

SPECIFYING ROUND AND SAWN WOOD PILES

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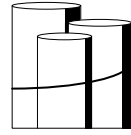
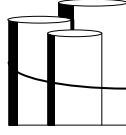
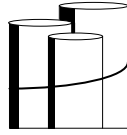
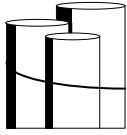
Product Introduction

A Treated Wood Pile is a round or square column that has been driven into the ground to support a vertical load. Treated Wood Piles have a long and successful service record. They are inexpensive, strong and long lasting. Square Timber Piles shall conform to the physical requirements of the National Lumber Grades Authority, Standard Grading Rules for Canadian Lumber. Round Timber Piles shall conform to the material, manufacturing and dimensional requirements of CAN/CSA-056-10 – Round Wood Piles. The information in this guide will identify the requirements for Treated Wood Piles as specified in the CSA O80 Standard.

Allowable Wood Species and Related Use Categories

Treated Wood Piles are used in contact with the ground, freshwater and saltwater. These conditions are favourable to deterioration and Wood Piles must last for the life of the structure they are supporting. Round and Sawn Wood Piles have a Use Category rating of 4.2 and in marine situations a Use Category rating of 5A. The processing and treatment of Sawn Wood Piles shall be done in accordance with CSA 080.2-08, section 9.1. The processing and treatment of Round Wood Piles shall be done in accordance with CSA 080.2-08, section 9.5. The processing and treatment of Sawn and Round Wood Piles in a Marine Application shall be done in accordance with CSA 080.1-08, section 9.8.

Sawn Piles Preservative usage by Species					
UC4.2 – Ground Contact or Freshwater					
Species Group	Preservative Use				
	CR	CR-S	PCP	ACZA	CCA
Eastern White, Ponderosa and Red Pine	Yes	Yes	Yes	Yes	Yes
Western White Pine	No	No	No	Yes	Yes
Jack and Lodgepole Pine	Yes	Yes	Yes	Yes	Yes
Southern Pine	No	No	No	Yes	Yes
Western Hemlock	Yes	No	Yes	Yes	No
Coastal Douglas Fir	Yes	Yes	Yes	Yes	No
Hem-Fir North, Eastern and Western Hemlock, and True Firs	Yes	Yes	Yes	Yes	Yes
Western Larch	Yes	No	No	No	No
Beech	Yes	Yes	Yes	No	No
Birch	Yes	Yes	Yes	No	No
Maple	Yes	Yes	Yes	No	No
Red Oak	Yes	Yes	Yes	No	No



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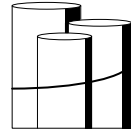
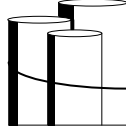
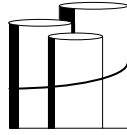
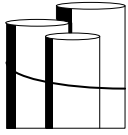
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Round Piles - Preservative usage by Species								
UC4.2 – Ground Contact or Freshwater								
Species Group	Preservative Use							
	CR	CR-PS	PCP-A	PCP-C	ACZA	CA-B	CCA	ACQ-C
Jack and Lodgepole Pine	Yes	Yes	Yes	Yes	Yes	No	Yes	No
Ponderosa, Red and Southern Pine	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Western Larch	Yes	Yes	Yes	Yes	Yes	No	Yes	No
Douglas Fir	Yes	Yes	Yes	Yes	Yes	No	Yes	No
Oak	Yes	Yes	Yes	Yes	Yes	No	Yes	No
Sawn Piles - Preservative usage by Species in Marine Applications								
UC5A – Construction in Brackish or Saltwater								
Species Group	CR			ACZA		CCA		
Jack and Lodgepole Pine	Yes			Yes			Yes	
Ponderosa, Red and Southern Pine	Yes			Yes			Yes	
Eastern and Western Hemlock	Yes			Yes			Yes	
Coastal Douglas Fir	Yes			Yes			Yes	
Oak	Yes			Yes			Yes	
Round Piles - Preservative usage by Species in Marine Applications								
UC5A – Construction in Brackish or Saltwater								
Species Group	CR			ACZA		CCA		
Jack, Red and Southern Pine	Yes			Yes			Yes	
Coastal Douglas Fir	Yes			Yes			Yes	

Allowable Treatment Preservatives

All allowable species may be treated with one of the following preservatives. Wood preservatives require registration under the Federal Pest Control Act. Only preservatives that are currently registered are listed.

Preservative	Preservative Abbreviation	Relevant Standards
Creosote	CR	AWPA P1 and P13
Creosote-Petroleum Solution	CR-PS	AWPA P3
Pentachlorophenol, Solvent A	PCP-A	CSA O80.4, AWPA P8 & P9
Pentachlorophenol, Solvent C	PCP-C	CSA O80.4, AWPA P8 & P9
Ammoniacal Copper Zinc Arsenate	ACZA	AWPA P5



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Preservative	Preservative Abbreviation	Relevant Standards
Alkaline Copper Quat, Type C	ACQ-C	AWPA P5
Copper Azole	CA-B	AWPA P5
Chromate Copper Arsenate, Type C	CCA	AWPA P5