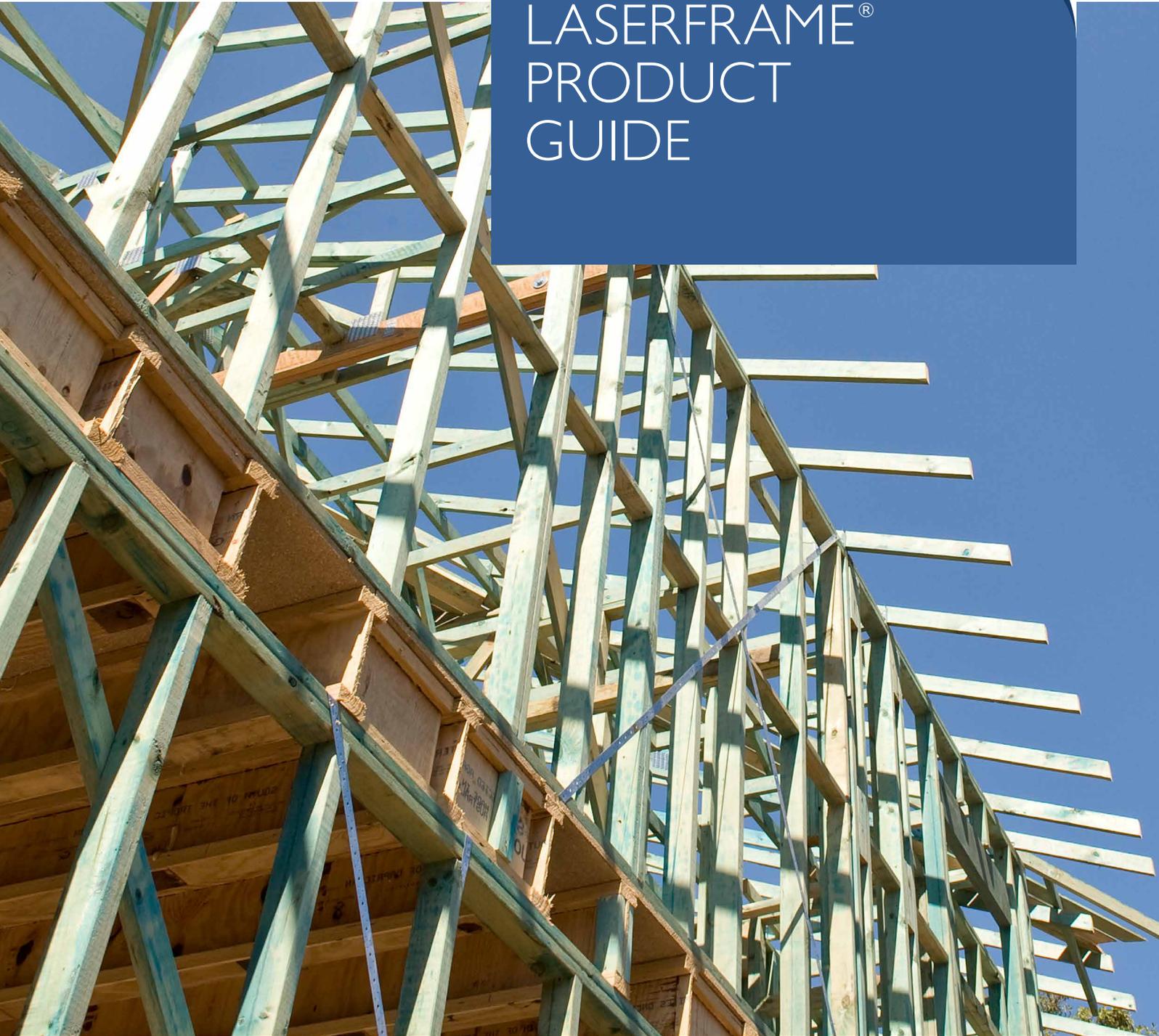




LASERFRAME[®] PRODUCT GUIDE



QUALITY AUSTRALIAN STRUCTURAL FRAMING

Laserframe structural framing timber is produced in Australia and chosen by Australian builders as the preferred roof and wall framing material in thousands of Australian homes every year.

