MicroPro® Sienna Treated Wood

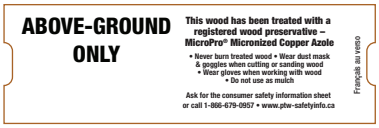
Residential Treated Wood Use Category Guide

ENVIRONMENTALLY PREFERABLE CERTIFIED™
SCS GLOBAL SERVICES
TREATED WOOD PROCESS
SCS-EPP-01699B
The MicroPro® Treated Wood Process is certified under SCS's Environmentally Preferable Product (EPP) program based on Life-Cycle Assessment

UL GREENGUARD
PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818
GOLD

MicroPro Sienna® wood products are treated with MicroPro® preservative technology, a revolutionary way to pressure treat wood for decks, fences, landscaping and general exterior construction uses. MicroPro preservative technology meets Canadian Standards Association (CSA) standards as a wood preservative that has been formulated especially for Canadian species and use conditions. Wood treated with MicroPro can be used above ground, in ground contact and in fresh water. Usage is indicated on the end tag attached to the treated lumber.

TO IDENTIFY A MicroPro Sienna BRAND WOOD PRODUCT, LOOK FOR THE MicroPro Micronized Copper Azole END TAG.



Above Ground

Wood treated for above ground applications can be used in exterior construction where the wood is NOT in contact with soil, placed on or over soil using a synthetic barrier, subject to frequent wetting, or continually exposed to heavy vegetation, mulch products or other conditions that could simulate a ground contact exposure. Examples of above ground treated products include decking, fence boards, railing components, and elevated walkways.

Ground Contact

Ground contact shall be taken to mean permanent and direct contact with soil. Lumber treated for ground contact has a higher preservative retention level than above ground. This is to improve the performance of the treated wood when it comes in direct contact with the ground (soil), fresh water, high moisture areas, etc., where it is highly vulnerable to deterioration.

Treated wood used as structural elements in or on the ground, continuously wetted or immersed in fresh water is more vulnerable to rot and therefore requires a higher level of preservative protection for better long-term performance.

In addition, wood treated to ground contact is needed in the following applications:

- Decks built close to or on the ground
- Decks enclosed with solid skirting, prevent air circulation
- Raised garden beds or planter boxes
- Freshwater docks

Incising

On wood used for structural applications (joists, beams, posts), you'll see fine incisions on the surface of the wood that allow for better preservative penetration. Incising is the process of piercing the surface of wood with small slits, before treatment, to allow more preservative to consistently penetrate beyond the surface of the wood. Incising improves protection and lengthens the service life of treated wood. It also helps to reduce surface splitting by decreasing the surface tension.

Understanding the CSA Use Category System – Residential*

Category	Size (final)	Deterioration	Structural	Treatment	Incised	Examples
UC 3.2 A	Thickness 25 mm or less	Low	Non-structural	Above-ground		Fence boards, lattice
UC 3.2 B Turned & profiled products	Thickness ≥ 25 mm but ≤ 40 mm	Moderate	Non-structural	Above-ground		Turned products spindles, handrails 5/4 decking
UC 3.2 B Nominal 2"	Width < 150 mm	Moderate	Non-structural	Above-ground		Deck boards, fence rails
UC 3.2 C	Thickness < 40 mm	Moderate	Structural	Above-ground	✓	Joists, beams
UC 4.1 D Nominal 2"	Thickness < 40 mm	High	Structural	Ground, freshwater contact	✓	Joists, beams
UC 4.1 D Squares	Thickness > 40 mm and < 155 mm	High	Structural	Ground, freshwater contact	✓	Posts, freshwater docks, landscaping

*Information based on CAN/CSA-080.1-15, clause 4.2.8.2

Fastener Information

MicroPro Sienna Treated Wood is no more corrosive to metal products than untreated wood. Fasteners and hardware should be rated to the environment and conform to building codes.

Aluminum building products may be placed in direct contact with MicroPro Sienna Treated Wood used indoors or in above ground exterior applications where the wood is not exposed to frequent and prolonged wetting, such as decks and fencing.

For more information see the *Fastener and Hardware Information Sheet.*

Environmental Certifications

MicroPro Sienna Treated Wood is processed using patented MicroPro micronized copper preservative. This technology reduces the environmental footprint of Sienna to less than half that of traditional residential treated wood.

- The MicroPro treated wood process was the first, and is the only, wood treatment process to be certified as an Environmentally Preferable Product (EPP), by Scientific Certification Systems (SCS), based on Life-Cycle Assessment.
- UL GREENGUARD GOLD Certification indicates that MicroPro preservative technology has undergone rigorous testing and has met stringent standards for low volatile organic compound (VOC) emissions. Products certified to this criteria are suitable for use in schools, offices, and other sensitive environments.
- Wood products treated with MicroPro technology are eligible for more green building points toward NGBS Green Certification than any other treated wood products.

For more information visit, **microprosienna.com/essentials/environmental-certifications**

ENVIRONMENTALLY PREFERABLE
CERTIFIED™
SCS GLOBAL SERVICES
TREATED WOOD PROCESS
SCS-EPP-01699B
The MicroPro® Treated Wood Process is certified under SCS's Environmentally Preferable Product (EPP) program based on Life-Cycle Assessment

UL
GREENGUARD
PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818
GOLD

Home Innovation
NGBS GREEN CERTIFIED™

MicroPro® Sienna Treated Wood

Important Information

MicroPro Sienna® Treated Wood products are pressure treated with MicroPro® Micronized Copper Azole (MCA) to protect the wood against fungal decay and termite attack. The main ingredient in the preservative system is copper, which has long been known as an effective wood preservative. MicroPro Sienna uses micronized copper coupled with micronized azole for long-term protection of wood exposed in exterior applications.

