

WHY INVEST IN A BLUWOOD HOME

You're building your dream home. You've mapped out everything down to the last cabinet fixture. One thing you may not have planned for is mould. Or fungus. Or termites.

In Canada, with our weather and our pervasive termite species, you can't afford to ignore the devastating effects these threats can have on your home and on your family's health. BluWood is a state-of-the-art factory applied, two-part wood coating system that resists uncontrolled moisture absorption, mould fungus growth, rot fungi and wood ingesting insects, like termites.

BluWood is the perfect barrier against these costly and unhealthy enemies. Moreover, BluWood's Perfect Barrier™ system can be applied to virtually any type of wood that is used to build your home. BluWood is unlike any other wood treatment process – it is truly revolutionary and is fast becoming the industry standard. BluWood is safe, environmentally friendly and guaranteed for the life of your home. And now it is available in Canada.

When you're building your home, choose BluWood to provide you with peace of mind. Because your most important investment is not your home. It's your family.

Homeowners want to protect themselves and their investment when building or renovating their house. Weather, scheduling conflicts and other unforeseeable delays leave building materials susceptible to excessive moisture which can lead to mould and insect infestation. By choosing BluWood, homeowners and builders can protect their materials before, during and after construction. BluWood protects against replacing damaged inventory, construction delays and costly clean up and goes a long way towards protecting the investment you have made in your house.

"Since Bill Clark Homes has been using BLUWOOD wood framing materials, our constant threat of mold fungus growth; rot fungi and termites has vanished."
Jonathan Martin, Construction Manager, Bill Clark Homes.
Myrtle Beach, SC

BLUWOOD
THE COLOUR OF PROTECTION

TERMITES



Working 24/7 To Destroy Your Home

Termites, although only the size of an ant, have been known to build towers, hollow trees, move soil and destroy houses. Termites can cause major structural damage to buildings and homes as they eat their way through wood fibers. Termites can go undetected for years, consuming the wood in your home without notice until the structure is too severely damaged.

The cost of termite damage is mind boggling: termites cause more than \$1 billion in damage in U.S homes each year, and according to Pest Control Canada, termites cause more damage than tornadoes, hail storms, windstorms and hurricanes combined. Termites can infest almost every part of your home, including your backyard. Termites are like your worst houseguests: they arrive uninvited, overstay their welcome and they never stop eating.

Over 20% of Canadians live in termite-infested municipalities, and the termite epidemic is increasing as urban sprawl continues. In the city of Toronto, 1,000 city blocks, or 10% of the city houses, are known to have termite infestation – and the number keeps growing.

Getting rid of termites can be expensive, depreciate the value of your home and threaten the health of your family and neighbours. The best defense against termites is to turn away these uninvited guests with BluWood. The DOT Perfect Barrier system is guaranteed to protect your home against rot fungi and wood ingesting insects, including termites.

“Mold requires three things to grow: organic matter (such as wood), mold spores and water. Mold is everywhere, it always has been In a new building, mold will start to show up within months.”

*Dr. Mani Skaria, Ph.D
Professor Texas A&M University
Kingsville Citrus Center*



Hidden Enemy

When excess moisture from the elements or unexpected flooding occurs, the wood in your home absorbs moisture and becomes vulnerable. When the wood absorbs too much moisture, mould and fungus can grow and proliferate. Mould has joined radon, asbestos, and other hazardous materials at the top of the health industry's list of home-related illnesses.

Not only does mould cause unsightly stains to household fabrics, damage to your belongings, and a musty, earthy odour in your home, it can also have a serious affect on the health and well being of your family. Over 270 different species of mould have been identified as living in Canadian homes, but it can take signs of mould ten or more years to develop, so you may not notice signs when you first purchase a home.

Unfortunately, mould is not an issue easily washed away, as visible surface growths are often just a sign of deeper, more ingrained dampness and rot. The long-term effects of mould and fungus on your health range from allergies and infections to respiratory problems and damage to hemorrhage and in severe cases, death. Mould is also one of the most costly effects of water damage. Huge repairs and maintenance expenditures can be incurred as mouldy components must be removed and discarded.

Canadian insurance companies have clarified their policy wording concerning mould related damages so as to absolve them of payment duties, or have introduced mould exclusions to their policies, which may leave you and your family vulnerable to this hidden enemy.

