



SPECIFYING LUMBER AND TIMBER IN MARINE APPLICATIONS

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Product Introduction

Lumber and Timber are used in a variety of applications in Marine environments. Lumber and Timber in Marine Applications is widely used for products such as cribbing for docks, bulkhead sheathing and bridge timbers. Sawn boards, lumber and timber 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 Marine Applications as specified in the CSA O80 Standard.

Allowable Wood Species and Related Use Categories

Lumber and Timber in Marine Applications can be in above ground, ground contact (such as mud) or in direct or indirect contact with saltwater. These conditions are favourable for decay and/or attack from marine borers. The Best Management Practices (BMP'S) for the Use of Treated Wood in Aquatic and Other Sensitive Environments should be applied when large volumes of treated are to be used in poorly circulating bodies of water. Lumber and Timber in Marine Applications has Use Category ratings of 4.1 and 5A. The Processing and Treatment of Sawn Lumber and Timber in a Marine Application shall be done in accordance with CSA 080.1-08, section 9.8.

Lumber and Timber in Marine Applications, Species Group by End Use		
Species Group	End Use	
	Out of Water and Above Ground – significant saltwater splash	Brackish water or Saltwater
Jack, Lodgepole, Ponderosa, Red and Southern Pine	4.1	5A
Eastern and Western Hemlock	4.1	5A
Costal Douglas Fir	4.1	5A
Oak	4.1	5A

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
Ammoniacal Copper Zinc Arsenate	ACZA	AWPA P5
Chromated Copper Arsenate, type C	CCA	AWPA P5
Creosote	CR	AWPA P1 and P13