

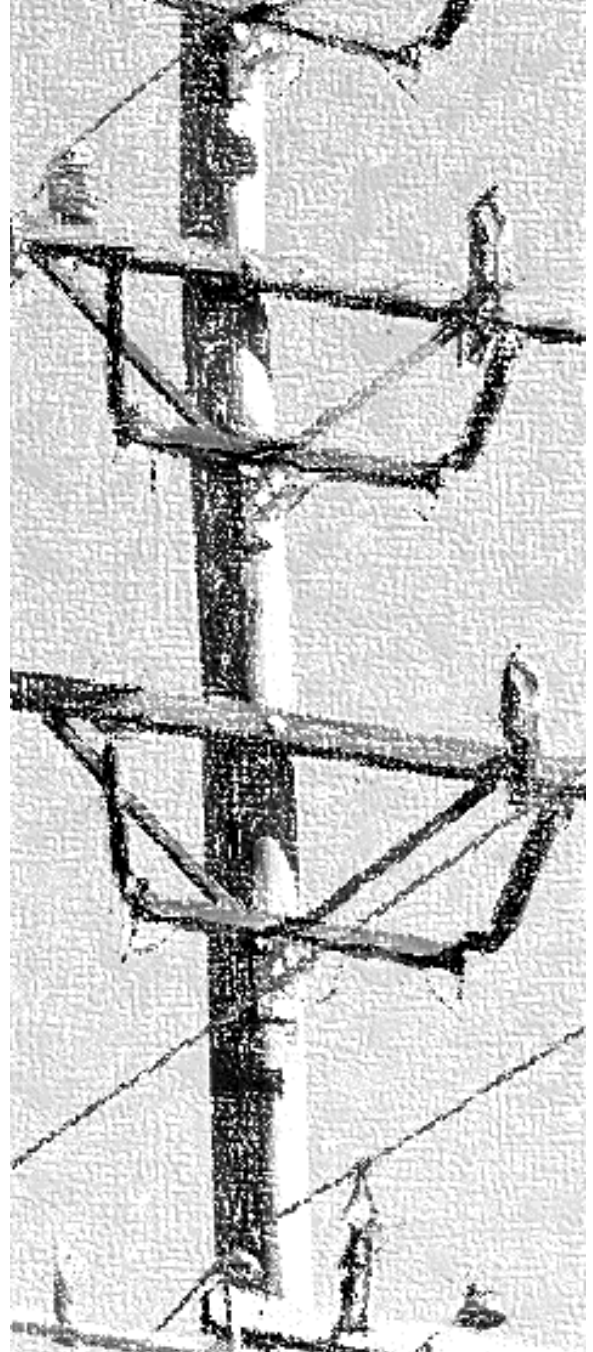


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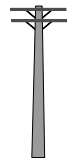
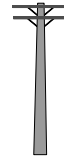
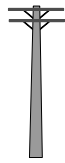
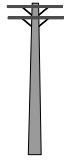
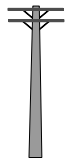
# **SPECIFIER GUIDE**

No. WPC – 01-2022

## **Crossarms**



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## SPECIFYING CROSSARMS

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### Product Introduction

Pressure treated wood crossarms are beams that are typically square and mounted at right angles on a utility pole to secure the transmission wires and provide a transfer point that can carry multiple wires along the utility service corridor from pole to pole. Crossarms are typically manufactured based on specifications as provide by or indicated by the purchaser.

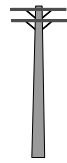
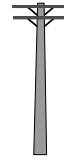
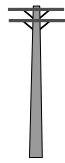
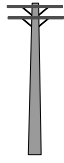
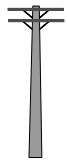
The information in this guide focuses only on the requirements for pressure treating of pressure treated sawn crossarms as specified in the CAN / CSA O80-21 Wood Preservation.

### Allowable Wood Species and Related Use Categories

While pressure treated crossarms are not in ground contact they are subject to substantial vertical loads and their integrity coupled with long-term performance is an important quality required in utility lines. Under general service conditions crossarms have a Use Category rating of UC3.2 and where the conditions are deemed critical or hard to replace applications a Use Category rating of UC4.1. The processing and treatment of these products shall be done in accordance with CSA O80.2-21.

Preservative Systems Used in Treatment Crossarms – Sawn*		
Chemical Name	Abbreviation	Allowable Use Categories
Ammoniacal Copper Zinc Arsenate	ACZA	UC 3.2, UC4.1
Copper Azole Type B	CA-B	UC 3.2, UC4.1
Chromated Copper Arsenate	CCA	UC 3.2, UC4.1
Creosote	CR	UC 3.2, UC4.1
Copper Naphthenate	CuN	UC3.2, UC4.1
Pentachlorophenol	PCP-A or C	UC 3.2, UC4.1
*Refer to CAN / CSA O80.1-21 Table 11 for complete details. Source - CAN/CSA-O80 Series-21, Wood preservation. © 2021 Canadian Standards Association		

Preservative Treatments – Crossarms – Sawn – UC3.2						
UC3.2 – General Applications - Above Ground – Exterior						
Species Group	Preservative System Retention – kg/m <sup>3</sup> *					
	ACZA	CA-B	CCA	CR	CuN	PCP-A & C
Jack pine	4.0	1.7	4.0	96		4.8
Lodgepole pine	4.0	1.7	4.0	96		4.8
Red pine	4.0	1.7	4.0	96		4.8
Southern pine	4.0	1.7	4.0	96	0.64	4.8
Western Hemlock	4.0	1.7	4.0	96		6.4
Coastal Douglas fir	4.0	1.7	4.0	96	0.64	6.4



## SPECIFYING CROSSARMS

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Interior Douglas fir	4.0	1.7	4.0	96	0.64	6.4
Western larch	4.0		4.0	96		4.8
Yellow cypress	4.0		4.0	96		4.8
<i>*Refer to CAN / CSA O80.1-21 Table 10 for complete details</i> <i>Source - CAN/CSA-O80 Series-21 Wood preservation. © 2021 Canadian Standards Association</i>						

Preservative Treatments – Crossarms – Sawn – UC4.1						
UC4.1 – Critical or Hard to Replace Applications - Exterior						
Species Group	Preservative System Retention – kg/m <sup>3</sup> *					
	ACZA	CA-B	CCA	CR & CR-S	CuN	PCP-A & C
Jack pine	6.4	3.3	6.4	128		6.4
Lodgepole pine	6.4	3.3	6.4	128		6.4
Red pine	6.4	3.3	6.4	128		6.4
Southern pine	6.4	3.3	6.4	128	0.8	6.4
Western Hemlock	6.4	3.3	6.4	120		6.4
Coastal Douglas fir	6.4	3.3	6.4	120	0.8	6.4
Interior Douglas fir	6.4	3.3	6.4	120	0.8	6.4
Western larch	6.4		6.4	128		6.4
Yellow cypress	6.4		6.4	128		6.4
<i>*Refer to CAN / CSA O80.1-21 Table 10 for complete details</i> <i>Source - CAN/CSA-O80 Series-21 Wood preservation. © 2015 Canadian Standards Association</i>						

## Product registration

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

## Recommended Reference Standards

CAN / CSA O80 Series 15 - Wood Preservation® – Revised August 2017\*

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