Termites!
Treated timber & termite management
Unlike termite barrier systems, T2 Blue protects from the inside out.

25 year Termite Guarantee

Effective against both crawling and flying termites

Safe to handle and work with

The best protection against termites.

A dog kennel, garden bed or even long grass can form pathways for termites to breach barrier systems. Choose the proven, set-and-forget pathway to NCC termite compliance. For pricing and availability, call us now on 1300 784 963.

whyT2blue.com.au
Welcome

We Aussies love our timber. Sadly, so do termites! There are more than 350 species of termite in Australia, and most of us have witnessed the destruction that these greedy insects can cause to homes and other structures. In fact, the CSIRO has estimated that termites cause more damage than fire and storms combined! Add to this the problem that home insurance doesn’t cover termite damage and you can see that it’s essential to protect your home from termite attack. There are a number of management systems that provide protection against termites, however, in this booklet we will be looking specifically at treated timber – a guaranteed, long-term, sustainable solution that’s safe for you and your family.

CONTENTS

Termite risk management ....................4
Frequently asked questions....................6
Wood preservation...............................9
Product guide.................................12

ADVERTISERS’ INDEX

Carter Holt Harvey Woodproducts..............5
Hyne Timber ...........................................IFC
Meyer Timber.........................................7
Tilling..................................................OBC
TimTechCherm.....................................11
Wespine...............................................15

DISCLAIMER

The publisher has made every effort to ensure that the information in this guide was correct at the time of publication. The publisher does not assume, and hereby disclaims, any liability to any party for any loss, damage, or disruption caused by errors or omissions, whether such errors or omissions result from negligence, accident or any other cause.

PARAGON MEDIA

ABN: 49 097 087 860
Suite 14, Level 2/174 Willoughby Road
Crows Nest, NSW, 2065
PO Box 81, St Leonards, NSW, 1590, Australia
Tel: 02 9439 1965 / Fax: 02 9439 1977
Email: query@timbertradernews.com

www.timbertradernews.com
The Building Code of Australia Part 3.1.3 of Volume 2 – Termite Risk Management is concerned with protection of the Primary Building Elements which are those members taking structural loadings such as the structural frame, bracing, flooring, stairways, etc. In Queensland the requirement includes door jambs, window frames and reveals, architraves and skirtings. Where a Primary Building Element of a Class 1 (house or attached houses or hostel or the like) and Class 10 (non-habitable buildings, eg, garages, carports, sheds) is considered susceptible to termite attack, a termite management system is required unless the buildings have all their primary building elements constructed from termite resistant materials. Termite resistant materials may include materials such as concrete, steel framing, masonry, naturally termite resistant timber and preservative treated timber.

Termite management systems are in general “groundline” systems intended to prevent concealed access of termites into the building. These systems include possible combinations of concrete slab on ground construction, granular fill, stainless mesh, chemical reticulation systems and in the case of suspended timber floors, the use of “ant-caps.” All systems require ongoing inspection and possible maintenance.

**TIMBER FRAMED SYSTEMS**

To satisfy BCA requirements, in general a class 1 or 10 building may be built from naturally termite resistant timber framing or preservative treated timber framing and no other termite management system is required as long as the Primary Building Elements are built from those materials. A timber frame may be built from non-termite resistant timber but the structure will need a groundline termite management system.

**OTHER CONSIDERATIONS**

Termite risk management requirements vary according to local and state/territory building regulation, for example Termite Risk Management requirements are deemed not to apply in Tasmania and some mainland Australia councils may deem the risk of termite attack as low. Builders and homeowners should consult their local council for requirements. Where termite risk is deemed to be low, the builder nevertheless needs to consider their risk if the building and contents are damaged by termites.

National and State consumer protection regulation may impose additional or different requirements for termite management. As stated above, the BCA requirements are concerned with the Primary Building Elements, however, termites may attack non-structural elements of a building including cupboards and furniture and other timber components such as decorative floor boards, skirtings, window frames and more. It’s therefore important that builders and owners are aware of the termite risk to the building and consider the best termite risk management strategy for their circumstances.