Features & Benefits

- Kiln dried for improved stability
- Available with H2-F termite treatment to protect your structural project
- Quality Assured – lengths individually graded for structural assurance
- Compliant – compliant with Australian Standards
- Renewable – produced in PEFC™ Chain of Custody Certified facilities in Australia from sustainably grown Australian plantation pine



Laserframe
Untreated



Laserframe
Terminator
Blue



1.0 LASERFRAME INTRODUCTION

Laserframe is structural pine suitable for use in residential and light commercial framing. Manufactured by Carter Holt Harvey Woodproducts, Laserframe is produced to Australian Standard AS/NZS1748: Timber – Solid – stress-graded for structural purposes. It is also independently audited against the requirements of the Engineered Wood Products Association of Australasia (EWPA) Plantation Timber Certification Scheme (PTCS) to provide additional quality assurance.

All Laserframe structurally graded timber is compliant with the following Australian Standards:

- AS 1684: Residential Timber Framed Construction
- AS 1720.1: Timber Structures, Part 1: Design Methods

Laserframe is available untreated and H2-F termite treated. The treatment option required is dependent on the in-service application and can be derived from AS1604.1: Specification for Preservative Treatment – Part 1.

1.1 LASERFRAME PRODUCT RANGE

Laserframe is available in a wide selection of sizes, grades and lengths to provide flexible design options. Machined in the dry state to section size, product is specified and sold by the actual dry size (Table 2)

Laserframe® Untreated – natural pine timber appearance with no added treatment to improve resistance to termite attack or fungal decay. Suitable for indoor above-ground use.

Laserframe® Terminator® Blue* – light blue appearance with an H2-F treatment for protection against borers and termite attack in areas south of the Tropic of Capricorn in Australia. Suitable for indoor above-ground use.

Table 1: Laserframe Range Treatment Levels

Brand	Hazard Class	Preservative	Biological Hazard	Location
Laserframe Untreated	–	Nil	Nil	Australia-wide
Laserframe Terminator Blue*	H2-F	Bifenthrin	Termites & Borers	South of the Tropic of Capricorn

* This product comes with a guarantee from Koppers. Conditions apply. See www.kopperspc.com.au for details.

Table 2: Laserframe Size and Length Range

Size (mm)	Grades	Lengths (m)	Laserframe Untreated	Laserframe Terminator Blue
			Standard Pack Quantity (Morwell Mill Pack Quantity)	
70x35	MGP10	0.9 to 6.0	180	180
	MGP12	2.4 to 6.0	180	180
	MGP15 ‡	4.8 to 6.0	180	180
	F4	2.4 to 6.0	180	
70x45	MGP10	0.9 to 6.0	140	140
	MGP12	2.4 to 6.0	140	140
90x35	MGP10	0.9 to 6.0	144	144
	MGP12	2.4 to 6.0	144	144
	MGP15 ‡	4.8 to 6.0	144	144
	F5MSG	2.4 to 6.0	144	
90x45	MGP10	0.9 to 6.0	112 (96)	112
	MGP12	2.4 to 6.0	112 (96)	112
	MGP15 ‡	4.8 to 6.0	112 (96)	112
	F5MSG	2.4 to 2.7	112 (96)	
120x35	MGP10	2.4 to 6.0	108	108
	MGP12	2.4 to 6.0	108	108
140x35	MGP10	2.4 to 6.0	90	90
	MGP12	2.4 to 6.0	90	90
140x45	MGP10	2.4 to 6.0	70	70
	MGP12	3.6 to 6.0	70	70
190x45	MGP10	2.4 to 6.0	56	56
	MGP12	3.6 to 6.0	56	56

Length range increments of 0.3m. Pack sizes may vary. Refer to laserframe.com.au for state range details, size, grade, length and treatment available.

