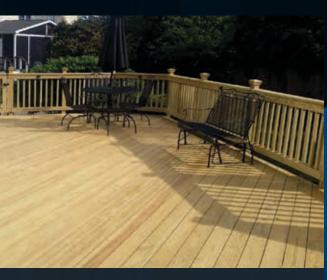


TREATED WOOD INFORMATION GUIDE





HERE'S WHAT YOU NEED TO KNOW BEFORE BUILDING A DECK



Mad Wood
Certified Installer



Business is built on quality products and quality service.

Since 1959, Madison Wood Preservers has been producing the highest quality treated wood products available. Our commitment to quality, safety and environmentally sound production practice has made us one of the largest wood treaters in the world.

We pledge to continue that commitment through constant evaluation of material and treating methods for years to come. We will remain at the forefront of our industry, constantly striving to improve our product line while increasing your bottom line. We will continue to build on our reputation as a state-of-the-art wood treater, and always provide the personal service our customers expect.

We only provide wood that is sourced from select, top-quality mills, and we insist that all pretreated wood arrives tarped and protected from the elements. We house all of our lumber inside of our 180,000 square ft. warehouse to ensure freshness and a bright, consistent color, and on those occasions when customers need something special, Madison Wood can customize an order that's just right for them.



CERTIFIED MADWOOD INSTALLERS

Hire with Confidence

ADVANTAGES OF HIRING A CERTIFIED MADWOOD INSTALLER

Madison's mission is to produce the highest quality treated products on the market. In order to preserve that quality, it is crucial that treated products are installed properly and adequately maintained. We heavily promote following best practice guidelines and work to educate end users and building professionals on industry recommendations. Madison Wood developed the MADWOOD Installer Certification as a way to initiate conversation around frequently asked questions. Although pressure treating wood has been around for over 70 years, the technology and protocol is ever evolving.

CERTIFIED MADWOOD INSTALLERS have either passed the certification test with a 100% score or taken part in a group training where the test was administered. When hiring a contractor, it is very important that you look for the Certified Madwood Installer logo, which ensures that your builder has had adequate training with our product. Hire a contractor for your next project with confidence!



ADVANTAGES OF BUYING FROM A BLUE DIAMOND DEALER

- 1. Peace of mind in knowing that all of their stock treated material is from Madison Wood.
- 2. The sales team has been certified as MADWOOD Installers. Contractors that buy from them also have the option to become certified.
- 3. No worrying over applications, these dealers stock ALL GROUND CONTACT.

Want to know if your preferred retailer is a Blue Diamond Dealer? Visit www.madwood.com and click the "locate a supplier" near you! Enter your zip code and check the box to search for Blue Diamond Dealers in your area.



Disclaimer:

The Madwood Certified Installer program was created in order to educate end users on common misunderstandings discovered while discussing best practices and installment recommendations/requirements of our product. It is not meant to cover every aspect of the building process nor will it serve as proof that the builder is a professional on this subject. Madison Wood cannot guarantee nor warrant the work or business practices of Certified Madwood Installer contractors. Madison Wood offers this training as an added supplement to contractors for the purpose of education around an industry that is ever evolving and changing. Madison Wood recommends that, prior to selecting a contractor, consumers of home improvement services perform appropriate due diligence, including checking references, verifying a contractor is licensed and insured, and verifying the contractor has experience in the furnishing of goods or services to be provided.

Reasons to Buy Madison Wood

Buy with Confidence

The Madison Difference

- We are particular, especially when it comes to our suppliers. Instead of buying from all mills, we carefully select and limit who we do business with, which provides a consistent high quality product.
- Our trucks arrive tarped and covered from the elements. Wet lumber doesn't treat and dirty wood doesn't sell! Our team checks wood shipments for moisture content to make sure each unit meets our expectation upon entry.
- In addition to our stringent quality control measures, we store all of our material indoors.
 In fact, we have a 4.5-acre warehouse just to keep our untreated wood dry and our preserved material fresh and beautiful. Visit www.MadWood. com to view our 360⁰ tour and see our facility.
- We want business partners who demand the same high quality that we look for. You won't find our lumber in BIG BOX stores. We exclusively supply the best of the best! Check out our website to locate a supplier near you or call I-844-MADWOOD.