- Do not burn treated wood.
- Wear a dust mask and goggles when cutting or sanding wood.
- Wear gloves when working with wood.
- Some preservative and/or pigment colour may migrate from the treated wood into soil, water and other surfaces. It may also dislodge from the treated wood surface upon contact with skin. Wash exposed skin areas thoroughly.
- All sawdust and construction debris should be cleaned up and disposed of after construction.
- Wash work clothes separately from other household clothing before reuse.
- Treated wood should not be used where it may come into direct or indirect contact with drinking water, except for uses involving incidental contact such as freshwater docks and bridges.
- Do not use treated wood under circumstances where the preservative may become a component of food, animal feed, or beehives.
- Do not use treated wood as mulch.
- Only treated wood that is visibly clean and free of surface residue should be used.
- If the wood is to be used in an interior application and becomes wet during construction, it should be allowed to dry before being covered or enclosed.
- Projects should be designed and installed in accordance with federal, provincial, and local building codes and ordinances governing construction in your area.
- Users should dispose of treated wood scraps and cut offs in accordance with local, provincial and federal regulations.
- Use wood preservative safely. Always read the label and product information before use.

Important Application Information

Cut ends / Field cuts – When building your outdoor project with pressure treated wood it is important to protect the cut ends, drill holes, and other field cuts.

- For pressure treated wood is used in **ground contact applications**, two applications of a brush-on copper naphthenate based end-cut wood preservative must be applied to all saw cuts, drill holes and other field cuts at the time of construction before the wood is installed. Follow the manufacturer's directions for proper application.
- For pressure treated wood used in **above ground applications**, such as deck boards, railings, post tops or fence boards, a brush-on end-cut wood preservative or Timber Specialties Cut-N-Seal® product should be applied to all saw cuts, drill holes and other field cuts at the time of construction. Follow the manufacturer's directions for proper application.

Fasteners – Wood treated with MicroPro technology exhibits corrosion rates on metal products similar to untreated wood. Use fasteners and hardware designed for exterior construction that are in compliance with the manufacturer's recommendations and the building codes for their intended use. For more information, see the *Fastener and Hardware Information* sheet online.

Contact with aluminum – Aluminum building products may be placed in direct contact with MicroPro Sienna Treated Wood products used for interior uses and above ground exterior applications where the wood in not exposed to frequent and prolonged wetting, such as decks and fencing. For more information, see the *Fastener and Hardware Information* sheet online.

Appropriate usage – Above Ground treated wood should not be used in ground contact applications, as this can adversely affect the performance of the entire project. The appropriate usage is noted on the end tag attached to each piece of MicroPro Sienna Treated Wood.

Pilot holes – Drill pilot holes to minimize splitting especially when nailing or screwing near the edge or end of a board.

Apply a weather-resistant finish – Any exposed wood, pressure treated or not, should be protected with a high quality water repellent or exterior stain to help reduce warping, checking, and splitting. The application of a clear water repellent will allow the colour of the wood to fade naturally over time. The addition of pigments or colour in a stain/finishing product help to protect the wood surface from UV damage and colour fading. Follow the manufacturer's instructions and label of the finishing product. Before you start, we recommend you apply the finishing product to a small exposed test area before finishing the entire project to insure it provides the intended result before proceeding.

Mold growth – Mold growth can and does occur on the surface of many products, including untreated and treated wood, during prolonged surface exposure to excessive moisture conditions. To remove mold from the treated wood surface, wood should be allowed to dry. Typically, mild soap and water can be used to remove remaining surface mold.

For more information, visit **www.MicroProSienna.com**.

Actual product colour may vary from colour shown in photos.

MicroPro Sienna Treated Wood products are produced by independently owned and operated wood preserving facilities.

18089-T

MicroPro® Sienna Treated Wood

Residential Treated Wood Use Category Guide

ABOVE GROUND			
	Application	Use Category*	Incised**
1	Fence Boards	UC 3.2 A	
2	Lattice	UC 3.2 A	
3	Railings Components	UC 3.2 B	
4	Decking	UC 3.2 B	
5	Ledger Boards	UC 3.2 C	✓
6	Joists	UC 3.2 C	✓
7	Beams	UC 3.2 C	✓
8	Stair Stringers	UC 3.2 C	✓

GROUND CONTACT			
	Application	Use Category*	Incised**
9	Post Supports	UC 4.1 D	✓
10	Fence Posts	UC 4.1 D	✓
11	Gazebo (joists, beams)	UC 4.1 D	✓
12	Planter Boxes	UC 4.1 D	✓
13	Raised Garden Bed	UC 4.1 D	✓
14	Walkway (substructure)	UC 4.1 D	✓
15	Retaining Walls	UC 4.1 D	✓
16	Freshwater Dock Post	UC 4.1 D	✓
17	Freshwater Docks (joists, beams)	UC 4.1 D	✓

* Use categories based on CSA 080 Series Standard for Wood Preservation.

** These products are incised to improve protection and lengthens the service life of pressure treated wood by ensuring better and more consistent penetration of the wood preservative.