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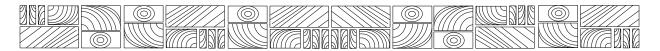
Product Introduction

Wood has many remarkable attributes and has been used as a building material for centuries. It is the only major building material that is both renewable and sustainable. Wood is easily workable, cost effective and when properly treated very durable in exposed applications. Lumber and Timber in Building Construction shall conform to the physical requirements of the National Lumber Grades Authority, Standard Grading Rules for Canadian Lumber. The information in this guide will identify the requirements for Treated Wood in Building Construction as specified in the CSA O80 Standard.

Allowable Wood Species and Related Use Categories

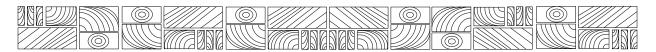
Lumber and Timber in Building Construction can be subjected to a wide variety of decay threats and therefore has a wide range of Use Category ratings from UC1 for framing lumber to a UC4.2 rating for exterior solid timber beams and supports. Lumber and Panelling in Building Construction can also be protected from fire with a Use Category rating of UCF.1. The Processing and Treatment of Sawn Lumber and Timber in a Building Construction shall be done in accordance with CSA O80.2-08, section 9.1.

Lumber and Timber in Building Construction - Preservative usage by Species						
UC1- Interior Construction, Ab	ove Ground-dry					
Species Group	Preservative Use					
	ACQ-C	ACQ-D	CA-B	SBX		
Jack and Lodgepole Pine	Yes	Yes	Yes	Yes		
Eastern White, Ponderosa,	Yes	Yes	Yes	Yes		
and Red Pine						
Southern Pine	Yes	Yes	Yes	Yes		
Western White Pine	Yes	Yes	Yes	Yes		
Hem-Fire North, Eastern and	Yes	Yes	Yes	Yes		
Western Hemlock, and True						
Firs						
Spruce-Pine-Fir and Spruce-	Yes	Yes	Yes	Yes		
Pine-Fir West						
Engelmann and Western	Yes	Yes	Yes	Yes		
White Spruce						
Coastal Douglas Fir	Yes	Yes	Yes	Yes		
Western Larch	No	No	No	No		
Western Red Cedar	No	No	No	No		
Yellow Cypress	No	No	No	No		
Beech	No	No	No	No		
Maple	No	No	No	No		
Red Oak	No	No	No	No		
White Oak	No	No	No	No		



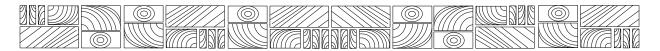
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UC2- Interior Construction, Ak	ove Grou	ınd-damp)					
Species Group	Pre			Preserva	rvative Use			
	ACQ-C		ACQ-D CA-B		В	SBX		
Jack and Lodgepole Pine	Yes		Yes		Yes		Yes	
Eastern White, Ponderosa,	Ye	es .	Yes		Yes		Yes	
and Red Pine								
Southern Pine	Ye	es .	Yes		Yes		Yes	
Western White Pine	Ye	es .	Yes	Yes		5	Yes	
Hem-Fire North, Eastern and Western Hemlock, and True Firs	Yes		Yes	Yes Yes		5	Ye	S
Spruce-Pine-Fir and Spruce- Pine-Fir West	Ye	!S	Yes		Yes		Yes	
Engelmann and Western White Spruce	Ye	!S	Yes		Yes		Yes	
Coastal Douglas Fir	Ye	!S	Yes		Yes		Yes	
Western Larch	N	0	No		No		No	
Western Red Cedar	N	No No			No		No	
Yellow Cypress	No		No		No		No	
Beech	No		No		No		No	
Maple	No		No		No		No	
Red Oak	No		No		No		No	
White Oak	No		No No			No)	
Lumber and Timber in Build	ding Con	struction	- Preser	ative us	age by S	pecies		
UC3.1 and 3.2 – Exterior Const	truction, A	Above Gro	ound - coa	ted or un	coated			
Species Group	Preservative Use							
	ACQ- C/D	CA-B	ACZA	CCA	CR	CR-S	CuN	PCP A/C
Jack and Lodgepole Pine	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Eastern White, Ponderosa, and Red Pine	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Southern Pine	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Western White Pine	Yes	Yes	No	No	Yes	Yes	No	Yes
Hem-Fire North, Eastern and Western Hemlock, and True Firs	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Spruce-Pine-Fir and Spruce- Pine-Fir West	Yes	Yes	No	No	Yes	Yes	No	Yes
Engelmann and Western White Spruce	Yes	Yes	No	No	Yes	Yes	No	Yes