"We saw a need and BluWood filled it. BluWood gives our builders a level of protection that we have not offered before."
- Dale Fort, VP Sales
Buck Lumber. Charleston, SC



TECHNICAL SPECIFICATIONS

- » The BluWood treatment does not alter the properties of the wood.
- » BluWood treated lumber meets the criteria specified by the Ontario Building Code. BluWood has been given a Class B Flame Spread Rating.
- » BluWood components are the result of a quality-controlled, factory applied coating process that protects wood framing materials prior to job site delivery. BluWood's lumber is continually monitored and scientifically tested to ensure the highest quality standards.
- » BluWood offers you the security of a Lifetime Limited transferable warranty. To ensure that the wood components utilized in the building of their home are protected from mould fungus growth, rot fungi and wood-ingesting insect infestation, homeowners should specify that all the structural components be coated with BluWoods factory applied two-part Infusion Film and Perfect Barrier DOT Wood Preservative coating system. Only then can they be assured that their wood components are protected from potentially costly and damaging problems before, during and after construction.
- » BluWood testing of termite resistance demonstrated that the treated samples have a potential for providing resistance to Formosan subterranean termites. The test also showed that the treated sill plates potentially provide the most resistance to termite attacks.
- » BluWood testing of decay resistance demonstrated that the treated samples did not show substantial weight loss, indicating that there was little to no fungal degradation of the wood-based composites.
- » BluWood testing of lateral resistance indicates that there was no significant statistical difference in plate performance for treated and untreated material.
- » BluWood testing of rapture and elasticity showed that there was no significant difference in bending modulus, strength, and density between the treated and untreated groups. It can then be concluded that the BluWood preservation has no effect on bending stiffness, strength and density.
- » BluWood testing to fire demonstrated that BluWood coating had a much lower flame spread than the control wood (untreated pine wood) and produced more smoke.
- » Building Green: The Leadership in Energy and Environmental Design (LEED) has designed a Green Building Rating System that promises to direct and guide residential builders and commercial construction. BluWood is determined to educate builders and consumers of the value of this construction method. BluWood has been accepted in the GreenSpec Directory and BluWood Canada is committed to the promotion of BluWood in the LEED program.

"BluWood wood framing components' ability to limit uncontrollable moisture absorption is the type of innovative technology that we believe our builders need to prevent mold fungus growth; rot fungi and termites in all of their projects."
- James Kennemer, Vice President,
Frisco Wholesale Lumber.
Frisco, TX



LIFETIME WARRANTY

BluWood offers you the security of a Lifetime Limited Warranty.

BluWood Canada is under the warranty of WoodSmart Solutions, Inc., and warrants the interior wood component(s) (Certified Components), which have been treated in accordance with WoodSmart's written specifications for the BLUWOOD two part Perfect Barrier DOT Wood Preservative and Infusion Film process specifications.

The Certified Component(s) are warranted against contamination or structural damage caused by mold fungus growth on the cured surface of the film; rot fungi or wood ingesting insects (including subterranean or Formosan termites) or carpenter ants, due to the failure of BLUWOOD's two-part system while owned by the original owner-occupant of the residential covered structure and for 10 years by any qualifying successor owner/occupant within the immediate 30 year period from date of original owner/occupant (Warranty Period).

This Lifetime Limited Warranty applies only to Certified BLUWOOD coated wood component(s) incorporated into residential covered construction or Certified BLUWOOD coated wood component(s) specifically approved in writing by WoodSmart in writing for incorporation into a non-residential structure (Covered Structure).

WoodSmart further warrants that at the time of installation, the Certified BLUWOOD Component(s) have been treated with the Perfect Barrier DOT Wood Preservative and Infusion Film process for protection of the Certified BLUWOOD coated wood component(s) from structural damage by rot fungi and wood ingesting insects (including subterranean termite or Formosan termites) or carpenter ants or mold fungus growth on the cured surface of the film. Structural damage shall be defined as damage to the material(s), which renders it incapable of performing its intended function.

For the complete warranty, visit bluwoodcanada.com

“With BLUWOOD wood framing components, we believe that we are giving our clients a better building and giving our company additional protection”

*-Jeff Harrington, Harrington Construction.
Myrtle Beach, SC*

BLUWOOD
THE COLOUR OF PROTECTION

COMPANY PROFILE



About Bluwood Canada

In recent years, research has shown that mould contamination can cause serious health issues ranging from allergies to respiratory damage and in some cases, death. Responding to demand for a solution that would effectively block the growth of dangerous mould and protect wood from fungus, rot and insects, Charles Morando, a 30-year specialty coatings veteran, developed BluWood.

