



INSTALLATION REQUIREMENTS

Hyne Timber T2 Blue. Treated timber framing.
For use South of the Tropic of Capricorn.





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 (NCC).

Guidelines

Safety

T2 Blue is safe to use. A Safety Data Sheet (SDS) is available at www.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 (timescales less than 3 months). 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. Weather exposure during construction must be minimised and wet timber should be allowed to dry before enclosing with wall, floor or roof sheeting. Exposure for periods, greater than 3 months, may cause decay, negating the termite resistance of the product and void the warranty.

Moisture protection

Flashing shall be provided around building openings to prevent moisture entry into the frames. A damp proof course must be installed between slabs and bottom plates with particular attention to plates in wet area rooms and external wall bottom plates where slab edges are exposed.

Waste disposal

T2 Blue offcuts and sawdust may be classified as controlled waste, depending on the legislation in the state of use. Check with your local environmental regulator or waste removalist about appropriate disposal methods. Offcuts are not suitable for use as a domestic heating or cooking fuel.

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 National Construction Code (NCC) performance requirements relating to termite actions, which may occur south of the Tropic of Capricorn, i.e.

NCC Volume 1	
B1P1 & B1P2 B1P1 2) a) - n)	Structural Reliability & Resistance: <i>Permanent loads, live loads, environmental actions, differential movement, time dependent effects, construction actions</i>
B1P1 2) o)	Structural Reliability & Resistance: <i>Termite actions</i>
NCC Volume 2	
H1P1 2) a) - n)	Structural Reliability & Resistance: <i>Permanent loads, live loads, environmental actions, differential movement, time dependent effects, construction actions</i>
H1P1 o)	Structural Reliability & Resistance: <i>Termite actions</i>

Building practice requirements

T2 Blue shall be installed, used and maintained in accordance with the building practice requirements of AS 1684 "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 AS 1684.2 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:

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

- The installation of a termite management system
- 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
- Tanalised® Enseal Clear or Ecoseal

These products contain insecticides, which with the correct application will reinstate the termite treatment envelope.

Building design requirements

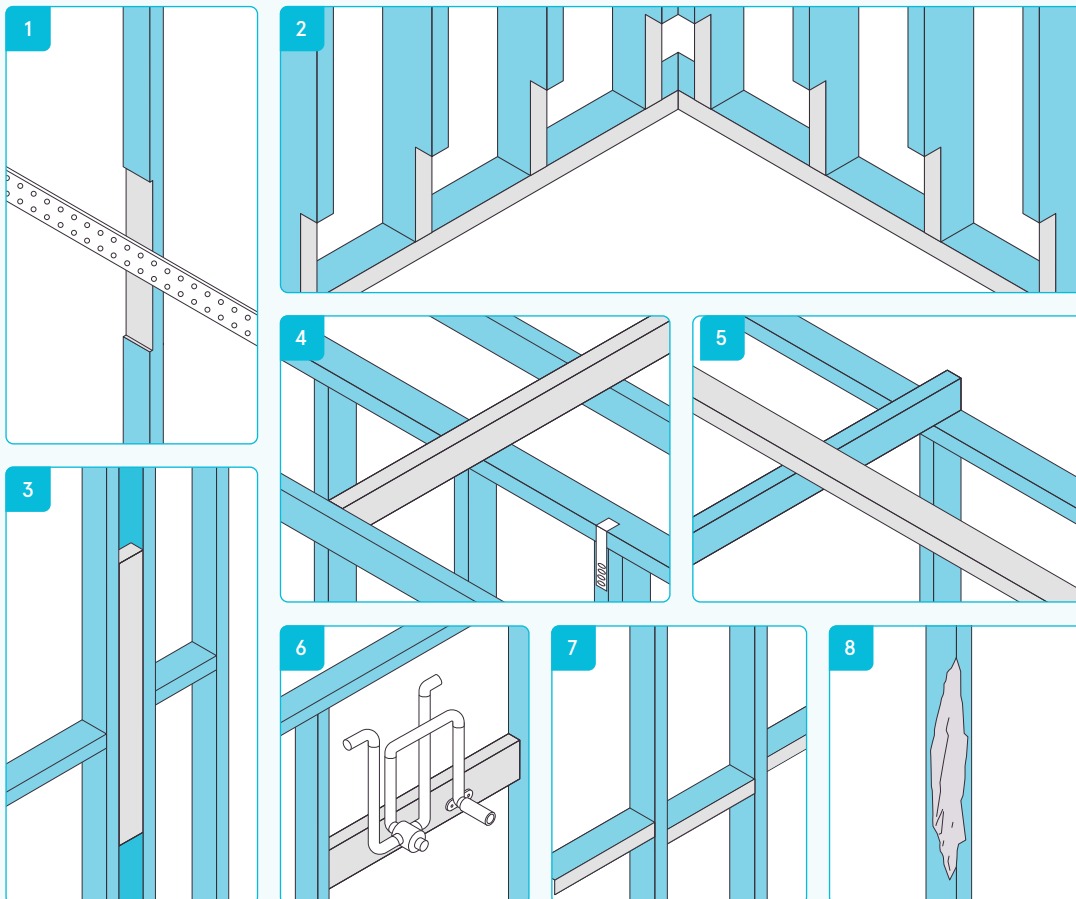
The structural and durability design of buildings using T2 Blue shall comply with the principles and requirements defined in Australian Standards AS 1720.1, AS 1684, AS 3660 and the NCC. Two options for resisting termite action in a building are:

- The use of termite resistant materials as primary building elements, and/or
- The use of termite management systems.

The NCC 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 NCC, 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 NCC performance requirements. Where all primary building elements are not designed, specified and installed as termite resistant; a termite management system must be used.

Where primary building elements other than T2 Blue are also used in a building, then the NCC structural provisions relating to termite action shall be met (AS 3660.1 “Termite Management – New Building Work”).



Product description

Intended use

Hyne Timber 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 or within a 50 km radius of the Rockhampton City centre.

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 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

Widths: 70mm to 240mm
Thicknesses: 35mm and 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/NZS 1748.1. Non-structural grades may include valley boards, utility and battens.

Strength & stiffness

T2 Blue 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

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 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.

Performance statement

Hyne Timber 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.

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 (NCC). Other materials and systems may include termite resistant materials other than T2 Blue, and/or termite barrier systems.

Note: Where resistance to decay is also required for above ground, including weather protected framing, T3 Green should be specified and used.

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 timber.



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