Nick sits on Standards Australia Technical Committees concerned with Timber Structures and Timber Framing Code as well as Termite Management.

**Disclaimer:** This information is a commentary of Building Code and other requirements and is intended as general guidance only.
Laserframe® structural timber is available in a wide selection of sizes, grades and lengths to provide flexible design options.

- A range of treatments available to protect your structural project
- High strength to weight ratio delivering ease of use
- Lengths individually graded for structural assurance
- Compliant with Australian Standards
- Manufactured in Australia from sustainably grown Australian plantation pine

laserframe.com.au
FAQS

Termite FAQs

HOW MANY SPECIES OF TERMITE ARE THERE IN AUSTRALIA?
There are around 350 termite species found in Australia, and of these approximately 12 damage sound timber. The worst offenders:

- Coptotermes acinaciformis
- Coptotermes frenchi
- “Giant Termite” Mastoternes darwiniensis
- Cryptotermes spp. (native)
- “West Indian Drywood Termite” Cryptotermes brevis (introduced)
- Heterotermin termes ferox
- Schedorhinotermes intermedius
- Natsutitermes fumigatus
- Natsutitermes walkeri

ARE DIFFERENT TREATMENT METHODS RECOMMENDED FOR DIFFERENT TYPES OF TIMBER OR DIFFERENT LOCATIONS?
The wood preservation standard (AS/NZS 1604 1-5) specifies results of treatment, not process of treatment. AS/NZS 1604 1-5 applies all across Australia and there are no state-based differences.

There are two geographic differences in treatment specifications. For more details please refer to the Hazard Class descriptions on page 8.

There are different specifications for protecting timber against termites North of the Tropic of Capricorn compared to South of the Tropic. This is because there is a more aggressive species of termite that is active north of the Tropic. There are also different specifications to protect timber against marine borer attack North of Bateman’s Bay.

IS TREATING TIMBER SAFE FOR THE ENVIRONMENT?
There is an Australian/New Zealand Standard (AS/NZS 2843 part 1 and part 2) that is concerned with the site design and operation of timber treatment plants. Timber treatment plants are required to comply with the specifications in these standards. Local governments may also overlay further specifications.

Treated timber is also safe to use and the same precautions, eg, dust mask and gloves should be used for treated timber as for untreated timber.

COMMON MISCONCEPTIONS ABOUT TREATED TIMBER

- Treated timber is not a “no maintenance” product – especially when it comes to protecting the wood against weathering or UV degradation. Treated timber should be maintained to keep its appearance.
- The level of treatment must be for the appropriate Hazard class. If you use H3 treated wood in a H4 application, the wood will fail prematurely.
- If a retaining wall is more than 1m high, it becomes an “engineered structure” and H5 treatment is the appropriate level.
- All wood preservatives used in Australia MUST be approved by the Australian Pest and Veterinary Medicines Authority (APVMA). The safety of a treated product is one of the considerations by the APVMA when deciding approval.
- Oiling a deck protects the wood from weathering and makes it more water repellent. Oiled decks may still be attacked by termites and decay.
A PARTNERSHIP COMMITTED TO THE MARKET
Wood preservation

Understanding termite protection and how to ensure your timber structure enjoys a long life.
In Australia, when we talk about wood preservation, we are talking about the protection of timber and timber products against attack by insects, termites, decay (or rot) and marine borers. Wood preservation is not about protecting wood from weathering, chemical erosion, fire or mechanical wear and tear.

Preservation is achieved through the application of chemicals that make the wood unpalatable to attacking organisms. These chemicals are poisonous to attacking organisms and in some cases also have repellent features.

“There is a difference between wood preservation and wood protection,” explains Jack Norton, Secretary to the Timber Preservers Association of Australia (TPAA). “While wood preservation involves what are called biocides (chemicals that are toxic to the target organisms) timber protection uses non-toxic chemicals or building practices to protect the wood.”