‡ MGP15 availability is limited.

2.0 LASERFRAME TERMINATOR STRUCTURAL TIMBER

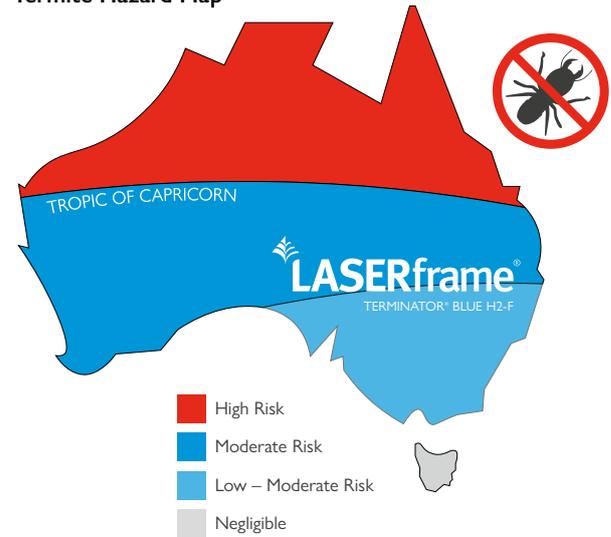
Laserframe Terminator structural timber is a termite treated framing solution. Providing long term protection against structural termite damage it is deemed termite resistant under the:

- Building Code of Australia (BCA)
- AS3660.1: Termite Management – New Building Work

Laserframe treatment does not affect material properties of the timber, allowing upgrade to Laserframe Terminator without the cost and hassle of re-submitting plans. Unlike some termite management systems, Laserframe Terminator doesn't require ongoing application of top up chemicals or completion of an annual inspection to maintain warranty. Additionally, the upfront cost of Laserframe Terminator is only a fraction of the price home owners are likely to pay for rectification work if termite attack occurs.

Laserframe Terminator structural timber is suitable for internal wall frames, roof trusses and any other internal load bearing application. It cannot be used outdoors or in contact with the ground.

Termite Hazard Map



2.1 LASERFRAME TERMINATOR BLUE

Laserframe Terminator Blue is structural pine framing treated to hazard level H2-F for protection against termite attack and damage when used in applications south of the Tropic of Capricorn. Repelling termites so that they are unlikely to use the frame and truss as a 'highway' to reach other parts of the building, Laserframe Terminator Blue is also resistant to European House Borer.

Coloured using a blue dye for ease of identification, lengths are also branded by way of an end tag or an inkjet stamp along the face or edge of the board.

Laserframe Terminator Blue is treated with bifenthrin (synthetic pyrethroids), an organic insecticide used in common household applications such as head lice shampoos, citronella garden torches and fly spray. When used in framing Terminator Blue is effectively odourless without volatile fumes and is safe for humans and mammals.



2.2 RESEALING REQUIREMENTS

The recommendation of AS 1604.1 for all treated products in the hazard class H2-F is that good building practice is to reseal with a suitable timber preservative, such as Protim Solignum XJ Clear Timber Protective or Tanalised Enseal Clear. To meet the conditions of the chemical guarantee, minimum reseal requirements apply (refer Table 3).

2.3 FIXINGS & ADHESIVES

Laserframe Terminator treatment is non-corrosive and does not affect nail or plate holding, making normal bright steel nails and fixing plates suitable in application. While the termite treatment should not affect adhesives, including plasterboard adhesives, we recommend checking with plasterboard and adhesive suppliers regarding their specific recommendations.

2.4 SERVICE CONDITIONS

Laserframe Terminator is suitable for interior applications only.