Because Madison Wood treats all its wood to Ground Contact, you can purchase with the confidence of knowing it is the correct product for the intended application.

More Reasons to Buy Madison Wood

- All wood is treated by Madison Wood Preservers, a licensed producer of treated wood products for more than 60 years.
- MicroPro® technology is a revolutionary way to pressure treat wood. Using micronized copper preservatives, MicroPro offers many benefits including significantly improved corrosion performance.
- It is ideal for use as decking, railing and structural deck components, walkways, and other backyard projects. (Because Madison Wood believes in leading the industry Best Practice, all of our products are now treated to Ground Contact.)
- Madison Wood comes with warranted protection against termites and fungal decay (see warranty for terms of coverage).
- It can be painted or stained when dry.
- It is more economical than cedar or durable grades of all heart redwood, and costs considerably less than plastic composites or tropical hardwoods.
- Wood is a renewable resource that can be treated to last for decades, reducing demands on forests.



The Madison Wood name has been synonymous with quality treated wood for decades. In an effort to continue to bring that quality to the consumer, Madison has developed a Certified Installer program through which Madison trains professional deck contractors in all of the important choices, recommendations, and tips to provide their clients with the best end product available in the market today. So, whether you choose to Do-It-Yourself or pick a Madison Certified Installer to build your project, you can be assured that your Madison Wood is the best product available.

www.MadWood.com

Check with Confidence

Getting Started

Decks originally became popular as a way of adding outdoor living space on hillside lots. Today, many decks are built on level ground where they offer firm, dry footing close to the home. Decks add to the living area of your home and increase its value. Decks can be built just inches from the ground or well elevated. They may be freestanding or attached to the home or other building. Before you begin actual deck construction you need to take into account some basic considerations.

Deck Function

How you plan to use your deck will determine the size deck you need. For family meals and entertaining, select a large deck (or combination of decks) with plenty of space for tables and benches, and consider adding built-in benches along the railing to seat more people. An entry deck can be small, but make it large enough for you to be able to stand and talk comfortably with guests as they arrive or leave.

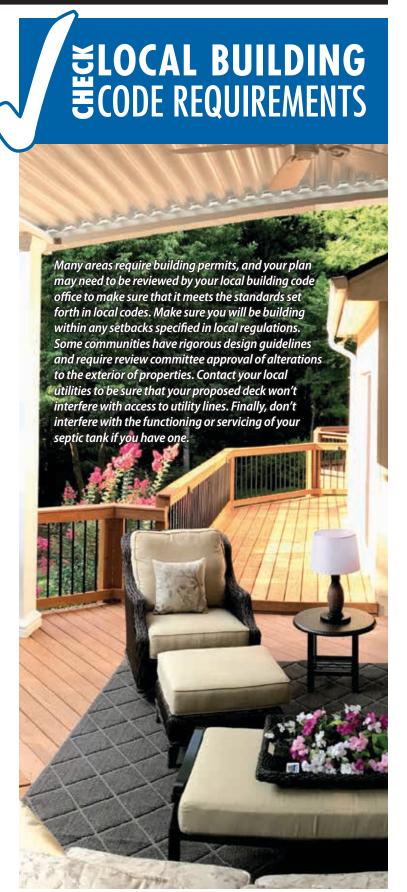
Your Climate

Sun and wind are important things to consider. Depending on where you live, afternoon sun can be a welcomed friend or a hot, fierce enemy, so plan carefully. Think also about which areas of your yard have pleasant, gentle breezes, or those which always seem too cold or windy. Whatever your local conditions, plan your deck to give you the sun or shade you want with protection from high winds.

