defined in s7 of the Building Act 2004.

INSTALLATION CONSIDERATIONS & LIMITATIONS

INEX>DECKING must be installed according to **INEX>DECKING** TECH SHEET & **INEX>DECKING** BAL-40 & BAL-FZ INSTALLATION guide available at www.ubiq.com.au

Care must also be taken to ensure that:

- Gaps between boards in accordance with **INEX>DECKING** TECH SHEET or **INEX>DECKING** BAL-40 & BAL-FZ INSTALLATION, subject to requirements.
- The 'rough side' is facing up
- The 'butt ends' are supported by a joist
- All sides of **INEX>DECKING** must be sealed prior to fixing and coated with the selected & approved coating system after installation.
- All screw fixings are sealed at the stage of 2nd & 3rd coats.
- All screw fixings must have minimum corrosion resistance of Stainless Steel Grade
- No pieces are cut shorter than 900 mm
- All decking boards lie across minimum three joists.

STORAGE & HANDLING

INEX>DECKING should be stored flat, raised off the ground and protected from moisture. All edges should be protected from damage. **INEX>DECKING** must not be stored vertically.

MAINTENANCE

Due to its durability, moisture resistance and resistance to mould, **INEX>DECKING** has little maintenance issues compared to timber decking.

WARRANTY

UBIQ warrants the **INEX>DECKING** product for 10 years.

QUALITY ASSURANCE

Currently marketed in New Zealand under:-

- ISO100005 Quality Management System
- Green Tick Approval Certification

TECHNICAL LITERATURE REFERRED TO IN PREPARATION OF THIS DOCUMENT

INEX>DECKING INFOSHEET

INEX>DECKING TECH SHEET

INEX>DECKING BAL-40 & BAL-FZ INSTALLATION

FURTHER ASSISTANCE

For further information contact UBIQ:

Phone: +61 2 9519 4460

Website: www.ubiq.com.au

SIGN OFF & REVIEW DATE

Signed	
Position	
Date:	
Review Date:	

APPLICABLE PERFORMANCE CRITERIA (NZBC)	EVIDENCE	COMMENT / RESULTS
B1.3.1, B1.3.2, B1.3.3 (a), (b), (j) & (q)	CSIRO (May 2013) AS/NZS 2908.2:2008 Testing No. 6594A Test standard- AS/NZS 2908: 2008 Strength Test (University of Queensland) dated 01-09-2015:	All appropriate structural testing completed, including: bending strength, density, water permeability Freeze-Thaw, soak-dry & heat rain
B2.3.1 (c)	CETEC (Sept 2014) ASTM C1338-08 Ref: CV140516 SGS (Nov 2013) Corrosion testing Ref: ENV-18422	Fungi resistance assessed Accelerated aging using deionized water test method
F2.3.1	CETEC (Aug 2014) Asbestos Test certificate Ref: CV140742a CETEC (Aug 2014) Emission Test certificate Ref: CV140742	Containing no asbestos or other hazardous materials
D1.3.3 (d)	CSIRO (Feb 2013) Slip Resistance Report Ref: No. 6531.1As Test standard AS/NZS 4586:2004	Wet Pendulum test method Class F Dry coefficient of friction-0.65 & 0.50
C3.7(a)	BRANZ Technical Opinion (June 2015) NZBC, C/VM2, heat release, Ref: FAR 4437-TO Exova (Dec 2012) AS/NZS 1530.1:1994, Ref: 26399-00a.1 Exova (Oct 2014) AS/NZS 1530.2, Ref: 312153-00a.1 Exova (Oct 2014) AS/NZS 1530.3, Ref: 312153-00b.1	Group classification 1-S Non-combustible

Appendix 1