



Wood Treated Right™

PRODUCT GUIDE

Wolmanized® Residential Outdoor Wood®





Wood Treated Right™

Wolmanized® Residential Outdoor® wood combines the natural beauty of real wood with a lifetime limited warranty against termites and fungal decay. It is protected with a preservative called copper azole. This wood is ideal for decks, retaining walls, fences, picnic tables, planter boxes, walkways, sill plate and structural members. Copper azole-treated wood, at appropriate retention levels, can be used for above ground, ground contact, and freshwater immersion applications. It is presently not recommended for saltwater immersion.

Copper is the active ingredient, protecting against termites and most fungal decay. Protection against copper-tolerant fungi is provided by an azole co-biocide which has also been used as a fungicide for fruits, peanuts, and other crops.

The formulation renders wood useless as a food source for termites and fungi while keeping the wood attractive, clean, and odorless.

To reduce stress during the periodic wetting and drying of exposed lumber products and to help stabilize the wood before construction, water repellent can be applied to Wolmanized® Outdoor® wood as part of the treating process.

As with CCA, the copper azole preservative is forced into the wood under pressure, where it provides decades of protection. However, some chemical may migrate from preserved wood into surrounding soil and water over time and may also be dislodged from the wood surface upon contact with skin.



Wolmanized® Residential Outdoor® wood is protected by copper azole preservative.

For several years, this has involved a formulation denoted Copper Azole type B (CA-B). This preservative is currently transitioning to a type C with reduced copper content.

Because of species differences, western species are being treated, or will be treated, with an amine version, CA-C, while, for eastern woods, the micronized copper version (abbreviated μ CA-C) will generally be used. Micronization refers to the use of small copper particles instead of dissolved copper; this imparts slightly different properties which affect retention, color, and corrosivity.

The timing of the transition depends on the speed of standards acceptance, local markets, and plant modifications.

The preservative in this wood is not a restricted use pesticide and does not meet EPA's definition of hazardous waste. As a result, fewer environmental restrictions apply to handling the wood.

Warranty: Wolmanized® lumber is backed by a lifetime limited warranty in qualifying residential and agricultural applications. Warranted material is monitored by a third party inspection agency accredited by ALSC.

Construction & maintenance: For projects involving cedar, redwood, or composites used over Wolmanized® understructure, use flashing, joist cap, or other barrier to prevent possible discoloration from the preservative. Also, avoid situations where rainwater may run from treated wood onto another material, as staining may occur.

When dry on its surface, Wolmanized® wood can be stained like ordinary wood, and, once dry internally, can be painted. For thorough internal drying, purchase material that has been re-dried after treatment or, after the project has been completed, allow several months of good drying weather prior to painting.

Many light-colored latex paints can be used successfully, following brush-application of an oil-based primer. Primer should not be applied by sprayer, nor should coatings be used if their manufacturer advises against an oil-based primer. Always follow the manufacturer's directions and take special care in coating end grain, holes, and cuts.

For protection against moisture damage, regular application of a topical water repellent is recommended. Periodic cleaning can revive the color of preserved lumber.

Aquatic use: Risk assessment documents and models have been developed for the use of this wood in aquatic applications. Projects calling for large volumes of Wolmanized® wood immersed in and/or installed above poorly circulating bodies of water should be evaluated on an individual basis using risk assessment procedures.

Recommended hardware: The International Building Code and International Residential Code require metal fasteners in contact with any preservative treated wood to be hot-dipped galvanized material meeting ASTM A 153. This level of galvanization is appropriate for wood treated with CA-B, and will provide extra protection for CA-C and μ CA-C. Code requirements should be observed.

Connectors should be made from galvanized steel sheet conforming to ASTM A 653 Class G185. For Permanent Wood Foundations, use 304 or 316 stainless steel fasteners.

Indoors, and where wood will remain dry in service, corrosion is less likely to occur than outdoors. The model code permits use of standard galvanized strapping or mild steel anchor bolts 1/2" diameter and larger is also acceptable for fastening Wolmanized® wood to foundations.

Handling precautions: At the present time, there are no EPA-approved precautions similar to the Consumer Safety Information Sheet for CCA. We recommend following the same guidelines as for CCA, which are essentially the same guidelines that should be followed for handling untreated wood. For example: wear a dust mask to control inhalation of sawdust; do not use treated wood under circumstances where the preservative may become a component of food or animal feed (note: in raised bed gardens this may be accomplished by placing an impervious liner such as heavy polyethylene between the treated wood and the soil); wear gloves when working with wood; wear goggles to protect

Used and recommended by Dean Johnson, host of the popular TV series, Hometime.



eyes from flying particles; and wash after working with wood and before eating, drinking, toileting, or using tobacco products. For other precautions, see the website.

