



INSTALLATION REQUIREMENTS

Hyne Timber T2 Red. Treated timber framing.
For use in all areas of mainland Australia.





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

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

Guidelines

Safety

T2 Red is safe to use. A Safety Data Sheet (SDS) is available at www.hyne.com.au.

Storage and on-site protection

T2 Red is termite resistant and can resist the effects of 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 Red should ideally be protected from moisture by covering with a waterproof membrane and storing off the ground. Following the use of T2 Red, 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.

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 Red off cuts and saw dust from T2 Red are not classified as a hazardous waste and hence can be disposed of 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.

Product performance and requirements

Building performance requirements

T2 Red when designed, installed, used and maintained in accordance with the requirements herein, will provide sufficient termite protection for the building to meet the National Construction Code (NCC) performance requirements, relating to termite actions, 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 Red shall be installed, used and maintained in accordance with the building practice requirements of Australian Standard AS 1684 "Residential timber-framed construction." The termite resistance of T2 Red, with its termite resistant heartwood and full sapwood treatment, is not adversely affected by end trimming, notching, trenching or drilling of holes.

However, a number of practical building situations can arise, during construction, where termite susceptible timber is used. This may occur in the following situations:

- Inclusion of non-termite resistant timber members (Figures 1, 2, 3 & 4).

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 barrier 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 Ecoséal

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

Building design requirements

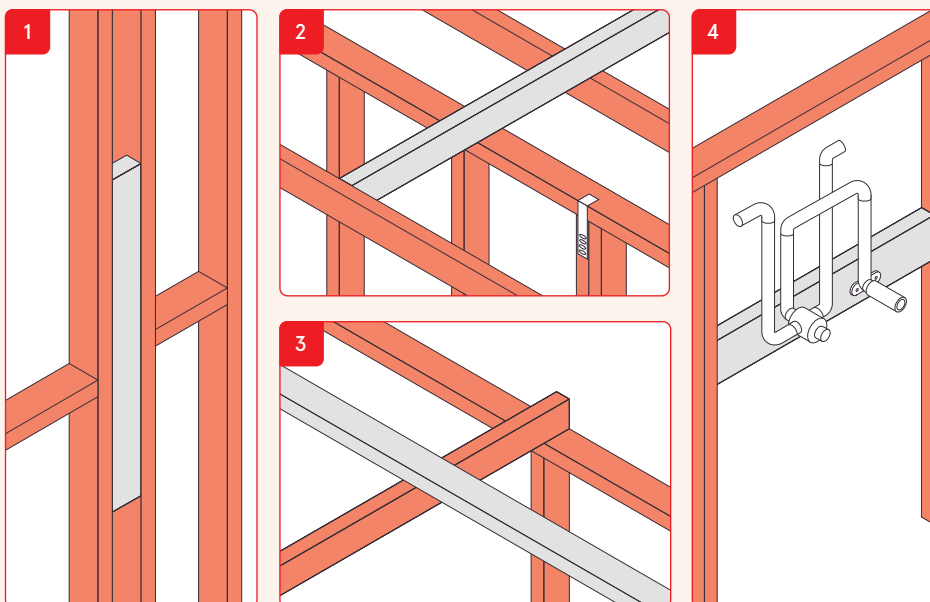
The structural and durability design of buildings using T2 Red shall comply with the principles and requirements defined in Australian Standards AS 1720.1, AS 1684 and AS 3660. Two options for resisting termite action in a building are,

- The use of termite resistant materials as primary building elements, and/or
- The use of termite barrier 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 Red 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 than a termite barrier system shall be used.

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



Product description

Intended use

Hyne Timber T2 Red products are suitable for use in buildings in internal, above ground, dry structural and non-structural applications in Australia.

Appearance

The surface of T2 Red is coloured to give an even red colour, which differentiates this product from non-termite resistant timber products, and from termite resistant timbers, like Hyne Timber T2 Blue, which is only intended for use where no *Mastotermes* termites are present.

Timber species

T2 Red is manufactured from Responsible Wood and PEFC Chain of Custody Certified Australian plantation grown softwood: including Slash Pine, Caribbean Pine & hybrids of Slash/Caribbean Pine.

Sizes

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

Grades

T2 Red is available in F5, MGP10, MGP12 and MGP15 structural grades, which meet the product requirements defined in AS/NZS 1748.1. Hyne non-structural grades may include valley boards, utility and/or battens.

Strength & stiffness

T2 Red 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 Red is resistant to all termite species in Australia, and has satisfied the H2 Field Test Protocol, defined by the Australian Wood Preservation Committee.

Product identification

T2 Red product is individually marked to include the product name, and a date/time of manufacture. Product packaging is marked with a Pack Card that describes the product and its certification.

Packaging

T2 Red 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
	N°. 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 Red may be supplied either wrapped with plastic film, or not wrapped.

Performance statement

Hyne Timber T2 Red has been designed and manufactured to resist termite action in Australian buildings.

When installed in accordance with the requirements herein, T2 Red 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 Red, and/or termite barrier systems.

T2 Red properties

	Termite resistant product		For use above 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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