

Wood Preservation Canada
Préservation du bois Canada

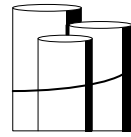
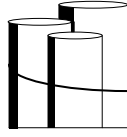
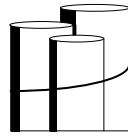
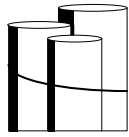
SPECIFIER GUIDE

No. WPC – 07-2022

Round and Sawn Wood Piles



Wood Preservation Canada • 613-737-4337 • info@woodpreservation.ca Wood Preservation Canada provides this information from sources believed to be true. However, neither WPC or its members guarantee the accuracy of any information published herein and these parties are not responsible for any errors, omissions or damages arising out of or relating to its use. This document is published with the understanding that WPC, its members and the authors are supplying information, but are not attempting to render engineering or other professional services.



SPECIFYING ROUND AND SAWN WOOD PILES

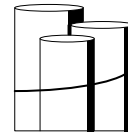
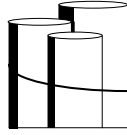
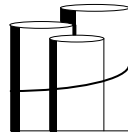
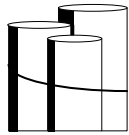
WPC – 07-2022

Preservative Systems Used in Treatment of Solid Sawn Products (boards, lumber, and timber) for marine (saltwater) applications		
UC5A – Coastal waters – brackish water or saltwater and adjacent mud zone		
Chemical Name	Abbreviation	Allowable Use Category
Ammoniacal Copper Zinc Arsenate	ACZA	UC5A
Chromated Copper Arsenate	CCA	UC5A
Creosote	CR	UC5A

Preservative Systems Used in Treatment of Solid Sawn Products (boards, lumber, and timber) for marine (saltwater) applications			
UC5A – Coastal waters – brackish water or saltwater and adjacent mud zone			
Species Group	Preservative System Retention kg/m ³ *		
	ACZA	CCA	CR
Jack pine	30.0	24.0	290
Lodgepole pine	30.0	24.0	290
Ponderosa pine	30.0	24.0	290
Red pine	30.0	24.0	290
Southern pine	30.0	24.0	290
Eastern and Western hemlock	30.0	24.0	290
Coastal Douglas fir	30.0	24.0	290
Oak	30.0	24.0	290

** Retention levels vary by species and preservative system – Refer to CAN / CSA O80.1 – 21 Table 22 for complete details*

Preservative Systems Used in Treatment of Solid Sawn (Timber) Piles		
UC4.2 – Ground contact or freshwater – high decay hazard / critical structural components / difficult to replace		
Chemical Name	Abbreviation	Allowable Use Category
Ammoniacal Copper Zinc Arsenate	ACZA	UC4.2
Chromated Copper Arsenate	CCA	UC4.2
Creosote	CR	UC4.2
Creosote	CR-S	UC4.2
Pentachlorophenol	PCP-A / PCP-C	UC4.2



SPECIFYING ROUND AND SAWN WOOD PILES

WPC – 07-2022

Preservative Systems Used in Treatment of Solid Sawn (Timber) Piles					
UC4.2 – Ground contact or freshwater – high decay hazard / critical structural components / difficult to replace					
Species Group	Preservative System Retention kg/m ³ *				
	ACZA	CCA†	CR	CR – S	PCP-A/PCP-C
Eastern white, Ponderosa and Red pine	8.0	8.0	128	128	6.4
Jack and Lodgepole pine	8.0	8.0	128	128	6.4
Southern pine	8.0	8.0	NR	NR	NR
Western white pine	8.0	8.0	NR	NR	NR
Hem-Fir North, Eastern and Western Hemlock, and True firs	8.0	8.0	160	160	8.0
Coastal Douglas fir	8.0	8.0	160	160	8.0
Western larch	NR	NR	128	NR	6.4
Beech	NR	NR	128	128	6.4
Birch	NR	NR	128	128	6.4
Maple	NR	NR	128	128	6.4
Red Oak	NR	NR	128	128	6.4

* Retention levels vary by species and preservative system - Refer to CAN / CSA O80.1 – 21 Table 10 for complete details
† To be used only in accordance with PMRA requirements. Industrial products and permanent wood foundations are examples of allowable uses. Refer to CAN / CSA O80.1 – 21 Table 10 for complete details

Product registration

Wood preservatives and their uses are regulated by Health Canada’s Pest Management Regulatory Agency (PMRA).

Recommended Reference Standards

National Lumber Grades Authority (NLGA), Standard Grading Rules for Canadian Lumber (2014)

CAN/CSA O56-15 Round Wood Piles©*

CAN / CSA – O80 Series – 21 Wood Preservation©

Source © 2021 Canadian Standards Association

With the permission of Canadian Standards Association, (operating as “CSA Group”), 178 Rexdale Blvd., Toronto, ON, M9W 1R3, material is reproduced from CSA Group’s standard **CAN/CSA-O80 Series 15 Series – Wood Preservation**. This material is not the complete and official position of CSA Group on the referenced subject, which is represented solely by the Standard in its entirety. While use of the material has been authorized, CSA Group is not responsible for the manner in which the data is presented, nor for any representations and interpretations. No further reproduction is permitted.

For more information or to purchase standard(s) from CSA Group, please visit the store csagroup.org or call 1-800-463-6727.