

Installation Requirements

HYNE TIMBER T2 BLUE
TREATED TIMBER FRAMING

T2

BLUE



Hyne Timber T2 Blue has been designed and manufactured to resist termite action in buildings that are located below the Tropic of Capricorn in Australia.

When installed in accordance with the requirements herein, T2 Blue can be used in conjunction with other building materials/systems to resist termite action and meet the performance requirements of the National Construction Code Building Code of Australia (BCA). Other materials and systems may include termite resistant materials other than T2 Blue, and/or termite barrier systems.

T2 BLUE PROPERTIES



TERMITE RESISTANT PRODUCT



FOR USE BELOW THE TROPIC OF CAPRICORN



FOR INDOOR, ABOVE GROUND USE



SAFE TO HANDLE AND WORK WITH



25 Year Guarantee.

Give your customers the trusted brand in structural timber.

Intended Use

T2 Blue products are suitable for use in buildings in internal, above ground, dry structural and non-structural applications which are located South of the Tropic of Capricorn in Australia.

Appearance

The surfaces of T2 Blue are coloured to give an even blue colour, which differentiates this product from non-termite resistant timber products and from termite resistant timbers intended for use North of the Tropic of Capricorn, which may be coloured red (refer to Hyne Timber T2 Red).

Timber Species

T2 Blue is manufactured from plantation grown softwoods including Radiata Pine, Hoop Pine, Slash Pine, Caribbean Pine and hybrids thereof.

Sizes

Widths: Up to 240mm
Thicknesses: Up to 45mm
Lengths: Up to 6m

Grades

T2 Blue is available in F5, MGP10, MGP12 and MGP15 structural grades, which meet the product requirements defined in AS/NZS1748.1. Non-structural grades may include valley boards, utility and battens.

Strength & Stiffness

T2 Blue has the structural properties defined in AS1720.1 for the nominated grade.

Durability

T2 Blue is resistant to all termite species South of the Tropic of Capricorn, and has satisfied the H2 Field Test Protocol as defined by the Australian Wood Preservation Committee.

Product Identification

T2 Blue products are individually marked to include the product name, the regional restriction (e.g. "Use South of Tropic of Capricorn only"), and the date/time of manufacture. Packages of T2 Blue are marked with a Pack Card that describes the product and its certification.

Packaging

T2 Blue is packaged to a common parcel size, nominally 700mm wide x 500mm high. The piece numbers in each pack are shown below:

THICKNESS (MM)	WIDTH (MM)	35	45
	NO. WIDE HIGH	14	11
70	10	140	110
90	8	112	88
140	5	70	55
190	4	56	44
240	3	N/A	33

Packages of T2 Blue may be supplied either wrapped with plastic film, or not wrapped.

Building Performance Requirements

When designed, installed, used and maintained in accordance with the requirements herein, T2 Blue will provide sufficient termite protection for the building to meet the Building Code of Australia (BCA) performance requirements relating to termite actions, which may occur South of the Tropic of Capricorn.

I.e. Class 2 to Class 9 Buildings (Volume 1) & Class 1 and Class 10 Buildings (Volume 2) BP1.1 & P2.1 Structural stability and resistance to actions

- a. A building or structure, during construction and use, with appropriate degrees of reliability, must:
 - i. perform adequately under all reasonably expected design actions; and
 - ii. withstand extreme or frequently repeated design actions; and
 - iii. be designed to sustain local damage, with the structural system as a whole remaining stable and not being damaged to an extent disproportionate to the original local damage; and
 - iv. avoid causing damage to other properties,
 - v. by resisting the actions to which it may reasonably be expected to be subjected.
- b. The actions to be considered to satisfy (a) include but are not limited to:
 - i. (i), (ii), (iii) ... (xiv), (xv) termite actions.

T2 Blue is not suitable for use North of the Tropic of Capricorn.

Building Design Requirements

The structural and durability design of buildings using T2 Blue shall comply with the principles and requirements defined in Australian Standards AS1720.1, AS1684 and AS3660. Two options for resisting termite action in a building are,

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

The BCA defines a primary building element as “a member of a building designed specifically to take part of the building loads and includes roof, ceiling, floor, stairway or ramp and wall framing members including bracing members designed for the specific purpose of acting as a brace to those members.” A unique Queensland variation to the BCA, specifically includes the following additional members within the meaning of primary building element, “door jambs, window frames and reveals, architraves and skirtings.”

T2 Blue 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; a termite barrier system must be used. Where primary building elements other than T2 Blue are also used in a building, then the BCA structural provisions relating to termite action shall be met (AS3660.1 “Termite Management – New Building Work”).

