

PWT Treated LVL Specification

1.0 GENERAL

1.1 Scope

This work includes the furnishing and installation of all **PWT Treated™** laminated veneer lumber (LVL), as shown on the drawings herein specified and necessary to complete the work.

1.2 Code Approvals

These products shall be designed and manufactured to the standards referenced in the APA Report PR-L233, PR-L329, and ESR-3834

1.3 Related Work Specified Elsewhere

- A. Rough Carpentry
- B. Glu-Laminated Members
- C. Treated Lumber

1.4 Design

- A. *Products:* **PWT Treated™ LVL** shall be designed to the loads indicated on the plans.

1.5 Submittals

- A. *Drawings:* Not required

2.0 PRODUCTS

2.1 Materials

- A. PWT TREATED LVL is to be treated with Propiconazole Tebuconazole Imidacloprid (PTI) as part of the in-glueline treatment during the LVL manufacturing process for fungal decay and termite resistance.
 - 1. Interior Use
 - 2. Exterior Use Above Ground (not ground contact)
- B. *Code Reports:* Materials shall comply with APA Report PR-L233, PR-L329, and ESR-3834
- C. *Adhesives:* Adhesives shall be of the waterproof type conforming to the requirements of ASTM D-2559.

D. Grade: MOE: 2.0E
Fb: 2800 psi

E. Treatment Retentions: PWT Treated LVL shall be treated throughout the entire member to the following retentions:

- 600 ppm Propiconazole (Fungicide, Integral & Envelope)
- 600 ppm Tebuconazole (Fungicide, Integral & Envelope)
- 60 ppm Imidacloprid (Insecticide, Integral & Envelope)
- 100 ppm Bifenthrin (Insecticide, Integral)
- 200 ppm Permethrin (Insecticide, Envelope)

2.2 Fabrication

PWT Treated™ LVL shall be manufactured by **Pacific Woodtech™** in Burlington, WA and under the supervision of an approved third-party inspection agency. It shall be manufactured in a continuous process, with all grain parallel with the length of the members. All members are to be free of finger joints, scarf joints, or mechanical connections in full-length members.

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2.3 Identification

PWT Treated™ LVL shall be identified by a stamp indicating the AWPA use Category, product type and grade, evaluation report number, manufacturer's name, plant number, date of fabrication, and the independent inspection agency's logo.

3.0 EXECUTION

3.1 Installation

PWT Treated™ LVL, if stored prior to installation, shall be protected from the weather. It shall be installed in accordance with the plans, and any **Pacific Woodtech™** installation suggestions. Temporary construction loads that cause stresses beyond design limits are not permitted. Safety bracing is to be provided by the installer to keep the **PWT Treated™ LVL** straight and plumb as required, and to ensure adequate lateral support for the individual **PWT Treated™ LVL** members and the entire system until the sheathing material is applied.

- A. Flashing - Flashing is required on all upward horizontal surfaces. See PWT installation guide for further details.
- B. Beams called out on plans may be supplied as solid member or multi-ply member. Call-out for 3.5" wide beam may be supplied as 2-ply 1-3/4", 5.25" wide beams may be supplied as 3-ply 1-3/4" beams, 7" wide beams may be supplied

as 4-ply 1-3/4" beams - of same depth. See installation guide or contract documents for connection details.

3.2 Performance Standards

Products shall be proven by testing and evaluation in accordance with the provisions of ASTM D-5456.

PWT Treated™ LVL use category UC3B applications requiring UC4A treatment retentions per AWWPA, including severe, critical and hard-to-replace above-ground uses.

3.3 Warranty

The products delivered shall be free from manufacturing errors or defects in workmanship and material. The products, when correctly installed and maintained, shall be warranted to perform as designed for 25 years.

4.0 ALTERNATES AND/OR EQUALS

4.1 Base Bid

Due to the customized characteristics of the roof and/or floor framing assembly and this scope, it is a requirement that **PWT Treated™ LVL** be used in the base bid.

4.2 Alternate Products

Alternate products will only be permitted if **written approval and acceptance** is obtained by both architect and owner at least **seven (7) days prior to the bid date**. Any monetary savings that may be realized by using an alternate product shall be forwarded to the owner.

4.3 Acceptable Alternates

At the discretion of the specifier of record, accepted alternates will be listed on the final addendum prior to the bid date.