There is a series of Australian and New Zealand Standards (AS/NZS1604) that provide specifications for preservative treatment:

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Exposure</th>
<th>Service condition</th>
<th>Hazard</th>
<th>Example uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1</td>
<td>Inside, above ground</td>
<td>Completely protected from the weather, well ventilated and protected from termites</td>
<td>Borers</td>
<td>Susceptible framing, flooring, furniture, interior joinery</td>
</tr>
<tr>
<td>H2</td>
<td>Inside, above ground</td>
<td>Protected from wetting, no leaching.</td>
<td>Borers and termites</td>
<td>Framing, flooring, furniture, interior joinery used across Australia</td>
</tr>
<tr>
<td>H3</td>
<td>Outside above ground</td>
<td>Periodic moderate wetting and leaching</td>
<td>Moderate decay, borers and termites</td>
<td>Weatherboards, fascias, pergolas, framing etc.</td>
</tr>
<tr>
<td>H4</td>
<td>Outside in-ground</td>
<td>Severe wetting and leaching non-critical applications</td>
<td>Severe decay, borers and termites</td>
<td>Fence posts, retaining wall less than 1 m high, landscaping timbers.</td>
</tr>
<tr>
<td>H5</td>
<td>Outside in-ground</td>
<td>Extreme wetting and leaching, critical application</td>
<td>Very severe decay, borers and termites</td>
<td>Piling, house stumps, power poles cooling tower fill, building poles, retaining walls more than 1 m high</td>
</tr>
<tr>
<td>H6</td>
<td>Marine waters</td>
<td>Prolonged immersion in sea water</td>
<td>Decay and marine wood borers</td>
<td>Boat hulls, marine piles, jetty cross bracing, jetty landing steps.</td>
</tr>
</tbody>
</table>
WOOD PRESERVATION

- AS1604.1 – 2012 – Part 1: Sawn and round timber (this standard does not apply in New Zealand – they have their own)
- AS/NZS 1604.2 – 2012 – Part 2: Reconstituted wood-based products
- AS/NZS 1604.3 – 2012 – Part 3: Plywood
- AS/NZS 1604.4 – 2012 – Part 4: Laminated veneer lumber (LVL) and
- AS/NZS 1604.5 – 2012 – Part 5: Glue laminated timber products

The AS/NZS series of standards specify the concentration and penetration of chemical(s) required to protect the wood in particular biological hazards. These hazards are broadly defined as follows:

Different chemical formulations (mix of chemicals) are approved/specified for each hazard classification.

“One of the good things about the Australian/New Zealand preservation standard is that it specifies results (chemical concentration and penetration) rather than process to achieve the required levels,” says Norton. “This allows the timber treater to use a number of different treatment methods and leaves the door open to new technologies.”

Methods for termite protection include:

- Vacuum pressure impregnation – the timber is placed in a “pressure vessel” and subjected to vacuum and pressure. The treating solution is flooded into the vessel during the process;
- Double vacuum impregnation – the timber is placed in a vessel and subjected to different levels of vacuum. Again, the treating solution is flooded into the vessel during the process;
- Soaking in the treating solution;
- Dipping in the treating solution;
- Spraying the timber with the treating solution; and
- Including the termiticide in the glue during construction of plywood or LVL.

The TPAA does not recommend one treatment method over another.

“Wood preservatives work by poisoning the wood so that when the attacking organisms (eg, termites) eat the wood, they are killed,” explains Norton. “Some preservatives such as the synthetic pyrethroids are not only toxic to termites but also have repellent characteristics, ie, the termites are repelled by the treated wood.”

Provided the approved chemical is in the right concentration in the right location in the wood, the treatment is 100 percent effective. Termite treatment does not affect timber.

“In fact, any form of wood preservation makes the wood last longer in service,” Norton says. “This conserves our forest resources because you don’t need to replace wood that has been attacked by termites. You could say, ‘Conserve the forest – preserve the wood!’”

