

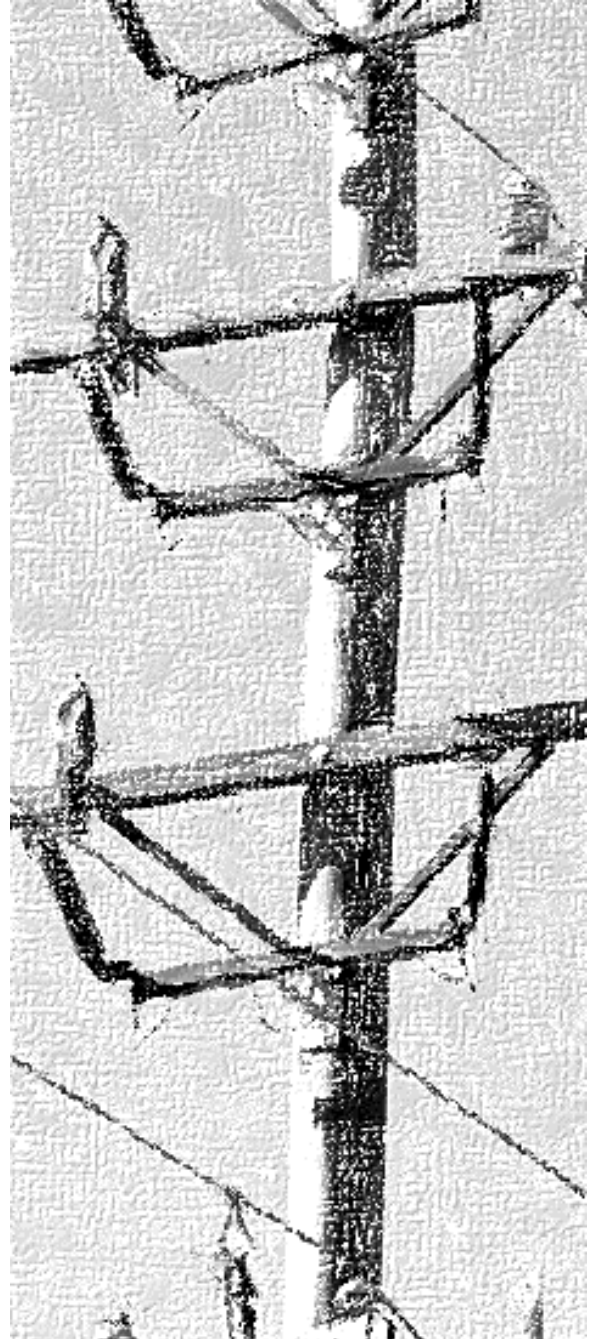


**Wood Preservation Canada**  
**Préserveration du bois Canada**

# SPECIFIER GUIDE

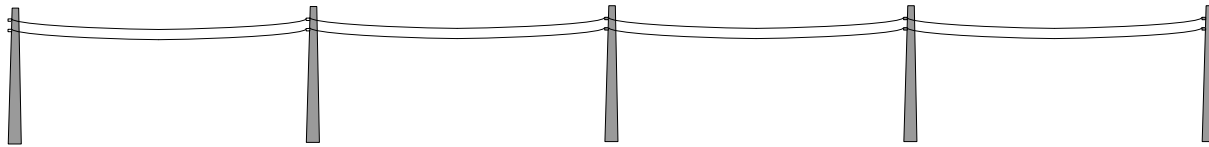
No. WPC – 05-2022

## Utility Poles



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## SPECIFYING WOOD UTILITY POLES