Every situation is unique, but the following considerations are common. Take advantage of good views, both on and off your property and screen off unpleasant ones. Think about how your intended deck use and intended deck placement can work together. An outdoor eating-and-entertaining deck should be close to or easily reached from your kitchen and living area. A deck intended for adult privacy might be better placed away from busy household activities.

Considered together all these factors may point to an excellent location for you to build your deck, but usually you will have to think about compromises and modifications. For instance, if all other things are perfect about the location for your deck, but you think you'll want more shade, consider adding an overhead arbor or a lattice screen.

Is the only problem inadequate protection from high winds? Then add a taller, solid railing along one or two sides. Or does an otherwise great location feel too shady and damp? Perhaps thinning some overhead tree limbs (or even removing a tree) can get more sunlight down to where you want your deck.



To Build or Not to Build Yourself

Build with Confidence

Tools You Will Need

Measuring & Layout Tools	Hand Tools	Power Tools	General Equipment
Tape Measure (25', 50') Builder's Line (Yellow Nylon String) Chalkline Plumb Bob Framing Square Combination Square Bevel Square Level (2', 4', 6')	Hammer Nail Set Hand Saw Pry Bar Caulk Gun Adjustable Wrench Socket Wrench	Circular Saw Cordless Drill (Optional) Corded Drill Saw/Jig Saw Miter Saw (Optional) Power Auger (Optional) Saber Saw	Post Hole Digger Shovel Wheelbarrow Ladders Tool Belt Safety Glasses Particle Masks Extension Cords Concrete Mixer (Or Mixing Trough & Hoe)





SPIB Grading Rules The Southern Pine Inspection Bureau is a non-profit inspection agency through which the southern pine industry maintains a board program of standardization of grades and manufacturing practices. In conformity with the basic provisions of the American Lumber Standard.

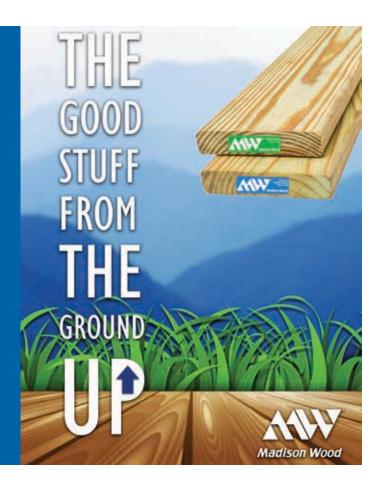
The Bureau publishes grading rules under which more than 95% of the production of the entire industry is classified and sold. To see the SPIB Grading Rules, visit spib.org/about-us/publications.

ALL GROUND CONTACT

Madison has chosen to lead the way in requiring its dealers to offer an all Ground Contact inventory. This forward thinking mindset prevents the need to consider what type of wood to buy.

Because Ground Contact wood contains more preservative, it withstands termites and fungal decay effectively even in harsh environments and conditions. There is no need for concern about frequent wetting (such as from sprinklers or rain), proper ventilation, or debris build-up on your deck with wood treated to Ground Contact.

Check the end tag to know that you are purchasing a quality product that not only looks beautiful, but also will last.



Selecting Materials

MicroPro® Treated Wood Advantages

- Lighter, more natural wood appearance.
- Improved painting and staining qualities.
- Better corrosion resistance for code-approved fasteners and hardware.
- · Carbon steel fasteners may be used for interior, above ground, weather-protected applications such as sill plates, interior framing and interior trusses.
- Approved for aluminum contact.
- End uses include interior and exterior above ground, ground contact and fresh water immersion.
- Treated wood warranty programs. (See warranty for details.)
- · Building code compliant. ICC-ES Reports, ESR-2240.
- American Wood Protection Association (AWPA) standardized wood preservative.
- National Green Building Standard[™] Certified
- Environmentally Preferable Product[™] (EPP)
- UL Greenguard Gold Certified
- Global GreenTag Certified™

Choose with Confidence

Materials You Will Need

Lumber Choices*

Railing Posts Deck Posts Beams

Rails Joists **Spindles**

Skirtboards/Fascia **Stair Stringers**

Deck Boards/Stair Treads

* Check your local building codes to ensure you purchase the correct materials for your project.

