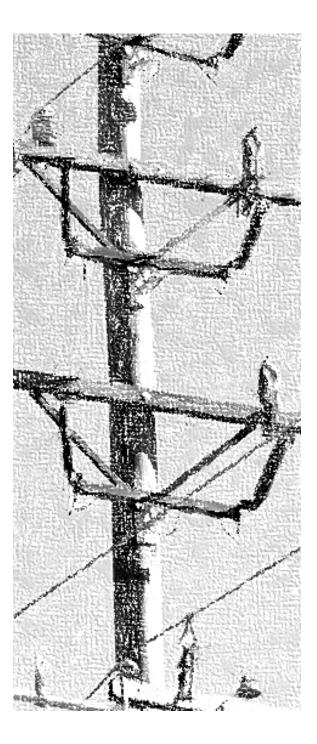


# SPECIFIER GUIDE

No. WPC - 01-2023

## 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 080.2-21.

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	

Association

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

SPECIFYING	CROSSARMS
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Interior	4.0	1.7	4.0	96	0.64	6.4
Douglas fir						
Western larch	4.0		4.0	96		4.8
Yellow cypress	4.0		4.0	96		4.8
*Refer to CAN / CSA	080.1-21 Table 10 fc	or complete details				

Source - CAN/CSA-080 Series-21 Wood preservation. © 2021 Canadian Standards Association

Preservative Treatments – Crossarms – Sawn – UC4.1 UC4.1 – Critical or Hard to Replace Applications - Exterior						
Species Group	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

Source - CAN/CSA-080 Series-21 Wood preservation. © 2015 Canadian Standards Association

#### **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 21 - Wood Preservation® Source © 2015 Canadian Standards Association

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