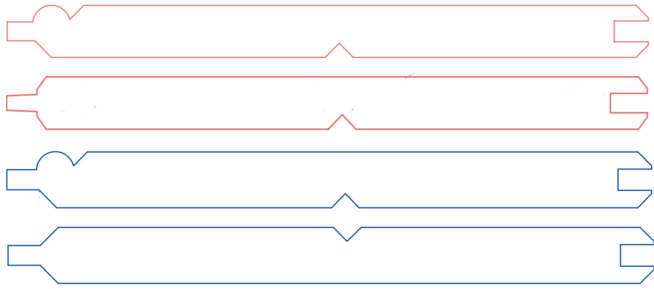


---

# INSTALLATION GUIDE FOR LINING BOARDS



## Lining Board Installation



This guide is for Woodhouse Edgeline® and Woodhouse Weatherproof® 302, 321 and VJ Shiplap lining boards. Woodhouse Edgeline® lining boards are untreated and recommended for interior use only. Woodhouse Weatherproof® lining boards are treated with H3 LOSP preservative and recommended for exterior above ground applications.

### On Site

Upon delivery, Woodhouse Edgeline® and Woodhouse Weatherproof® lining boards should be stored in a covered area, out of direct sunlight and away from inclement weather. Packs should be wrapped loosely in plastic and kept at least 150mm off the ground to prevent moisture uptake from the underlying soil or concrete slab. Finally, lining boards should be stacked on timber gluts at 450mm increments along each run to ensure that each board is straight and true prior to installation.

### Acclimatisation

Woodhouse Edgeline® and Woodhouse Weatherproof® lining boards are supplied to the timber merchant with an average moisture content of between 12 and 15 per cent. Because all timber,

including Woodhouse lining boards, are hygroscopic, (can absorb moisture from the air) consideration should be given to the way these boards will interact with the environment by absorbing moisture from, or releasing moisture into, the local atmosphere. For example, where lining boards are to be installed in moist and humid environments, they may settle at a higher moisture content than the 12 to 15 per cent band shown during production and react by expanding to a greater nominal width than the 138mm measured at time of delivery. Similarly, where lining boards are to be installed in drier climates than is typical of coastal Australia, they may settle at a lower equilibrium moisture content which encourages the boards to shrink as they acclimatise to their environment. From this perspective, lining boards are considered fully acclimatised to local conditions when they reach equilibrium moisture content (EMC) with the surrounding atmosphere, at which point they will exhibit maximum dimensional stability along each length.

Changes to the equilibrium moisture content of lining boards – and the subsequent dimensional instability this causes – can be mitigated by ensuring that all boards are acclimatised to the local environment prior to installation. Best practice is to allow lining boards to acclimate for at least two weeks before they are fitted, however longer time periods may be required if the prevailing weather conditions are either very dry or very wet.

Failure to observe these recommendations may result in a phenomenon known as tenting, or in shrinkage as newly delivered lining boards adjust to the surrounding atmosphere in place on the wall or ceiling.

## Installation

Woodhouse Edgeline® and Weatherproof® lining boards should be installed on studs or battens that are placed at regular centres to ensure a smooth, flat finish throughout their service life. For wall and ceiling applications, lining boards should securely fastened at centres shown in the table below. (Note that shorter spans are often more conducive to a smoother finish.)

Application	Thickness	Spacing of Supports
Wall	11mm	600mm max
	18mm	900mm max
Ceiling	11mm	450mm max
	18mm	600mm max

Before lining boards are fitted, apply at least one preliminary coat of good quality water or oil based topcoat to the front, back, and edges of each board, and to any surfaces that have been exposed through cutting, notching, or drilling. Topcoats slow down the rate at which moisture moves in and out of the timber substrate, which can inhibit moisture uptake or loss throughout the in-service lifespan of the lining board. If changes do occur to the equilibrium moisture content of the timber panelling, any subsequent expansion and contraction will be consistent across each surface of the board, helping to prevent undesirable phenomena such as cupping and crook. It will also minimise the visual impact of colour variation at shared joints if the lining boards shrink. In addition to a preliminary top coat, all cuts, notches and holes that are sawn or drilled into H3 LOSP-treated

Woodhouse Weatherproof® should be resealed with an in-can preservative such as Tanalised® Enseal Timber Preservative or Koppers XJ™ Timber Protective prior to installation in exterior applications. These treatments are applied before paint coats to freshly exposed surfaces and prevent moisture uptake into the face or end grain of the timber substrate.

Please note that we do not recommend and will not warrant the installation of untreated Woodhouse Edgeline® lining boards in any exterior application, including under eaves and patios where the ceiling lining is partially protected from inclement weather.

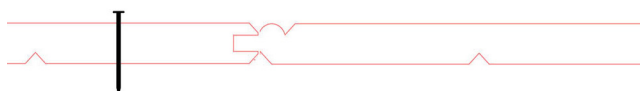
Timber panelling should be secured to studs or battens with construction adhesive and 40mm x 1.6mm bullet head nails (for 11mm lining boards) or 50mm x 2.0mm bullet head nails (for 18mm lining boards) at each support. The total number of fasteners used at each connection point will depend on whether the timber panelling is secured with face-fix or secret-nail fixing methods.