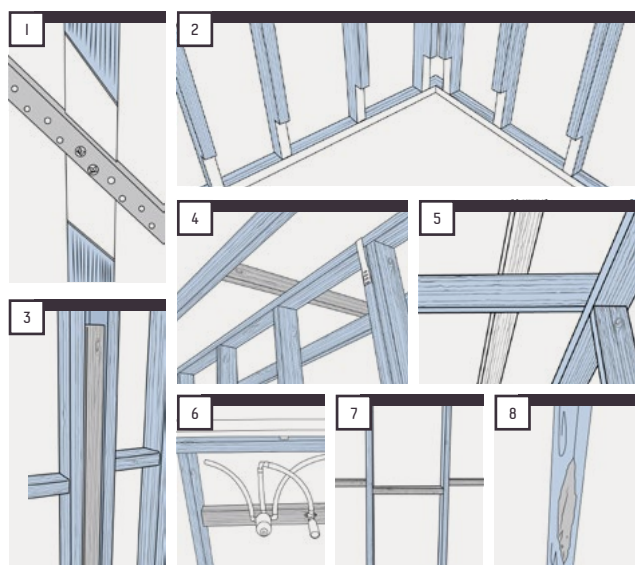
Building Performance Requirements

T2 Blue shall be installed, used and maintained in accordance with the building practice requirements of AS1684 “Residential timber-framed construction.” T2 Blue termite resistance is dependant upon the integrity of the treatment envelope. Research has shown that a trimmed end, abutting a treated surface, does not adversely affect the termite resistance of the timber. Similarly minor notching, trenching and drilling of holes in T2 Blue, in accordance with the requirements of AS1684.2 Clause

6.2.1.4 is considered acceptable by termite experts.

However, a number of practical building situations can arise, during construction, which may either necessitate the removal of the envelope treatment from T2 Blue or require the use of termite susceptible timber with no envelope treatment. This may occur in the following situations:

1. Recessing of metal bracing products (Figure 1)
2. Rebates to accommodate showers or baths (Figure 2)
3. Inclusion of non-termite resistant timber members (Figures 3, 4, 5 & 6)
4. Stud straightening by planing of stud mid-sections (Figure 7)
5. Inadvertent damage to members (Figure 8)



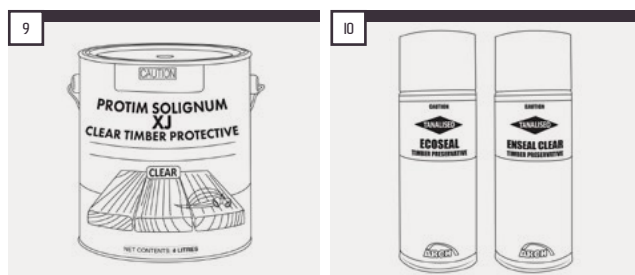
Where the exposed surface area of termite susceptible timber exceeds the cross sectional area of the member concerned, then additional termite protection is required to achieve the performance requirements of the BCA relating to termite action. Where replacement of the affected timber member is not practical or possible then the following acceptable methods for protecting termite susceptible timber are required,

1. The installation of a termite barrier system
2. The in-situ preservative treatment of any termite susceptible timber.

Suitable brush-on or spray-on preservative treatments for termite susceptible timber are listed below,

- Protim® Solignum® XJ Clear (See Figure 9)
- Tanalised® Enseal Clear or Ecoseal (See Figure 10)

These products contain insecticides, which with the correct application will provide termite protection to any exposed termite susceptible timber.



OVERVIEW

This manual details the installation requirements for Hyne Timber T2 Blue.

It is intended for use by building designers, builders, carpenters, other trades persons and building certifiers responsible for ensuring that buildings manufactured from T2 Blue timber can resist the action of termites, in accordance with the relevant performance requirements of the National Construction Code Building Code of Australia (BCA).

GUIDELINES

Safety

T2 Blue is safe to use. The Material Safety Data Sheet (MSDS) is available at hyne.com.au.

Storage and On-site Protection

T2 Blue is termite resistant and can resist the effects of weather for short periods, typical of normal construction environments and timescales. It is not designed to resist decay causing fungi and should be stored in dry conditions wherever possible. After delivery and prior to use, T2 Blue should ideally be protected from moisture by covering with a waterproof membrane and storing above the ground. Following the use of T2 Blue, the roof covering of the building shall be completed as soon as possible to provide weather protection and protection from decay. Exposure for long periods may cause decay, negating the termite resistance of the product.

Waste Disposal

T2 Blue off-cuts and saw dust are not classified as hazardous waste and can be disposed through normal waste collection and disposal services. Off cuts can be burnt in industrial incineration, but are not suitable for use as a domestic heating or cooking fuel.

For more information call the Hyne Timber Product Information Service on **1300 304 963**.

DATE OF ISSUE: JULY 2015
THIS DOCUMENT SUPERSEDES ALL PREVIOUS VERSIONS



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