Side by Side Selection





SelectDeck™

A homeowners dream. Our C-Grade SelectDeck™ will make your mouth water with its smooth texture, clean surface and money saving advantages. Go ahead, tally up the difference between SelectDeck™ and Composite. It's mind blowing what you can save! With SelectDeck™ you will notice less knots than #1, about dime size, if any at all.

The Madison Wood team hand-selects each piece to provide the highest 2x6 wet decking product available on the market. Because we mill each board based on appearance and not grain, kerfs are cut in the bottom to help with cupping. With SelectDeck™ the only thing we ask is for you to sit back, relax and enjoy. Take the plunge into quality treated lumber today. Your wallet will thank you.

The Basics

High grade 2x6 decking with kerfs to relieve stress.

- Grade C- virtually clear of knots and imperfections
- Size: 2x6 in 12', 16' and 20' lengths
- Actual size: 1-3/8" x 5"
- No grade stamps on top side
- Kerfs on bottom side to reduce cupping
- MadGuard® Water Repellent Treated Wood Slows wood's moisture intake and release which can cause checking/splitting.

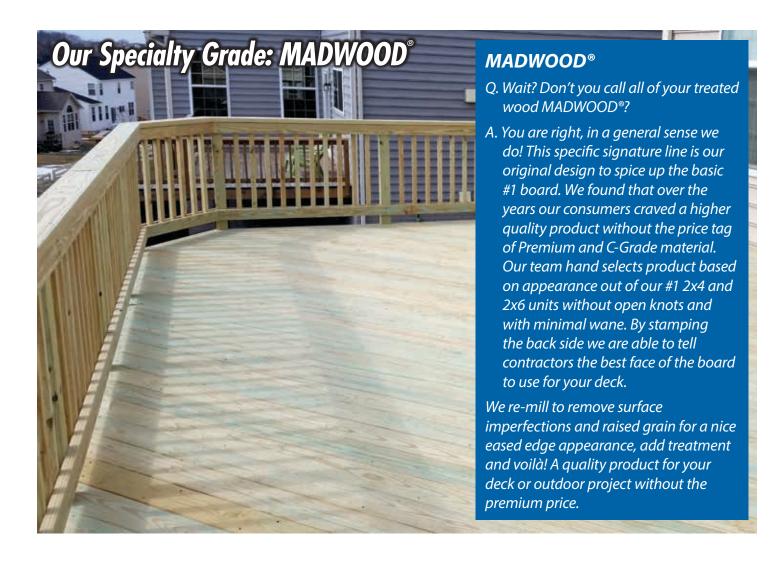


At Madison, quality means everything. SelectDeck™ is the highest grade of 2x6 for decking that we offer. This beautiful product is less expensive than composite and perfect for decking.





C SELECT DECK





The Basics

Our signature brand, selected and milled for unsurpassed appearance

- Lumber hand-selected for appearance
- 2x4 and 2x6 lumber re-milled to remove surface imperfections and raised grain
- Actual size: 1-3/8" x 3-3/8" OR 5-3/8"
- Best side has no grade stamp

The Madison Difference

One of the questions that come to mind for our retailers is "Where does the left over #1 product that isn't chosen for MADWOOD end up?" That's an easy one! We send all of our #1 material that doesn't make the cut into our #2 stock. This way our #2 stock is infiltrated with a HIGHER quality product. Here at Madison quality is everything.



MADWOOD®

Ground Contact Treated Wood Should Be Used in Most Above Ground Applications.

