Installation Requirements

T3 GREEN

HYNE TIMBER T3 GREEN TREATED TIMBER FRAMING

HYNE TIMBER

PRODUCT INSTALLATION REQUIREMENTS

PERFORMANCE STATEMENT

Hyne Timber T3 Green has been designed and manufactured to resist termite action and above ground decay in Australian buildings. It has also been designed to eliminate VOC's and have a very low odour.

When installed in accordance with the requirements herein, T3 Green can be used in conjunction with other building materials/systems to resist termite action and decay, and meet the performance requirements of the National Construction Code Building Code of Australia (BCA).

Intended Use

Hyne Timber T3 Green products are suitable for use in buildings in external and internal, above ground applications in Australia. Typically, this may include: deck joists, pergola rafters and wet-area wall framing.

T3 GREEN PROPERTIES

- TERMITE RESISTANT
- PRODUCT OF AUSTRALIA
- FUNGAL RESISTANT
- NO VOC EMISSIONS

CODEMARK® Australia CM40200

Independently Certified

Give your customers the trusted brand in structural timber.

PRODUCT DESCRIPTION

Appearance

The surface of T3 Green is lightly coloured to give an even green colour, which differentiates this product from non-treated timber products, and from other treated timbers, like Hyne Timber T2 Blue and T2 Red (both of which are intended for use in dry, above ground applications only).

Certification

T3 Green is a CodeMark® Australia certified product, meaning that it has been independently audited for compliance against the performance requirements of BCA, relating to structural reliability, stability and resistance to actions. CodeMark® Australia certification ensures product acceptance by building certifiers.

Timber Species

T3 Green is manufactured from Responsible Wood and PEFC Chain of Custody Certified Australian plantation grown softwood: including Radiata Pine, Slash Pine, Caribbean Pine & hybrids of Slash/Caribbean Pine.

Sizes

Width:	Up to 240mm
Thickness:	Up to 45mm
Length:	Up to 6m

Grades

T3 Green is available in F5, MGP10 and MGP12 structural grades. These grades are manufactured to meet the product requirements defined in AS/NZS 1748.1 "Timber - Solid - Stress-Graded for Structural Purposes General Requirements".

Strength & Stiffness

T3 Green has the structural properties defined in AS 1720.1 "Timber structures Design methods" for the nominated grade. Please note that immediately following preservation or on-site wetting, the strength and stiffness of this product may reduce slightly. Avoid full loading during the construction period and until in-service stabilisation has occurred.

Durability

T3 Green has been designed to resist all termite species in Australia, and to resist above ground fungal organisms which can cause decay. The preservatives used have satisfied test protocols, defined by the Australian Wood Preservation Committee. This product also meets the preservation requirements of AS 1604.1 "Specification for Preservative Treatment – Sawn and Round Timber".

Product Identification

T3 Green products are individually marked to include the product name, the AS 1604.1 brand and the CodeMark® Australia certification number. Product packaging is marked with a pack card that describes the product and its certification.

Building Performance Requirements

When designed, installed, used and maintained in accordance with the requirements herein; T3 Green will provide sufficient termite protection and decay resistance for the building to meet the BCA performance requirements. i.e.

Building Design Requirements

VOLUME ONE

BP1.1 (a), (b) (xv)	Structural reliability, as applicable to treated timber products.
BP1.2	Structural resistance, as applicable to treated timber products.

VOLUME TWO

P2.1.1 (a), (b) (xv) (c)	Structural stability and resistance to actions, as applicable to treated timber products.

The structural and durability design of buildings using T3 Green shall comply with the principles and requirements defined in AS 1720.1, AS 1684 and AS 3660.

Two options for resisting termite action are:

1. The use of termite resistant materials as primary building elements, and/or
2. The use of termite barrier systems.

T3 Green is a termite resistant material and may be used solely, or in conjunction with, other termite resistant materials to resist termite actions and satisfy the BCA performance requirements. Where all primary building elements are not designed, specified and installed as termite resistant; then a termite barrier system shall be used. Where primary building elements, other than T3 Green, are also used in a building then the BCA structural provisions relating to termite action shall be met. e.g. AS 3660.1 "Termite Management – New Building Work".