Table 3: Resealing Laserframe Terminator

Resealing Required	Laserframe Terminator Blue
Planed Studs	Yes
Notches or rebates	Yes
Damaged timber members	Yes
Rip sawn or re-dressed	Yes
Cuts for speed bracing	No
Trenches	No [§]
Enclosed cut end	No
Exposed cut end	No
Bore holes	No
Service holes	No

§ Resealing is not required if tightly joined to treated timber which has been treated to the same or a higher Hazard Class and if there is no exposed untreated timber. For full details on re-seal requirements please visit www.kopperspc.com.au

3.0 SPECIFICATION

3.1 DETERMINATION OF STRUCTURAL PROPERTIES

Laserframe is produced to Australian Standard AS/NZS1748: Timber – Solid – stress-graded for structural purposes. Carter Holt Harvey has stringent quality control processes within all manufacturing facilities for Laserframe structural products.

3.2 STRESS GRADING

The stiffness and strength of a piece of timber varies along its length. All Laserframe is stress graded in accordance with AS/NZS1748 to test for stiffness with random samples regularly tested 'off line' on purpose-built test equipment to verify both stiffness and strength.

3.3 IDENTIFICATION

All Laserframe products have identification marks by way of an end tag or inkjet stamp along the face or edge of the board.

These marking include:

- Structural grade
- Time and date of production
- Sawmill identification number
- Australian Standard

For treated timber products these markings also include:

- Registered treatment plant number
- Preservative number
- Hazard Class number

3.4 AUSTRALIAN BUILDING CODE – DURABILITY

Laserframe is manufactured to meet the requirements of AS1684: Residential Timber Framed Construction and AS1720.1: Timber Structures Part 1: Design Methods. As such, if the product is used in accordance with Carter Holt Harvey product literature, it will meet the durability clauses

of the Building Code Of Australia (BCA). After installation, the timber requires no special attention other than maintenance of the building envelope and prompt remedy of any failures (roof, walls, floor, plumbing).

3.5 QUALITY ASSURANCE

Carter Holt Harvey has strict quality assurance processes in place to monitor that Laserframe adequately satisfies structural and visual requirements. The Engineered Wood Products Association of Australia (EWPA) has been contracted to undertake independent, third party auditing of the stress grading processes at our structural mill sites.

The following EWPA inspections are carried out bi-annually:

- Audit of the stress grading process and procedures
- Assessment of personnel competence in relation to skills and knowledge requirements
- Verification of the calibration of testing equipment

3.6 CHEMICAL GUARANTEE

Laserframe Terminator products come with a guarantee from Koppers. Conditions apply. See www.kopperspc.com.au for details.

3.7 AUSTRALIAN PLANTATION PINE

The Laserframe range is produced in PEFC™ Chain of Custody Certified facilities in Australia from sustainably-grown Australian plantation pine.

3.8 STORAGE

The benefits of Laserframe are optimised by looking after it as dry timber. Lift pack off transport, rather than tip. For storage, ensure that the integrity of the plastic film wrap in which the product arrives from the sawmill is maintained and that the timber is stored at least 100mm clear of the ground on bearers suited to keeping it straight.

Note the following:

- Minimise exposure to weather and rain
- Protect pre-cut and pre-nailed frames
- Enclose frames as soon as possible
- Avoid ponding of water on floor and around plates
- Dry out after exposure to moisture
- Minimise exposure to rain and sunlight on building site

3.9 HANDLING & DISPOSAL

To download Safety Data Sheets visit: chwoodproducts.com.au

IMPORTANT NOTICE AND WARNING

While the products in this document possess the characteristics described, no representation is made that the products will be effective in all locations and circumstances. Much depends upon building design, construction practices and the environment in which the products are used. Statements about the attributes and performance characteristics of the products are made on the assumption that the products are properly stored, handled, installed, used and maintained in their relevant application.

You should not rely solely on this document when using the products. Carter Holt Harvey recommends obtaining professional building advice which takes into account your particular circumstances and site conditions. Carter Holt Harvey is not involved in, and does not assume responsibility for, the selection, installation or maintenance of our products in situ.

Failure to install Carter Holt Harvey products in accordance with applicable building regulation requirements and instructions may lead to personal injury, loss or damage, and may adversely affect the performance of the products.