With its ease of use, outstanding protection and lifetime warranty, demand for BluWood has increased exponentially since its inception in 2001. BluWood's distinctive colour is visible assurance that a home is safe and protected with BluWood products. In early 2006, Shelburne Wood Protection, one of Ontario's largest wood treatment facilities, purchased the exclusive rights to treat and sell BluWood in Canada. The company then developed a Canadian geographic-specific treatment for BluWood that guards against species of moulds and termites pervasive in Canada.

BluWood Canada will now be setting up treatment facilities across the country to support each regional market, with the first facilities being built in Ontario and British Columbia.

BluWood wood framing components are delivered to the job-site, ready to be installed. BluWood is supplied to contractors through their current source of supply for lumber, structural components and building materials.

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BluWood is the name given to a family of wood frame building components with a proprietary factory applied, two-part coating technology. The first part of the technology is an Infusion-Film that forms a water-repellent semi vapor permeable film interlocking with the wood fibers to provide controlled topical and subsurface moisture absorption. The Infusion Film is also specially formulated to resist mould growth on the cured surface of the film.

The second part of this technology is the Perfect Barrier DOT Wood Preservative, a proven fungicide and insecticide that provides protection from rot fungi and wood ingesting insects, including termites. DOT, Disodium Octaborate Tetrahydrate, is a time-tested wood preservative used for the protection and treatment of lumber against fungal decay and wood destroying insects, including termites, widely used in the building industry. Virtually non-corrosive to metal, the DOT wood preservative used in conjunction with the Infusion-Film can also be exposed to harsh environmental job-site conditions for up to six months.

Today's standard building code requirements only specify a very small amount of lumber used in the home to be treated against rot fungi and wood ingesting insects. The natural benefits and quality characteristics of wood are enhanced in BluWood coated wood framing products, sustaining a natural resource and preserving a tradition of high quality building materials.

BluWood's distinctive colour is visible assurance that the complete surface of processed wood components have been coated with BluWood's two-part wood protection technology. The factory-applied process eliminates possible scheduling conflicts, inconsistent application and incomplete coverage associated with on-site treatments offering less protection. BluWood components are handled, nailed, sawed, painted, and adhered the same as untreated wood components.

BluWood is approved to treat wood components in the following structures:

- » Framing, Rafters, Beams, Joist, Headers, Plywood, Millwork, Studs, Engineered Wood, Roof, Wall & Floor Sheating and Trusses, OSB, Molding & Trim
- » Wood Composite Siding, Molding & Trim, Log Home Wood Components, Fencing, Window & Door Components, Columns, Deck & Stair Parts

BluWood is approved for application to wood components that have been treated with:

- » CCA, ACA, CA, ACQ, Borates, CAB, Thompsonized (after 60 days of weathering)

BluWood is approved for use on the following wood species:

- » Southern Yellow Pine, Douglas Fir, Hem-Fir, White Wood, Spruce-Pine-Fir, Most soft and hard wood species

"We continually research new ways to enhance and improve our custom home design projects. BLUWOOD components offer a level of protection that we think is as impressive as any on the market."
*- Doug Mulvey, CEO,
Mulvey Custom Builders, Inc.
Rancho Santa Fe, CA*

FREQUENTLY ASKED QUESTIONS



What is BluWood?

BluWood is the trademarked name of a proprietary, two-part wood treatment product that is guaranteed to protect wood products from mould, fungus growth and wood ingesting insects, like termites.

Where is BluWood used?

BluWood can be used in all of the wood framing components of a residential and commercial structure including the roof, wall and floor systems, structural lumber, plywood, OSB, sub floor panel, engineered wood products, truss products, moldings and trim boards.

Why is the wood blue?

BluWood's distinctive colour is visible assurance that the complete surface of processed wood components have been coated with BluWood's two-part wood protection technology.

What does BluWood protect against?

BluWood provides protection for all wood components used in the above ground covered structure framing package from mold fungus growth; uncontrolled moisture absorption; rot fungi and wood ingesting insects including termites.

How long will BluWood last?