When you or your contractor buy Madison Wood, be sure to check the tag stapled to the end of the wood. Each piece is identified for a specific use. This information will help you decide the correct pieces to buy for each part of your outdoor project.

IMPORTANT: Wood is treated with different loadings, or retentions of preservative for different applications. Madison Wood has chosen to treat all of its wood Ground Contact so the end tags will designate Ground Contact or Heavy Duty Ground Contact. It will also refer to AWPA which indicates the product has been produced to accepted requirements and inspected.



Madison has made choosing your wood even easier. If you see a Green Madison end tag, think green grass and the ground. This Ground Contact application requires a wet/dry cycle where wood once wetted is sure to dry. When you see the blue Madison end tag, think salt water splash and harsh environments. Additional important information is found on the back of end tags.

American Wood Protection Association (AWPA) guidelines require Ground Contact General Use (UC4A) treated wood be used in the following use applications:

- Treated wood when installed less than 6" above the ground.
- When treated wood is used in an application that does not permit air circulation or water drainage underneath the structure.
- When treated wood is used in an application where vegetation, leaf litter, or other debris can build up and remain in contact with the treated wood product.
- When treated wood is used in tropical climates.
- When treated wood is wetted on a frequent or recurring basis such as wind and wave action (such as fresh water docks and walkways) or watering systems, swimming pools and hot tubs.
- When treated wood is used in an above ground application where the treated wood component is difficult to maintain, repair or replace and that component is critical to the performance and safety of the structure. This change in the AWPA Standards affects joists and beams used in above ground decks and fresh water docks, including floating docks.







Specification Guide for Treated Wood End Uses*

Madison Wood	Application	Use Category	Preservative & Retention**
DECKS	Above ground: Decking, joists, rails, steps	3B	0.15 (MCA)
	Sapwood species: Decking, specialties	3B	0.15 (MCA)
	Ground contact: Posts, timbers	4A	0.15 (MCA)
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FENCING,	Pickets, slats, trim	3A, 3B	0.15 (MCA)
RESIDENTIAL	Posts, sawn	4A	0.15 (MCA)
			NEESSOME LEED HE STORE
DOCKS,	Rails & Decking	4A	0.15 (MCA)
SALTWATER	Joists, Beams, Braces, Stringer, & Walers		
Č	Above water line	4A	0.15 (MCA)
	Splash zone	4B	0.23 (MCA)
	Below water line	5B	N/A
	Pilings - round or square	5B	N/A
			ASSESSED RESIDENCE STATE OF ST
BUILDING	Floor plate	2	0.15 (MCA)
CONSTRUCTION	Flooring, residential	1, 2	0.15 (MCA)
MATERIALS	Framing, interior	1, 2	0.15 (MCA)
	Lumber		DE CHATTEN VICE
	Interior, above ground	1, 2	0.15 (MCA)
	Exterior, above ground	3B	0.15 (MCA)
	Ground contact and fresh water use	4A	0.15 (MCA)
	Permanent Wood Foundation		
	Lumber & Plywood	4B	0.23 (MCA)
	Plywood		
	Sub-floor, damp above ground	2	0.15 (MCA) / .40 (CCA)
	Exterior, above ground	3B	0.15 (MCA) / .40 (CCA)
	Ground Contact and fresh water use	4A	0.15 (MCA) / .40 (CCA)
	Poles, Building	6-18-18-1	
	Round	4B	0.23 (MCA) / .60 (CCA)
	Sawn	4B, 4C	0.23 (MCA) / .60 (CCA)
THE RESERVE	PERMAY BOTH STREET STREET STREET	B (80) 2 1	
AGRICULTURE,	Round or sawn poles and posts as structural members	4B	0.23 (MCA) / .60 (CCA)
FARM USE	Posts, Fence		
	Grape stakes, sawn	4A	0.15 (MCA) / .40 (CCA)
	Rough sawn fence boards	3B	0.15 (MCA) / .40 (CCA)
	Round, half round, quarter round, & sawn four sides	4A	.40 (CCA)
HIGHWAY	Lumber and timbers for bridges, structural		
MATERIAL	members, decking, cribbing, & culverts	4B	0.23 (MCA) / .60 (CCA)
	Structural Lumber and Timbers:		A CONTRACTOR OF THE PARTY OF TH
	Posts: Sawn, round, half round, quarter round	4A	0.15 (MCA) / .40 (CCA)
	Handrails and guardrails	3B	0.15 (MCA) / .40 (CCA)
	Posts, gaurdrail - round or sawn	4A	0.23 (MCA) / .40 (CCA)

