Enhancing the Performance of Engineered Wood Products
Lonza Wood Protection is truly a global business, with locations around the world where we collaborate on product and technology platforms and share broad industry knowledge with regional market-focused technical, sales, marketing and regulatory expertise.

WE ENVISION A WORLD BUILT WITH WOOD™

At Lonza, we support a better quality of life for our communities by delivering technologies that enhance the performance and increase the longevity of wood, the world’s greatest renewable resource.

Through strategic acquisitions and in-house formulation expertise, Lonza has developed a comprehensive portfolio of innovations in treatments designed for engineered wood products.

Lonza is a long-time trusted supplier in the field of wood protection, making wood resistant to mold and moisture, termites, fungi, smoke development and flamespread while enhancing its beauty. We support our customers with an industry leading level of service designed to boost their success.
Creative Solutions to Ensure Your Success

At Lonza, we continually innovate new products to stay ahead of market trends and add value to the wide range of engineered wood products available. We perform extensive small-scale testing at our global research facilities to replicate the processes in commercial manufacturing. We work with our business partners during trials at our facilities and commercial trials at manufacturing facilities. This ensures quality products that can be introduced with confidence into specialized processes to add protection against mold, termites, and decay. We facilitate the use of our treatments by providing retention standards and quality control measures throughout the process.

Research Capabilities. 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 engineered wood products such as LVL, OSB, Plywood, MDF & CLT. Our equipment and facilities include:

- PLC controlled hot press
- Strand tumbler
- MDF blender
- Cold press
- MOE/MOR strength testing machine
- Analytical wood preparation mill
- Conditioning unit
- Spray application system
- Decay trial ‘warm room’
- Fire lab
- Pressure/vacuum cylinders
- Field decay and termite sites
- Australia
- United States

During a study conducted in Australia, termites built a tunnel up and over a piece of treated plywood to get to the untreated wood directly behind it.

Did You Know …
Lonza has products that can be applied to surfaces or gluelines or be pressure-impregnated. Our treatments are specially formulated to ensure no negative impacts on bond strength. To determine this, we conduct tests with our treatments and each resin formulation used in gluelines. Our water-based treatments have been used successfully with a wide range of resin formulations typically used in engineered wood manufacturing. We work with resin suppliers to ensure their bond strength properties are not affected by the addition of our treatment formulation.
RUTHLESS, DAMAGING TERMITES

Termites cause millions of dollars of damage per year. Lonza Wood Protection is committed to protecting wood from this enemy with products innovated to prevent termite devastation. Since 1991, Lonza has placed more than 86,000 samples in testing trials around the world. Our test sites in Australia, Hawaii, and the southeastern United States are where we subject test samples to thriving colonies of wood-eating insects.

Did You Know ...

Termites colonize most land masses on Earth (except Antarctica). Their colonies range in size from a few hundred individuals to enormous societies with several million individuals. Termite queens have the longest lifespan of any insect in the world. Some have reportedly lived up to 30 to 50 years.

MOISTURE COULD LEAD TO MOLD OR FUNGI

Mold is present everywhere and thrives in a moisture rich environment. If not controlled, mold can affect the appearance and performance of wood within a matter of days by destroying the appearance of the the wood it attacks.

Another natural enemy of wood is fungi, which also thrives in a damp climate. Wood destroying fungi grows by attacking the wood fiber, causing it to become soft and weak.

Mold and fungal decay are not only undesirable but also cause billions of dollars in damage each year. And, mold is associated with health risks such as asthma.

Did You Know ...

The level of mold infestation in a home will directly affect removal cost and whether or not a specialist is required to do the job. A crawl space, for example, could cost as little as $500 to repair but a whole house remediation cost could be tens of thousands of dollars.

Did You Know ...

Dry rot is fungal decay due to poorly ventilated conditions that result in cracking and powdering of the wood. When dry rot occurs in the framing of a house, the damage may not be noticeable until it causes structural problems that require major repairs. Dry rot repair costs rise when the damage is extensive and wood needs to be removed and replaced. The location of the rot may cause repair costs somewhere in the range of a few hundred dollars to as much as $50,000 or more.