BluWood forms a unique bond with wood and its protective shield has a Lifetime Limited transferable warranty.

What kind of wood can BluWood be applied to?

This factory application is designed to protect a wide variety of wood species and components including: air or kiln dried, soft and hardwood lumber for framing and structural components, deck, sheathing, and sub-flooring panels, as well as engineered wood products.

Does this affect the wood or make it difficult to work with?

BluWood components are handled, nailed, sawed, painted, and adhered the same as untreated wood components.

How does BluWood affect metal? Does it smell bad?

BluWood coated wood components are non-corrosive to metal fasteners/plates, and contribute no additional gassing or odor to wood components.

Once BluWood is applied, when will it start to work?

The reaction with wood is immediate. BluWood will uniquely protect building components from weather before and during construction, as well as after the structure is completed.

Is BluWood harmful to the environment?

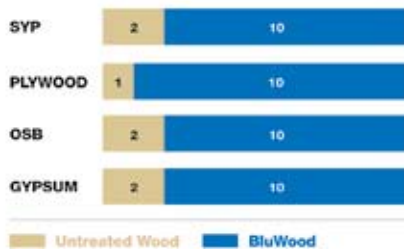
No, BluWood is listed in the GreenSpec™ Directory and qualifies for use in Leadership in Energy and Environmental Design (LEED) structures.

Where can I get BluWood?

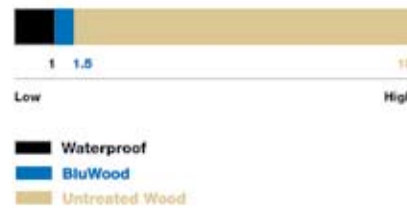
If you're a homeowner, request that BluWood products be used to build or renovate your home. If you are a builder, please contact Mark Foster at 519.925.5915 or go to bluwoodcanada.com for more information.

HOW BLUWOOD PROTECTS

ASTMD-3273-00 Resistance To Mould on the Dried Film



ASTM D-1653 Permeability Rating



AWPA STD E1-97 Wood Degradation From Termites



How BluWood's Two-Part Coating System Works

Factory Applied Application

The two parts that comprise the BluWood coating system are applied precisely to all six sides of the approved substrates using a specially engineered process.



Vapor Permeable Film

BluWood's Infusion Film allows trapped moisture vapor within wood to escape, and keeps external moisture from seeping in, creating optimal moisture balance.



Continued Penetration

BluWood's Infusion Film ingredients continue to migrate below the topical surfaces after initial treatment application for sub-surface protection.