Building Practice Requirements

SITE TREATMENT

T3 Green shall be installed, stored and maintained in accordance with the building practice requirements of AS 1684 "Residential Timber-Framed Construction." The resistance of T3 Green to termites and decay may be affected by: end trimming, notching, trenching or drilling of holes. Suitable brush-on or spray-on preservative treatments for T3 Green are recommended below.

- Protim® Solignum® XJ Clear (See Figure 1)
- Tanalised® Enseal Clear or Ecoseal (See Figure 2)

These products contain insecticides and fungicides, which with the correct application will protect any: end trims, notching, trenching or drill holes.

1

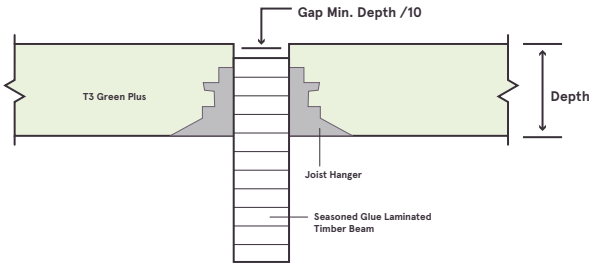
2

SITE CONDITIONING

The moisture content and dimensional tolerance requirements of AS/NZS1748.1 may be exceeded immediately following preservative treatment and/or wet weather conditions, and can be expected to return to equilibrium within a few weeks of dry conditions. Due allowance shall be made for an elevated moisture content and some minor swelling. The guidance in Appendix E "Moisture Content and Shrinkage" of AS 1684.2 "Residential Timber-Framed Construction" is applicable. Swelling of up to 4% over the nominal product width may occur, and due allowance, particularly in very wide sections, should be made.

Allowing for shrinkage is particularly critical where T3 Green is used in conjunction with seasoned timber members.

ALLOWANCE FOR SHRINKAGE IN T3 GREEN



FIXING

Corrosion resistant fasteners, fixings, and connectors such as, hot-dip galvanised or stainless steel must be used in all applications.

PRODUCT FINISHING

Where used in outdoor environments and/or exposed to ultraviolet light, T3 Green must be sealed with a suitable timber paint or stain coating (Cabot's Timbercolour, Intergrain NaturalStain or a suitable equivalent) to maintain optimum serviceability, appearance and dimensional stability. All surfaces must be adequately coated to ensure the timber is protected from the elements. Ensure T3 Green is clean and dry before applying any coating products, and that the coating manufacturers' instructions are followed carefully. Coatings must be maintained as per the instructions of the coating manufacturer - particularly when subject to harsh environmental conditions.

OVERVIEW

This manual details the installation requirements for T3 Green. It is intended for use by building designers, builders, carpenters, other trades persons and building certifiers responsible for ensuring that buildings manufactured from T3 Green can resist the action of termites and decay, in accordance with the relevant performance requirements of the National Construction Code Building Code of Australia (BCA).

GUIDELINES

Safety

T3 Green is safe to use. A Safety Data Sheet (SDS) is available at www.hyne.com.au. Take standard precautions against wood dust e.g. wear dust-proof goggles, leather or cotton gloves, and a class P1 respirator if generating dust from cutting or sanding.

Storage and On-Site Protection

T3 Green is both termite and decay resistant and can resist weather exposure for short periods without aesthetic deterioration. The product is not designed to resist in-ground decay-causing fungi and therefore it should be stored in dry conditions above the ground, after delivery and prior to use. Exposure to ground based decay may cause deterioration and negate the termite resistance of the product.

Waste Disposal

You should be able to dispose of offcuts through normal trade waste collection services. For large volumes you should check with your local waste service authority for disposal requirements.

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THIS DOCUMENT SUPERSEDES ALL PREVIOUS VERSIONS

HYNE TIMBER

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