



Boise Cascade®
WOOD PRODUCTS



BOISE CASCADE WOOD PRODUCTS
**WHERE ENDURANCE &
SUSTAINABILITY MEET**



FROM LOGS TO LOTS

Sustainability is at the core of Boise Cascade Wood Products. Being conscientious stewards of the environment and ensuring we have a timber supply for future generations is a responsibility we take seriously. Our manufacturing processes, investments in technology help customers reduce jobsite waste, plus efficient use of renewable resources in Versa-Lam® Laminated Veneer Lumber (LVL), BCI® Joists, AJS® Joists, BOISE GLULAM, Boise Cascade Plywood, and Boise Cascade Rimboard are testaments to this commitment.



HOW IT'S PROCURED & MADE

RESPONSIBLE SOURCING

Boise Cascade doesn't own forest land but procures wood fiber in compliance with forest certification standards like the Sustainable Forestry Initiative® (SFI®), and Forest Stewardship Council® (FSC®). Boise Cascade's Chain-of-Custody is the process of tracking and recording the possession and transfer of wood and fiber from forests all the way to the end user. It is critical for Boise Cascade to assure customers the products they trust are manufactured entirely of wood fiber from sustainable sources.

MAKING THE MOST OF WOOD FIBER

After sourcing the wood fiber, manufacturing Boise Cascade Wood Products starts with sawing logs into specific sizes, then peeling those logs into thin strips of veneer. After that, the veneer is clipped to size, tested to assure high strength, dried to a specific moisture content, and laminated together creating the high-quality Versa-Lam LVL beams, joists and columns. For context, the LVL can be up to 66' long and 24" deep, and they're made from trees as small as 10" diameter. This is critical because long lengths of dimension lumber can only come from larger, more mature trees.

The result is a stronger solution that uses more of the raw materials than standard dimensional lumber, plus peeling the log also means nearly all of the wood fiber goes to structural "best" use.



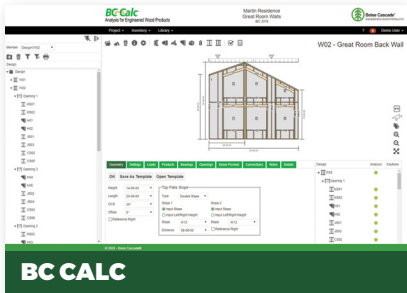
EWP qualify under the USDA BioPreferred Program, which promotes the use of renewable, bio-based materials to reduce reliance on fossil fuels. Products labeled as BioPreferred must meet strict content and performance criteria, which support both sustainability and economic development in rural communities. Choosing BioPreferred wood products helps meet federal procurement standards and encourages a market for environmentally responsible materials.

MINIMIZING WASTE DURING MANUFACTURING

Engineered Wood Products manufacturing achieves an almost 100 percent usage rate of the incoming wood supply by deploying two tactics. The first being biomass energy where the wood residuals are burned create the steam that powers some of the mill facilities. The other directs residual streams to outside wood product manufacturers, paper manufacturers, wood pellet manufacturers, livestock bedding, and more.

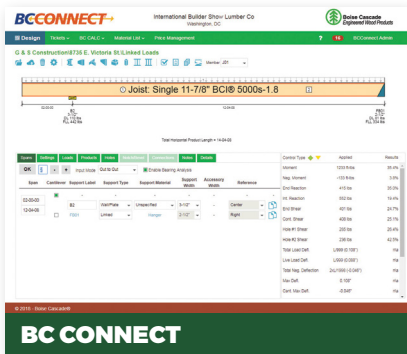
Boise Cascade converts manufacturing residuals into biomass energy, accounting for approximately 70 percent of the energy used in our mills. This not only reduces landfill disposal and transportation energy but also provides a renewable, carbon-neutral energy source that supports sustainable operations.

REDUCING WASTE IN LUMBER YARDS & ON JOBSITES



SOFTWARE

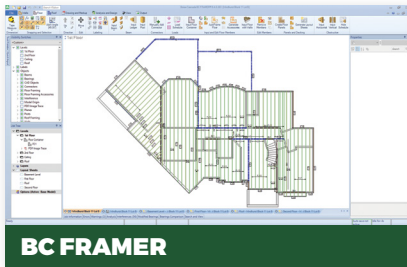
Boise Cascade's Value-Added Solutions help customers make cost-effective decisions and optimize product use. Customers leveraging software like BC Calc®, a free single-member sizing software, or BC Framers®, a critical tool for design and analysis services, can help designers meet code and pinpoint where plans are potentially over-engineered or over-built. Tools like this help dealers use the products they have in stock, plus it can calculate then communicate specific cut lengths to the yard to minimize product waste.



SAWTEK

Boise Cascade SawTek® automated saw system helps dealers achieve faster, safer, and more accurate trimming and processing with very little waste. Dealers can deliver products to the jobsite trimmed to 1/16" accuracy and ready to install. This helps eliminate cutting errors and waste on the jobsite. In addition to being pre-cut, job packs are also labeled before they reach the jobsite. This can speed up framing and reduce costly mistakes.

Leveraging both Boise Cascade's suite of software and SawTek can also allow for pre-cut holes in BCI® joist web for HVAC and further shortens building cycle time. Dealers equipped with SawTek automated sawing and processing equipment can cut the holes automatically. So, the HVAC system can be installed in fewer hours, resulting in fewer jobsite days, less driving, and less waste and vehicle emissions.