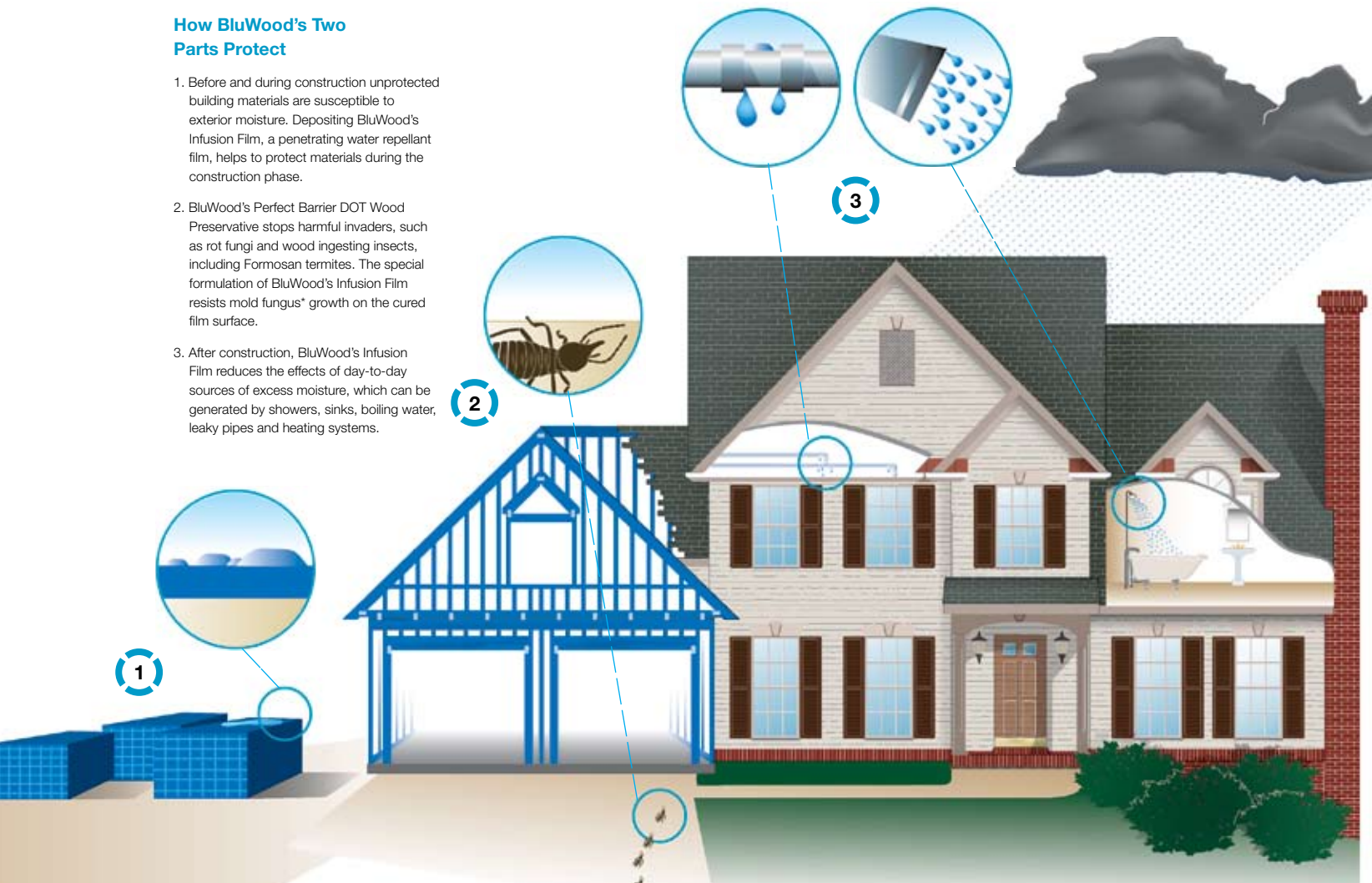
Cellular Bonding

As it penetrates, BluWood's Infusion Film bonds with wood fibers at the cellular level.



How BluWood's Two Parts Protect

1. Before and during construction unprotected building materials are susceptible to exterior moisture. Depositing BluWood's Infusion Film, a penetrating water repellent film, helps to protect materials during the construction phase.
2. BluWood's Perfect Barrier DOT Wood Preservative stops harmful invaders, such as rot fungi and wood ingesting insects, including Formosan termites. The special formulation of BluWood's Infusion Film resists mold fungus* growth on the cured film surface.
3. After construction, BluWood's Infusion Film reduces the effects of day-to-day sources of excess moisture, which can be generated by showers, sinks, boiling water, leaky pipes and heating systems.



COMPARE COSTS



Assumptions: BluWood Fee / mfbm: \$125

Alpa Fee / mfbm: \$150

Builder /retail /mfbm: \$200

Final cost to home owner: \$200 mfbm

NAHB / CMHC reports that the average home size is 2,200 sq.ft.
The average home uses approximately 23,000 fbm

2,200 x \$200 / mfbm = \$4,600

\$5,000 (rounded off)

Cost / sq.ft: \$2.27

	Non -BluWood	BluWood
Home Cost	\$300,000	\$305,000
30% down payment	-30,000	-30,000
Balance	\$270,000	\$275,000
# of payments: (20 x 12)	240	240
Prin. Payment/mo	\$1,125	\$1,145.43
Amortized loan is	\$270,000	\$275,000
based on equal installments over 20 years (Prin.P + Bal. / 2)	(avg. balance)	(avg. balance)
Interest fee = Avg. Bal x annual rate x 20 (term)	\$216,900	\$220,916.64
Int.fee + Balance / 240 payments	\$2,028.75	\$2,066.32
Difference / month:		\$37.57
Difference / day:		\$1.25

Assume a typical GTA home market value is \$300,000 with a 10% down payment and the balance is financed at 8% over 20-years

Without BluWood:

The typical cost of remediation for a 100 sq.ft. room is \$13,000 including the initial assessment.

While the remediation of a small home can range from \$20,000 to \$50,000.

The BluWood upgrade cost is basically a medium cup of coffee per day.