



Treated with Wolman® E
Copper Azole (CA-C)

THUNDERBOLT INC.
WOOD TREATING
Riverbank, CA
(209) 747-7773 • (800) 356-7146
www.ThunderboltWoodTreating.com



Treated with Chemonite®
Ammoniacal Copper Zinc Arsenate



Treated with Wolmanac®
Chromated Copper Arsenate (CCA)



Treated with Borate

Specification Guide for Treated Wood End Uses

Preservative Retention (Lbs. per cubic foot)

		AWPA Use Category	ACZA	CA-C	CCA	T-Bor (Borate)
AGRICULTURE, FARM USE	Round poles and posts as structural members	4B	0.60	0.31	0.60	NA
	Sawn poles and posts as structural members	4B	0.60	0.31	0.60	NA
	Posts, Fence					
	Round, half & quarter round	4A	0.40	0.15	0.40	NA
	Sawn four sides	4A	0.40	0.15	NA	NA
	Lumber, in soil contact	4A	0.40	0.15	NA	NA
	Lumber, not in soil contact	3B	0.25	0.060	NA	0.17, 0.28'
	Plywood, in soil contact	4A	0.40	0.15	0.40	NA
	Plywood, not in soil contact	3B	0.25	0.060	0.25	0.17, 0.28'
	Grape stakes, sawn	4A	0.40	0.15	NA	NA
BUILDING CONSTRUCTION MATERIAL	Sill plate	2	0.25	0.060	NA	0.17, 0.28'
	Lumber					
	Interior, above ground	1, 2	0.25	0.060	NA	0.17, 0.28'
	Exterior, above ground	3B	0.25	0.060	NA	NA
	Ground contact and fresh water use	4A	0.40	0.15	NA	NA
	Permanent Wood Foundation					
	Lumber & Plywood	4B	0.60	0.31	0.60	NA
	Plywood					
	Sub-floor, damp above ground	2	0.25	0.060	0.25	0.17, 0.28'
	Exterior, above ground	3B	0.25	0.060	0.25	NA
	Ground contact and fresh water use	4A	0.40	0.15	0.40	NA
	Marine use	5A-5C	2.50	NA	2.50	NA
	Poles, building					
Round	4B	0.60	0.31	0.60	NA	
Sawn	4B	0.60	0.31	0.60	NA	
*DECKS	Decking, joists, rails, steps (Above Ground)	3B	0.25	0.060	NA	NA
	Posts (Ground Contact)	4A	0.40	0.15	NA	NA
FENCES	Pickets, slats, trim	3A, 3B	0.25	0.060	NA	NA
	Posts, sawn	4A	0.40	0.15	NA	NA
HIGHWAY MATERIAL	Lumber and timbers for bridges, structural members, decking, cribbing, & culverts	4C	0.60	0.31	0.60	NA
	Handrails and guardrails	4B	0.60	0.31	0.60	NA
	Posts, general use					
	Round, half-round, quarter round	4A	0.40	0.15	0.40	NA
	Sawn	4A	0.40	0.15	0.40	NA
	Posts, guardrail					
	Round	4B	0.50	0.25	0.50	NA
Sawn	4B	0.50	0.25	0.50	NA	
ROUND TIMBER PILING	Foundation, Land & Fresh Water RT piling	4C	1.0 (DF only)	NA	NA	NA
	Marine Piles	5A ²	1.5 (DF only)	NA	NA	NA
		5B-5C	2.5 (DF only)	NA	NA	NA
DOUGLAS FIR GLUE LAMINATED MEMBERS (TREATED AFTER GLUING)	Above ground — interior / exterior	1, 2, 3B	0.30	NA	NA	NA
	Ground contact and freshwater use	4A	0.60	NA	NA	NA

* Not approved for CCA-treated wood produced after Dec. 30, 2003
 * Not approved for borate-treated wood

²Allowed for Formosan termite protection
 North of San Francisco