Did You Know ...

The most common species of termite in the United States is the eastern subterranean termite. The largest subterranean termite colonies eat about a pound of wood per day. Additionally, the very destructive Formosan termite lives in large colonies that can destroy a structure in as little as three months.

Did You Know ...

Moisture could lead to mold or fungi. Mold is present everywhere and thrives in a moisture rich environment. If not controlled, mold can affect the appearance and performance of wood within a matter of days by destroying the appearance of the the wood it attacks.

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Relative hazard of subterranean termite infestations in the United States according to the US Department of Agriculture forest Service 206 Home and Garden Bulletin.

Mold trial: untreated — left, treated — right.

You can supply a product that protects your clients against these risks!
CROSS LAMINTATED TIMBERS

Short-Term Mold Protection
CLT panels may be exposed to moisture and humidity during transportation, on the job site, or once installed prior to being enclosed. Ensure your CLT panels remain clean and mold-free from manufacture through construction with Lonza’s AntiBlu® mold and sapstain protection products.

Termite Protection
Termites are extremely damaging and can wreak havoc on building structures. Lonza’s Permatek® treatments offer protection against termites. Our Permatek® surface treatment, applied after manufacture, provides a barrier of protection around each panel. Add protection to each layer with Lonza’s Permatek® glueline additive treatment, a patented technology that is mixed directly into the resin at your facility.

Interior Protection Against Decay
Moisture and humidity can reach inside the walls, creating an inviting environment for decay fungi to grow. Lonza’s FrameGuard® and Wolman® AG surface treatments can provide long-lasting protection to CLT against decay in interior uses.

Exterior Protection Against Decay and Termites
Expand your market for CLT to exterior uses by manufacturing your panels with pressure-treated wood. Source lumber that has been pressure treated with one of Lonza’s preservatives from a Lonza licensed producer for durability in both exterior out-of-ground and in-ground applications.

Not an experienced treatment applicator? No problem! We don’t just supply you products, we can assist with:

- **Application** — our highly qualified team of engineers assist with the design, installation, and ongoing support of equipment
- **Operations** — we provide field technical assistance and operational guidance
- **Quality** — we help with quality control procedures and analysis, and also offer an innovative software control system to manage treatment and quality while optimizing cost and processes
Lonza provides protection solutions.

**Short-Term Mold Protection**
LVL may be exposed to moisture and humidity during transportation, on the job site, or once installed. Ensure your LVL remain clean and mold-free from manufacture through construction with Lonza’s AntiBlu® mold and sapstain protection products.

**Termite Protection**
Termites are extremely damaging and can wreak havoc on building structures. Lonza’s Permatek® treatments offer protection against termites. Get protection through the full cross section of LVL with Permatek® glueline additive, a patented technology that is mixed directly into the resin at your facility. While termite protection is achieved through the glueline additive, we also offer additional surface protection with our Permatek® surface treatment, applied after manufacture.

**Interior Protection Against Decay**
Moisture and humidity can create an inviting environment for decay fungi to grow. Lonza’s FrameGuard® and Wolman® AG surface treatments can provide long-lasting protection against decay for LVL in interior uses.

Not an experienced treatment applicator? No problem! We don’t just supply you products, we can assist with:

- **Application** — our highly qualified team of engineers assist with the design, installation, and ongoing support of equipment
- **Operations** — we provide field technical assistance and operational guidance
- **Quality** — we help with quality control procedures and analysis, and also offer an innovative software control system to manage treatment and quality while optimizing cost and processes
Lonza provides protection solutions.

**Short-Term Mold Protection**

Plywood may be exposed to moisture and humidity during transportation, on the job site, or once installed. Ensure your plywood remains clean and mold-free from manufacture through construction with Lonza’s AntiBlu® mold and sapstain protection products.

**Termite Protection**

Termites are extremely damaging and can wreak havoc on building structures. Lonza’s Permatek® treatments offer protection against termites. Get protection through the full cross section of plywood panels with Permatek® glue-line additive treatment, a patented technology that is mixed directly into the resin at your facility. Our Permatek® surface treatment, applied after manufacture, provides an envelope of protection around plywood.