Note: 6x6 and larger timbers are considered structural and critical. While it is not required, Madison Wood Preservers recommends using Heavy Duty Ground Contact for any treated material that is 6x6 and larger.

Ground Contact-Critical Structural retention accepted by ICC ESR-2240.

^{*} This publication is intended to serve only as a guide. Always follow local builing codes and specifications.

^{**} MCA treated wood products are treated with Micronized Copper Azole. CCA treated wood products are treated with Chromated Copper Arsenate.

To Build or Not to Build Yourself

Building Tips

Projects should be designed and installed in accordance with federal, state, local building codes, and ordinances governing construction in your area and in accordance with the National Design Specifications (NDS), and the Wood Handbook.

Apply a weather-resistant finish

Any exposed wood, pressure treated or not, should be protected with a high quality water repellent finish or stain with water repellent to help reduce warping, checking, and splitting. If you desire to apply paint, stain, clear water repellent, or other finish to your preservative treated wood, we recommend following 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.



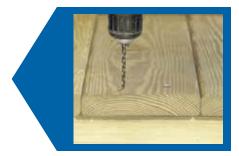
Fastener Information

See product End Tag for information and guidelines regarding correct use of fasteners and hardware for the treated wood product you are using. Specific precautions are required with some preservative products when selecting nails, screws and other hardware, and when used in contact with aluminum building materials. Use fasteners and hardware that are in compliance with the manufacturer's recommendations and the building codes for their intended use.



Drill pilot holes

Drill pilot holes, especially when nailing or screwing near the edge or end of a board. Pilot holes will help minimize splitting.



Deck board spacing

During construction, should the wood become wet, butt deck boards together. As the wood dries, some shrinkage can be expected. If the wood is dry, allowing for shrinkage is not necessary.



When appearance permits, attach boards bark side up

As a general rule, attach boards bark side up (annual rings arc upward) to reduce cupping; however, the best face should be placed up when a defect of the wood is apparent. Fasten thin boards to thicker boards to maintain structural integrity.



Build with Confidence

Fasteners

MicroPro® technology offers many benefits including significantly improved corrosion performance. Wood treated with MicroPro technology exhibits corrosion rates on metal products similar to untreated wood.

For interior or exterior applications: Use fasteners and hardware that are in compliance with the manufacturer's recommendations and the building codes for their intended use. As with any good design and construction practices, MicroPro treated wood should not be used in applications where trapped moisture or water can occur. Where design and/or actual conditions allow for constant, repetitive or long periods of wet conditions, only stainless steel fasteners should be used.

For exterior applications: The following minimum galvanization levels may be used for connectors, joist hangers, fasteners and other hardware that are placed in direct contact with exterior applications of treated wood which utilizes MicroPro technology:



- Fasteners nails, screws, etc. ASTM A 153 (1 oz/ft2)
- Hardware connectors, joist hangers, etc. ASTM A 653 G90 (0.90 oz/ft2)
- The effects of other building materials within a given assembly, along with environmental factors, should also be considered when selecting the appropriate hardware and fasteners to use for a given project containing treated wood.
- Stainless Steel fasteners and hardware are required for Permanent Wood Foundations below grade and are recommended for use with treated wood in other severe exterior applications such as swimming pools, salt water exposure, etc. Type 304 and 316 are recommended grades to use.

