

**Don't let damaging
termites & insects
destroy the
integrity of your
engineered wood**

Solutions for the control of insects in engineered wood products

Lonza Wood Protection is continually innovating and working on solutions to protect wood against its natural enemies like termites.

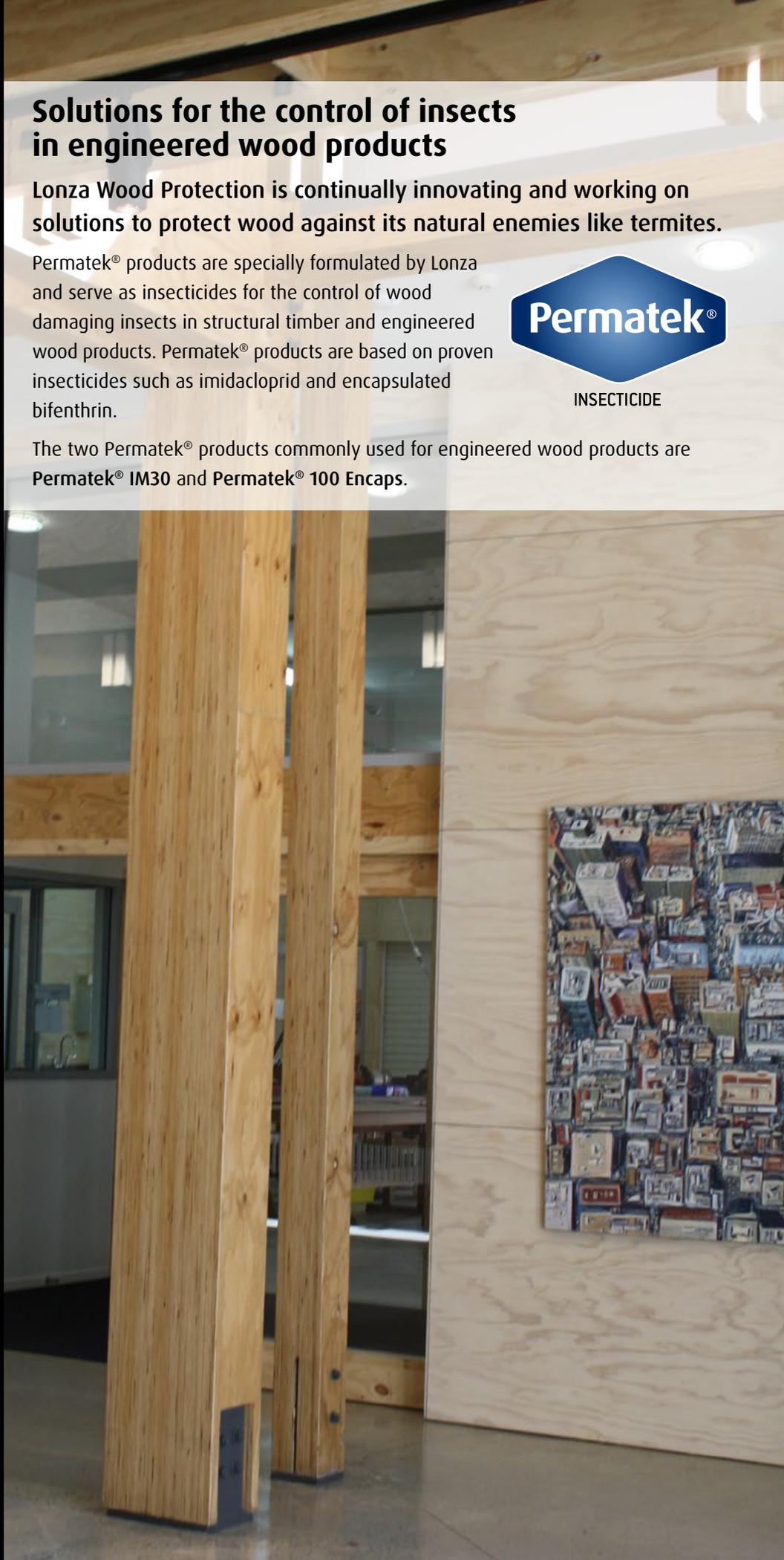
Permatek® products are specially formulated by Lonza and serve as insecticides for the control of wood damaging insects in structural timber and engineered wood products. Permatek® products are based on proven insecticides such as imidacloprid and encapsulated bifenthrin.



INSECTICIDE

The two Permatek® products commonly used for engineered wood products are Permatek® IM30 and Permatek® 100 Encaps.

Lonza



The Permatek® Advantage

- Effective protection from termite attack in a variety of manufactured wood products
- Preservative retention analysis available through our state-of-the-art facilities
- Technical process support that includes glue compatibility checks for glueline applications

Permatek® Product Options

Permatek® 100 Encaps

Permatek® 100 Encaps is a microcapsule suspension of the insecticide bifenthrin. Since the active ingredient is encapsulated in a specially formulated, proprietary polymeric wall, Permatek® 100 Encaps are designed as a glueline additive to treat engineered wood such as LVL and plywood.

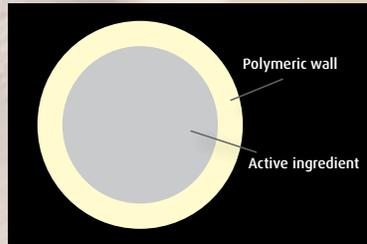


Diagram of microcapsule.

Encapsulation provides protection to the bifenthrin from the harsh environment found in the glue mix. The capsule reduces contact with the active ingredient until the process heat and pressure release the bifenthrin from the capsule to bind it to the wood fiber and glue matrix.

Permatek® 100 Encaps is an effective, broad spectrum insecticide for use against structural pests such as termites and borers that may attack timber and engineered wood products.

The active ingredient in Permatek® 100 Encaps, bifenthrin is used on various agricultural crops and in homes.

Permatek® IM30

Permatek® IM30 is formulated using imidacloprid as the active ingredient and is an additive for plywood and other engineered wood products such as OSB, particleboard, MDF, and LVL made from various wood species. It can be added during the glueline process or as a spray or dip.

Permatek® IM30 is an effective, water miscible insecticide for use against structural pests such as termites and borers that may attack timber and engineered wood products.

The active ingredient in Permatek® IM30, imidacloprid, is commonly used to control fleas on household pets. Initially developed to control insect pests on crops, imidacloprid is also widely used in agriculture.

Research for Continual Improvement

At Lonza's research facilities for engineered wood, our studies focus on analytical, formulation and microbiology. We have a small-scale engineered wood manufacturing lab where we can replicate a customer's process, enabling us to produce trial samples of various products such as LVL, OSB, plywood, MDF and CLT. Our facilities include the most up-to-date equipment that allows us to continually innovate products that protect wood from its natural enemies.



Micro-encapsulation unit.



Continual research is performed at our state-of-the-art facilities.



INSECTICIDE