

# Canadian Standards Association (CSA) O80 Use Category (UC) 4.2

This bulletin covers this standard in reference to:

- Treated Wood with Waterborne Preservatives
- Treated Wood with Waterborne Preservatives for Material Used in Highway Construction

The CSA O80 UC 4.2 is a category for the specification of treated wood that covers pressure treated wood “in contact with the ground or freshwater in severe environments such as horticultural sites or climates with a high potential for deterioration, or used in permanent wood foundations or critically important components such as utility poles, building poles, and foundation and fresh water piling.”

## SOLID SAWN PRODUCTS – Lumber and Timber

The table below contains the minimum retention requirements for solid sawn products – Lumber and Timber treated with approved waterborne preservatives for approved UC 4.2 applications and permitted species.

ACQ, ACZA, CCA	CA-B
8 kg/m <sup>3</sup>	4 kg/m <sup>3</sup>
8 kg/m <sup>3</sup>	4 kg/m <sup>3</sup>
8 kg/m <sup>3</sup>	4 kg/m <sup>3</sup>
8 kg/m <sup>3</sup>	4 kg/m <sup>3</sup>
8 kg/m <sup>3</sup>	4 kg/m <sup>3</sup>
8 kg/m <sup>3</sup>	4 kg/m <sup>3</sup>

## HIGHWAY CONSTRUCTION – Treated Solid Sawn Wood Products

According to CSA O80 UC 4.2 standards, the same waterborne preservatives listed in the table above can be used for treated solid sawn wood products used in highway construction with the minimum retentions and species as noted above.



**POSTS – Including Round Building Posts**

UC 4.2, does not permit the use of treated round, half-round, and quarter-round Western hemlock, Douglas fir, and western larch building posts for farming or agriculture applications.

Round, half-round, and quarter-round posts on farms, not intended for building posts shall meet UC 4.1 requirements.

Posts used for farm and agriculture building posts must adhere to UC 4.2 retentions in the table below for allowable species.

<b>UC 4.2 Allowable waterborne preservatives, species and minimum pcf for round posts - agricultural use - no highway and non-farm</b>		
<b>ACQ</b>	<b>CA-B</b>	<b>ACZA and CCA</b>
<b>9.6 kg/m<sup>3</sup></b>	<b>5 kg/m<sup>3</sup></b>	<b>9.6 kg/m<sup>3</sup></b>

**ROUND POSTS – for Highway Use under UC 4.2**

The only allowable waterborne preservatives accepted for round posts treated for highway products under CSA 080 are ACZA and CCA.

Round posts 3.3 m long or longer, but less than 4.75 m (including building posts but excluding posts used for fencing) must meet UC 4.2.

Round posts 3.3m long or longer but less than 4.75m, with the exception of fencing posts that fall under UC 4.1, must meet the retention and requirements below for allowable species..

<b>ACQ</b>	<b>ACZA</b>	<b>CA-B</b>	<b>CCA</b>
<b>9.6 kg/m<sup>3</sup></b>	<b>9.6 kg/m<sup>3</sup></b>	<b>5 kg/m<sup>3</sup></b>	<b>9.6 kg/m<sup>3</sup></b>

**POLES – Excluding Utility Poles**

Poles for highway lighting, farm, and building use shall meet UC 4.2 standards. The retention and allowable species for waterborne preservatives are the same as the table above.

**ROUND POLES – for Agricultural Use**

Poles for agricultural use depending on the severity of the environment shall meet either UC 4.1 or UC 4.2. If UC 4.2 is specified, the retention and allowable species requirements above must be met.

**NOTES:**

**ROAD SALT AND FERTILIZER STORAGE BUILDINGS**

Wood treated with waterborne preservatives is not recommended for use in such structures.