Disposal: Wolmanized® wood waste, such as scraps, broken boards, and sawdust, can be disposed of with ordinary trash collection. Neither the wood nor the preservative residues are considered hazardous wastes by EPA. If a particular landfill has restrictions against CCA-treated wood, it may accept Wolmanized® Outdoor® wood. Treated sawdust and shavings are not recommended for composting, mulching, or animal bedding, and the wood should not be burned except in approved commercial incinerators.

Codes and standards: This wood meets requirements of model building codes for many applications, and a code evaluation report has been issued. See ICC's ESR-1721 for allowable values and/or conditions of use. Such reports are subject to re-examination, revisions, and possible closing of file.

CA-B preservative treatment is listed in the standards of the American Wood Protection Association for above-ground (Use Categories UC1, UC2, UC3A, UC3B) and ground contact (Use Categories UC4A, UC4B, and UC4C) applications. Internationally, it is approved by government and trade agencies throughout Europe and in Australia, New Zealand, and Japan.

CA-C formulations are in the process of obtaining AWPA listing.

And it's wood: In addition to the preservative treatment that enables wood to last a long time, Wolmanized® wood has all of the environmental and other advantages associated with wood itself. Its source is a renewable and rapidly replenished resource grown on managed timberlands, requiring less energy to produce than alternative building materials and offering greater insulation value. Because of its lighter weight, wood can often be installed with lighter equipment having less environmental impact.

Wood offers excellent workability with common construction skills and tools, plus it provides design flexibility and is generally more economical than alternative materials. Furthermore, for many applications, wood is aesthetically preferable.



Model specification:

For a downloadable and editable model spec, visit www.wolmanizedwood.com/spec.

Backed by the Good Housekeeping Seal.

The value of Wolmanized® wood has been recognized by contractors and property owners for years. Now it has earned the Good Housekeeping Seal. Patricia Haegele, senior vice president and publisher of Good Housekeeping, said,

"...only products that have passed the tests and evaluations of the Good Housekeeping Institute are eligible to earn the Seal. And Good Housekeeping believes in these products so strongly that we extend our own two-year warranty to replace or refund them if they prove to be defective. It's because of this promise consumers choose brands with the Good Housekeeping Seal over similar products without it... We're delighted to welcome Wolmanized® lumber into the Seal 'family' of consumer products."





Specification Guide for Treated Wood End Uses

Wood Treated Right™	Use Category	Preservative Retention (Lbs. per cubic foot)			
		CA-B	CA-C	μCA-C	
AGRICULTURE, FARM USE	Round poles and posts as structural members	4B	.31	.25	.23
	Sawn poles and posts as structural members	4B	.31	.25	.23
	Posts, Fence				
	Round, half & quarter round	4A	.21	.15	.14
	Sawn four sides	4A	.21	.15	.14
	Lumber, in soil contact	4A	.21	.15	.14
	Lumber, not in soil contact	3B	.10	.06	.05
	Plywood, in soil contact	4A	.21	.15	.14
	Plywood, not in soil contact	3B	.10	.06	.05
	Grape stakes, sawn	4A	.21	.15	.14
BUILDING CONSTRUCTION MATERIAL	Floor plate	2	.10	.06	.05
	Flooring, residential				
	Damp environment	2	.10	.06	.05
	Dry environment	1	.10	.06	.05
	Framing, interior	1, 2	.10	.06	.05
	Lumber				
	Interior, above ground	1, 2	.10	.06	.05
	Exterior, above ground	3B	.10	.06	.05
	Ground contact and fresh water use	4A	.21	.15	.14
	Permanent Wood Foundation				
	Lumber & Plywood	4B	.31	.25	.23
	Plywood				
	Sub-floor, damp above ground	2	.10	.06	.05
	Exterior, above ground	3B	.10	.06	.05
	Ground contact and fresh water use	4A	.21	.15	.14
	Poles, building				
	Round	4B	.31	.25	.23
	Sawn	4B, 4C	.31	.25	.23
	Piling, foundation, land & freshwater				
	Round timber (Southern pine)	4C	.41	.35*	.35*
DECKS	Above ground: Decking, joists, rails, steps	3B	.10	.06	.05
	Sapwood species: Decking, specialties	3B	.08	.06	.05
	Ground contact: Posts	4A	.21	.15	.14
FENCES	Pickets, slats, trim	3A, 3B	.10	.06	.05
	Posts, sawn	4A	.21	.15	.14
HIGHWAY MATERIAL	Lumber and timbers for bridges, structural members, decking, cribbing, & culverts	4B	.31	.25	.23
	Structural lumber and timbers:				
	Posts: Round, half-round, quarter round	4A	.21	.15	.14
	Posts: Sawn	4A	.21	.15	.14
	Handrails and guardrails	3B	.10	.06	.05
	Posts, guardrail				
	Round	4A	.25	.25*	.23*
	Sawn	4A	.25	.25*	.23*

*Not yet evaluated for use in these applications

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