**Interior Protection Against Decay**

Moisture and humidity can create an inviting environment for decay fungi to grow. Lonza’s FrameGuard® and Wolman® AG surface treatments can provide long-lasting protection against decay for plywood in interior uses.

Not an experienced treatment applicator? No problem! We don’t just supply you products, we can assist with:

- **Application** — our highly qualified team of engineers assist with the design, installation, and ongoing support of equipment
- **Operations** — we provide field technical assistance and operational guidance
- **Quality** — we help with quality control procedures and analysis, and also offer an innovative software control system to manage treatment and quality while optimizing cost and processes
Lonza provides protection solutions.

Short-Term Mold Protection

OSB may be exposed to moisture and humidity during transportation, on the job site, or once installed. Ensure your OSB remains clean and mold-free from manufacture through construction with Lonza’s AntiBlu® mold and sapstain protection products.

Termite Protection

Termites are extremely damaging and can wreak havoc on building structures. Lonza’s Permatek® treatments offer protection against termites. Get protection throughout the OSB panel with Permatek® glueline additive treatment, a patented technology that is mixed directly with the strand and the resin during manufacture.

Interior Protection Against Decay

Moisture and humidity can create an inviting environment for decay fungi to grow. Lonza’s FrameGuard® and Wolman® AG surface treatments can provide long-lasting protection against decay for OSB in interior uses.

Not an experienced treatment applicator? No problem! We don’t just supply you products, we can assist with:

- **Application** — our highly qualified team of engineers assist with the design, installation, and ongoing support of equipment
- **Operations** — we provide field technical assistance and operational guidance
- **Quality** — we help with quality control procedures and analysis, and also offer an innovative software control system to manage treatment and quality while optimizing cost and processes
I-JOISTS

Lonza provides protection solutions.

Short-Term Mold Protection
I-joists may be exposed to moisture and humidity during transportation, on the job site, or once installed. Ensure your I-joists remain clean and mold-free from manufacture through construction with Lonza’s AntiBlu® mold and sapstain protection products.

Termite Protection
Termites are extremely damaging and can wreak havoc on building structures. Lonza’s Permatek® treatments offer protection against termites. Manufacture your LVL flange I-joists using LVL flanges and OSB webs protected with Lonza’s Permatek® glueline additive treatment. This patented technology is mixed directly into the resin at your facility. Our Permatek® surface treatment, applied after manufacture, provides an envelope of protection around I-joists.

Interior Protection Against Decay
Moisture and humidity can create an inviting environment for decay fungi to grow. Lonza’s FrameGuard® and Wolman® AG surface treatments can provide long-lasting protection against decay for I-joists in interior uses.

Not an experienced treatment applicator? No problem! We don’t just supply you products, we can assist with:

• Application — our highly qualified team of engineers assist with the design, installation, and ongoing support of equipment
• Operations — we provide field technical assistance and operational guidance
• Quality — we help with quality control procedures and analysis, and also offer an innovative software control system to manage treatment and quality while optimizing cost and processes
PERMATEK® INSECTICIDES
Permatek® products are specially formulated insecticides for the control of wood damaging insects in engineered wood products. They can be used in a glueline process, adding protection to all layers of engineered wood, or as a surface treatment.

ANTIBLU® WOOD PROTECTION PRODUCTS
AntiBlu® anti-sapstain products provide short-term protection against biological growth that can harm the wood’s appearance and desirability.

FRAMEGUARD® TREATMENT
FrameGuard® treatment is a combined solution of anti-mold chemicals and preservative technology, providing protection against mold, decay, and termites. GreenSpec® listed.

WOLMAN® AG
Wolman® AG is a metal-free preservative that is ideal for wood products in interior applications. GreenSpec® listed.

Pressure-Treatment Products
A variety of pressure-treatment preservatives are applicable for use with engineered wood products. The formulations available through Lonza have been innovated to protect against termites and fungal decay.

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*Not all products are available in all markets. Ask your sales representative about products in which you are interested.
Let Lonza be your partner in expanding the benefits of wood.

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