Did you know...?
Some termite colonies can consist of more than 15 million insects. And that’s just one colony. A typical home can have three or four colonies around it.
IF IT’S WORTH BUILDING, IT’S WORTH PRESERVING

We have products to preserve timber in any application:

- Inside, protected from weather
- Outside, above ground, exposed to weather
- Outside, in ground, subject to severe wetting
- Outside, in ground or fresh water, critical end use
- Marine water exposure

The Customer Service Leaders in Timber Preservation

Contact: TimTechChem Australia Pty Ltd
Unit 4, 727 Deception Bay Road, Rothwell, Qld 4022.
PO Box 522, North Lakes Qld 4509, Australia
Tel: +61 7 3293 2651 Fax: +61 7 3203 0083 Website: www.timtechchem.com
PRODUCT OVERVIEWS

CARTER HOLT HARVEY

Carter Holt Harvey (CHH) Woodproducts is a leading wood products business, producing and distributing a comprehensive range of wood-based building products and some of the most trusted brands in the industry. The company manufactures particleboard, flooring, LPM, LVL and plywood as well as treated and untreated timber and decorative wood products. Brands like Structaflor, Yellowtongue, Laserframe, Terminator, Ironwood, Hyspan, Hyjoist, Ecoply, Pyneboard, Allseasons, Shadowclad and Colourpyne are widely known and used daily by Australian builders. All timber used in CHH products is sourced from sustainably managed plantation forests.

CHH offers an unmatched range of termite resistant pine products including engineered beams and joists, structural framing, plywood, bracing, particleboard flooring, sleepers, outdoor structural timber, decking, sleepers and fencing. The company works with leading international wood treatment suppliers to access the latest treatment products and methods. The CHH product range employs a number of different treatment types and methods. All treatments are approved for use in Australia and meet relevant Australian Standards. CHH’s wide range of products means a builder can specify all termite treated structural timber elements for a standard house build from a single supplier.

chhwoodproducts.com.au

HYNE TIMBER

Barrier systems need to be checked on a yearly basis, and can be easily breached. But treated framing is a set-and-forget pathway to meet the termite requirements of the BCA. Guaranteed for 25 years, 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. T2 Blue is also the only treated timber product currently available that can offer a guarantee against the West Indian Drywood Termite.

Hyne Timber T2 Red has been specifically developed to provide protection against the Mastotermes Darwiniensis in tropical areas north of the Tropic of Capricorn. For applications that require protection against both termite and fungal attack, Hyne Timber recommends the use of T3 Green, which is suitable for use in outdoor, above ground applications.

T2 Blue is designed and manufactured to meet the service life expectations outlined by the National Construction Code (NCC). When used in conjunction with the T2 Blue Installation Requirements, T2 Blue will protect a building from termite action in accordance with the performance requirements of the NCC. Plus it’s safe for you, your family and your pets.

hyne.com.au
MEYERTIMBER
Meyer Timber, as a large importer and wholesaler of the full suite of structural timber products, has always strived to provide customer solutions and respond to markets demand promptly and competitively. A prime example of this resulted in the introduction of the MT2 range. As the logo says, termites “Can’t stay here! Let’s try next door…”

Due to the rise in H2F “blue pine” demand, Meyer Timber has invested into high speed automated on-site spray treatment MT2. This has provided rapid response time and flexibility to answer market demand. The MT2 package has been an evolution of this solution where Meyer Timber is able to provide a total structural preservative treated timber package from a single supplier. The package ranges from the structural framing noted above, along with I-joists, LVL, LSL, Glulam, Particleboard Flooring, OSB Flooring, OSB Bracing and Plywood bracing. The MT2 brochure provides confidence that products supplied by Meyer Timber under this banner are suitable for use in H2F (H2-S) environments in accordance with the relevant standards. Meyer Timber prides itself on a complete product and service model that you can be confident in.

meyertimber.com.au

TILLING SMART FRAME
Since the mid 2000s the building industry has benefited from some EWP brands offering H2s* treated product, to the extent that most consumers have become used to it, and many merchants and builders now assume that all LVL and I-Joists are protected against insect attack. Protection against insect attack is a key way to ensure structural reliability of an EWP element. Given that LVL is produced in large sections, they’re used daily as primary structural components within structures, with significant consequences if they were to fail.