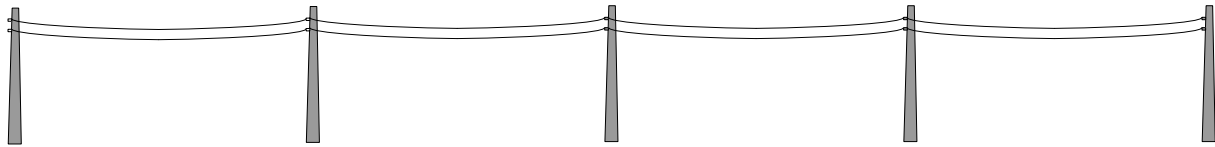
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<b>Preservative Treatments – Utility Poles UC4.1</b>								
UC4.1 – Distribution, Transmission and Laminated – Ground Contact or freshwater – Low Decay								
Species Group	Preservative System Retention – kg/m <sup>3</sup> *							
	ACQ-C	ACQ-D	ACZA	CA-B	CCA	CR	CuN	PCP
Eastern and Western White pine	NR	NR	9.6	NR	9.6	145	1.5	7.2
Jack pine	NR	NR	9.6	NR	9.6	145	1.5	7.2
Lodgepole pine	NR	NR	9.6	NR	9.6	192	1.5	9.6
Ponderosa pine	9.6	9.6	9.6	5.0	9.6	120	1.3	4.8
Red pine	9.6	9.6	9.6	5.0	9.6	160	1.2	6.4
Southern pine	9.6	9.6	9.6	5.0	9.6	120	1.3	4.8
Western hemlock	NR	NR	9.6	NR	9.6	145	NR	7.2
Coastal Douglas fir	NR	NR	9.6	NR	9.6	145	1.5	7.2
Interior Douglas Fir	NR	NR	9.6	NR	9.6	240	NR	12.2
Western larch	NR	NR	9.6	NR	9.6	240	NR	12.2
Western red cedar	NR	NR	9.6†	5.0	9.6†	256	1.9	12.8
Yellow cypress	NR	NR	9.6	NR	9.6	256	1.9	12.8

† If the pole is incised in the groundline zone, the retention shall be 16 kg/m<sup>3</sup> in the groundline zone and 4.8 kg/m<sup>3</sup> in the midpoint area. \* Refer to CAN / CSA O80.1-Table16 for complete details. Source: © 20 Canadian Standards Association

<b>Preservative Treatments – Utility Poles UC4.2</b>								
UC4.2 – Distribution, Transmission and Laminated – Ground Contact or freshwater – High Decay								
Species Group	Preservative System Retention – kg/m <sup>3</sup> *							
	ACQ-C	ACQ-D	ACZA	CA-B	CCA	CR	CuN	PCP
Eastern and Western White pine	NR	NR	9.6	NR	9.6	192	1.9	9.6
Jack pine	NR	NR	9.6	NR	9.6	192	1.9	9.6
Lodgepole pine	NR	NR	9.6	NR	9.6	260	1.9	9.6
Ponderosa pine	9.6	9.6	9.6	5.0	9.6	145	2.1	9.6
Red pine	9.6	9.6	9.6	5.0	9.6	192	1.5	9.6
Southern pine	9.6	9.6	9.6	5.0	9.6	145	2.1	9.6
Western hemlock	NR	NR	9.6	NR	9.6	192	NR	9.6
Coastal Douglas fir	NR	NR	9.6	NR	9.6	192	2.4	9.6
Interior Douglas Fir	NR	NR	9.6	NR	9.6	240	NR	12.2
Western larch	NR	NR	9.6	NR	9.6	240	NR	12.2
Western red cedar	NR	NR	9.6†	5.0	9.6†	256	1.9	12.8
Yellow cypress	NR	NR	9.6	NR	9.6	256	1.9	12.8

† If the pole is incised in the groundline zone, the retention shall be 16 kg/m<sup>3</sup> in the groundline zone and 4.8 kg/m<sup>3</sup> in the midpoint area. \* Refer to CAN / CSA O80.1-Table16 for complete details. Source: © 20 Canadian Standards Association



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### Thermal Butt Treatment of Utility Poles

Thermal Butt is a process where the lower ends of poles (butt) are impregnated with preservative in upright, open-top tanks. In this process, Butt-treated poles have treatment in the section that will be buried, extending just above the ground line, and may be used on, Western Red Cedar and Yellow Cypress incised pole butts.

<b>Thermal Butt Treatment of Utility Poles - Preservative usage by Species</b>			
UC4 – Distribution and Transmission - General			
Species Group	Preservative System Retention – kg/m <sup>3</sup> *		
	CR	CuN	PCP-A / PCP-C
Western Red Cedar	320	2.4	16
Yellow Cypress	320	2.4	16

\* Refer to CAN / CSA O80.1-21 Table 17 for complete details. Source: © 2021 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 O15-15 Wood Utility Poles and Reinforcing Stubs©\*

CAN / CSA – O80 Series – 21 Wood Preservation©

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