



PRESERVATIVE  
TREATED WESBEAM LVL  
AND E-JOISTS:  
TREATMENT LEVELS  
AND GUIDELINES FOR  
REMEDIAL TREATMENT

# PRESERVATIVE TREATED WESBEAM LVL AND E-JOISTS: TREATMENT LEVELS AND GUIDELINES FOR REMEDIAL TREATMENT

## Wesbeam LVL and e-joists

Wesbeam LVL is manufactured using veneers from sustainably sourced Western Australian timber.

Wesbeam LVL is available in the following treatment levels:

- e2S preservative treated LVL manufactured by Wesbeam at the production facility in Neerabup, WA.
- H2 preservative treated LVL treated by Wesbeam at its Neerabup treatment facility.
- H3 preservative treated LVL treated by Wesbeam at its Neerabup treatment facility.

Wesbeam LVL can also be treated by a third party treatment facility.

Wesbeam e-joists are manufactured using e2S treated Wesbeam LVL top and bottom flanges, with a termite treated oriented strandboard (OSB) structural web, manufactured in accordance with European Standard EN300.

Wesbeam e-joist is available in the following treatment levels:

- e2S preservative treated LVL flanges / termite treated OSB web, as manufactured by Wesbeam at the production facility in Neerabup, WA.
- H2 preservative treated e-joist treated by Wesbeam at its Neerabup treatment facility.

Wesbeam e-joist can also be treated by a third party treatment facility.

**NOTE:** Wesbeam e-joists cannot be treated to Hazard Level H3, and cannot be used in external above ground applications.

## Specification for Preservative Treatment

Wesbeam LVL and e-joist products are treated in accordance with the following:

- For e2S preservative treated LVL and e-joist flanges:  
**CodeMark certified treatment process for glue-line treated LVL**
- For H2 externally treated LVL and e-joist:  
**AS/NZS 1604.4:2012 - Specification for preservative treatment – Part 4: Laminated veneer lumber (LVL)**
- For H3 externally treated LVL:  
**AS/NZS 1604.4:2012 - Specification for preservative treatment – Part 4: Laminated veneer lumber (LVL)**

AS/NZS1604.4:2012 specifies the level of penetration for sapwood and non-termite-resistant heartwood veneers for the different Hazard Levels.

### e2S Preservative Treated LVL and e2S/Termite Treated e-joint

e2S preservative treated LVL and e-joists are suitable for:

- use only South of the Tropic of Capricorn
- areas protected from wetting, and are internal and above ground applications in residential construction
- protection against borers and termites only

e2S preservative treated LVL and e-joint LVL flanges manufactured at the Wesbeam Neerabup facility uses DeterMite® insecticide, a bifenthrin based timber preservative glue-line treatment supplied by Koppers Performance Chemicals Australia.

**e2S treated LVL and e2S/termite treated e-joists do not require the application of remedial treatment when ripped, cut, notched, splayed or drilled for service holes.**

### H2 Preservative Treated LVL and e-joists

H2 preservative treated LVL and e-joists are suitable for:

- use in all geographical locations in Australia
- areas protected from wetting, and are internal and above ground applications in residential construction
- protection against borers and termites only

H2 preservative treated LVL and e-joint is normally treated at Wesbeam's own treatment facility or at a 3rd party treatment facility using untreated Wesbeam manufactured LVL. The treatment process is an envelope treatment using a Light Organic Solvent Preservative (LOSP).

**NOTE:** e2S preservative treated LVL and e2S/termite treated e-joists manufactured at the Wesbeam Neerabup facility can also be H2 preservative treated.

**All freshly cut surfaces of H2 preservative treated LVL and e-joists must be treated with an approved remedial preservative treatment to repair the treatment envelope.**

### H3 Preservative Treated LVL

H3 preservative treated LVL is suitable for:

- use in all geographical locations in Australia
- periodic moderate wetting, external and above ground applications in residential construction
- protection against moderate decay, borers and termites only

H3 preservative treated LVL is normally treated at Wesbeam's own treatment facility or at a 3rd party treatment facility using untreated Wesbeam manufactured LVL. The treatment process is an envelope treatment using a Light Organic Solvent Preservative (LOSP).

**NOTE:** e2S preservative treated LVL manufactured at the Wesbeam Neerabup facility can also be H3 preservative treated.

**All freshly cut surfaces of H3 preservative treated LVL must be treated with an approved remedial preservative treatment to repair the treatment envelope.**

### Applications where Preservative Treatments cannot be used for used for LVL and e-joists

The following applications are where Wesbeam manufactured LVL and e-joists cannot be treated or used:

- No Wesbeam manufactured LVL or e-joint can be Copper Chrome Arsenic (CCA) treated
- Wesbeam e2S/termite treated e-joists cannot be treated to Hazard Level H3
- Wesbeam e-joists cannot be used in external above ground situations (Hazard Level H3)
- Wesbeam LVL cannot be treated beyond Hazard Level 3.

### ADVISORY NOTE Envelope Penetration Preservative Treatments

AS/NZS1604.4:2012 requires that where the preservative treatment is envelope penetration, an application of a remedial preservative treatment is required to protect the integrity of the treatment envelope if it is compromised.

The advisory note applies to Wesbeam customers for **H2 treated LVL/e-joint and H3 treated LVL products** – where all cut surfaces require a remedial preservative treatment.

No advisory note is required for e2S treated LVL or e2S/termite treated e-joint.

### Approved Remedial Preservative Treatments

There are a number of approved remedial preservative treatments available in the market. Such approved treatments include:

- Protim Solignum® XJ Timber Protective - Clear
- Lonza Tanalised® Enseal – Clear
- Lonza Tanalised® Ecoseal

Application rates for the remedial preservative treatment shall be as per the manufacturer's recommendations for the relevant Hazard Level – H2 or H3.

### Koppers Performance Chemicals Australia – Treatment Guarantee

A copy of the Koppers Performance Chemicals Australia treated products guarantee (including DeterMite® bifenthrin used in e2S treated LVL, and LOSP used in H2 and H3 treated LVL) can be found at:

[www.kopperspc.com.au/pdfs/koppers-wood-product-warranty.pdf](http://www.kopperspc.com.au/pdfs/koppers-wood-product-warranty.pdf)



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