Application	Number of Nails
Secret nail	1 at each support
Face fix	2 at each support

### Secret Nail



### Face Fix



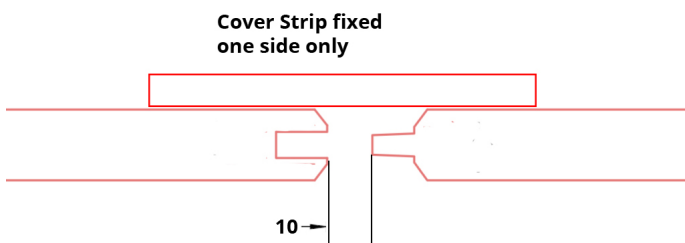
## Installation

If pneumatic nails guns are used, care should be taken to ensure that nails are not over-driven as this may cause boards to split or distort. For a typical finishing gun, a pressure of 120psi is usually sufficient to drive the head of the nail to just below the surface of the lining board, providing for the application of quality wood filler to conceal the location of fasteners.

## Control Joints

Where large seasonal variations in ambient temperature and humidity are expected to occur, allowances for changes in the equilibrium moisture content of timber panelling should be provided through the installation of control joints.

A 10mm joint should be provided at intervals of 3.0m and can be concealed under a cover strip if preferred by the installer or homeowner.

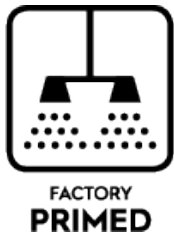


Boards should also be jointed to ensure a snug fit without over cramping during the installation process. Over tightening timber panelling at the joint may compound issues with the expansion or contraction of individual boards if dimensional changes occur after they are fitted to the wall or ceiling.

## Sisilation (sarking)

When Woodhouse Edgeline® or Woodhouse Weatherproof® lining boards are to be installed as an eave or ceiling lining, it is important to install vapour permeable sisilation above the panelling as soon as possible after installation has occurred to protect it from rain or dew. This membrane will also prevent condensation from forming on the lining boards, which can affect the moisture content of the panelling and cause it to swell and distort. Where possible, ventilation should be provided to roof cavities to prevent heat build up which can lower the equilibrium moisture content of lining boards and cause shrinkage to occur quite rapidly in-situ.

## Finishing



All Woodhouse Edgeline® and Woodhouse Weatherproof® lining boards are supplied with factory primed coats and will accept top coating with only minor preparation.

In addition to a preliminary top coat, all cuts, notches and holes that are sawn or drilled into H3 LOSP-treated Woodhouse Weatherproof®. This will inhibit most moisture uptake or loss, and ensure that if it does occur, subsequent expansion and contraction will be consistent across each surface of the board.

Otherwise, Woodhouse lining boards should be finished according to the following guidelines:

- Fill any nail holes with a quality wood filler and lightly sand to an even finish
- Sand and spot prime any areas that require additional attention with a quality wood primer and sealer. Woodhouse Weatherproof® in particular may display some imperfections due to the oil-based primer that is applied at the factory, and which is more prone to minor cosmetic flaws.
- Ensure that the surface of the lining board is free of dirt and contaminants. If necessary, clean gently with detergent and water to prepare for final finishing.
- Apply two coats of premium interior (Edgeline®) or exterior (Weatherproof®) topcoat to finish.

Range	Treatment	Primer
Edgeline®	None	Water Based Primer
Weatherproof®	Koppers Protim® H3 LOSP	Industrial Oil Based Primer

## Disposal of Offcuts and Waste

For any treated timber, do not burn offcuts or sawdust. Preservative treated offcuts and sawdust should be disposed of by approved local authority methods.

### Further Reading

*AS1684.2-2010 (2010), Residential timber-framed construction – Appendix E Moisture Content and Shrinkage*

*QTimber (2017), Seasoning and timber moisture content*  
[qtimber.daf.qld.gov.au/guides/seasoning-and-timber-moisture-content](http://qtimber.daf.qld.gov.au/guides/seasoning-and-timber-moisture-content)

*Timber Queensland (2014), Technical Data Sheet 1 – Timber Panelling* [www.timberqueensland.com.au](http://www.timberqueensland.com.au)



#### **BRISBANE**

7 Brickworks Place  
Darra  
QLD 4076  
**T:** 07 3217 0622  
**F:** 07 3217 0551

---

#### **SYDNEY**

Warehouse B  
31-39 Sturt Street  
Smithfield  
NSW 2164  
**T:** 02 9892 1055  
**F:** 02 9892 1066

---

#### **MELBOURNE**

70 Logis Boulevard  
Dandenong South  
VIC 3175  
**T:** 03 9791 8064  
**F:** 03 9791 8069

---

#### **ADELAIDE**

5 Lafitte Road  
Wingfield  
SA 5013  
**T:** 08 8260 1644  
**F:** 08 8262 3392

---

#### **PERTH**

33 Fargo Way  
Welshpool  
WA 6106  
**T:** 08 6254 2315  
**F:** 08 6253 8622