Integrates with the Boise Cascade suite of software

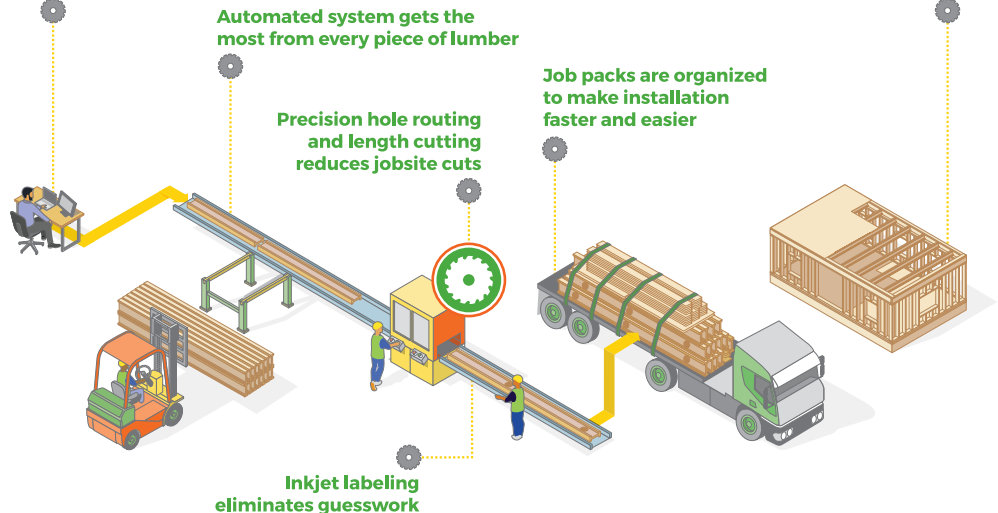
Automated system gets the most from every piece of lumber

It all comes together to reduce errors, callbacks, and overall labor costs

Precision hole routing and length cutting reduces jobsite cuts

Job packs are organized to make installation faster and easier

Inkjet labeling eliminates guesswork



GREEN BUILDING & HOMEOWNER BENEFITS

BUILDING STANDARDS & CREDITS

GREEN BUILDING STANDARDS

- ▶ National Green Building Standard – ICC-700
- ▶ LEED certified for Residential BD+C Multifamily
- ▶ LEED certified for Residential Single Family
- ▶ LEED certified for Building Design and Construction (BD+C)
- ▶ LEED certified for Interior Design and Construction (ID+C)
- ▶ LEED certified for Homes Design and Construction
- ▶ LEED certified for Building Design and Construction (BD+C)
- ▶ LEED certified for Interior Design and Construction (ID+C)
- ▶ California Green Building Standards Code (CALGreen), Title 24, Part 11
- ▶ ANSI/GBI 01 – Green Building Assessment Protocol for Commercial Buildings
- ▶ International Green Construction Code
- ▶ ANSI/ASHRAE/USGBC/IES Standard 189.1

GREEN BUILDING CREDITS

- ▶ Minimum structural member or element sizes necessary for strength & stiffness in accordance with advanced framing techniques that optimize material usage
- ▶ Two types of biobased materials are used, each for more than 1% of the project's projected building material cost
- ▶ Two certified wood-based products are used for major elements of the building, such as all walls, floors or roof
- ▶ Products containing fewer materials are used to achieve the same end-use requirements as conventional products
- ▶ Products with a Life Cycle Assessment and/or Environmental Product Declaration (LCA or EPD)
- ▶ Product manufacturer's operations & business practices include environmental management system concepts & the production facility is ISO 14001 certified or equivalent
- ▶ Low or non-emitting products (formaldehyde) – Nonstructural LVL is CARB/TSCA ULEF certified
- ▶ Structural plywood for floor, wall and/or roof sheathing complies with DOC PS 1 and/or DOC PS 2
- ▶ Material-efficient framing
- ▶ Sourcing of raw materials - Certification of new wood products
- ▶ Products containing fewer materials are used to achieve the same end-use requirements as conventional products
- ▶ Renewable sources
- ▶ Bio-based materials – BioPreferred Certification
- ▶ Certified wood – FSC, SFI
- ▶ Formaldehyde emissions
- ▶ Extracting, harvesting and manufacturing
- ▶ Wood Building Components

LESS CHEMICALS IN YOUR HOME

LIVING BUILDING CHALLENGE COMPLIANCE

The Living Building Challenge (LBC) Standard calls for transparency and requires manufacturers to report any intentionally used chemicals that appear on the LBC Red List.

Engineered wood products and structural plywood from Boise Cascade are primarily made of wood (about 90%), with the remainder being phenol formaldehyde adhesive (about 10%). Although phenol formaldehyde is a Red List chemical, the LBC Materials requirement has specific exemptions for its use in structural composites and sheet goods. Because of this, Boise Cascade's wood products fully comply with the Living Building Challenge Standard.

TSCA PBT & PFAS

Engineered Wood Products manufactured by Boise Cascade do not contain any of the listed Persistent, Bioaccumulative, and Toxic (PBT) substances as restricted under US Code of Federal Regulations title 40, part 751 – "Regulation of Certain Chemical Substances and mixtures under section 6 of The Toxic Substance Control Act" (TSCA).

Engineered Wood Products manufactured by Boise Cascade do not contain intentionally added per- and polyfluoroalkyl substance (PFAS) chemicals.

BIODEGRADABLE

EWP naturally breaks down at the end of its life cycle, reducing long-term waste and minimizing exposure to persistent pollutants that can affect environmental and human health. Its ability to decompose safely supports healthier ecosystems and promotes peace of mind in wellness-focused, sustainable building design.



LOOKING FOR MORE?

Boise Cascade's commitment to sustainability goes beyond our wood products. Our "Sustainability Highlights" provides a company-wide look at how environmental stewardship, sustainable forestry practices, and our culture intersect. Learn more by visiting bc.com/sustainability/.



 **BOISE CASCADE® VERSA-LAM®**



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