Other fasteners and hardware as recommended by the manufacturer - There may be additional products (other than stainless steel or hot-dip galvanized) which are suitable for use with MicroPro treated wood. Please consult with the individual fastener or hardware manufacturer for recommendations for use of their products with MicroPro treated wood. In addition, carbon steel fasteners may be used for interior, above ground, weather-protected applications such as sill plates, interior framing and interior trusses.

Aluminum building products may be placed in direct contact with MicroPro treated wood products used for interior uses and above ground exterior applications such as:

- Decks
- Fencing
- Landscaping projects

Examples of aluminum products include siding, roofing, gutters, door and window trim, flashing, nails, fasteners and other hardware connectors. However, MicroPro treated wood in direct contact with aluminum products should only be used in code compliant construction applications that provide proper water drainage and do not allow the wood to be exposed to, or remain in contact with a continual moisture source, standing water or water immersion. In addition, MicroPro treated wood should not be encased, sealed, or wrapped with aluminum products where trapped moisture or water can occur so as to avoid pitting or other unwanted results.

We recommend you contact the aluminum building product manufacturer for their recommendations regarding their aluminum products in contact with MicroPro treated wood used in ground contact applications or when MicroPro treated wood is exposed to:

- Salt water
- Brackish water
- Chlorinated water, such as swimming pools or hot tubs

Also check with the aluminum product manufacturer regarding compatibility with other chemicals and cleaning agents. Contact Koppers Performance Chemicals Inc. for further information on aluminum contact use in commercial, industrial, and specialty applications such as boat construction.

Build with Confidence

Use & Handling

- MicroPro® pressure treated wood has corrosion rates on metal products similar to untreated wood. Use fasteners and hardware that are in compliance with the manufacturer's recommendations and the building codes for their intended use. When using aluminum products in conjunction with MicroPro treated wood, refer to the MicroPro Fastener and Hardware Information Sheet for additional information.
- Do not burn preserved wood.
- Wear NIOSH N95 dust mask and goggles when cutting or sanding wood.
- Wear gloves when working with wood.
- Some preservative may migrate from the treated wood into soil/water or may 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.
- Preserved 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 fresh water docks and bridges.
- Do not use preserved wood under circumstances where the preservative may become a component of food, animal feed, or beehives.
- Do not use preserved wood as mulch.
- Only preserved 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.
- Disposal Recommendations Preserved wood may be disposed of in landfills or burned in commercial or industrial incinerators or boilers in accordance with federal, state, and local regulations.
- If you desire to apply a paint, stain, clear water repellent, or other finish to your preservative treated wood, we recommend following 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 completing the entire project to insure it provides the intended result before proceeding.
- Projects should be designed and installed in accordance with federal, state, and local building codes and ordinances governing construction in your area and in accordance with the National Design Specifications (NDS) and the Wood Handbook.

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.epa.gov.



<u>Limited Warranty</u>

Buy with Confidence



MADWORD

Full version listed on www.madwood.com



Keep Up with Confidence

DWOOD

"Your go to for what's new with Madison Wood"

Keep up with the latest trends and industry innovations by subscribing to the most popular treated lumber newsletter, MADWORD. We discuss industry leading topics, specials, and market projections. Get up-to-date information on what Madison Wood is doing to help shape the future of wood preservation.

Request issues of MADWORD by contacting Kari Gaviria at kgaviria@madwood.com.

Product Picker

Madison Wood is proud to introduce our newest online feature designed to assist homeowners and contractors with selecting the best product for their upcoming projects based on expectation. With quality as our number one goal, we designed this concept to be realistic by portraying Madison's unique and strict grade rules. Our job is to make your job easier! That's why we only stock code compliant ground contact treated lumber. Avoid costly misapplications and look for the big MW.