Tilling Timber protects all its SmartJoist and SmartLVL products against insect attack by the use of modern odour-free glueline additives to the H2s* Hazard Level. For any component made of wood, best practice risk management would ensure that all structural elements are protected against insect attack.

It’s true that a few dollars can be saved by ordering LVL and joist members without H2s treatment. However, for product reliability and risk management purposes, Tilling SmartFrame H2s* LVL and I-joists can be specified to ensure that buildings perform as designed.

* H2s glueline treatment is suitable for use South of the Tropic of Capricorn

tilling.com.au
PRODUCT OVERVIEWS

TIMTECHCHEM

The Building Code of Australia (BCA) provides two options for the protection of buildings where termites present a hazard; these include provision of barriers in accordance with AS 3660.1 to protect the whole building against termite infestation; and the use of termite resistant materials for all structural elements.

TimTechChem believe a combination of both of the abovementioned measures can provide the house/building owner with the added security and greater protection they’re seeking.

TimTechChem Australia provide a full range of timber preservative treatments to protect timber from attack by termites and other causes of degrade such as decay and borers. In August 2013, TimTechChem consolidated its business, resulting in ChemColour Industries Ltd and the Mike Henry Group becoming sole shareholders. The Mike Henry Group was one of the largest independent insurance intermediaries in Australasia. ChemColour Industries is one of Australasia’s leading speciality chemical companies. ChemColour manufacture most of TimTechChem’s products.

TimTechChem also has many strategic alliances including BASF Wolman, Janssen PMP and the University of Gottingen. These alliances give TimTechChem the exclusive rights to market new generation, innovative products and processors in Australasia. They also have close links with plant and equipment suppliers such as IWT, Crusader Engineering and Prolec. This allows them to continue to provide good service while still offering the latest the industry has to offer in the way of technology.

timtechchem.com

WESPINE

Wespine is a Western Australian company that has been in operation for more than 25 years. The company has a secure long-term supply of plantation logs guaranteed by an agreement with the West Australian Government.

Wespine Blue treated framing timber gives reliable, affordable protection against termites and borers, is supported by a 25-year guarantee and is designed to perform in hazard level H2F. Wespine Blue uses a synthesised organic compound based on pyrethroids found naturally in chrysanthemum daisies. It is a low hazard material. The product has been exhaustively tested and researched by CSIRO and other organisations.

Supapine is Wespine’s range of preservative treated timbers for external or below ground applications. It protects against termites, rot and fungal decay. This protection is impregnated into the timber giving an extended warranty of up to 50 years. You may work Supapine like any ordinary timber, painting or staining it in exactly the same way as untreated timber. The product is treated to H3 or H4 hazard class in accordance with Australian Standard AS 1604. Structural sizes are machine stress graded in accordance with AS1684. Supapine is kiln dried after treatment. This makes it highly stable, strong and able to hold nails well.

wespine.com.au

Contact our office for more information:
Free call Help Line: 1800 018 888
Email: sales@wespine.com
www.wespine.com.au
Have peace of mind with WESPINE BLUE

Buildings are meant to last. Treatment of the timber will ensure it has a long lifespan.

Sleep easy at night knowing that the product used on our timber:

- ✓ Is protecting the structural timber components of your building from termites and borers
- ✓ Is plantation grown and great for the environment
- ✓ Is a low-hazard material
- ✓ Carries a 25 year guarantee
- ✓ Has been researched and tested extensively by major organisations
- ✓ Is easily identifiable from untreated pine
- ✓ Does not cause fastener corrosion or problems with plasterboard adhesion or painting

Contact our office for more information:
Free call Help Line: 1800 018 888
Email: sales@wespine.com
www.wespine.com.au
Tilling Timber protects all Smartjoist and SmartLVL products against insect attack by the use of modern odour free glueline additives to the H2s* hazard level

*H2s glueline treatment suitable for use South of the Tropic of Capricorn

www.tilling.com.au