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Lumber and Timber in Build						pecies		
UC3.1 and 3.2 – Exterior Cons	truction, A	Above Gro	ound - coa					
Species Group Preservative Use				T	1			
	ACQ-	CA-B	ACZA	CCA	CR	CR-S	CuN	PCP-
	C/D							A/C
Coastal Douglas Fir	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Western Larch	No	No	Yes	Yes	No	No	No	No
Western Red Cedar	No	No	No	No	No	No	No	No
Yellow Cypress	No	No	No	No	Yes	Yes	No	Yes
Beech	No	No	Yes	Yes	No	No	No	Yes
Maple	No	No	Yes	Yes	Yes	Yes	No	Yes
Red Oak	No	No	Yes	Yes	Yes	Yes	No	Yes
White Oak	No	No	Yes	Yes	Yes	Yes	No	Yes
Lumber and Timber in Build	ding Con	struction	- Preser	vative us	age by S	pecies		
UC4.1 – Ground Contact or Freshwater, Normal Exposure – uncritical components								
Species Group	Preservative Use							
	ACQ-	CA-B	ACZA	CCA	CR	CR-S	CuN	PCP-
	C/D							A/C
Jack and Lodgepole Pine	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Eastern White, Ponderosa,	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
and Red Pine								
Southern Pine	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Western White Pine	Yes	Yes	No	No	Yes	Yes	No	Yes
Hem-Fire North, Eastern and	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Western Hemlock, and True								
Firs								
Spruce-Pine-Fir and Spruce-	Yes	Yes	No	No	Yes	Yes	No	Yes
Pine-Fir West		+						
Engelmann and Western	Yes	Yes	No	No	Yes	Yes	No	Yes
White Spruce								
Coastal Douglas Fir	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Western Larch	No	No	Yes	Yes	No	No	No	No
Western Red Cedar	No	No	No	No	No	No	No	No
Yellow Cypress	No	No	No	No	Yes	Yes	No	Yes
Beech	Yes	Yes	Yes	Yes	No	No	No	Yes
Maple	No	No	Yes	Yes	Yes	Yes	No	Yes
Red Oak	No	No	Yes	Yes	Yes	Yes	No	Yes
White Oak	No	No	Yes	Yes	Yes	Yes	No	Yes
† Retentions specified in the CSA							1	1



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Lumber and Timber in Buildi	ng Construct	ion - Preserva	tive usage by	Species	
UC4.2 – Ground Contact or Fres	hwater, High [Decay Potential	– critical comp	onents	
Species Group	Preservative Use				
	ACZA	CCA	CR	CR-S	PCP-A/C
Jack and Lodgepole Pine	Yes	Yes	Yes	Yes	Yes
Eastern White, Ponderosa, and Red Pine	Yes	Yes	Yes	Yes	Yes
Southern Pine	Yes	Yes	No	Yes	Yes
Western White Pine	Yes	Yes	No	Yes	Yes
Hem-Fire North, Eastern and	Yes	Yes	Yes	Yes	Yes
Western Hemlock, and True					
Firs					
Spruce-Pine-Fir and Spruce-	No	No	No	No	No
Pine-Fir West					
Engelmann and Western White Spruce	No	No	No	No	No
Coastal Douglas Fir	Yes	Yes	Yes	Yes	Yes
Western Larch	No	No	Yes	No	No
Western Red Cedar	No	No	No	No	No
Yellow Cypress	No	No	Yes	Yes	Yes
Beech	No	No	Yes	Yes	Yes
Maple	No	No	Yes	Yes	Yes
Red Oak	No	No	Yes	Yes	Yes
White Oak	No	No	No	No	No

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
Copper Naphthenate	CuN	CSA O80.4, AWPA P8 & P9
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	ACZA	AWPA P5
Arsenate*		
Alkaline Copper Quat, Type C	ACQ-C	AWPA P5



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